

Fires on the Tactical Internet Analysis Report



**Architecture Integration and Management Directorate
Analysis Division, M&S Branch**

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EXECUTIVE SUMMARY

The purpose of the Fires on the Tactical Internet (FoTI) Study was to determine through modeling and simulation whether the Tactical Internet (TI) could provide the Artillery and supported maneuver commander with a fast, highly survivable fire support data network and to recommend the best TI net structure for executing fire support on the TI based on the study results. Subordinate to the main purpose were the following additional elements of analysis.

To discreetly assess Check Fire and Call for Fire message performance, as requested by the Field Artillery School, in terms of Speed of Service (SoS) and Message Completion Rates (MCR) in order to determine whether the TI met or exceeded the performance requirements defined by the Artillery School and to assess whether there were systemic problems that caused any message or thread failures.

Also, recommend changes in Tactics, Techniques and Procedures (TTP), if evident, resulting from the Fire Support Systems performance on the TI.

Finally, to recommend architectural changes in the fire support system that reduce or eliminate redundant or obsolete communications devices such as Single Channel Ground and Airborne Radio System (SINCGARS) currently used in the fire support process.

The study results indicate that the TI is fully capable of supporting the Fire Support System (FSS) with SoS and MCRs within the performance parameters specified by the AFATDS Operational Requirements Document (ORD). Separate fire support net alternatives are recommended that allow flexibility in assigning Enhanced Position Location Reporting System (EPLRS) Logical Time Slots (LTS) to the FSS. The recommendations also include suggested changes to several TI default settings. No specific changes to fire support TTP became evident during the study.

Continued partnership between the Architecture Integration and Management Directorate – South, the Field Artillery School and applicable Program and System Managers is also recommended. This should result in additional modeling and simulation analysis that expands the modeled FSS net structure below the Fire Direction Center (FDC) level and expands the EPLRS relay platforms used in modeling outside the Artillery community. This would enhance the Artillery Schools ability to more precisely evolve the fire support structure that will support enhanced Stryker Brigades, and potentially the Objective Force.

Finally, no change in SINCGARS architectural allocations is recommended at this point pending operational testing. SINCGARS will still be required to support Legacy and Non-Digitized units in the FSS, and where EPLRS is unapproved for use (frequency use prohibitions). This issue should be addressed further after operational FoTI testing and further digitization of the Total Force is completed.

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1. PURPOSE

1.1. The purpose of the Fires on the Tactical Internet (FoTI) Study was to determine through modeling and simulation whether the Tactical Internet (TI) could provide the Artillery and supported maneuver commander with a fast, highly survivable fire support data network, and to recommend the best TI net structure for executing fire support on the TI; based on the study results. Subordinate to the main purpose were the following additional elements of analysis.

1.2. To discreetly assess Call for Fire and Check Fire thread performance in terms of speed of service and message completion rates to ensure message delivery meets or exceeds requirements defined by the Artillery School for providing the supported commander with responsive fire support and to determine whether there were problems and recommend potential solutions.

1.3. To recommend changes in fire support Tactics, Techniques and Procedures (TTP) resulting from fire support nets being moved to the TI in order to streamline the fire support process and provide a more survivable, responsive fire support network to the supported commander.

1.4. To recommend architectural changes in the fire support system that reduce or eliminate redundant or obsolete communications devices such as Single Channel Ground and Airborne Radio System (SINCGARS) currently used in the fire support process, Figure 1.4-1.

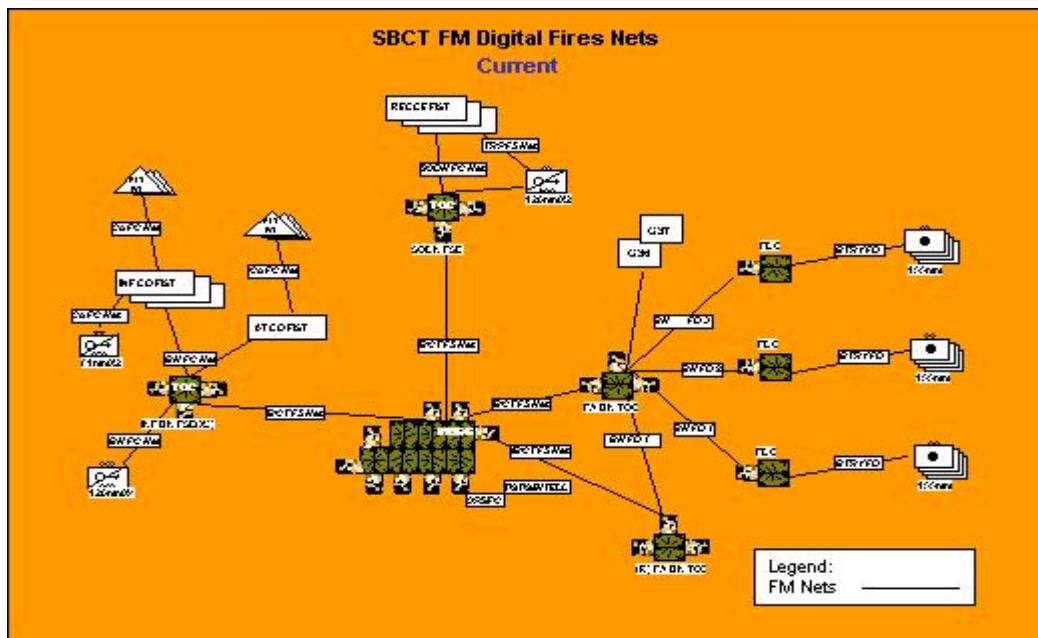


Figure 1.4-1 Legacy SINCGARS Based Fires Network

Fires on the TI

2. SCOPE

2.1. The primary objective of the Fires on the Tactical Internet (TI) Modeling, Simulation and Analysis study was to support the United States Army Field Artillery School in assessing the TIs capability to accommodate executing the Stryker Brigades Fire Support System (FSS) over the Tactical Internet. The force modeled in the study was Stryker Brigade Combat Team 3 (SBCT-3), deployed in the Caspian Sea scenario. The study produced Message Completion Rates and Speed of Service for a variety of fire support message threads. The study served as a starting point for assessing impacts on other SBCT Operational Architectures, and effects based Networked Fires concepts to be employed in the Objective Force. Enhanced Position Location Reporting System (EPLRS) v11.0, Mode 4 was the TI radio network modeled, as it is projected to be the designated data radio in the FY 05 force. The study also provided a link for follow-on assessments of Objective Force fires and effects support connectivity. Finally the study may have relevance to the Artillery School's development of the Effects Control System (ECS), the probable successor to the Advanced Field Artillery Tactical Data System (AFATDS). All of the fires and effects support systems will ultimately require the capabilities of the TI, Warfighter Information Network-Tactical (WIN-T) or similarly capable network (Figure 2.1-1).

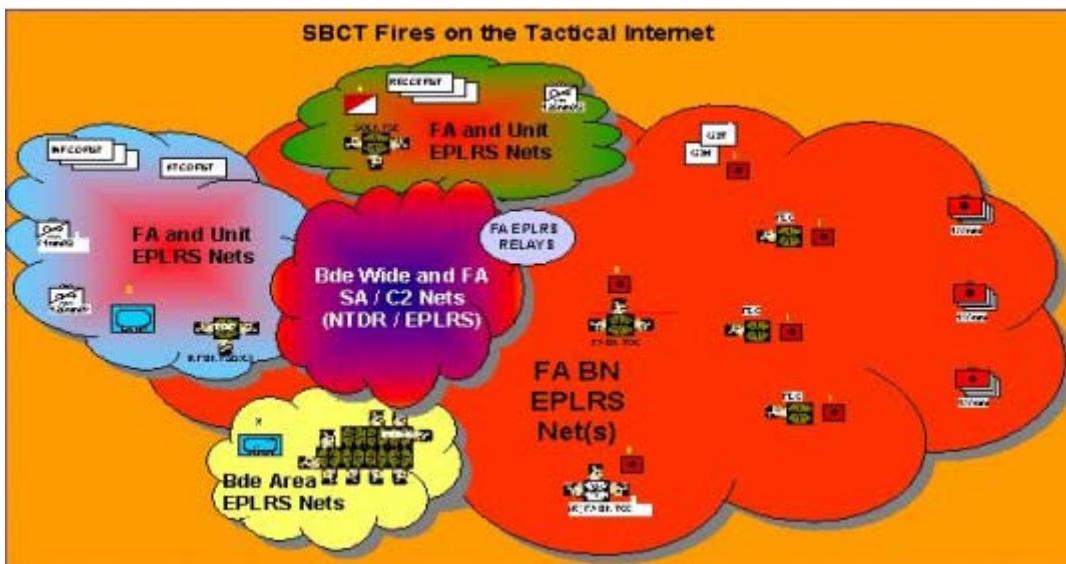


Figure 2.1-1 Objective Seamless Fires Network

2.2. The primary study question for this study was - can the Tactical Internet provide a viable, reliable network for supporting BCT operations when fire support data is added?

2.2.1. Essential Element of Analysis (EEA) 1. Can the Tactical Internet, with fire support data added, perform within the parameters of the AFATDS Block I Operational Requirements Document (ORD) using Speed of Service (SOS) and Message Completion Rate (MCR) as the metrics for assessing network performance?

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2.2.2. EEA 2. Where are the traffic choke points in the architecture that may impact rapid decision-making on fires and effects control and coordination and how are they mitigated or eliminated?

2.2.3. EEA 3. Are there recommended architectural changes evident to streamline sensor-to-shooter connectivity, reducing delay in the fires process? Can improvements and efficiencies be gained using different messaging schemes and modified threads within the SINCGARS and TI FS networks?

2.2.4. EEA 4. What is the best assignment of TI Logical Time Slots (LTS) and relay platforms to support current and future data requirements of the SBCTs, including fire support data?

2.2.5. EEA 5. Does SINCGARS remain viable for gateway connectivity to non-EPLRS equipped forces?

2.2.6. EEA 6. Are there any SINCGARS systems that can be reutilized for other purposes after transitioning from FM radio based FS data nets to fires on the TI?

2.3. FACTS

2.3.1. The Fire Support System requires use of both Unicast and multicast data transmission capabilities.

2.3.2. Messaging in this study was simulated based on requirements provided by the FA School, not based strictly on the current capability or limitations of the Field Artillery Data Systems (FATDS) equipment and software. Current limitations in FATDS would have penalized the TI throughput in the study in many areas, and the capabilities would not have enhanced it. Since this was a test of the TI, and not of those systems, certain capability was assumed, but was not yet in place in those systems. These capabilities include multi-addressing versus point-to-point, Variable Message Format (VMF) messaging rather than AFATDS database exchange, and the ability to configure the Internet Network Controller (INC), to name a few.

2.3.3. AFATDS-to-AFATDS database exchange was not simulated. The Fires based multi-addressed threads included many OPFAC Elements not capable of database exchange, and would have required repeating messages in VMF to the majority of net members in all threads tested. As a result, the added traffic appeared to overwhelm any perceived advantage to using database exchange between AFATDS only OPFAC Elements passing Fires data. In addition, the claims that database exchange was more efficient than VMF messaging could not be confirmed on a case-by-case basis in the time allowed for this study. As a result, database exchange was eliminated early in the thread construction conducted by the FA School, and was not used in this particular study. However, database exchange was used in a previous AFATDS only TI study, with similar successful results to this study.

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2.4. ASSUMPTIONS

2.4.1. Check Fire and Call For Fire messages are considered Category 1 messages as delineated in the AFATDS ORD, the TI System Design Document (TISDD) and the FBCB2 Architecture Description and Operational Concept document (ADOC), Version 3, 12 May 00. All messages were graded IAW performance parameters delineated by the Fire Support Interoperability Board (FSIB) ABCS version 7.0 requirement and those outlined in the amended AFATDS ORD, dated Mar 02, approved by MG Maples, Commandant, United States Army Filed Artillery School.

2.4.2. The AFATDS ORD, Mar 02 - Objective - Fiscal Year (FY) 05 AFATDS / ABCS timeliness parameters for Speed of Service and Message Completion Rate are the acceptable measure of delivery performance (Table 2.5-1).

| Category 1 Survivability | Category 2 Time Sensitive | Category 3 Aggregate Routine | Category 4 Non-Sensitive |
|---|--|--|--|
| </= 4 seconds | </= 17 seconds | </= 30 seconds | </= 120 seconds |
| Message types: <ul style="list-style-type: none"> * Check Fires * Command to Fire * Mission Clearance * Message to Observer (MTO) * End of Mission (EOM)/ Surveillance * Clearance To Fire * EOM Notification * Call for Fire * Observer Mission Update | Message types: <ul style="list-style-type: none"> * Mission Notification | Message Type: <ul style="list-style-type: none"> * FS Coordination Measures * Fire Mission Summary (MFR) * Position Report | Message Type: <ul style="list-style-type: none"> * Information Request Message * Ammunition Inventory |

Table 2.4-1 AFATDS ORD Message Delivery Performance Parameters

2.4.3. That SBCT-3 will be equipped with EPLRS Version 11.0 (Mode 4).

2.4.4. Information provided by Subject Matter Experts (SME) was considered acceptable for the purposes of conducting this study in absence of clearly defined doctrine or TTP.

2.4.5. The equipment modeled performs within the systems operational performance specifications.

2.4.6. The evaluated force structure adheres to doctrinal and organizational structures at the time of the study, and is a reliable representation of all Standard Requirements Codes (SRC) relevant to the SCBT's mission.

Fires on the TI

2.4.7. Fires on the TI will have to be re-modeled once Effects Control System (ECS) (Behavior, Beta, or other version) is released.

2.4.8. Enhanced bandwidth and netting capabilities of EPLRSv11 will be available in this Systems Architecture and was employed in the study.

2.4.9. Effects of electronic warfare and mutual interference (between nets) were expected to be no different for this study than effects on current TI.

2.4.10. All messages in the 2-hour scenario used in this study were 576 bytes or less and included application, IP/UDP/TCP protocols and header overhead data.

2.5. LIMITATIONS

2.5.1. The Next Generation Performance Model (NGPM) cannot effectively process modeling of extended scenarios such as the full 72-hour operational activities of the Caspian Sea scenario in a time efficient manner. To ensure that a viable simulation was performed, the most operationally intense 2-hour period in the Caspian Sea scenario defined by the Field Artillery School was modeled. A total of 13 different simulation variations were modeled with 12 individual, differently seeded runs performed for each simulation variation.

2.5.2. NGPM is not capable of replicating the exact functionality of the TI with respect to individual Army Battle Command System (ABCS) / Battlefield Functional Area (BFA) processes. Suitable work-around alternatives or NGPM re-programming was implemented to ensure closest possible replication of the TI and associated Field Artillery processes.

2.5.3. No force on force modeling was possible with NGPM, however this was assumed to be low risk due to the robust, survivable nature of the TI. Threat data from the force on force scenario was utilized to establish the operational intensity and duration of the simulations conducted in this study as well as the development of the mission threads used during modeling.

2.5.4. NGPM mission threading capability does not allow fluid execution of threads or segments with multiple critical paths. Work around measures were taken to ensure the most accurate replication of thread execution, and to provide the ability to subsequently analyze threads that performed below standard of measure.

2.5.5. The EPLRS net access protocol does not use the precedence of queued messages as an attribute in determining the amount of net idle time prior to transmitting. All radio sets within an EPLRS net compete equally for net access regardless of message precedence. The Internet Network Controller (INC), essential to Tactical Internet operations, does provide for release of messages to the EPLRS radio by precedence however.

Fires on the TI

2.6. STUDY ADMINISTARTION

2.6.1. Study Team - Mr. Dan Oakes, Chief AME, TSM FATDS; Ms. Linglee Dietrich, PM FATDS Office; Mr. Phil Wang, Analyst AIMD-S; Mr. Paul Stone, Programmer Analyst, AIMD-S; Mr. Jacob Rose, Analyst AIMD-S; Mr. Larry Hunter, Analyst AIMD-S; Mr. Tom Fitzpatrick, Analyst AIMD-S

2.6.2. Result repository – an electronic copy of the final FoTI Report and associated raw data has been sent to Mr. Dan Oakes at the Artillery School. The AIMD-S maintains a repository of the FoTI Study data on server Atzhcd25, under a main FoTI directory and three subdirectories named Engineering Runs, FoTIModRuns and FotiTb10Runs.

2.7. REFERENCED DOCUMENTS

2.7.1. Briefing to MG Maples, CG, USAFAS & Ft. Sill, subj: Fires on the Tactical Internet, dated 2001.

2.7.2. Teleconference between AIPC Analysis Branch and Mr. Dan Oakes, TSM-AFATDS, subj: modeling constructs for proposed Fires on the Tactical Internet Study, 10 July 2002.

2.7.3. Discussion with Mr. Wolf Kutter, Operational Architect, AIMD-S, 10 and 25 Jul 02, subj: Relevance of Fires on the Tactical Internet Study to 2d Cavalry Regiment (2CR) Study and input on refining Study Plan.

2.7.4. Emails between Mr. Fitzpatrick, Analysis Branch, AIMD-S and Ms Ling Lee Dietrich, PM-FATDS, 20 Jul 02, subject: Fires on the TI Study Plan review.

2.7.5. Update to EPLRS ORD, dated 2 Jul 99.

2.7.6. Tactical Internet Systems Design Document (TISDD), Version 3.4 – Final, dated 21 Dec 01.

2.7.7. FBCB2 Scientific and Technical Reports Summary – Architecture Description and Operational Concept (ADOC), Version 3, dated 12 May 00.

2.7.8. ABCS Capstone Requirements Document, 30 Jul 99.

2.7.9. WIN-T ORD (pre-decisional), 15 May 02.

2.7.10. Coordinating Draft, BST 6-20-40, Fires and Effects for Interim Brigade Combat Team Operations, March 02.

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3. MODEL DESCRIPTION

3.1. Operational Network Assessment Tool (OPNET) – NGPM

3.1.1. The study used NGPM, a high-resolution model of the Tactical Internet, well suited for modeling communications systems at echelon brigade and below.

3.1.2. Several engineering runs were performed to verify that the model was functioning properly and to identify the simulation variations that appeared to most closely fulfill the traffic delivery requirements of the supported commander warranting further analysis. Network variables (referred to as “simulation variations” in the remainder of this document) that were manipulated during the engineering test runs included; net structure (assignment of fire support nets / traffic to different Logical Time Slot (LTS) configurations), Message Acknowledgement “on” or “off,” Retry Time variation and Multicast to Unicast Retry Time variation. Radio power, location and relay designations remained constant throughout each simulation.

3.1.3. The results of the engineering runs produced 13 final simulation variations (designated as Aai7Mod – Aai10Mod, Aai7Tb10 - Aai10Tb10, Aai7ModTraffic – Aai8ModTraffic, Aai28Full, Aai28Half and Aai28Qtr for the duration of this report). These 13 variations were each run 12 times with varying random generation seed selection. Each random seed causes a different random number stream to be used in the simulation. From a communications perspective, seeded runs vary the randomness at which EPUUs attempt to access the net when intending to transmit. This random seeding was performed in order to ensure an appropriate number of runs were conducted to attain statistically relevant simulation results.

3.1.4. Simulation differences focused on varying the net structure, time between Retries and the time between multicast and unicast transmissions. The variations are depicted in Table 3.1-1 (See Legend, next page). Highlighted text indicates that a network variable was changed for that set of runs. The specific variable that was changed in each simulation variation is identified in Blue font in Table 3.1-1.

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Table 3.1-1 Legend:

Sim. Variation – variable net structure used for each simulation

Fires on the TI

CF – Check Fires

F – Fires

FSOps – Fire Support Operations

MC Retry – Number of multicast retransmission attempts before using TCP

MC/UC – Time between last transmission attempt and TCP session

Retry interval - Time between Multicast retransmission attempts

Ack Time – A random time from 0 to the “Ack Time” that a receiver waits before generating an acknowledgement to reduce the number of net collisions.

XOR – EPLRS Forward Error Correction function.

Power – Radio Power

EPLRS Mode – specific variation of EPLRS waveform used.

Runs – Number of iterations of a specific simulation set performed using a discreetly different random seed generator in each run.

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Fires on the TI

| Run No. | Net Description/ Sim. LTS Variation | MC Retrys | MC/UC Time | Retry Time | Ack Time | XOR | Radio Power | EPLRS Mode | No. of Runs |
|---|--|-----------|------------|------------|----------|-----|-------------|------------|-------------|
| Engineering Runs | | | | | | | | | |
| 1Eng1 | CF/F/FSOps – 1 LTS | 1 | 60 sec | 20sec | 4sec | On | 20W | 3 | 1 |
| 2Eng1 | CF/F – 1/2 LTS FSOps – ½ LTS | 1 | 60 sec | 20sec | 4sec | On | 20W | 3 | 1 |
| 3Eng1 | CF – ¼ LTS F – 1/2 LTS FSOps – ¼ LTS | 1 | 60 sec | 20sec | 4sec | On | 20W | 3 | 1 |
| 1Eng2 | CF/F/FSOps – 1 LTS | 1 | 60 sec | 20sec | 4sec | On | 20W | 4 | 1 |
| 2Eng2 | CF/F – 1/2 LTS FSOps – ½ LTS | 1 | 60 sec | 20sec | 4sec | On | 20W | 4 | 1 |
| 2Eng2 | CF – ¼ LTS F – 1/2 LTS FSOps – ¼ LTS | 1 | 60 sec | 20sec | 4sec | On | 20W | 4 | 1 |
| 1Eng3 | CF/F/FSOps – 1 LTS | 2 | 20 sec | 20 sec | 0 sec | On | 20W | 4 | 1 |
| 2Eng3 | CF/F – 1/2 LTS FSOps – ½ LTS | 2 | 20 sec | 20 sec | 0 sec | On | 20W | 4 | 1 |
| 3Eng3 | CF – ¼ LTS F – ¼ LTS FSOps – ½ LTS | 2 | 20 sec | 20 sec | 0 sec | On | 20W | 4 | 1 |
| 1Eng4 | CF/F/FSOps – 1 LTS | 2 | 20 sec | 20 sec | 4sec | On | 20W | 4 | 6 |
| 2Eng4 | CF/F – 1/2 LTS FSOps – ½ LTS | 2 | 20 sec | 20 sec | 4sec | On | 20W | 4 | 6 |
| 3Eng4 | CF – ¼ LTS F – ¼ LTS FSOps – ½ LTS | 2 | 20 sec | 20 sec | 4sec | On | 20W | 4 | 6 |
| Final Runs | | | | | | | | | |
| Aai7Mod | CF/F/FSOps – 1 LTS | 2 | 20 sec | 20 sec | 4sec | On | 20W | 4 | 12 |
| Aai8Mod | CF/F – 1 LTS FSOps – 1 LTS | 2 | 20 sec | 20 sec | 4sec | On | 20W | 4 | 12 |
| Aai9Mod | CF/F – ½ LTS FSOps – ½ LTS | 2 | 20 sec | 20 sec | 4sec | On | 20W | 4 | 12 |
| Aai10Mod | CF – ¼ LTS F – ¼ LTS FSOps – ½ LTS | 2 | 20 sec | 20 sec | 4sec | On | 20W | 4 | 12 |
| Aai7Tb10 | CF/F/FSOps – 1 LTS | 2 | 20 sec | 10 sec | 4sec | On | 20W | 4 | 12 |
| Aai8Tb10 | CF/F – 1 LTS FSOps – 1 LTS | 2 | 20 sec | 10 sec | 4sec | On | 20W | 4 | 12 |
| Aai9Tb10 | CF/F – ½ LTS FSOps – ½ LTS | 2 | 20 sec | 10 sec | 4sec | On | 20W | 4 | 12 |
| Aai10Tb10 | CF – ¼ LTS F – ¼ LTS FSOps – ½ LTS | 2 | 20 sec | 10 sec | 4sec | On | 20W | 4 | 12 |
| Aai7ModTraf 6% additional traffic added | CF/F/FSOps – 1 LTS | 2 | 20 sec | 20 sec | 4sec | On | 20W | 4 | 12 |
| Aai8Tb10Traf 6% additional traffic added | CF/F – 1 LTS FSOps – 1 LTS | 2 | 20 sec | 10 sec | 4sec | On | 20W | 4 | 12 |
| Aai28Full | Full LTS – each Btry | 2 | 20 sec | 10 sec | 4sec | On | 20W | 4 | 12 |
| Aai28Half | Half LTS – each Btry | 2 | 20 sec | 10 sec | 4sec | On | 20W | 4 | 12 |
| Aai28Qtr | Qtr LTS – each Btry | 2 | 20 sec | 10 sec | 4sec | On | 20W | 4 | 12 |

Table 3.1-1. Simulation Variations

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3.1.5. The LTS variations (split versus whole) were functions of the technological advantages EPLRSv10 and above provides. EPLRSv11.0 using Mode 4 has a greater amount of aggregate and per LTS bandwidth than with EPLRSv10. EPLRSv11.0, Mode 4 allows assignment of additional nets through subdividing whole LTSs into halves or quarters, gaining increased bandwidth and net functionality. Check-fire (CF) and fire direction (FD) nets were established to take advantage of this technology, Table 3.1-1, and to determine whether the creation of separate Fires (F) and CF EPLRS nets would provide more timely support to the force.

3.1.6. Retry Time was set to 20-seconds, the TIs default, for 5 of the 13 final simulation variations. The Retry time was set to 10 seconds for the remaining 7 simulations to determine whether there was a corresponding increase in Speed of Service or Message Completion Rates. Acknowledgement generation (Ack Gen) period was set between 0-seconds to 4-seconds for all final simulations, measured in 100th's of a second and remained constant for all final runs.

3.1.7. Time between Multicast and Unicast (MC/UC) transmission attempts was set to the TI default of 60-seconds for half of the engineering runs. The remaining engineering runs were set to 20 seconds and it was determined from these runs that the MCR was the same with an MC/UC time lower than the default. It was also noted that a shorter MC/UC time allowed any messages requiring TCP transmission to be sent in a shorter aggregate time. An MC/UC time of 20-seconds was used in the production runs based on engineering run results.

3.1.8. Power remained constant at 20W power out based on results garnered in previous modeling studies of a similar force. Suitable network performance is desired at 20 watts. It is assumed that if the network performs within performance requirements at 20 watts power, it will do so at 100 watts power.

3.1.9. Metrics used to measure performance were Message Completion Rates (MCR) and Speed-of-Service (SOS).

3.1.10. Communications architecture used for this study was the SBCT-3 EPLRS allocation / architecture.

3.1.11. 763 EPLRS platforms are organic to the architecture studied in this analysis with 131 Fire Support EPLRS User Unit Systems (EPUUs) participating on the fires nets.

3.1.12. All message performance was analyzed against the standard however, message delivery performance was specifically scrutinized at the thread segment level for Check Fire and Call for Fire messages as requested by the FA School. Particular attention was given to whether these messages could be effectively multicast across the TI to appropriate decision-making and effects platforms within the required completion and speed of service parameters.

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4. SCENARIO

- 4.1. The scenario deployed the Brigade Combat Team in offensive operations in the Caspian Sea using the TRADOC Analysis Center (TRAC) approved and generated scenario (BBS Caspian 20.0-OF) against a Major Regional Conflict (MRC) / Major Theater of War (MTW) mechanized threat (elements of a Border Defense Corps).
- 4.2. Threat mission: Border defense corps conducts an asymmetric defense in zone to delay and disrupt enemy movement.
- 4.3. SBCT-3 mission: On order, attack in zone to clear a Line of Communication (LOC) leading to and secure OBJ SILVER (Forward Operating Base (FOB) Grant) vicinity towns of Yeviahk and Mingacevir for use by follow-on coalition forces, figure 4.1-1.

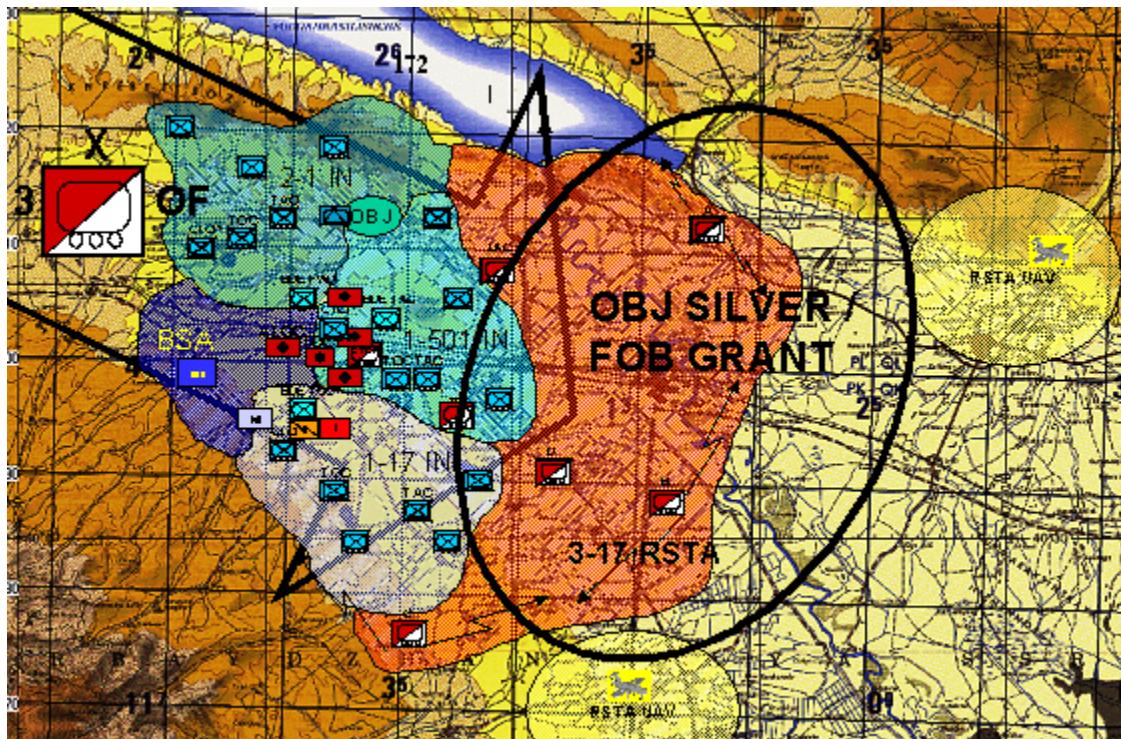


Figure 4.1-1 SBCT-3 attacks to secure OBJ SILVER / FOB Grant

Fires on the TI

5. SPECTRUM ISSUES

There are key operational realities that must be considered with regard to the worldwide use of frequencies required by EPLRS. No formal spectrum analysis was performed within the scope of this study, however based on known spectrum use prohibitions, the portion of the frequency spectrum used by the EPLRS radio is primarily internationally allocated to the fixed services (cellular telephone, police, government services and utilities, etc.). This means that there are strict civil or military prohibitions on the use of EPLRS in many areas of interest or operation. In some areas, some of the specific frequencies required by the EPLRS network are prohibited, reducing network performance and reliability. In other areas, the entire block of frequencies required by EPLRS is restricted from use. The impact of this spectrum contention implies a requirement for close coordination when fielding EPLRS or similar system across the force, or when planning combined operations. This is particularly important as it pertains to operations where it is desirable to maintain native fixed communications services and use EPLRS on a non-interference basis within an Area of Operations. Finally, the migration away from SINCGARS onto the TI will presumably reduce frequency spectrum congestion in the VHF/FM range at echelons Division and below.

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6. TRAFFIC

6.1. Mission thread traffic for this study was provided by the TSM FATDS of the Field Artillery School and included data that is currently sent over the battalion fire direction nets and the battalion operations/fire (Ops/F) net. Processing time for the FSS and the man-in-the-loop were built into the threads and segments.

6.2. The modeled scenario traffic was derived from the most operationally intense 2-hour period of the total 72-hour scenario as defined by the Artillery School. This scenario included 15 VMF message types, 45 unique standard, quick fire, and reinforcing threads with 226 unique logical thread segments, 94 target acquisitions, 111 fire missions, 2427 messages with 2338 acknowledgements.

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7. RESULTS

7.1. Aggregated results of the final simulation production runs (12 runs for each of 13 total simulation variations) are found in Annexes B and C of this report. Individual run performance can be found in Annex D. Engineering run data is not included in this report and was only used internally to the AIMD-S. A database containing the raw data resulting from the final production runs will be distributed electronically to the Field Artillery School and the PM, EFFCS for further analysis.

7.2. Engineering results indicated that performance across all nets degraded and failed MCR, SoS or both when the network attributes were set as follows; Acknowledgements – not required, Multicast to Unicast Time - set to the default of 60-seconds and Multicast Retry (MC Retry) - set to 1 attempt, the TI default. The nets performed best when attributes were set as follows: XOR “On” (the TI default), MC Retry – 2; Retry Time – 10-seconds; 4-second Acknowledgement required and 20-seconds between Multicast and Unicast transmission.

7.3. Statistical analysis on the production run results indicated that sufficient numbers of runs were conducted for each simulation variation to produce statistically significant results. Production run results indicate that there was statistical variance between Speeds of Service results in the four simulation variations with the most evident variance in runs that spilt the LTS into quarters and halves. There was little variance in Message Completion Rates between the four simulation variations, as expected.

7.4. Message Completion Rates for all message types was only met in six simulation variations, Aai7Mod, Aai8Mod, Aai8Tb10, Aai8Tb10Traff and Aai28Full. Results in Aai9Mod – Aai10Mod, Aai9Tb10 - Aai10Tb10, Aai7ModTraff and Aais28Half and Qtr each had one or more message types that did not meet MCR for the defined SoS. Some possibilities for this are further explained in the Analysis Section that follows. The average percentage (from 12 runs) of messages that met Message Completion Rates within defined Speeds of Service is depicted in Table(s) 7.4-1. Satisfactory message completion was defined to be 95% or greater, of all messages transmitted received within the required Speed of Service for that message. Additional result details can be found in Annex B through D of this report.

7.5. Check fire and Call for Fire messages that failed to meet Speed of Service or that were not transmitted appear to have failed because of simultaneous transmission attempts (collisions) by two or more radios during message transmission. There were a few cases where collisions occurred in the middle of a thread, effectively stopping the remainder of the thread from continuing because the “next step” receiver never got the message for action.

Fires on the TI

Table(s) 7.4-1 Average “Met SoS” MCR % by Message Type, by Simulation Variation (4 each)

| Message Type | SOS Rqd In Sec. | All Traffic on One full LTS Aai7Mod | FSOps – full LTS CF/F – full LTS Aai8Mod | FSOps – ½ LTS CF/F – ½ LTS Aai9Mod | FSOps – ½ LTS CF – ¼ LTS F – ¼ LTS Aai10Mod |
|-------------------------|-----------------|-------------------------------------|---|---------------------------------------|--|
| Ammo Inv | 600 | 100% | 100% | 99.86% | 98.57% |
| Call for Fire | 4 | 97.15% | 98.03% | 96.21% | 80.56% |
| Check Fire | 4 | 96.61% | 96.22% | 93.02% | 98.45% |
| Clearance to Fire | 4 | 99.68% | 99.68% | 99.36% | 91.35% |
| Command to Fire | 4 | 96.00% | 97.51% | 92.64% | 75.43% |
| EOM and SRVLNC | 4 | 95.70% | 97.84% | 95.97% | 76.58% |
| EOM Notification | 4 | 95.59% | 100% | 96.57% | 72.55% |
| Fire Mission Summary | 60 | 99.93% | 99.97% | 99.80% | 98.61% |
| FS Coord Measures | 60 | 100% | 100% | 99.48% | 100% |
| Info Req Msg | 600 | 100% | 100% | 100% | 100% |
| Mission Clearance | 4 | 100% | 98.73% | 99.04% | 84.35% |
| Mission Notification | 24 | 100% | 100% | 100% | 100% |
| MTO | 4 | 96.95% | 97.41% | 94.69% | 81.43% |
| OBS Mission Update | 4 | 96.46% | 97.25% | 94.69% | 76.61% |
| Position Report | 60 | 100% | 100% | 100% | 100% |
| Total Net Performance % | | 98.27% | 98.84% | 97.42% | 88.96% |

| Message Type | SOS Rqd In Sec. | All Traffic on One full LTS Aai7Tb10 | FSOps – full LTS CF/F – full LTS Aai8Tb10 | FSOps – ½ LTS CF/F – ½ LTS Aai9Tb10 | FSOps – ½ LTS CF – ¼ LTS F – ¼ LTS Aai10Tb10 |
|-------------------------|-----------------|--------------------------------------|--|--|---|
| Ammo Inv | 600 | 100% | 100% | 100% | 91.88% |
| Call for Fire | 4 | 97.46% | 98.32% | 96.05% | 73.23% |
| Check Fire | 4 | 97.00% | 96.61% | 93.31% | 93.00% |
| Clearance to Fire | 4 | 100% | 99.36% | 99.01% | 88.15% |
| Command to Fire | 4 | 95.14% | 96.75% | 95.57% | 73.70% |
| EOM and SRVLNC | 4 | 95.27% | 96.89% | 95.75% | 63.32% |
| EOM Notification | 4 | 96.08% | 99.51% | 93.63% | 66.49% |
| Fire Mission Summary | 60 | 99.97% | 100% | 99.42% | 92.28% |
| FS Coord Measures | 60 | 100% | 100% | 100% | 91.30% |
| Info Req Msg | 600 | 100% | 100% | 100% | 94.12% |
| Mission Clearance | 4 | 99.04% | 99.36% | 98.72% | 85.02% |
| Mission Notification | 24 | 100% | 100% | 100% | 100% |
| MTO | 4 | 96.94% | 97.41% | 94.51% | 73.28% |
| OBS Mission Update | 4 | 96.38% | 97.24% | 94.69% | 69.18% |
| Position Report | 60 | 100% | 100% | 100% | 92.80% |
| Total Net Performance % | | 98.22% | 98.79% | 97.37% | 83.18% |

| Message Type | SOS Rqd | All Traffic on | FSOps – full LTS | Each Battery Full LTS | Each Battery | Each Battery Quarter |
|--------------|---------|----------------|------------------|-----------------------|--------------|----------------------|
|--------------|---------|----------------|------------------|-----------------------|--------------|----------------------|

Fires on the TI

| | In Sec. | One full LTS Aai7Mod W/ 6% Additional Traffic | CF/F – full LTS Aai8Tb10 W/ 6% Additional Traffic | | Half LTS | LTS |
|-------------------------|---------|--|--|--------|----------|--------|
| Ammo Inv | 600 | 100% | 100% | 100% | 99.86% | 73.28% |
| Call for Fire | 4 | 96.07% | 97.95% | 99.43% | 96.70% | 47.02% |
| Check Fire | 4 | 93.80% | 96.41% | 96.94% | 96.32% | 36.63% |
| Clearance to Fire | 4 | 98.40% | 100% | 100% | 99.36% | 81.28% |
| Command to Fire | 4 | 93.72% | 97.84% | 99.46% | 98.70% | 34.32% |
| EOM and SRVLNC | 4 | 95.00% | 95.72% | 99.40% | 95.07% | 35.85% |
| EOM Notification | 4 | 99.02% | 100% | 99.02% | 96.57% | 37.80% |
| Fire Mission Summary | 60 | 100% | 100% | 99.87% | 99.80% | 63.89% |
| FS Coord Measures | 60 | 100% | 100% | 100% | 100% | 37.80% |
| Info Req Msg | 600 | 100% | 100% | 97.26% | 100% | 83.05% |
| Mission Clearance | 4 | 99.04% | 100% | 99.68% | 100% | 81.43% |
| Mission Notification | 24 | 100% | 100% | 100% | 100% | 40.35% |
| MTO | 4 | 95.75% | 96.60% | 99.26% | 96.21% | 42.57% |
| OBS Mission Update | 4 | 96.45% | 97.67% | 98.78% | 90.64% | 28.18% |
| Position Report | 60 | 100% | 100% | 95.35% | 100% | 64.58% |
| Total Net Performance % | | 96.78% | 97.88% | 98.96% | 97.97% | 52.53% |

Fires on the TI

8. ANALYSIS

8.1. The TI was able to adequately provide the speed of service and message completion rates required by the Artillery community for the Fire Support System. Several methods of structuring the TI using the Mode 4 radio became evident during this study. The best methods, in order, appear to be to allocate a full LTS to each Battery, including the HHB; allocating one full LTS to Operations traffic and one to Fires and Check Fires combined and finally, one full LTS for all Fires traffic. The later is likely the most practical LTS allocations for supporting the fire support system in each Stryker Brigade given the current availability of LTSs. There was little overall degradation to the TI in variations where 6% additional background traffic was added, although these variations performed below the best three variations.

8.2. Subdividing the LTS had a detrimental effect on speed of service and message completion rates at present TI configuration. It appeared that as the LTS was subdivided, the time a net member spent waiting for net access increased proportionately. The subdivided segments of the LTS have less Transmission Units (TU) available than the full LTS, however there is not a corresponding decrease in members contending for net access. Conversely, a full LTS had a greater number of TUs available to net members and once the net is accessed, the member transmits all traffic in his queue, requiring less frequent demand for the net.

8.3. Instances where messages were not transmitted at all can be traced to a specific point in the run where a message in a thread was not transmitted and caused the thread to stop before completion. Each subsequent segment in that thread emanating from the initial failed message also failed to be transmitted. Comparative “Messages Not Transmitted” results for the eight final simulation variations are depicted in Table 8.3-1. These figures represent the single highest number of failed messages among the 12 runs for each simulation variation.

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| Run No. | Simulation Variation (Net Structure) | Total Possible Messages | Largest No. Messages Not Transmitted In Single Run |
|--------------|--|-------------------------|--|
| Aai7Mod | CF/F/FSOps – 1 LTS | 2427 | 1 |
| Aai8Mod | CF/F – 1 LTS FSOps – 1 LTS | 2427 | 21 |
| Aai9Mod | CF/F – ½ LTS FSOps – ½ LTS | 2427 | 15 |
| Aai10Mod | CF – ¼ LTS F – ¼ LTS FSOps – ½ LTS | 2427 | 53 |
| Aai7Tb10 | CF/F/FSOps – 1 LTS | 2427 | 68 |
| Aai8Tb10 | CF/F – 1 LTS FSOps – 1 LTS | 2427 | 1 |
| Aai9Tb10 | CF/F – ½ LTS FSOps – ½ LTS | 2427 | 22 |
| Aai10Tb10 | CF – ¼ LTS F – ¼ LTS FSOps – ½ LTS | 2427 | 175 |
| Aai7ModTraf | CF/F/FSOps – 1 LTS | 2427 | 1 |
| Aai8Tb10Traf | CF/F – 1 LTS FSOps – 1 LTS | 2427 | 1 |
| Aai28Full | Full LTS – each Btry | 2427 | 22 |
| Aai28Half | Half LTS – each Btry | 2427 | 22 |
| Aai28Qtr | Qtr LTS – each Btry | 2427 | 1100 |

Table 8.3-1 Highest Messages Not Transmitted Count by Simulation Variation

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9. CONCLUSIONS

9.1. Conclusions provided with respect to the Essential Elements of Analysis specified in the scope of this study follow.

9.2. EEA 1. Can the Tactical Internet, with Fire Support data added, perform within the parameters of the AFATDS Block I Operational Requirements Document (ORD) with Speed of Service (SOS) and Message Completion Rate (MCR) used as the metrics for assessing network performance? The Tactical Internet can provide a viable network for transmitting Fire Support data and performed within the defined Speed of Service and Message Completion Rates for the mission threads used in this study. All Speeds of Service and Message Completion Rates were satisfied in the recommended network configurations. There were instances of some message failures, however; this was very low and there is no recommended solution for further reducing random message failures due to transmission collisions. EPLRS presently has no method of prioritizing transmission of specific message precedence's between radios within a net. The only prioritization based on precedence occurs at the lower TI Internet Network Controller (INC) as the INC delivers messages to the radio for transmission. Metering of messages to the EPLRS Queue by an INC or router, based on precedence may be a possibility worth studying. A node scheme that sends only the highest priority messages to the EPLRS for transmit at a time, rather than everything that node has awaiting transmission, would restrict EPLRS access to the highest priority of each node at any given time. This would move the highest priority messages first, but may cause collisions since nodes will need to request net access more often.

9.3. EEA 2. Where are the traffic choke points in the architecture impacting rapid decision-making on fires and effects control and coordination and how are they mitigated or eliminated? No traffic choke points were identified in the recommended net structure. Choke points in other net (simulation) variations appear to be tied to the number of members on a particular net, the amount of TUs available on the net given the net structure and the time it takes waiting to access the net. This was a factor in determining the recommended net structure for the Fire Support Community. No architectural or systemic issues were derived from these observations and conclusions.

9.4. EEA 3. Are there recommended architectural changes evident to streamline sensor-to-shooter connectivity, reducing delay in counter-fire, enhancing proactive counter-fire missions, and affecting other fires? Can improvements and efficiencies be gained using different messaging schemes and modified threads within the SINCGARS and TI FS networks? Study results indicate that the default of 60-seconds between Multicast and Unicast transmission attempts should be reduced to 20-seconds for the fastest, most reliable network support. Results also indicate that turning off the requirement for Acknowledgement had a slightly detrimental effect on the nets and should be required at least until further analysis can be performed.

9.5. EEA 4. What is the best combination of Logical Time Slot (LTS) and relay assignments to best support the combined current and future data requirement of

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the BCT, to include fire support data? There appear to be several based on this study, each dependent on the availability of LTSs in a particular network. It appears that allocating a full LTS to each Battery provides the best overall SoS. Allocating a Full LTS to Operations and another to Call for Fire and Check Fires combined was second best, followed by allocating one LTS to all Fires traffic. The later had the best conservation of LTSs while still meeting SoS and MCR requirements. The best two variations may be contrary to conventional Mode 4 LTS planning documents that appear to allocate only a portion of a single LTS to AFATDS, however this study assumes that the TIs capabilities might evolve sufficiently to accommodate allocation of additional LTSs to the FSS. Only Field Artillery platforms were modeled as part of the integral relay system in this study. There were no simulation variations that manipulated platforms designated as relays outside the Field Artillery user pool. This should be a variable in any future FoTI studies to provide an assessment of whether designated relay platforms outside the Artillery community have a positive effect on network performance and survivability.

9.6. EEA 5. Does SINCGARS remain viable for gateway connectivity to non-EPLRS equipped forces? SINCGARS remains viable in its current net structure or in a hybrid structure similar to the maneuver battalion stub nets as the Fire Support structure on the TI is further refined and operationally tested. SINCGARS allocations should not be changed until such a point as AFATDS modifications allowing TI connectivity are completed and operational testing of FoTI is performed. SINCGARS must continue to serve as the point of net access for non-EPUU equipped platforms such as the FIST leader, units in a non-digitized force, dismounted soldiers requesting Call For Fire and other similar platforms.

9.7. EEA 6. Are there any SINCGARS systems that can be reutilized for other purposes after transitioning from SINCGARS based FS data nets to fires to the TI? Ultimately there will likely be opportunity to reallocate SINCGARS that are exclusively used for Fire Support data linkage, especially in light of the Objective Forces reliance on high speed, common data networks, not supportable by SINCGARS. The lower TI appears to be capable of providing an acceptable, survivable data network for the STRYKER BCTs, as a transition network, or as an Objective Force compatible data network for legacy units allocated to a Unit of Employment or Action equipped with WIN-T or other designated data radio system. Dual purpose (voice and data) SINCGARS should remain in place, as should those radios designed to serve as gateways to non-EPLRS equipped Army, Joint or Combined units. SINCGARS that are the most likely candidates for ultimate reallocation are those located at the periphery of the FSS such as at the gun level, sensor or non-fire control / fire direction platforms. It is recommended however that these radios not be removed from equipment authorization documents or architectural allocations until adequate operational FoTI testing is conducted, and the total force is sufficiently digitized and interoperable.

Fires on the TI

10. RECOMMENDATIONS

- 10.1. That further operational testing is conducted to exploit the successes of this study and efforts by the Artillery School to migrate the Army's Fire Support structure to the accepted common data network at Brigade and below.
- 10.2. That Program Managers (PM), TRADOC Systems Managers and other relevant agencies involved in AFATDS, WIN-T, EPLRS, NETFIRES, and other systems and networks continue dialogue to ensure that appropriate TTP, protocols and bandwidth is allocated to support the Fire Support structure in the Objective Force and enhanced STRYKER Brigades.
- 10.3. That continued partnership between the AIMD-S and the Artillery School be permitted to conduct further modeling and simulation to define the best methods for incorporating ancillary units, platforms or members requiring fire support into the FS net structure. Further modeling with non-FA integral relay nodes and EPUU linkages and membership down to the FIST leader, sensor, and gun level would be beneficial in assisting the Artillery School in their design of the Interim and Objective Force Fire Support structure to include Tactics, Techniques and Procedures that may need to evolve.
- 10.4. This study provided a baseline for continued partnership and collaboration between the AIMD and the Artillery School on modeling of networked fires / netted fires capabilities as it evolves to support Objective Force. This seems to be a most logical "next step" for these two organizations as the Army wrestles with how best to develop and employ new fires and effects systems, control measures, critical situational awareness information, etc. for the high Operational Tempo (OPTEMPO) Objective Force.

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Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

AAI:7

Arch: 43

AO: 6

| | |
|----------------------------|---|
| StudyName | FoTi |
| Force Description | SBCT-1 Deployed In CAS |
| Network Description | SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. |
| Traffic Description | FoTi Threads Only on a single FS Bn ndln. |
| Eplrs Mode | 4 |
| EplrsSwVersion | 11.1 |
| History | 8/19/02 Better matching to the SBCT-3 EPUU allocation than previous. 638 total EquipSuiteAdjustments. 589 turned off. 8/12/02 Cloned from ArchAoold 6. Turned off all EPUUs except for those participating in any FoTi thread. They will all be using a single needline. |

| UnitDai | ORG_id | ORGT | UnitNumber | Equip Equip 56 Suite | NT NT DR | LR DR | HOST IP | B W X mt EP Switch 1 | MS G B X v mtr | MS 12 12 G | 12 12 In | | | | | | | | |
|------------|-----------|-------|----------------------|-------------------------------|----------------|----------|---------|-------------------------------------|-------------------------------|---------------------|----------------|------|---------------|----------------|-------|-------|--------|----|----|
| | | | | | | | | Switch 2 | S | DR | | | | | | | | | |
| | | | | | | | | BN TOC | DR | Ra | mt | Rate | In de x | 56 Pr ef | RULE | C2 Bn | C2 Bde | | |
| | 5,035,028 | 77777 | 172 BDE HQ | | | | | | | | | | | | | | | | |
| 101 | 5,035,027 | 37480 | 172 BDE HHC | | | | | | | | | | | | | | | | |
| | 5,073,731 | 70000 | 172 BDE TAC | | | | | | | | | | | | | | | | |
| | 5,074,494 | 70001 | 172 BDE TAC DA | | | | | | | | | | | | | | | | |
| | 5,073,732 | 70002 | 172 BDE MAIN | | | | | | | | | | | | | | | | |
| | 5,073,733 | 70004 | 172 BDE LNO | | | | | | | | | | | | | | | | |
| | 5,073,734 | 70003 | 172 BDE MAIN DA | | | | | | | | | | | | | | | | |
| | 5,074,493 | 70005 | 172 BDE FWD | | | | | | | | | | | | | | | | |
| 1010007000 | 1525 | 96280 | 172 BDE HHC_FSE_1525 | | 20 | 3 | 1 | HolnEp | | 1 | 130.20.0.1 | 0 | 77 | 5 | I5123 | 202 | 120 | 12 | 12 |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

| | | | | | | | | | | | | | | | | | |
|-------------|--------------|--------------------------------|---|---|---|--------|---|---|------------|-----------|----|-----------|-------|-----|-----|----|----|
| 5,073,729 | 70006 | 172 BDE BSA | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | |
| 5,073,730 | 70007 | 172 BDE BSA DA | Deployed in a Circle with a radius of 250 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | |
| 1015 | 5,035,557 | 36109 1-17 IN BN | | | | | | | | | | | | | | | |
| 687 | 70030 | 1-17 IN TAC | Deployed in a Inverted 'V' with a width of 150 and a depth of 10Azminuth is 90 | | | | | | | | | | | | | | |
| 1015003000 | 1014 | 96067 1-17 IN BN_CDR_IAV_1014 | 20 | 5 | 1 | HolnEp | X | 2 | 130.20.1.1 | 70 | 27 | 90 | I820A | 202 | 25 | 12 | 25 |
| 101500b000 | 1258 | 96033 1-17 IN BN_FSO_1258 | 20 | 5 | 1 | HolnEp | | 3 | 130.20.2.1 | 80 | 20 | | I8121 | 202 | 23 | 12 | 23 |
| 5,073,688 | 70031 | 1-17 IN TOC | Deployed in a Circle with a radius of 50 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | |
| 101500b100 | 1259 | 96032 1-17 IN BN_FSE_1259 | 20 | 6 | 1 | HolnEp | | 4 | 130.20.3.1 | 80 | 21 | 5 | I8122 | 202 | 126 | 12 | 12 |
| 5,073,689 | 70032 | 1-17 IN TOC DA | Deployed in a Circle with a radius of 200 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | |
| 5,073,686 | 70033 | 1-17 IN CTCP | Deployed in a Circle with a radius of 50 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | |
| 5,074,508 | 70034 | 1-17 IN CTCP DA | Deployed in a Circle with a radius of 150 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | |
| 5,074,506 | 77777 | 1-17 IN HHC | | | | | | | | | | | | | | | |
| 5,073,690 | 70036 | 1-17 IN MORT PLT | Deployed in a Inverted 'V' with a width of 300 and a depth of 25Azminuth is 120 | | | | | | | | | | | | | | |
| 101500c1000 | 1261 | 96051 1-17 IN BN_MORT_FDC_1261 | 20 | | 1 | HolnEp | | 5 | 130.20.4.1 | 50 | 32 | | I8333 | 202 | 18 | 12 | 18 |
| 101500c1100 | 1262 | 96052 1-17 IN BN_MORTAR4_1262 | 20 | | 1 | HolnEp | | 6 | 130.20.5.1 | 0 | 81 | | IGE83 | 202 | 31 | 12 | 31 |
| 101500c1200 | 1263 | 96052 1-17 IN BN_MORTAR1_1263 | 20 | | 1 | HolnEp | | 7 | 130.20.6.1 | 0 | 82 | | IGE83 | 202 | 25 | 12 | 25 |
| 101500c1300 | 1264 | 96052 1-17 IN BN_MORTAR3_1264 | 20 | | 1 | HolnEp | | 8 | 130.20.7.1 | 0 | 83 | | IGE83 | 202 | 38 | 12 | 38 |
| 101500c1400 | 1265 | 96052 1-17 IN BN_MORTAR2_1265 | 20 | | 1 | HolnEp | | 9 | 130.20.8.1 | 0 | 84 | | IGE83 | 202 | 25 | 12 | 25 |
| 5,073,691 | 70035 | 1-17 IN RECON PLT | Deployed in a Inverted 'V' with a width of 1500 and a depth of 50Azminuth is 90 | | | | | | | | | | | | | | |
| 5,073,693 | 70038 | 1-17 IN SNIPER SQD | Deployed in a Circle with a radius of 20 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | |
| 5,073,692 | 70037 | 1-17 IN RETRANS | Deployed in a Circle with a radius of 50 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | |
| 10155 | 5,035,558 | 36110 A 1-17 IN | | | | | | | | | | | | | | | |
| | 5,073,752 | 70039 A 1-17 IN HQ SEC | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

| | | | | | | | | | | | | | | | |
|------------|-------------|--------------|---------------------|----|----------|--------|-----------|-------------|----------|-----------|-------|-----|-----------|----|-----------|
| 1015509300 | 1101 | 96085 | A 1-17 IN_FIST_1101 | 20 | 1 | HolnEp | 10 | 130.20.9.1 | 0 | 79 | IB852 | 202 | 17 | 12 | 17 |
| | 5,073,751 | 70040 | A 1-17 IN MGS PLT | | | | | | | | | | | | |
| | 5,073,753 | 70044 | A 1-17 IN MORT SEC | | | | | | | | | | | | |
| | 5,073,748 | 70041 | A 1-17 IN PLT1 | | | | | | | | | | | | |
| | 5,073,749 | 70042 | A 1-17 IN PLT2 | | | | | | | | | | | | |
| | 5,073,750 | 70043 | A 1-17 IN PLT3 | | | | | | | | | | | | |
| 10156 | 5,035,559 | 36110 | B 1-17 IN | | | | | | | | | | | | |
| | 5,073,779 | 70039 | B 1-17 IN HQ SEC | | | | | | | | | | | | |
| 1015609300 | 1171 | 96085 | B 1-17 IN_FIST_1171 | 20 | 1 | HolnEp | 11 | 130.20.10.1 | 0 | 78 | IB852 | 202 | 26 | 12 | 26 |
| | 5,073,778 | 70040 | B 1-17 IN MGS PLT | | | | | | | | | | | | |
| | 5,073,780 | 70044 | B 1-17 IN MORT SEC | | | | | | | | | | | | |
| | 5,073,775 | 70041 | B 1-17 IN PLT1 | | | | | | | | | | | | |
| | 5,073,776 | 70042 | B 1-17 IN PLT2 | | | | | | | | | | | | |
| | 5,073,777 | 70043 | B 1-17 IN PLT3 | | | | | | | | | | | | |
| 10157 | 5,035,560 | 36110 | C 1-17 IN | | | | | | | | | | | | |
| | 5,073,806 | 70039 | C 1-17 IN HQ SEC | | | | | | | | | | | | |
| 1015709300 | 1238 | 96085 | C 1-17 IN_FIST_1238 | 20 | 1 | HolnEp | 12 | 130.20.11.1 | 0 | 80 | IB852 | 202 | 44 | 12 | 44 |
| | 5,073,805 | 70040 | C 1-17 IN MGS PLT | | | | | | | | | | | | |
| | 5,073,807 | 70044 | C 1-17 IN MORT SEC | | | | | | | | | | | | |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

| | | | | | | | | | | | | | | | | | | | | |
|-------------|--------------|--------------------------------------|---|---|---|--------|--|---|----|-------------|-----------|--|----|-----------|-------|-----|------------|----|-----------|--|
| 5,073,802 | 70041 | C 1-17 IN PLT1 | Deployed in a Inverted 'V' with a width of 275 and a depth of 40Azminuth is 180 | | | | | | | | | | | | | | | | | |
| 5,073,803 | 70042 | C 11-17 IN PLT2 | Deployed in a Inverted 'V' with a width of 275 and a depth of 40Azminuth is 180 | | | | | | | | | | | | | | | | | |
| 5,073,804 | 70043 | C 1-17 IN PLT3 | Deployed in a Inverted 'V' with a width of 275 and a depth of 40Azminuth is 180 | | | | | | | | | | | | | | | | | |
| 1016 | 5,073,665 | 36109 2-1 IN BN | | | | | | | | | | | | | | | | | | |
| | 5,073,719 | 70030 2-1 IN TAC | Deployed in a Inverted 'V' with a width of 125 and a depth of 20Azminuth is 300 | | | | | | | | | | | | | | | | | |
| 1016003000 | 1277 | 96067 2-1 IN BN_CDR_IAV_1277 | 20 | 8 | 1 | HolnEp | | X | 13 | 130.20.12.1 | 70 | | 29 | 90 | I820A | 202 | 115 | 12 | 11 | |
| 101600b000 | 1512 | 96033 2-1 IN BN_FSO_1512 | 20 | 8 | 1 | HolnEp | | | 14 | 130.20.13.1 | 80 | | 18 | | I8121 | 202 | 114 | 12 | 11 | |
| | 5,073,720 | 70031 2-1 IN TOC | Deployed in a Circle with a radius of 50 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | | | | |
| 101600b100 | 1513 | 96032 2-1 IN BN_FSE_1513 | 20 | 9 | 1 | HolnEp | | | 15 | 130.20.14.1 | 80 | | 19 | 5 | I8122 | 202 | 119 | 12 | 11 | |
| | 5,073,721 | 70032 2-1 IN TOC DA | Deployed in a Circle with a radius of 200 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | | | | |
| | 5,073,718 | 70033 2-1 IN CTCP | Deployed in a Circle with a radius of 50 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | | | | |
| | 5,074,517 | 70034 2-1 IN CTCP DA | Deployed in a Circle with a radius of 150 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | | | | |
| | 5,074,515 | 77777 2-1 IN HHC | | | | | | | | | | | | | | | | | | |
| | 5,073,722 | 70036 2-1 IN MORT PLT | Deployed in a Inverted 'V' with a width of 300 and a depth of 10Azminuth is 325 | | | | | | | | | | | | | | | | | |
| 101600c1000 | 1515 | 96051 2-1 IN BN_MORT_FDC_1515 | 20 | | 1 | HolnEp | | | 16 | 130.20.15.1 | 50 | | 31 | | I8333 | 202 | 116 | 12 | 11 | |
| 101600c1100 | 1516 | 96052 2-1 IN BN_MORTAR4_1516 | 20 | | 1 | HolnEp | | | 17 | 130.20.16.1 | 0 | | 73 | | IGE83 | 202 | 118 | 12 | 11 | |
| 101600c1200 | 1517 | 96052 2-1 IN BN_MORTAR1_1517 | 20 | | 1 | HolnEp | | | 18 | 130.20.17.1 | 0 | | 74 | | IGE83 | 202 | 117 | 12 | 11 | |
| 101600c1300 | 1518 | 96052 2-1 IN BN_MORTAR3_1518 | 20 | | 1 | HolnEp | | | 19 | 130.20.18.1 | 0 | | 75 | | IGE83 | 202 | 118 | 12 | 11 | |
| 101600c1400 | 1519 | 96052 2-1 IN BN_MORTAR2_1519 | 20 | | 1 | HolnEp | | | 20 | 130.20.19.1 | 0 | | 76 | | IGE83 | 202 | 116 | 12 | 11 | |
| | 5,073,723 | 70035 2-1 IN RECON PLT | Deployed in a Inverted 'V' with a width of 300 and a depth of 10Azminuth is 330 | | | | | | | | | | | | | | | | | |
| | 5,073,725 | 70038 2-1 IN SNIPER SQD | Deployed in a Circle with a radius of 40 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | | | | |
| | 5,073,724 | 70037 2-1 IN RETRANS | Deployed in a Circle with a radius of 50 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | | | | |
| 10165 | 5,073,666 | 36110 A 2-1 IN | | | | | | | | | | | | | | | | | | |
| | 5,073,758 | 70039 A 2-1 IN HQ SEC | Deployed in a Circle with a radius of 90 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | | | | |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

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|------------|-------------|--------------|--------------------|----|----------|--------|-----------|---|----------|-----------|-------|-----|-----|----|----|
| 1016509300 | 1362 | 96085 | A 2-1 IN_FIST_1362 | 20 | 1 | HolnEp | 21 | 130.20.20.1 | 0 | 85 | IB852 | 202 | 108 | 12 | 10 |
| | 5,073,757 | 70040 | A 2-1 IN MGS PLT | | | | | Deployed in a Inverted 'V' with a width of 250 and a depth of 60Azminuth is 0 | | | | | | | |
| | 5,073,759 | 70044 | A 2-1 IN MORT SEC | | | | | Deployed in a Inverted 'V' with a width of 100 and a depth of 10Azminuth is 0 | | | | | | | |
| | 5,073,754 | 70041 | A 2-1 IN PLT1 | | | | | Deployed in a Inverted 'V' with a width of 300 and a depth of 50Azminuth is 0 | | | | | | | |
| | 5,073,755 | 70042 | A 2-1 IN PLT2 | | | | | Deployed in a Inverted 'V' with a width of 300 and a depth of 50Azminuth is 0 | | | | | | | |
| | 5,073,756 | 70043 | A 2-1 IN PLT3 | | | | | Deployed in a Inverted 'V' with a width of 300 and a depth of 50Azminuth is 0 | | | | | | | |
| 10166 | 5,073,667 | 36110 | B 2-1 IN | | | | | | | | | | | | |
| | 5,073,785 | 70039 | B 2-1 IN HQ SEC | | | | | Deployed in a Circle with a radius of 115 meters. Azminuth is 0 degrees | | | | | | | |
| 1016609300 | 1431 | 96085 | B 2-1 IN_FIST_1431 | 20 | 1 | HolnEp | 22 | 130.20.21.1 | 0 | 86 | IB852 | 202 | 117 | 12 | 11 |
| | 5,073,784 | 70040 | B 2-1 IN MGS PLT | | | | | Deployed in a Inverted 'V' with a width of 250 and a depth of 60Azminuth is 0 | | | | | | | |
| | 5,073,786 | 70044 | B 2-1 IN MORT SEC | | | | | Deployed in a Inverted 'V' with a width of 100 and a depth of 10Azminuth is 0 | | | | | | | |
| | 5,073,781 | 70041 | B 2-1 IN PLT1 | | | | | Deployed in a Inverted 'V' with a width of 300 and a depth of 50Azminuth is 0 | | | | | | | |
| | 5,073,782 | 70042 | B 2-1 IN PLT2 | | | | | Deployed in a Inverted 'V' with a width of 300 and a depth of 50Azminuth is 0 | | | | | | | |
| | 5,073,783 | 70043 | B 2-1 IN PLT3 | | | | | Deployed in a Inverted 'V' with a width of 300 and a depth of 50Azminuth is 0 | | | | | | | |
| 10167 | 5,073,668 | 36110 | C 2-1 IN | | | | | | | | | | | | |
| | 5,073,812 | 70039 | C 2-1 IN HQ SEC | | | | | Deployed in a Circle with a radius of 105 meters. Azminuth is 0 degrees | | | | | | | |
| 1016709300 | 1496 | 96085 | C 2-1 IN_FIST_1496 | 20 | 1 | HolnEp | 23 | 130.20.22.1 | 0 | 72 | IB852 | 202 | 128 | 12 | 12 |
| | 5,073,811 | 70040 | C 2-1 IN MGS PLT | | | | | Deployed in a Inverted 'V' with a width of 250 and a depth of 60Azminuth is 0 | | | | | | | |
| | 5,073,813 | 70044 | C 2-1 IN MORT SEC | | | | | Deployed in a Inverted 'V' with a width of 100 and a depth of 10Azminuth is 0 | | | | | | | |
| | 5,073,808 | 70041 | C 2-1 IN PLT1 | | | | | Deployed in a Inverted 'V' with a width of 300 and a depth of 50Azminuth is 0 | | | | | | | |
| | 5,073,809 | 70042 | C 2-1 IN PLT2 | | | | | Deployed in a Inverted 'V' with a width of 300 and a depth of 50Azminuth is 0 | | | | | | | |
| | 5,073,810 | 70043 | C 2-1 IN PLT3 | | | | | Deployed in a Inverted 'V' with a width of 300 and a depth of 50Azminuth is 0 | | | | | | | |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

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|-------------|-----------|-------|---------------------------|----|----|---|--------|---|----|-------------|----|----|----|-------|-----|-----|----|----|--|--|--|
| 1017 | 5,035,060 | 36109 | 1-501 IN BN | | | | | | | | | | | | | | | | | | |
| | 5,073,737 | 70030 | 1-501 IN TAC | | | | | | | | | | | | | | | | | | |
| 1017003000 | 1531 | 96067 | 1-501 IN BN_CDR_IAV_1531 | 20 | 11 | 1 | HolnEp | X | 24 | 130.20.23.1 | 70 | 28 | 90 | I820A | 202 | 123 | 12 | 12 | | | |
| 101700b000 | 1766 | 96033 | 1-501 IN BN_FSO_1766 | 20 | 11 | 1 | HolnEp | | 25 | 130.20.24.1 | 80 | 22 | | I8121 | 202 | 122 | 12 | 12 | | | |
| | 5,073,738 | 70031 | 1-501 IN TOC | | | | | | | | | | | | | | | | | | |
| 101700b100 | 1767 | 96032 | 1-501 IN BN_FSE_1767 | 20 | 12 | 1 | HolnEp | | 26 | 130.20.25.1 | 80 | 23 | 5 | I8122 | 202 | 122 | 12 | 12 | | | |
| | 5,073,739 | 70032 | 1-501 IN TOC DA | | | | | | | | | | | | | | | | | | |
| | 5,073,736 | 70033 | 1-501 IN CTCP | | | | | | | | | | | | | | | | | | |
| | 5,074,499 | 70034 | 1-501 IN CTCP DA | | | | | | | | | | | | | | | | | | |
| | 5,074,497 | 77777 | 1-501 IN HHC | | | | | | | | | | | | | | | | | | |
| | 5,073,740 | 70036 | 1-501 IN MORT PLT | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 101700c1000 | 1769 | 96051 | 1-501 IN BN_MORT_FDC_1769 | 20 | | 1 | HolnEp | | 27 | 130.20.26.1 | 50 | 33 | | I8333 | 202 | 115 | 12 | 11 | | | |
| 101700c1100 | 1770 | 96052 | 1-501 IN BN_MORTAR4_1770 | 20 | | 1 | HolnEp | | 28 | 130.20.27.1 | 0 | 90 | | IGE83 | 202 | 117 | 12 | 11 | | | |
| 101700c1200 | 1771 | 96052 | 1-501 IN BN_MORTAR1_1771 | 20 | | 1 | HolnEp | | 29 | 130.20.28.1 | 0 | 91 | | IGE83 | 202 | 120 | 12 | 12 | | | |
| 101700c1300 | 1772 | 96052 | 1-501 IN BN_MORTAR3_1772 | 20 | | 1 | HolnEp | | 30 | 130.20.29.1 | 0 | 92 | | IGE83 | 202 | 120 | 12 | 12 | | | |
| 101700c1400 | 1773 | 96052 | 1-501 IN BN_MORTAR2_1773 | 20 | | 1 | HolnEp | | 31 | 130.20.30.1 | 0 | 93 | | IGE83 | 202 | 120 | 12 | 12 | | | |
| | 5,073,741 | 70035 | 1-501 IN RECON PLT | | | | | | | | | | | | | | | | | | |
| | 5,073,743 | 70038 | 1-501 IN SNIPER | | | | | | | | | | | | | | | | | | |
| | 5,073,742 | 70037 | 1-501 IN RETRANS | | | | | | | | | | | | | | | | | | |
| 10175 | 5,035,061 | 36110 | A 1-501 IN | | | | | | | | | | | | | | | | | | |
| | 5,073,764 | 70039 | A 1-501 IN HQ SEC | | | | | | | | | | | | | | | | | | |
| 1017509300 | 1616 | 96085 | A 1-501 IN_FIST_1616 | 20 | | 1 | HolnEp | | 32 | 130.20.31.1 | 0 | 87 | | IB852 | 202 | 50 | 12 | 50 | | | |
| | 5,073,763 | 70040 | A 1-501 IN MGS PLT | | | | | | | | | | | | | | | | | | |
| | 5,073,765 | 70044 | A 1-501 IN MORT | | | | | | | | | | | | | | | | | | |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

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|------------|-------------|--------------|-----------------------|----|----|---|--------|---|-------------|---|----|-------|-----|-----|----|----|
| 1018004100 | 1787 | 96159 | 3-17 RSTA_FSO_1787 | 20 | 15 | 1 | HolnEp | 36 | 130.20.35.1 | 0 | 94 | A8123 | 202 | 119 | 12 | 11 |
| | 5,073,685 | 70048 | 3-17 TOC DA | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,073,683 | 70049 | 3-17 CTCP | | | | | Deployed in a Circle with a radius of 50 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,080,000 | 70050 | 3-17 CTCP DA | | | | | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees | | | | | | | | |
| 10184 | 5,073,674 | 36624 | A 3-17 RSTA | | | | | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,073,769 | 70051 | A 3-17 HQ SEC | | | | | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees | | | | | | | | |
| 1018403000 | 1791 | 96184 | A 3-17 RSTA_FIST_1791 | 20 | | 1 | HolnEp | 37 | 130.20.36.1 | 0 | 95 | AI120 | 202 | 117 | 12 | 11 |
| | 5,073,770 | 70055 | A 3-17 MORT SEC | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,073,766 | 70052 | A 3-17 RECCE1 | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,073,767 | 70053 | A 3-17 RECCE2 | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,073,768 | 70054 | A 3-17 RECCE3 | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | |
| 10185 | 5,073,675 | 36624 | B 3-17 RSTA | | | | | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,073,796 | 70051 | B 3-17 HQ SEC | | | | | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees | | | | | | | | |
| 1018503000 | 1813 | 96184 | B 3-17 RSTA_FIST_1813 | 20 | | 1 | HolnEp | 38 | 130.20.37.1 | 0 | 96 | AI120 | 202 | 51 | 12 | 51 |
| | 5,073,797 | 70055 | B 3-17 MORT SEC | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,073,793 | 70052 | B 3-17 RECCE1 | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,073,794 | 70053 | B 3-17 RECCE2 | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,073,795 | 70054 | B 3-17 RECCE3 | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | |
| 10186 | 5,073,676 | 36624 | C 3-17 RSTA | | | | | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees | | | | | | | | |
| | 5,073,827 | 70051 | C 3-17 HQ SEC | | | | | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees | | | | | | | | |
| 1018603000 | 1842 | 96184 | C 3-17 RSTA_FIST_1842 | 20 | | 1 | HolnEp | 39 | 130.20.38.1 | 0 | 97 | AI120 | 202 | 23 | 12 | 23 |
| | 5,073,828 | 70055 | C 3-17 MORT SEC | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

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|------------|-----------|-----------|--------------------------|---|
| | 5,073,824 | 70052 | C 3-17 RECCE1 | Deployed in a Circle with a radius of 300 meters. Azminuth is 0 degrees |
| | 5,073,825 | 70053 | C 3-17 RECCE2 | Deployed in a Circle with a radius of 300 meters. Azminuth is 0 degrees |
| | 5,073,826 | 70054 | C 3-17 RECCE3 | Deployed in a Circle with a radius of 300 meters. Azminuth is 0 degrees |
| 10187 | 5,073,677 | 36992 | D 3-17 RSTA | |
| | 5,073,829 | 70056 | D 3-17 HQ SEC | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees |
| | 5,073,830 | 70058 | D 3-17 GBS | Deployed in a Circle with a radius of 150 meters. Azminuth is 0 degrees |
| | 5,074,496 | 70059 | D 3-17 NBC | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees |
| | 5,073,831 | 70057 | D 3-17 UAV | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees |
| | 1019 | 5,041,527 | 36011 4-11 FA BN | |
| | | 5,073,695 | 70021 4-11 FA CMD | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees |
| 1019000000 | 1901 | 96348 | 4-11 FA BN_CDR_1901 | 20 1 HolnEp 40 130.20.39.1 85 12 F8200 202 119 12 11 |
| 1019001000 | 1903 | 96349 | 4-11 FA BN_XO_1903 | 20 1 HolnEp 41 130.20.40.1 80 24 F8210 202 120 12 12 |
| 1019002000 | 1904 | 96350 | 4-11 FA BN_CSM_1904 | 20 1 HolnEp 42 130.20.41.1 80 25 F8723 202 121 12 12 |
| 1019003000 | 1905 | 96351 | 4-11 FA BN_CHAP_1905 | 20 1 HolnEp 43 130.20.42.1 50 34 F8640 202 121 12 12 |
| | | 5,073,696 | 70022 4-11 FA TOC | Deployed in a Circle with a radius of 40 meters. Azminuth is 0 degrees |
| 1019005100 | 1943 | 96353 | 4-11 FA BN_OPS_1943 | 20 17 1 HolnEp X 52 130.20.43.1 99 2 95 F86A0 202 117 12 11 |
| 1019005200 | 1945 | 96354 | 4-11 FA BN_FDC_1945 | 20 17 1 HolnEp X 53 130.20.44.1 0 111 90 F8336 202 117 12 11 |
| 1019006400 | 1976 | 96366 | 4-11 FA BN_S6_SEC_1976 | 20 17 1 HolnEp 58 130.20.45.1 97 6 5 F8180 202 117 12 11 |
| | | 5,074,531 | 70023 4-11 FA TOC DA | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees |
| 1019005000 | 1941 | 96352 | 4-11 FA BN_S3_1941 | 20 1 HolnEp 51 130.20.46.1 85 14 F8240 202 117 12 11 |
| 1019006000 | 1968 | 96367 | 4-11 FA BN_S6_1968 | 20 1 HolnEp 54 130.20.47.1 75 26 F8882 202 117 12 11 |
| 1019006100 | 1970 | 96357 | 4-11 FA BN_RETRANS1_1970 | 20 1 HolnEp X 55 130.20.48.1 95 8 F8260 202 117 12 11 |
| 1019006200 | 1972 | 96357 | 4-11 FA BN_RETRANS2_1972 | 20 1 HolnEp X 56 130.20.49.1 95 9 F8260 202 117 12 11 |
| 1019006300 | 1974 | 96357 | 4-11 FA BN_RETRANS3_1974 | 20 1 HolnEp X 57 130.20.50.1 95 10 F8260 202 130 12 13 |

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|--|--------------|--------------|----------------------------|-----------|-----------|----------|-----------|-------------|-------------|-------------|------------|----------|------------|------------|-----------|------------|----|-----------|
| 1019006500 | 1978 | 96368 | 4-11 FA BN_AUTOMATION_1978 | 20 | 1 | HolnEp | 59 | 130.20.51.1 | 95 | 2 | 11 | F82P0 | 202 | 117 | 12 | 11 | | |
| 5,073,694 70024 4-11 FA ALOC | | | | | | | | | | | | | | | | | | |
| 1019004100 | 1908 | 96364 | 4-11 FA BN_SUP_NBC_1908 | 20 | 18 | 1 | HolnEp | 45 | 130.20.52.1 | 0 | 98 | FABA0 | 202 | 114 | 12 | 11 | | |
| 1019004500 | 1916 | 96358 | 4-11 FA BN_TRMT_1916 | 20 | 18 | 1 | HolnEp | 47 | 130.20.54.1 | 0 | 100 | F8EH1 | 202 | 114 | 12 | 11 | | |
| 1019004520 | 1920 | 96359 | 4-11 FA BN_AMB_1920 | 20 | 18 | 1 | HolnEp | 48 | 130.20.55.1 | 0 | 101 | F8EH2 | 202 | 117 | 12 | 11 | | |
| 1019007100 | 1997 | 96360 | 4-11 FA BN_ADMIN_LOG_1997 | 20 | 18 | 1 | HolnEp | X | 61 | 130.20.58.1 | 98 | 5 | 90 | F8HA0 | 202 | 114 | 12 | 11 |
| 1019402000 | 1911 | 96381 | A BTRY 4-11 FA_SUP_1911 | 20 | 18 | 1 | HolnEp | 64 | 130.20.53.1 | 50 | 35 | FB922 | 202 | 116 | 12 | 11 | | |
| 1019502000 | 1946 | 96381 | B BTRY 4-11 FA_SUP_1946 | 20 | 18 | 1 | HolnEp | 84 | 130.20.56.1 | 50 | 47 | FB922 | 202 | 117 | 12 | 11 | | |
| 1019602000 | 1973 | 96381 | C BTRY 4-11 FA_SUP_1973 | 20 | 18 | 1 | HolnEp | 104 | 130.20.57.1 | 50 | 58 | FB922 | 202 | 117 | 12 | 11 | | |
| 5,074,530 70025 4-11 FA ALOC DA | | | | | | | | | | | | | | | | | | |
| 1019004000 | 1906 | 96363 | 4-11 FA BN_HHS_CDR_1906 | 20 | 1 | HolnEp | 44 | 130.20.59.1 | 96 | 7 | FA203 | 202 | 114 | 12 | 11 | | | |
| 1019004400 | 1914 | 96362 | 4-11 FA BN_AMMO_1914 | 20 | 1 | HolnEp | 46 | 130.20.60.1 | 50 | 36 | F8741 | 202 | 117 | 12 | 11 | | | |
| 1019007000 | 1995 | 96361 | 4-11 FA BN_S4_1995 | 20 | 1 | HolnEp | 60 | 130.20.61.1 | 85 | 17 | F8250 | 202 | 115 | 12 | 11 | | | |
| 10194 5,041,528 | 36013 | 36013 | A BTRY 4-11 FA | | | | | | | | | | | | | | | |
| 5,073,747 70027 A 4-11 FA BOC | | | | | | | | | | | | | | | | | | |
| Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | | | | | | | | | | | |
| 1019400000 | 1907 | 96373 | A BTRY 4-11 FA_CDR_1907 | 20 | 1 | HolnEp | 62 | 130.20.62.1 | 85 | 13 | FB202 | 202 | 115 | 12 | 11 | | | |
| 1019401000 | 1909 | 96380 | A BTRY 4-11 FA_1SG_1909 | 20 | 1 | HolnEp | 63 | 130.20.63.1 | 0 | 99 | FB702 | 202 | 116 | 12 | 11 | | | |
| 1019403000 | 1913 | 96375 | A BTRY 4-11 FA_BO_1913 | 20 | 1 | HolnEp | 65 | 130.20.64.1 | 99 | 1 | FB331 | 202 | 117 | 12 | 11 | | | |
| 5,073,744 70028 A 4-11 FA PLT1 | | | | | | | | | | | | | | | | | | |
| Deployed in a Inverted 'V' with a width of 200 and a depth of 50Azminuth is 135 | | | | | | | | | | | | | | | | | | |
| 1019004530 | 1922 | 96372 | 4-11 FA BN_A1_MEDIC_1922 | 20 | 1 | HolnEp | 49 | 130.20.68.1 | 0 | 103 | FB9J0 | 202 | 116 | 12 | 11 | | | |
| 1019405000 | 1917 | 96374 | A BTRY 4-11 FA_PL1_1917 | 20 | 1 | HolnEp | 66 | 130.20.65.1 | 50 | 37 | FF20A | 202 | 116 | 12 | 11 | | | |
| 1019405100 | 1919 | 96379 | A BTRY 4-11 FA_PSG1_1919 | 20 | 1 | HolnEp | 67 | 130.20.66.1 | 50 | 38 | FF704 | 202 | 116 | 12 | 11 | | | |
| 1019405200 | 1921 | 96376 | A BTRY 4-11 FA_HOW11_1921 | 20 | 1 | HolnEp | 68 | 130.20.67.1 | 0 | 102 | FFCV0 | 202 | 116 | 12 | 11 | | | |
| 1019405300 | 1923 | 96376 | A BTRY 4-11 FA_HOW12_1923 | 20 | 1 | HolnEp | 69 | 130.20.69.1 | 0 | 104 | FFCV0 | 202 | 116 | 12 | 11 | | | |
| 1019405400 | 1925 | 96376 | A BTRY 4-11 FA_HOW13_1925 | 20 | 1 | HolnEp | 70 | 130.20.70.1 | 0 | 105 | FFCV0 | 202 | 117 | 12 | 11 | | | |
| 1019405500 | 1927 | 96377 | A BTRY 4-11 FA_RSV11_1927 | 20 | 1 | HolnEp | 71 | 130.20.71.1 | 50 | 39 | FF740 | 202 | 118 | 12 | 11 | | | |
| 1019405600 | 1929 | 96377 | A BTRY 4-11 FA_RSV12_1929 | 20 | 1 | HolnEp | 72 | 130.20.72.1 | 50 | 40 | FF740 | 202 | 117 | 12 | 11 | | | |

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|---------------------------------------|-------------|--|----|-----------------|-----------|-------------|-----------|------------|-------|-----|------------|----|-----------|
| 1019405700 | 1931 | 96377 A BTRY 4-11 FA_RSV13_1931 | 20 | 1 HolnEp | 73 | 130.20.73.1 | 50 | 41 | FF740 | 202 | 117 | 12 | 11 |
| 5,073,745 70029 A 4-11 FA PLT2 | | | | | | | | | | | | | |
| 1019406000 | 1933 | 96374 A BTRY 4-11 FA_PL2_1933 | 20 | 1 HolnEp | 74 | 130.20.74.1 | 50 | 42 | FF20A | 202 | 118 | 12 | 11 |
| 1019406100 | 1934 | 96379 A BTRY 4-11 FA_PSG2_1934 | 20 | 1 HolnEp | 75 | 130.20.75.1 | 50 | 43 | FF704 | 202 | 118 | 12 | 11 |
| 1019406200 | 1935 | 96376 A BTRY 4-11 FA_HOW21_1935 | 20 | 1 HolnEp | 76 | 130.20.76.1 | 0 | 107 | FFCV0 | 202 | 118 | 12 | 11 |
| 1019406300 | 1936 | 96376 A BTRY 4-11 FA_HOW22_1936 | 20 | 1 HolnEp | 77 | 130.20.77.1 | 0 | 108 | FFCV0 | 202 | 118 | 12 | 11 |
| 1019406400 | 1937 | 96376 A BTRY 4-11 FA_HOW23_1937 | 20 | 1 HolnEp | 78 | 130.20.78.1 | 0 | 109 | FFCV0 | 202 | 118 | 12 | 11 |
| 1019406500 | 1938 | 96377 A BTRY 4-11 FA_RSV21_1938 | 20 | 1 HolnEp | 79 | 130.20.79.1 | 50 | 44 | FF740 | 202 | 117 | 12 | 11 |
| 1019406600 | 1939 | 96377 A BTRY 4-11 FA_RSV22_1939 | 20 | 1 HolnEp | 80 | 130.20.80.1 | 50 | 45 | FF740 | 202 | 118 | 12 | 11 |
| 1019406700 | 1940 | 96377 A BTRY 4-11 FA_RSV23_1940 | 20 | 1 HolnEp | 81 | 130.20.81.1 | 50 | 46 | FF740 | 202 | 117 | 12 | 11 |
| | | | | | | | | | | | | | |
| 10195 | 5,041,529 | 36013 B BTRY 4-11 FA | | | | | | | | | | | |
| 5,073,774 70027 B 4-11 FA BOC | | | | | | | | | | | | | |
| 1019500000 | 1942 | 96373 B BTRY 4-11 FA_CDR_1942 | 20 | 1 HolnEp | 82 | 130.20.82.1 | 85 | 15 | FB202 | 202 | 116 | 12 | 11 |
| 1019501000 | 1944 | 96380 B BTRY 4-11 FA_1SG_1944 | 20 | 1 HolnEp | 83 | 130.20.83.1 | 0 | 110 | FB702 | 202 | 117 | 12 | 11 |
| 1019503000 | 1948 | 96375 B BTRY 4-11 FA_BOC_1948 | 20 | 1 HolnEp | 85 | 130.20.84.1 | 99 | 3 | FB331 | 202 | 117 | 12 | 11 |
| | | | | | | | | | | | | | |
| 5,073,771 70028 B 4-11 FA PLT1 | | | | | | | | | | | | | |
| 1019004550 | 1926 | 96372 4-11 FA BN_B1_MEDIC_1926 | 20 | 1 HolnEp | 50 | 130.20.85.1 | 0 | 106 | FB9J0 | 202 | 116 | 12 | 11 |
| 1019505000 | 1952 | 96374 B BTRY 4-11 FA_PL1_1952 | 20 | 1 HolnEp | 86 | 130.20.86.1 | 50 | 48 | FF20A | 202 | 116 | 12 | 11 |
| 1019505100 | 1953 | 96379 B BTRY 4-11 FA_PSG1_1953 | 20 | 1 HolnEp | 87 | 130.20.87.1 | 50 | 49 | FF704 | 202 | 117 | 12 | 11 |
| 1019505200 | 1954 | 96376 B BTRY 4-11 FA_HOW11_1954 | 20 | 1 HolnEp | 88 | 130.20.88.1 | 0 | 112 | FFCV0 | 202 | 119 | 12 | 11 |
| 1019505300 | 1955 | 96376 B BTRY 4-11 FA_HOW12_1955 | 20 | 1 HolnEp | 89 | 130.20.89.1 | 0 | 113 | FFCV0 | 202 | 119 | 12 | 11 |
| 1019505400 | 1956 | 96376 B BTRY 4-11 FA_HOW13_1956 | 20 | 1 HolnEp | 90 | 130.20.90.1 | 0 | 114 | FFCV0 | 202 | 118 | 12 | 11 |
| 1019505500 | 1957 | 96377 B BTRY 4-11 FA_RSV11_1957 | 20 | 1 HolnEp | 91 | 130.20.91.1 | 50 | 50 | FF740 | 202 | 118 | 12 | 11 |
| 1019505600 | 1958 | 96377 B BTRY 4-11 FA_RSV12_1958 | 20 | 1 HolnEp | 92 | 130.20.92.1 | 50 | 51 | FF740 | 202 | 118 | 12 | 11 |
| 1019505700 | 1959 | 96377 B BTRY 4-11 FA_RSV13_1959 | 20 | 1 HolnEp | 93 | 130.20.93.1 | 50 | 52 | FF740 | 202 | 118 | 12 | 11 |
| | | | | | | | | | | | | | |
| 5,073,772 70029 B 4-11 FA PLT2 | | | | | | | | | | | | | |
| 1019506000 | 1960 | 96374 B BTRY 4-11 FA_PL2_1960 | 20 | 1 HolnEp | 94 | 130.20.94.1 | 50 | 53 | FF20A | 202 | 116 | 12 | 11 |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

| | | | | | | | | | | | | | |
|------------|-------------|--|----|-----------------|------------|--------------|-----------|------------|-------|-----|------------|----|-----------|
| 1019506100 | 1961 | 96379 B BTRY 4-11 FA_PSG2_1961 | 20 | 1 HolnEp | 95 | 130.20.95.1 | 50 | 54 | FF704 | 202 | 117 | 12 | 11 |
| 1019506200 | 1962 | 96376 B BTRY 4-11 FA_HOW21_1962 | 20 | 1 HolnEp | 96 | 130.20.96.1 | 0 | 115 | FFCV0 | 202 | 118 | 12 | 11 |
| 1019506300 | 1963 | 96376 B BTRY 4-11 FA_HOW22_1963 | 20 | 1 HolnEp | 97 | 130.20.97.1 | 0 | 116 | FFCV0 | 202 | 118 | 12 | 11 |
| 1019506400 | 1964 | 96376 B BTRY 4-11 FA_HOW23_1964 | 20 | 1 HolnEp | 98 | 130.20.98.1 | 0 | 117 | FFCV0 | 202 | 118 | 12 | 11 |
| 1019506500 | 1965 | 96377 B BTRY 4-11 FA_RSV21_1965 | 20 | 1 HolnEp | 99 | 130.20.99.1 | 50 | 55 | FF740 | 202 | 118 | 12 | 11 |
| 1019506600 | 1966 | 96377 B BTRY 4-11 FA_RSV22_1966 | 20 | 1 HolnEp | 100 | 130.20.100.1 | 50 | 56 | FF740 | 202 | 118 | 12 | 11 |
| 1019506700 | 1967 | 96377 B BTRY 4-11 FA_RSV23_1967 | 20 | 1 HolnEp | 101 | 130.20.101.1 | 50 | 57 | FF740 | 202 | 118 | 12 | 11 |
| 10196 | 5,041,530 | 36013 C BTRY 4-11 FA | | | | | | | | | | | |
| | 5,073,801 | 70027 C 4-11 FA BOC | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 1019600000 | 1969 | 96373 C BTRY 4-11 FA_CDR_1969 | 20 | 1 HolnEp | 102 | 130.20.102.1 | 85 | 16 | FB202 | 202 | 110 | 12 | 11 |
| 1019601000 | 1971 | 96380 C BTRY 4-11 FA_1SG_1971 | 20 | 1 HolnEp | 103 | 130.20.103.1 | 0 | 118 | FB702 | 202 | 108 | 12 | 10 |
| 1019603000 | 1975 | 96375 C BTRY 4-11 FA_BOZ_1975 | 20 | 1 HolnEp | 105 | 130.20.104.1 | 99 | 4 | FB331 | 202 | 114 | 12 | 11 |
| | 5,073,798 | 70028 C 4-11 FA PLT1 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 1019605000 | 1979 | 96374 C BTRY 4-11 FA_PL1_1979 | 20 | 1 HolnEp | 106 | 130.20.105.1 | 50 | 59 | FF20A | 202 | 116 | 12 | 11 |
| 1019605100 | 1980 | 96379 C BTRY 4-11 FA_PSG1_1980 | 20 | 1 HolnEp | 107 | 130.20.106.1 | 50 | 60 | FF704 | 202 | 115 | 12 | 11 |
| 1019605200 | 1981 | 96376 C BTRY 4-11 FA_HOW11_1981 | 20 | 1 HolnEp | 108 | 130.20.107.1 | 0 | 119 | FFCV0 | 202 | 117 | 12 | 11 |
| 1019605300 | 1982 | 96376 C BTRY 4-11 FA_HOW12_1982 | 20 | 1 HolnEp | 109 | 130.20.108.1 | 0 | 120 | FFCV0 | 202 | 116 | 12 | 11 |
| 1019605400 | 1983 | 96376 C BTRY 4-11 FA_HOW13_1983 | 20 | 1 HolnEp | 110 | 130.20.109.1 | 0 | 121 | FFCV0 | 202 | 117 | 12 | 11 |
| 1019605500 | 1984 | 96377 C BTRY 4-11 FA_RSV11_1984 | 20 | 1 HolnEp | 111 | 130.20.110.1 | 50 | 61 | FF740 | 202 | 115 | 12 | 11 |
| 1019605600 | 1985 | 96377 C BTRY 4-11 FA_RSV12_1985 | 20 | 1 HolnEp | 112 | 130.20.111.1 | 50 | 62 | FF740 | 202 | 117 | 12 | 11 |
| 1019605700 | 1986 | 96377 C BTRY 4-11 FA_RSV13_1986 | 20 | 1 HolnEp | 113 | 130.20.112.1 | 50 | 63 | FF740 | 202 | 116 | 12 | 11 |
| | 5,073,799 | 70029 C 4-11 FA PLT2 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 1019606000 | 1987 | 96374 C BTRY 4-11 FA_PL2_1987 | 20 | 1 HolnEp | 114 | 130.20.113.1 | 50 | 64 | FF20A | 202 | 117 | 12 | 11 |
| 1019606100 | 1988 | 96379 C BTRY 4-11 FA_PSG2_1988 | 20 | 1 HolnEp | 115 | 130.20.114.1 | 50 | 65 | FF704 | 202 | 117 | 12 | 11 |
| 1019606200 | 1989 | 96376 C BTRY 4-11 FA_HOW21_1989 | 20 | 1 HolnEp | 116 | 130.20.115.1 | 0 | 122 | FFCV0 | 202 | 117 | 12 | 11 |
| 1019606300 | 1990 | 96376 C BTRY 4-11 FA_HOW22_1990 | 20 | 1 HolnEp | 117 | 130.20.116.1 | 0 | 123 | FFCV0 | 202 | 117 | 12 | 11 |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

| | | | | | | | | | | | | | | |
|------------|-------------|--|----|-----------------|--|--------------|-----------|------------|-------|-----|------------|----|-----------|--|
| 1019606400 | 1991 | 96376 C BTRY 4-11 FA_HOW23_1991 | 20 | 1 HolnEp | 118 | 130.20.117.1 | 0 | 124 | FFCV0 | 202 | 117 | 12 | 11 | |
| 1019606500 | 1992 | 96377 C BTRY 4-11 FA_RSV21_1992 | 20 | 1 HolnEp | 119 | 130.20.118.1 | 50 | 66 | FF740 | 202 | 117 | 12 | 11 | |
| 1019606600 | 1993 | 96377 C BTRY 4-11 FA_RSV22_1993 | 20 | 1 HolnEp | 120 | 130.20.119.1 | 50 | 67 | FF740 | 202 | 117 | 12 | 11 | |
| 1019606700 | 1994 | 96377 C BTRY 4-11 FA_RSV23_1994 | 20 | 1 HolnEp | 121 | 130.20.120.1 | 50 | 68 | FF740 | 202 | 117 | 12 | 11 | |
| 10197 | 5,041,532 | 36058 TA PLT 4-11 FA | | | | | | | | | | | | |
| | 5,073,840 | 70026 TA PLT HQ | | | | | | | | | | | | |
| | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | | |
| 1019700000 | 1996 | 96012 TA PLT 4-11 FA_PL_1996 | 20 | 1 HolnEp | 122 | 130.20.121.1 | 50 | 69 | FFGB0 | 202 | 117 | 12 | 11 | |
| 1019760000 | 2005 | 96008 TA MET SEC_HQ_2005 | 20 | 1 HolnEp | 127 | 130.20.122.1 | 0 | 127 | FHFC6 | 202 | 117 | 12 | 11 | |
| 1019761000 | 2006 | 96009 TA MET SEC_MMS_2006 | 20 | 1 HolnEp | 128 | 130.20.123.1 | 0 | 128 | FHFC5 | 202 | 117 | 12 | 11 | |
| 1019770000 | 2008 | 96011 TA PADS_SEC_2008 | 20 | 1 HolnEp | 129 | 130.20.124.1 | 0 | 129 | FIFB0 | 202 | 117 | 12 | 11 | |
| 101972 | 5,073,678 | 36059 TA Q36 SEC | | | | | | | | | | | | |
| | 5,075,417 | 70070 TA Q36 | | | | | | | | | | | | |
| | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | | |
| 1019720000 | 1998 | 96001 TA Q36 SEC_SEC_HQ_1998 | 20 | 1 HolnEp | 123 | 130.20.125.1 | 50 | 70 | FHFC3 | 202 | 121 | 12 | 12 | |
| 1019721000 | 1999 | 96002 TA Q36 SEC_1999 | 20 | 1 HolnEp | 124 | 130.20.126.1 | 0 | 125 | FHGB7 | 202 | 118 | 12 | 11 | |
| 101974 | 5,073,679 | 36060 TA Q37 SEC | | | | | | | | | | | | |
| | 5,075,418 | 70071 TA Q37 | | | | | | | | | | | | |
| | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | | |
| 1019740000 | 2001 | 96004 TA Q37 SEC_SEC_HQ_2001 | 20 | 1 HolnEp | 125 | 130.20.127.1 | 50 | 71 | FHFC3 | 202 | 117 | 12 | 11 | |
| 1019741000 | 2002 | 96005 TA Q37 SEC_2002 | 20 | 1 HolnEp | 126 | 130.20.128.1 | 0 | 126 | FHGB6 | 202 | 117 | 12 | 11 | |
| 101976 | 5,073,680 | 36061 TA MET SEC | | | | | | | | | | | | |
| 101977 | 5,073,681 | 36062 TA PADS | | | | | | | | | | | | |
| 101a | 5,073,669 | 36108 AA CO 172 | | | | | | | | | | | | |
| | 5,073,817 | 70012 AA CO HQ SEC | | | | | | | | | | | | |
| | | | | | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees | | | | | | | | | |
| 101a006000 | 2026 | 96099 AA CO 172_FIST_2026 | 20 | 1 HolnEp | 130 | 130.20.129.1 | 0 | 130 | IB851 | 202 | 127 | 12 | 12 | |
| | 5,073,814 | 70013 AA CO PLT1 | | | | | | | | | | | | |
| | 5,073,815 | 70014 AA CO PLT2 | | | | | | | | | | | | |
| | | | | | Deployed in a Inverted 'V' with a width of 100 and a depth of 100Azminuth is 45 | | | | | | | | | |
| | | | | | Deployed in a Inverted 'V' with a width of 100 and a depth of 100Azminuth is 45 | | | | | | | | | |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

| | | | | |
|------------|-------------|--------------|------------------------|--|
| | 5,073,816 | 70015 | AA CO PLT3 | Deployed in a Inverted 'V' with a width of 100 and a depth of 100Azminuth is 45 |
| 101b | 5,073,670 | 35865 | 562 ENG CO | Deployed in a Circle with a radius of 150 meters. Azminuth is 0 degrees |
| | 5,073,713 | 70016 | 562 ENG HQ CO | Deployed in a Inverted 'V' with a width of 500 and a depth of 50Azminuth is 45 |
| | 5,073,697 | 70018 | 562 ENG PLT1 | Deployed in a Inverted 'V' with a width of 450 and a depth of 75Azminuth is 30 |
| | 5,073,701 | 70019 | 562 ENG PLT2 | Deployed in a Inverted 'V' with a width of 600 and a depth of 25Azminuth is 40 |
| | 5,073,705 | 70020 | 562 ENG PLT3 | Deployed in a Semi-Circle with a radius of 300 meters. Azminuth is 220 degrees |
| 101b007400 | 2065 | 96015 | 562 ENG CO_SQD3_3_2065 | 20 1 HolnEp 131 130.20.130.1 0 131 EG203 202 118 12 11 |
| | 5,073,709 | 70017 | 562 ENG MOB | Deployed in a Circle with a radius of 1 meters. Azminuth is 0 degrees |
| 101c | 5,073,671 | 36995 | MI CO 172 | Deployed in a Circle with a radius of 50 meters. Azminuth is 0 degrees |
| | 5,073,716 | 70009 | MI CO HQ SEC | Deployed in a Circle with a radius of 50 meters. Azminuth is 0 degrees |
| | 5,073,714 | 70011 | MI CO HUMINT PLT | Deployed in a Circle with a radius of 100 meters. Azminuth is 0 degrees |
| | 5,074,525 | 70010 | MI CO ISR PLT | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees |
| 101d | 5,073,672 | 36406 | 21 SIG CO | Deployed in a Inverted 'V' with a width of 350 and a depth of 25Azminuth is 0 |
| | 5,073,735 | 70008 | 21 SIG SPT PLT | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees |
| 101e | 5,039,128 | 37612 | BSB 172 | Deployed in a Circle with a radius of 300 meters. Azminuth is 0 degrees |
| 101e1 | 5,039,131 | 36161 | BSB MED CO | Deployed in a Circle with a radius of 300 meters. Azminuth is 0 degrees |
| | 5,073,838 | 70064 | MED CO HQ | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees |
| | 5,073,837 | 77777 | MED AMB PLT | Deployed in a Circle with a radius of 75 meters. Azminuth is 0 degrees |
| | 5,073,839 | 70065 | MED TRMT PLT | Deployed in a Inverted 'V' with a width of 350 and a depth of 25Azminuth is 0 |
| | 5,074,532 | 77777 | BSB 172 HDC | Deployed in a Circle with a radius of 300 meters. Azminuth is 0 degrees |
| | 5,073,726 | 70060 | HDC H2O POL PLT | Deployed in a Circle with a radius of 300 meters. Azminuth is 0 degrees |
| | 5,073,727 | 70061 | HDC SUPPLY PLT | Deployed in a Circle with a radius of 300 meters. Azminuth is 0 degrees |

Annex A (Modeled Force with Equipment) to Final Analysis Report for Fires on the Tactical Internet

| | | | |
|-----------|--------------|---------------|---|
| 5,073,728 | 70062 | HDC TRANS PLT | Deployed in a Circle with a radius of 250 meters. Azminuth is 0 degrees |
| 101e3 | 5,039,129 | 37309 | BSB FMC |
| | 5,073,834 | 70066 | BSB FMC HQ |
| | 5,073,835 | 70067 | BSB FMC CONTROL |
| | 5,073,833 | 70068 | BSB FMC MAINT PLT |
| | 5,073,836 | 70069 | BSB FMC REPAIR PLT |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.11 AMMO INVENTORY

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 2,784 | 0 | 0 | 2,784 | 2,784 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 2,784 | 0 | 0 | 2,784 | 2,784 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 2,784 | 2 | 2 | 2,782 | 2,782 | 99.86% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 2,784 | 20 | 20 | 2,764 | 2,764 | 98.57% |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 2,784 | 0 | 0 | 2,784 | 2,784 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 2,784 | 0 | 0 | 2,784 | 2,784 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 2,784 | 0 | 0 | 2,784 | 2,784 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 2,552 | 108 | 108 | 2,444 | 2,444 | 91.88% |

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.11 AMMO INVENTORY

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|---------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | Met SoS | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 2,784 | 0 | 0 | 2,784 | 2,784 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 2,784 | 0 | 0 | 2,784 | 2,784 | 100.00% |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 2,784 | 0 | 0 | 2,784 | 2,784 | 100.00% |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 2,784 | 2 | 2 | 2,782 | 2,782 | 99.86% |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 2,088 | 322 | 322 | 1,766 | 1,766 | 73.28% |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 2,784 | 0 | 0 | 2,784 | 2,784 | 100.00% |

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.4 CALL FOR FIRE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|--|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 4,884 | 139 | 0 | | 4,745 | 97.15% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 4,884 | 96 | 0 | | 4,788 | 98.03% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 4,884 | 183 | 2 | | 4,701 | 96.21% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 4,884 | 940 | 12 | | 3,944 | 80.56% |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 4,884 | 124 | 0 | | 4,760 | 97.46% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 4,884 | 82 | 0 | | 4,802 | 98.32% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 4,884 | 189 | 4 | | 4,695 | 96.05% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 4,477 | 1137 | 84 | | 3,340 | 73.23% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.4 CALL FOR FIRE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 4,884 | 191 | 1 | 4,693 | 96.07% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 4,884 | 98 | 2 | 4,786 | 97.95% | |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 4,884 | 27 | 1 | 4,857 | 99.43% | |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 4,884 | 161 | 0 | 4,723 | 96.70% | |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 3,663 | 1848 | 197 | 1,815 | 47.02% | |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 4,884 | 245 | 1 | 4,639 | 94.96% | |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

K02.1 CHECK FIRE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 1,032 | 35 | 0 | 997 | 96.61% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 1,032 | 39 | 0 | 993 | 96.22% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 1,032 | 72 | 0 | 960 | 93.02% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 1,032 | 16 | 0 | 1,016 | 98.45% | |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 1,032 | 31 | 0 | 1,001 | 97.00% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 1,032 | 35 | 0 | 997 | 96.61% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 1,032 | 69 | 0 | 963 | 93.31% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 946 | 42 | 26 | 904 | 93.00% | |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.1 CHECK FIRE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 1,032 | 64 | 0 | 968 | 93.80% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 1,032 | 37 | 0 | 995 | 96.41% | |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 1,032 | 19 | 13 | 1,013 | 96.94% | |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 1,032 | 38 | 0 | 994 | 96.32% | |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 774 | 459 | 86 | 315 | 36.63% | |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 1,032 | 48 | 0 | 984 | 95.35% | |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.21 CLEARANCE TO FIRE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 312 | 1 | 0 | 311 | 311 | 99.68% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 312 | 1 | 0 | 311 | 311 | 99.68% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 312 | 1 | 1 | 311 | 311 | 99.36% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 312 | 27 | 0 | 285 | 285 | 91.35% |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 312 | 0 | 0 | 312 | 312 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 312 | 1 | 1 | 311 | 311 | 99.36% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 312 | 3 | 0 | 309 | 309 | 99.04% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 286 | 33 | 1 | 253 | 253 | 88.15% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.21 CLEARANCE TO FIRE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 312 | 4 | 1 | 308 | 98.40% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 312 | 0 | 0 | 312 | 100.00% | |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 312 | 0 | 0 | 312 | 100.00% | |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 312 | 2 | 0 | 310 | 99.36% | |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 234 | 43 | 1 | 191 | 81.28% | |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 312 | 8 | 0 | 304 | 97.44% | |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.12 COMMAND TO FIRE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 924 | 37 | 0 | 887 | 96.00% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 924 | 23 | 0 | 901 | 97.51% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 924 | 68 | 0 | 856 | 92.64% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 924 | 221 | 8 | 703 | 75.43% | |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 924 | 44 | 1 | 880 | 95.14% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 924 | 30 | 0 | 894 | 96.75% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 924 | 40 | 1 | 884 | 95.57% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 847 | 197 | 35 | 650 | 73.70% | |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.12 COMMAND TO FIRE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 924 | 58 | 0 | 866 | 93.72% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 924 | 20 | 0 | 904 | 97.84% | |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 924 | 5 | 0 | 919 | 99.46% | |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 924 | 10 | 2 | 914 | 98.70% | |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 693 | 416 | 114 | 277 | 34.32% | |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 924 | 13 | 0 | 911 | 98.59% | |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.16 EOM AND SRVLNC

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 4,020 | 173 | 0 | 3,847 | 95.70% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 4,020 | 87 | 0 | 3,933 | 97.84% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 4,020 | 160 | 2 | 3,860 | 95.97% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 4,020 | 921 | 27 | 3,099 | 76.58% | |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 4,020 | 190 | 0 | 3,830 | 95.27% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 4,020 | 124 | 1 | 3,896 | 96.89% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 4,020 | 170 | 1 | 3,850 | 95.75% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 3,685 | 1249 | 162 | 2,436 | 63.32% | |

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.16 EOM AND SRVLNC

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|--|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 4,020 | 201 | 0 | | 3,819 | 95.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 4,020 | 171 | 1 | | 3,849 | 95.72% |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 4,020 | 24 | 0 | | 3,996 | 99.40% |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 4,020 | 198 | 0 | | 3,822 | 95.07% |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 3,015 | 1801 | 370 | | 1,214 | 35.86% |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 4,020 | 149 | 0 | | 3,871 | 96.29% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.25 EOM NOTIFICATION

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 204 | 9 | 0 | 195 | 195 | 95.59% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 204 | 0 | 0 | 204 | 204 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 204 | 7 | 0 | 197 | 197 | 96.57% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 204 | 56 | 0 | 148 | 148 | 72.55% |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 204 | 8 | 0 | 196 | 196 | 96.08% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 204 | 1 | 0 | 203 | 203 | 99.51% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 204 | 13 | 0 | 191 | 191 | 93.63% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 187 | 58 | 7 | 129 | 129 | 66.49% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.25 EOM NOTIFICATION

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 204 | 2 | 0 | 202 | 202 | 99.02% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 204 | 0 | 0 | 204 | 204 | 100.00% |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 204 | 1 | 1 | 203 | 203 | 99.02% |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 204 | 7 | 0 | 197 | 197 | 96.57% |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 153 | 91 | 11 | 62 | 62 | 37.80% |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 204 | 11 | 0 | 193 | 193 | 94.61% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:
 4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

K02.17 FIRE MISSION SUMMARY

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 3,072 | 2 | 0 | 3,070 | 99.93% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 3,072 | 1 | 0 | 3,071 | 99.97% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 3,072 | 4 | 2 | 3,068 | 99.80% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 3,072 | 22 | 21 | 3,050 | 98.61% | |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 3,072 | 1 | 0 | 3,071 | 99.97% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 3,072 | 0 | 0 | 3,072 | 100.00% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 3,072 | 12 | 6 | 3,060 | 99.42% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 2,816 | 113 | 113 | 2,703 | 92.28% | |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.17 FIRE MISSION SUMMARY

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 3,072 | 0 | 0 | 3,072 | 3,072 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 3,072 | 0 | 0 | 3,072 | 3,072 | 100.00% |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 3,072 | 2 | 2 | 3,070 | 3,070 | 99.87% |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 3,072 | 3 | 3 | 3,069 | 3,069 | 99.80% |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 2,304 | 614 | 341 | 1,690 | 1,690 | 63.89% |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 3,072 | 5 | 0 | 3,067 | 3,067 | 99.84% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.15 FS COORD MEASURES

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 192 | 0 | 0 | 192 | 192 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 192 | 0 | 0 | 192 | 192 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 192 | 1 | 0 | 191 | 191 | 99.48% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 192 | 0 | 0 | 192 | 192 | 100.00% |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 192 | 0 | 0 | 192 | 192 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 192 | 0 | 0 | 192 | 192 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 192 | 0 | 0 | 192 | 192 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 176 | 8 | 8 | 168 | 168 | 91.30% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.15 FS COORD MEASURES

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 192 | 0 | 0 | 192 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 192 | 0 | 0 | 192 | 100.00% |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 192 | 0 | 0 | 192 | 100.00% |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 192 | 0 | 0 | 192 | 100.00% |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 144 | 74 | 41 | 70 | 37.84% |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 192 | 0 | 0 | 192 | 100.00% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K01.3 INFO REQ MSG

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 66 | 2 | 2 | 64 | 64 | 94.12% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K01.3 INFO REQ MSG

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 72 | 1 | 1 | 71 | 71 | 97.26% |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 54 | 5 | 5 | 49 | 49 | 83.05% |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:
 4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

K02.13 MISSION CLEARANCE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 312 | 0 | 0 | 312 | 312 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 312 | 2 | 2 | 310 | 310 | 98.73% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 312 | 3 | 0 | 309 | 309 | 99.04% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 312 | 48 | 1 | 264 | 264 | 84.35% |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 312 | 2 | 1 | 310 | 310 | 99.04% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 312 | 2 | 0 | 310 | 310 | 99.36% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 312 | 4 | 0 | 308 | 308 | 98.72% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 286 | 42 | 1 | 244 | 244 | 85.02% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K02.13 MISSION CLEARANCE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 312 | 3 | 0 | 309 | 99.04% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 312 | 0 | 0 | 312 | 100.00% |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 312 | 1 | 0 | 311 | 99.68% |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 312 | 0 | 0 | 312 | 100.00% |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 234 | 41 | 3 | 193 | 81.43% |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 312 | 9 | 0 | 303 | 97.12% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:
 4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

K02.24 MISSION NOTIFICATION

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 66 | 0 | 0 | 66 | 66 | 100.00% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:
 4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

K02.24 MISSION NOTIFICATION

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 54 | 31 | 3 | 23 | 23 | 40.35% |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 72 | 0 | 0 | 72 | 72 | 100.00% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:
 4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

K02.14 MTO

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 2,820 | 85 | 1 | 2,735 | 96.95% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 2,820 | 73 | 0 | 2,747 | 97.41% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 2,820 | 147 | 3 | 2,673 | 94.69% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 2,820 | 514 | 12 | 2,306 | 81.43% | |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 2,820 | 84 | 1 | 2,736 | 96.99% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 2,820 | 72 | 1 | 2,748 | 97.41% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 2,820 | 154 | 1 | 2,666 | 94.51% | |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 2,585 | 638 | 72 | 1,947 | 73.28% | |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:
 4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

K02.14 MTO

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 2,820 | 119 | 1 | 2,701 | 95.75% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 2,820 | 96 | 0 | 2,724 | 96.60% | |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 2,820 | 21 | 0 | 2,799 | 99.26% | |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 2,820 | 106 | 1 | 2,714 | 96.21% | |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 2,115 | 1152 | 147 | 963 | 42.57% | |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 2,820 | 118 | 2 | 2,702 | 95.75% | |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:
 4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

K02.6 OBS MISSION UPDATE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|--|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 8,256 | 292 | 0 | | 7,964 | 96.46% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 8,256 | 227 | 0 | | 8,029 | 97.25% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 8,256 | 438 | 0 | | 7,818 | 94.69% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 8,256 | 1903 | 37 | | 6,353 | 76.61% |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 8,256 | 299 | 0 | | 7,957 | 96.38% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 8,256 | 228 | 0 | | 8,028 | 97.24% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 8,256 | 438 | 0 | | 7,818 | 94.69% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 7,568 | 2169 | 236 | | 5,399 | 69.18% |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:
 4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

K02.6 OBS MISSION UPDATE

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 8,256 | 293 | 0 | 7,963 | 96.45% | |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 8,256 | 192 | 0 | 8,064 | 97.67% | |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 8,256 | 101 | 0 | 8,155 | 98.78% | |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 8,256 | 773 | 0 | 7,483 | 90.64% | |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 6,192 | 4255 | 682 | 1,937 | 28.18% | |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 8,256 | 410 | 0 | 7,846 | 95.03% | |

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K05.1 POSITION REPORT

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|-----|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | | |
| All Traffic on Single Full LTS Needline (Aai7). | 12 | 168 | 0 | 0 | 168 | 168 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8). | 12 | 168 | 0 | 0 | 168 | 168 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9). | 12 | 168 | 0 | 0 | 168 | 168 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10). | 12 | 168 | 0 | 0 | 168 | 168 | 100.00% |
| All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10). | 12 | 168 | 0 | 0 | 168 | 168 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.) | 12 | 168 | 0 | 0 | 168 | 168 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10). | 12 | 168 | 0 | 0 | 168 | 168 | 100.00% |
| FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10). | 11 | 154 | 6 | 6 | 148 | 148 | 92.50% |

Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation

Annex B (Mission Thread Average Met Speed of Service, by Message Type) to Final Analysis Report for Fires on the Tactical Internet

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

K05.1 POSITION REPORT

| Variant | Runs / Variant | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|---|----------------|------------|--|-----------------------|---------|---------------------|
| | | | Total Failed SoS | Total Not Transmitted | | |
| All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf). | 12 | 168 | 0 | 0 | 168 | 100.00% |
| FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic). | 12 | 168 | 0 | 0 | 168 | 100.00% |
| Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full). | 12 | 168 | 4 | 4 | 164 | 95.35% |
| Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half). | 12 | 168 | 0 | 0 | 168 | 100.00% |
| Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr). | 9 | 126 | 33 | 18 | 93 | 64.58% |
| Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus | 12 | 168 | 0 | 0 | 168 | 100.00% |

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

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Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

All Traffic on Single Full LTS Needline (Aai7).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|---|-----------------------|---------|---------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 0 | 0 | 2,784 | 100.00% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 139 | 0 | 4,745 | 97.15% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 35 | 0 | 997 | 96.61% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 1 | 0 | 311 | 99.68% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 37 | 0 | 887 | 96.00% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 173 | 0 | 3,847 | 95.70% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 9 | 0 | 195 | 95.59% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 2 | 0 | 3,070 | 99.93% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 0 | 0 | 312 | 100.00% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 85 | 1 | 2,735 | 96.95% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 292 | 0 | 7,964 | 96.46% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS (Aai8).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|---|-----------------------|---------|---------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 0 | 0 | 2,784 | 100.00% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 96 | 0 | 4,788 | 98.03% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 39 | 0 | 993 | 96.22% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 1 | 0 | 311 | 99.68% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 23 | 0 | 901 | 97.51% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 87 | 0 | 3,933 | 97.84% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 0 | 0 | 204 | 100.00% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 1 | 0 | 3,071 | 99.97% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 2 | 2 | 310 | 98.73% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 73 | 0 | 2,747 | 97.41% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 227 | 0 | 8,029 | 97.25% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS (Aai9).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|---|-----------------------|---------|---------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 2 | 2 | 2,782 | 99.86% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 183 | 2 | 4,701 | 96.21% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 72 | 0 | 960 | 93.02% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 1 | 1 | 311 | 99.36% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 68 | 0 | 856 | 92.64% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 160 | 2 | 3,860 | 95.97% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 7 | 0 | 197 | 96.57% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 4 | 2 | 3,068 | 99.80% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 1 | 0 | 191 | 99.48% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 3 | 0 | 309 | 99.04% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 147 | 3 | 2,673 | 94.69% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 438 | 0 | 7,818 | 94.69% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS (Aai10).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|--|-----------------------|---------|---------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 20 | 20 | 2,764 | 98.57% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 940 | 12 | 3,944 | 80.56% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 16 | 0 | 1,016 | 98.45% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 27 | 0 | 285 | 91.35% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 221 | 8 | 703 | 75.43% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 921 | 27 | 3,099 | 76.58% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 56 | 0 | 148 | 72.55% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 22 | 21 | 3,050 | 98.61% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 48 | 1 | 264 | 84.35% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 514 | 12 | 2,306 | 81.43% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 1903 | 37 | 6,353 | 76.61% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

All Traffic on Single Full LTS Needline with 10 seconds between retries (Aai7Tb10).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|---|--------------------------|---------|------------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 0 | 0 | 2,784 | 100.00% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 124 | 0 | 4,760 | 97.46% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 31 | 0 | 1,001 | 97.00% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 0 | 0 | 312 | 100.00% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 44 | 1 | 880 | 95.14% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 190 | 0 | 3,830 | 95.27% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 8 | 0 | 196 | 96.08% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 1 | 0 | 3,071 | 99.97% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 2 | 1 | 310 | 99.04% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 84 | 1 | 2,736 | 96.99% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 299 | 0 | 7,957 | 96.38% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries (Aai8Tb10.)

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|--|-----------------------|---------|---------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 0 | 0 | 2,784 | 100.00% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 82 | 0 | 4,802 | 98.32% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 35 | 0 | 997 | 96.61% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 1 | 1 | 311 | 99.36% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 30 | 0 | 894 | 96.75% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 124 | 1 | 3,896 | 96.89% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 1 | 0 | 203 | 99.51% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 0 | 0 | 3,072 | 100.00% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 2 | 0 | 310 | 99.36% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 72 | 1 | 2,748 | 97.41% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 228 | 0 | 8,028 | 97.24% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

FsOps Traffic on Single Half LTS, Fires & Checkfires combined on a Half LTS with 10 seconds between retries (Aai9Tb10).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|--|-----------------------|---------|---------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 0 | 0 | 2,784 | 100.00% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 189 | 4 | 4,695 | 96.05% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 69 | 0 | 963 | 93.31% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 3 | 0 | 309 | 99.04% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 40 | 1 | 884 | 95.57% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 170 | 1 | 3,850 | 95.75% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 13 | 0 | 191 | 93.63% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 12 | 6 | 3,060 | 99.42% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 4 | 0 | 308 | 98.72% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 154 | 1 | 2,666 | 94.51% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 438 | 0 | 7,818 | 94.69% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

FsOps Traffic on Single Half LTS, Fires & Checkfires each on a Quarter LTS with 10 seconds between retries (Aai10Tb10).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|--|-----------------------|--|---------|---------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | | |
| 11 | K02.11 | AMMO INVENTORY | 2,552 | 108 | 108 | | 2,444 | 91.88% |
| 11 | K02.4 | CALL FOR FIRE | 4,477 | 1137 | 84 | | 3,340 | 73.23% |
| 11 | K02.1 | CHECK FIRE | 946 | 42 | 26 | | 904 | 93.00% |
| 11 | K02.21 | CLEARANCE TO FIRE | 286 | 33 | 1 | | 253 | 88.15% |
| 11 | K02.12 | COMMAND TO FIRE | 847 | 197 | 35 | | 650 | 73.70% |
| 11 | K02.16 | EOM AND SRVLNC | 3,685 | 1249 | 162 | | 2,436 | 63.32% |
| 11 | K02.25 | EOM NOTIFICATION | 187 | 58 | 7 | | 129 | 66.49% |
| 11 | K02.17 | FIRE MISSION SUMMARY | 2,816 | 113 | 113 | | 2,703 | 92.28% |
| 11 | K02.15 | FS COORD MEASURES | 176 | 8 | 8 | | 168 | 91.30% |
| 11 | K01.3 | INFO REQ MSG | 66 | 2 | 2 | | 64 | 94.12% |
| 11 | K02.13 | MISSION CLEARANCE | 286 | 42 | 1 | | 244 | 85.02% |
| 11 | K02.24 | MISSION NOTIFICATION | 66 | 0 | 0 | | 66 | 100.00% |
| 11 | K02.14 | MTO | 2,585 | 638 | 72 | | 1,947 | 73.28% |
| 11 | K02.6 | OBS MISSION UPDATE | 7,568 | 2169 | 236 | | 5,399 | 69.18% |
| 11 | K05.1 | POSITION REPORT | 154 | 6 | 6 | | 148 | 92.50% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

All Traffic on Single Full LTS Needline with 6% background traffic (Aai7ModTraf).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|---|--------------------------|---------|------------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 0 | 0 | 2,784 | 100.00% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 191 | 1 | 4,693 | 96.07% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 64 | 0 | 968 | 93.80% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 4 | 1 | 308 | 98.40% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 58 | 0 | 866 | 93.72% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 201 | 0 | 3,819 | 95.00% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 2 | 0 | 202 | 99.02% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 0 | 0 | 3,072 | 100.00% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 3 | 0 | 309 | 99.04% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 119 | 1 | 2,701 | 95.75% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 293 | 0 | 7,963 | 96.45% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

FsOps Traffic on Single Full LTS, Fires & Checkfires combined on a Full LTS with 10 seconds between retries with 6% background traffic (Aai8Tb10Traffic).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|--|-----------------------|--|---------|---------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 0 | 0 | | 2,784 | 100.00% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 98 | 2 | | 4,786 | 97.95% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 37 | 0 | | 995 | 96.41% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 0 | 0 | | 312 | 100.00% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 20 | 0 | | 904 | 97.84% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 171 | 1 | | 3,849 | 95.72% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 0 | 0 | | 204 | 100.00% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 0 | 0 | | 3,072 | 100.00% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 0 | 0 | | 312 | 100.00% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 96 | 0 | | 2,724 | 96.60% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 192 | 0 | | 8,064 | 97.67% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

Firing Batteries & HHC assigned a full LTS each with a full LTS for inter-battery comms (Aai28Full).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|--|-----------------------|---------|---------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 0 | 0 | 2,784 | 100.00% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 27 | 1 | 4,857 | 99.43% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 19 | 13 | 1,013 | 96.94% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 0 | 0 | 312 | 100.00% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 5 | 0 | 919 | 99.46% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 24 | 0 | 3,996 | 99.40% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 1 | 1 | 203 | 99.02% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 2 | 2 | 3,070 | 99.87% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 1 | 1 | 71 | 97.26% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 1 | 0 | 311 | 99.68% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 21 | 0 | 2,799 | 99.26% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 101 | 0 | 8,155 | 98.78% |
| 12 | K05.1 | POSITION REPORT | 168 | 4 | 4 | 164 | 95.35% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
 1 Multicast retry, 20 seconds between retries,
 20 seconds between Multicast retry failure and Unicast attempt;

Firing Batteries & HHC assigned a half LTS each with a half LTS for inter-battery comms (Aai28Half).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|---|--------------------------|---------|------------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 2 | 2 | 2,782 | 99.86% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 161 | 0 | 4,723 | 96.70% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 38 | 0 | 994 | 96.32% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 2 | 0 | 310 | 99.36% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 10 | 2 | 914 | 98.70% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 198 | 0 | 3,822 | 95.07% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 7 | 0 | 197 | 96.57% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 3 | 3 | 3,069 | 99.80% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 0 | 0 | 312 | 100.00% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 106 | 1 | 2,714 | 96.21% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 773 | 0 | 7,483 | 90.64% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

Firing Batteries & HHC assigned a quarter LTS each with a quarter LTS for inter-battery comms (Aai28Qtr).

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|--|-----------------------|---------|---------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 9 | K02.11 | AMMO INVENTORY | 2,088 | 322 | 322 | 1,766 | 73.28% |
| 9 | K02.4 | CALL FOR FIRE | 3,663 | 1848 | 197 | 1,815 | 47.02% |
| 9 | K02.1 | CHECK FIRE | 774 | 459 | 86 | 315 | 36.63% |
| 9 | K02.21 | CLEARANCE TO FIRE | 234 | 43 | 1 | 191 | 81.28% |
| 9 | K02.12 | COMMAND TO FIRE | 693 | 416 | 114 | 277 | 34.32% |
| 9 | K02.16 | EOM AND SRVLNC | 3,015 | 1801 | 370 | 1,214 | 35.86% |
| 9 | K02.25 | EOM NOTIFICATION | 153 | 91 | 11 | 62 | 37.80% |
| 9 | K02.17 | FIRE MISSION SUMMARY | 2,304 | 614 | 341 | 1,690 | 63.89% |
| 9 | K02.15 | FS COORD MEASURES | 144 | 74 | 41 | 70 | 37.84% |
| 9 | K01.3 | INFO REQ MSG | 54 | 5 | 5 | 49 | 83.05% |
| 9 | K02.13 | MISSION CLEARANCE | 234 | 41 | 3 | 193 | 81.43% |
| 9 | K02.24 | MISSION NOTIFICATION | 54 | 31 | 3 | 23 | 40.35% |
| 9 | K02.14 | MTO | 2,115 | 1152 | 147 | 963 | 42.57% |
| 9 | K02.6 | OBS MISSION UPDATE | 6,192 | 4255 | 682 | 1,937 | 28.18% |
| 9 | K05.1 | POSITION REPORT | 126 | 33 | 18 | 93 | 64.58% |

rptMtSisBySimVariantByMsgTyp

Annex C (Mission Thread Average Met Speed of Service, by Message Type by Simulation Variation) to Final Analysis Report for Fires on the Tactical Internet

Mission Thread Average Met Speed of Service, by Simulation Variant, by Message Type

BaselineNetwork:

4 second Acknowledgement required,
1 Multicast retry, 20 seconds between retries,
20 seconds between Multicast retry failure and Unicast attempt;

Aai9Mod with a max limit of 15 TUs of net inactivity vice 7 Tus

| Runs / | Msg ID | Message Description | Total Msgs | All Destinations - SoS Not Met or Call Not Attempted | | Met SoS | Average Percent Met |
|--------|--------|----------------------|------------|---|--------------------------|---------|------------------------|
| | | | | Total Failed SoS | Total Not Transmitted | | |
| 12 | K02.11 | AMMO INVENTORY | 2,784 | 0 | 0 | 2,784 | 100.00% |
| 12 | K02.4 | CALL FOR FIRE | 4,884 | 245 | 1 | 4,639 | 94.96% |
| 12 | K02.1 | CHECK FIRE | 1,032 | 48 | 0 | 984 | 95.35% |
| 12 | K02.21 | CLEARANCE TO FIRE | 312 | 8 | 0 | 304 | 97.44% |
| 12 | K02.12 | COMMAND TO FIRE | 924 | 13 | 0 | 911 | 98.59% |
| 12 | K02.16 | EOM AND SRVLNC | 4,020 | 149 | 0 | 3,871 | 96.29% |
| 12 | K02.25 | EOM NOTIFICATION | 204 | 11 | 0 | 193 | 94.61% |
| 12 | K02.17 | FIRE MISSION SUMMARY | 3,072 | 5 | 0 | 3,067 | 99.84% |
| 12 | K02.15 | FS COORD MEASURES | 192 | 0 | 0 | 192 | 100.00% |
| 12 | K01.3 | INFO REQ MSG | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.13 | MISSION CLEARANCE | 312 | 9 | 0 | 303 | 97.12% |
| 12 | K02.24 | MISSION NOTIFICATION | 72 | 0 | 0 | 72 | 100.00% |
| 12 | K02.14 | MTO | 2,820 | 118 | 2 | 2,702 | 95.75% |
| 12 | K02.6 | OBS MISSION UPDATE | 8,256 | 410 | 0 | 7,846 | 95.03% |
| 12 | K05.1 | POSITION REPORT | 168 | 0 | 0 | 168 | 100.00% |

rptMtSisBySimVariantByMsgTyp

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s1Mod Seed: 128

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 83 | 3 | 96.51% | 3 | 96.50% | 100.0 | 309 | 0.060 | 1.874 | 64.400 |
| K02.12 | COMMAND TO FIRE | F | 4 | 70 | 7 | 90.91% | 7 | 90.90% | 100.0 | 338 | 0.070 | 2.093 | 20.360 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.284 | 0.760 |
| K02.14 | MTO | F | 4 | 230 | 5 | 97.87% | 5 | 97.90% | 100.0 | 481 | 0.130 | 1.006 | 40.500 |
| K02.16 | EOM AND SRVLNC | F | 4 | 315 | 20 | 94.03% | 20 | 94.00% | 100.0 | 349 | 0.040 | 1.948 | 40.440 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.481 | 1.890 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.040 | 1.463 | 20.130 |
| K02.4 | CALL FOR FIRE | F | 4 | 397 | 10 | 97.54% | 10 | 97.50% | 100.0 | 452 | 0.120 | 1.085 | 40.500 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 665 | 23 | 96.66% | 23 | 96.70% | 100.0 | 349 | 0.030 | 1.156 | 40.950 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.328 | 0.580 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.766 | 41.640 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.260 | 1.904 | 21.520 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.809 | 40.620 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 0.402 | 0.890 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.070 | 0.314 | 0.570 |
| RUN TOTALS | | | | 2,358 | 69 | 97.2% | 69 | 97.2% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s2Mod Seed: 222

**Mission Thread SOS
COMPLETIONS RATES**

**FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.**
**MC Retries: 2 Time Between: 20 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 2**

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 83 | 3 | 96.51% | 3 | 96.50% | 100.0 | 309 | 0.060 | 1.114 | 20.450 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.120 | 0.865 | 20.450 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.304 | 0.730 |
| K02.14 | MTO | F | 4 | 225 | 10 | 95.74% | 10 | 95.70% | 100.0 | 481 | 0.110 | 1.471 | 41.010 |
| K02.16 | EOM AND SRVLNC | F | 4 | 326 | 9 | 97.31% | 9 | 97.30% | 100.0 | 349 | 0.050 | 1.098 | 40.180 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.339 | 1.580 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.584 | 0.810 |
| K02.4 | CALL FOR FIRE | F | 4 | 399 | 8 | 98.03% | 8 | 98.00% | 100.0 | 452 | 0.120 | 1.159 | 66.920 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 658 | 30 | 95.64% | 30 | 95.60% | 100.0 | 349 | 0.040 | 1.377 | 40.490 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.180 | 0.422 | 1.100 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.926 | 41.120 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.320 | 4.420 | 42.180 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 3.109 | 40.640 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.220 | 0.337 | 0.480 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.320 | 0.480 | 0.710 |
| RUN TOTALS | | | | 2,365 | 62 | 97.4% | 62 | 97.4% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s3Mod Seed: 333

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 3

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.080 | 0.542 | 20.490 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.070 | 1.086 | 20.450 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.383 | 0.930 |
| K02.14 | MTO | F | 4 | 226 | 9 | 96.17% | 9 | 96.20% | 100.0 | 481 | 0.130 | 1.238 | 21.060 |
| K02.16 | EOM AND SRVLNC | F | 4 | 314 | 21 | 93.73% | 21 | 93.70% | 100.0 | 349 | 0.050 | 1.828 | 40.440 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.396 | 1.450 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.243 | 0.470 |
| K02.4 | CALL FOR FIRE | F | 4 | 389 | 18 | 95.58% | 18 | 95.60% | 100.0 | 452 | 0.110 | 1.321 | 20.780 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 659 | 29 | 95.78% | 29 | 95.80% | 100.0 | 349 | 0.040 | 1.234 | 20.630 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.363 | 0.740 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.983 | 41.720 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.180 | 0.324 | 0.480 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.760 | 41.020 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.170 | 0.422 | 0.580 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.240 | 0.312 | 0.580 |
| RUN TOTALS | | | | 2,346 | 81 | 96.7% | 81 | 96.7% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s4Mod Seed: 444

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 4

| MsgId: min | | SOS RQMT | NET | (secs) | Met SOS | <u>Destinations Reached, but</u> | | <u>----- All Destinations -----</u> | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|---------------|----------------------|-------------|-----|--------------|-----------|----------------------------------|---|-------------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | | | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 78 | 8 | 90.70% | | 8 | 90.70% | 100.0 | 309 | 0.080 | 3.764 | 40.570 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | | 2 | 97.40% | 100.0 | 338 | 0.050 | 0.882 | 20.540 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.550 | 2.420 |
| K02.14 | MTO | F | 4 | 230 | 5 | 97.87% | | 5 | 97.90% | 100.0 | 481 | 0.120 | 0.878 | 21.090 |
| K02.16 | EOM AND SRVLNC | F | 4 | 323 | 12 | 96.42% | | 12 | 96.40% | 100.0 | 349 | 0.050 | 1.170 | 40.460 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | | 1 | 96.20% | 100.0 | 180 | 0.070 | 1.084 | 20.290 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.356 | 0.480 |
| K02.4 | CALL FOR FIRE | F | 4 | 396 | 11 | 97.30% | | 11 | 97.30% | 100.0 | 452 | 0.120 | 0.987 | 20.640 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 669 | 19 | 97.24% | | 19 | 97.20% | 100.0 | 349 | 0.040 | 1.087 | 62.990 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.327 | 0.570 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.226 | 23.290 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 641 | 0.130 | 4.219 | 20.560 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 255 | 1 | 99.61% | | 1 | 99.60% | 100.0 | 1,989 | 0.590 | 2.495 | 65.830 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 478 | 0.310 | 0.520 | 0.580 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.394 | 0.950 |
| RUN TOTALS | | | | 2,368 | 59 | 97.6% | | 59 | 97.6% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s5Mod Seed: 555

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 5

| MsgId: | | NET | SOS RQMNT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|------------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.050 | 0.540 | 20.920 |
| K02.12 | COMMAND TO FIRE | F | 4 | 68 | 9 | 88.31% | 9 | 88.30% | 100.0 | 338 | 0.060 | 4.371 | 41.360 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.297 | 0.560 |
| K02.14 | MTO | F | 4 | 227 | 8 | 96.60% | 8 | 96.60% | 100.0 | 481 | 0.120 | 1.110 | 21.830 |
| K02.16 | EOM AND SRVLNC | F | 4 | 324 | 11 | 96.72% | 11 | 96.70% | 100.0 | 349 | 0.050 | 1.174 | 40.940 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.427 | 1.600 |
| K02.25 | EOM NOTIFICATION | F | 4 | 15 | 2 | 88.24% | 2 | 88.20% | 100.0 | 180 | 0.070 | 4.063 | 40.530 |
| K02.4 | CALL FOR FIRE | F | 4 | 393 | 14 | 96.56% | 14 | 96.60% | 100.0 | 452 | 0.120 | 1.304 | 40.600 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 654 | 34 | 95.06% | 34 | 95.10% | 100.0 | 349 | 0.040 | 1.453 | 41.080 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.180 | 0.315 | 0.500 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.992 | 41.350 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 1.358 | 2.830 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 2.645 | 40.990 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.230 | 0.420 | 0.580 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.304 | 0.440 |
| RUN TOTALS | | | | 2,348 | 79 | 96.7% | 79 | 96.7% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s6Mod Seed: 666

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 6

| MsgId: | | SOS RQMNT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|---------------------------|-----------|--------------|--------------|------------------------------|----------------------------------|---------------|---------------------------|---------------|-------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 82 | 4 | 95.35% | | 4 | 95.30% | 100.0 | 309 | 0.040 | 1.269 | 20.520 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | | 1 | 98.70% | 100.0 | 338 | 0.050 | 0.575 | 20.930 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.348 | 1.410 |
| K02.14 | MTO | F | 4 | 229 | 6 | 97.45% | | 6 | 97.40% | 100.0 | 481 | 0.130 | 1.055 | 40.330 |
| K02.16 | EOM AND SRVLNC | F | 4 | 319 | 16 | 95.22% | | 16 | 95.20% | 100.0 | 349 | 0.050 | 1.365 | 21.500 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.397 | 1.480 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.170 | 0.359 | 0.520 |
| K02.4 | CALL FOR FIRE | F | 4 | 397 | 10 | 97.54% | | 10 | 97.50% | 100.0 | 452 | 0.120 | 0.929 | 21.180 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 658 | 30 | 95.64% | | 30 | 95.60% | 100.0 | 349 | 0.040 | 1.271 | 21.320 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.190 | 3.895 | 20.980 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 3.044 | 41.200 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 641 | 0.190 | 1.807 | 20.810 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 2.075 | 41.080 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 478 | 0.410 | 0.553 | 0.650 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 0.030 | 0.326 | 0.800 |
| RUN TOTALS | | | 2,360 | 67 | 97.2% | D - 6 | 67 | 97.2% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s7Mod Seed: 777

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.
 MC Retries: 2 Time Between: 20 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 7

| MsgId: | | NET | SOS RQMNT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|---------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.040 | 0.784 | 20.440 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.100 | 1.145 | 20.560 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.366 | 0.760 |
| K02.14 | MTO | F | 4 | 230 | 5 | 97.87% | 5 | 97.90% | 100.0 | 481 | 0.130 | 0.911 | 20.560 |
| K02.16 | EOM AND SRVLNC | F | 4 | 316 | 19 | 94.33% | 19 | 94.30% | 100.0 | 349 | 0.060 | 1.618 | 40.480 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.399 | 1.120 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.277 | 0.650 |
| K02.4 | CALL FOR FIRE | F | 4 | 397 | 10 | 97.54% | 10 | 97.50% | 100.0 | 452 | 0.110 | 0.995 | 40.120 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 663 | 25 | 96.37% | 25 | 96.40% | 100.0 | 349 | 0.040 | 1.178 | 40.930 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.180 | 0.303 | 0.420 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.811 | 41.840 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.130 | 3.214 | 22.760 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.165 | 26.780 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.370 | 0.540 | 0.950 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.070 | 0.380 | 0.950 |
| RUN TOTALS | | | | 2,363 | 64 | 97.4% | 64 | 97.4% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s8Mod Seed: 888

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.
 MC Retries: 2 Time Between: 20 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 8

| MsgId: | | NET | SOS RQMNT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|---------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 78 | 8 | 90.70% | 8 | 90.70% | 100.0 | 309 | 0.030 | 2.648 | 40.120 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.100 | 1.159 | 20.850 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.348 | 0.770 |
| K02.14 | MTO | F | 4 | 230 | 5 | 97.87% | 5 | 97.90% | 100.0 | 481 | 0.110 | 0.893 | 20.620 |
| K02.16 | EOM AND SRVLNC | F | 4 | 323 | 12 | 96.42% | 12 | 96.40% | 100.0 | 349 | 0.050 | 1.177 | 20.940 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.459 | 1.740 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.050 | 1.465 | 20.780 |
| K02.4 | CALL FOR FIRE | F | 4 | 399 | 8 | 98.03% | 8 | 98.00% | 100.0 | 452 | 0.120 | 0.839 | 20.460 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 670 | 18 | 97.38% | 18 | 97.40% | 100.0 | 349 | 0.040 | 0.934 | 23.010 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.210 | 0.338 | 0.500 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.814 | 42.850 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 0.607 | 1.400 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.920 | 41.020 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.190 | 0.373 | 0.600 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.170 | 0.436 | 0.950 |
| RUN TOTALS | | | | 2,372 | 55 | 97.7% | 55 | 97.7% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s9Mod Seed: 999

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 9

| MsgId: | | NET | SOS RQMNT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|------------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.040 | 0.298 | 0.650 |
| K02.12 | COMMAND TO FIRE | F | 4 | 73 | 4 | 94.81% | 4 | 94.80% | 100.0 | 338 | 0.100 | 1.392 | 20.590 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.276 | 0.680 |
| K02.14 | MTO | F | 4 | 223 | 12 | 94.89% | 12 | 94.90% | 100.0 | 481 | 0.120 | 1.490 | 40.390 |
| K02.16 | EOM AND SRVLNC | F | 4 | 323 | 12 | 96.42% | 12 | 96.40% | 100.0 | 349 | 0.060 | 1.103 | 23.040 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.419 | 2.050 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.080 | 1.926 | 20.310 |
| K02.4 | CALL FOR FIRE | F | 4 | 392 | 15 | 96.31% | 15 | 96.30% | 100.0 | 452 | 0.120 | 1.305 | 40.470 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 671 | 17 | 97.53% | 17 | 97.50% | 100.0 | 349 | 0.040 | 0.897 | 22.200 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.110 | 0.437 | 1.000 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 3.201 | 41.190 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 9.346 | 21.200 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.807 | 40.650 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.360 | 0.455 | 0.550 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.296 | 0.750 |
| RUN TOTALS | | | | 2,366 | 61 | 97.5% | 61 | 97.5% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s10Mod Seed: 1010

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.
 MC Retries: 2 Time Between: 20 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 10

| MsgId: | | NET | SOS RQMNT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|---------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 83 | 3 | 96.51% | 3 | 96.50% | 100.0 | 309 | 0.030 | 1.115 | 20.590 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.090 | 0.827 | 20.570 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.268 | 0.720 |
| K02.14 | MTO | F | 4 | 230 | 4 | 98.29% | 5 | 97.90% | 99.6% | 481 | 0.130 | 0.873 | 40.500 |
| K02.16 | EOM AND SRVLNC | F | 4 | 324 | 11 | 96.72% | 11 | 96.70% | 100.0 | 349 | 0.050 | 1.025 | 20.470 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.557 | 2.100 |
| K02.25 | EOM NOTIFICATION | F | 4 | 13 | 4 | 76.47% | 4 | 76.50% | 100.0 | 180 | 0.100 | 5.145 | 20.340 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | 9 | 97.80% | 100.0 | 452 | 0.120 | 0.959 | 40.410 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 666 | 22 | 96.80% | 22 | 96.80% | 100.0 | 349 | 0.030 | 1.051 | 24.870 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.337 | 0.500 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.886 | 43.250 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.130 | 4.263 | 20.520 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.284 | 40.950 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.200 | 0.303 | 0.590 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.420 | 1.350 |
| RUN TOTALS | | | | 2,371 | 55 | 97.7% | 56 | 97.7% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s11Mod Seed: 1111

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.

MC Retries: 2 Time Between: 20 ACK Gen Window: 4

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----|-----------------|---------------------------|--------------|------------------------------|-------------------------------|---------------|------------------------|---------------|-------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.050 | 0.344 | 0.650 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.080 | 0.542 | 20.340 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.252 | 0.500 |
| K02.14 | MTO | F | 4 | 223 | 12 | 94.89% | 12 | 94.90% | 100.0 | 481 | 0.120 | 1.502 | 21.750 |
| K02.16 | EOM AND SRVLNC | F | 4 | 324 | 11 | 96.72% | 11 | 96.70% | 100.0 | 349 | 0.050 | 1.221 | 63.450 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.408 | 1.740 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.150 | 0.598 | 1.010 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.120 | 1.189 | 40.700 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 663 | 25 | 96.37% | 25 | 96.40% | 100.0 | 349 | 0.040 | 1.138 | 22.630 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.220 | 0.373 | 0.500 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.340 | 41.420 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.569 | 1.220 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 2.329 | 23.460 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 3.917 | 21.140 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.363 | 0.730 |
| RUN TOTALS | | | 2,365 | 62 | 97.4% | 62 | 97.4% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s12Mod Seed: 1212

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 12

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.030 | 0.979 | 20.240 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.060 | 0.383 | 0.610 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.295 | 0.630 |
| K02.14 | MTO | F | 4 | 232 | 3 | 98.72% | 3 | 98.70% | 100.0 | 481 | 0.120 | 0.701 | 21.510 |
| K02.16 | EOM AND SRVLNC | F | 4 | 316 | 19 | 94.33% | 19 | 94.30% | 100.0 | 349 | 0.040 | 1.492 | 20.570 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.478 | 2.020 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.140 | 0.352 | 0.670 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.120 | 1.143 | 40.350 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 668 | 20 | 97.09% | 20 | 97.10% | 100.0 | 349 | 0.040 | 0.977 | 40.390 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.170 | 0.340 | 0.530 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.367 | 22.440 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 1.762 | 20.590 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 255 | 1 | 99.61% | 1 | 99.60% | 100.0 | 1,989 | 0.590 | 2.457 | 64.320 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.270 | 0.377 | 0.520 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.160 | 0.434 | 0.520 |
| RUN TOTALS | | | | 2,369 | 58 | 97.6% | 58 | 97.6% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s1Mod Seed: 128

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | SOS RQMT (secs) | Met SOS | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT TIMES | | |
|--------|----------------------|-----------------------|---------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------------|-------|--------|
| | | | | NET | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 81 | 5 | 94.19% | 5 | 94.20% | 100.0 | 309 | 0.060 | 1.467 | 20.420 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.150 | 0.634 | 20.620 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 0 | 100.00% | 1 | 96.20% | 96.2% | 210 | 0.040 | 0.355 | 1.140 |
| K02.14 | MTO | F | 4 | 230 | 5 | 97.87% | 5 | 97.90% | 100.0 | 481 | 0.120 | 0.914 | 40.660 |
| K02.16 | EOM AND SRVLNC | F | 4 | 335 | 0 | 100.00% | 0 | 100.00% | 100.0 | 349 | 0.040 | 0.366 | 1.550 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.289 | 0.630 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.320 | 0.480 |
| K02.4 | CALL FOR FIRE | F | 4 | 393 | 14 | 96.56% | 14 | 96.60% | 100.0 | 452 | 0.110 | 1.065 | 20.670 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 678 | 10 | 98.55% | 10 | 98.50% | 100.0 | 349 | 0.040 | 0.623 | 20.520 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.338 | 1.030 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.024 | 22.070 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 0.581 | 0.930 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 1.954 | 21.680 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.160 | 0.360 | 0.600 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.276 | 0.920 |
| | | RUN TOTALS | | 2,391 | 35 | 98.6% | 36 | 98.5% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s2Mod Seed: 222

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 2

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 79 | 7 | 91.86% | 7 | 91.90% | 100.0 | 309 | 0.030 | 1.994 | 20.200 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.100 | 0.553 | 20.490 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.294 | 0.630 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.120 | 1.001 | 20.890 |
| K02.16 | EOM AND SRVLNC | F | 4 | 333 | 2 | 99.40% | 2 | 99.40% | 100.0 | 349 | 0.050 | 0.428 | 20.480 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.367 | 0.820 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.317 | 0.460 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | 9 | 97.80% | 100.0 | 452 | 0.110 | 0.842 | 20.670 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 670 | 18 | 97.38% | 18 | 97.40% | 100.0 | 349 | 0.040 | 0.886 | 40.130 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.413 | 1.170 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.466 | 41.330 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.802 | 2.070 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 2.129 | 40.810 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.130 | 0.295 | 0.600 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.254 | 0.520 |
| RUN TOTALS | | 2,383 | | 44 | 98.2% | 44 | 98.2% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s3Mod Seed: 333

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 3

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 79 | 7 | 91.86% | 7 | 91.90% | 100.0 | 309 | 0.050 | 1.878 | 20.290 |
| K02.12 | COMMAND TO FIRE | F | 4 | 72 | 5 | 93.51% | 5 | 93.50% | 100.0 | 338 | 0.040 | 1.586 | 20.460 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 0 | 100.00% | 1 | 96.20% | 96.2% | 210 | 0.060 | 0.372 | 0.860 |
| K02.14 | MTO | F | 4 | 231 | 4 | 98.30% | 4 | 98.30% | 100.0 | 481 | 0.130 | 0.765 | 20.390 |
| K02.16 | EOM AND SRVLNC | F | 4 | 325 | 10 | 97.01% | 10 | 97.00% | 100.0 | 349 | 0.050 | 0.937 | 20.540 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.271 | 0.970 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.288 | 0.560 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.120 | 1.035 | 20.950 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 676 | 12 | 98.26% | 12 | 98.30% | 100.0 | 349 | 0.040 | 0.670 | 20.440 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.315 | 0.750 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.596 | 23.180 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.190 | 0.497 | 0.930 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 2.858 | 42.140 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.220 | 0.348 | 0.480 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.399 | 1.000 |
| RUN TOTALS | | 2,375 | | 51 | 97.9% | 52 | 97.9% | 99.96% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s4Mod Seed: 444

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 4

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.070 | 0.295 | 0.920 |
| K02.12 | COMMAND TO FIRE | F | 4 | 73 | 4 | 94.81% | 4 | 94.80% | 100.0 | 338 | 0.050 | 1.593 | 40.300 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.283 | 0.500 |
| K02.14 | MTO | F | 4 | 226 | 9 | 96.17% | 9 | 96.20% | 100.0 | 481 | 0.130 | 1.190 | 20.820 |
| K02.16 | EOM AND SRVLNC | F | 4 | 334 | 1 | 99.70% | 1 | 99.70% | 100.0 | 349 | 0.060 | 0.396 | 20.880 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.278 | 0.480 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.229 | 0.380 |
| K02.4 | CALL FOR FIRE | F | 4 | 404 | 3 | 99.26% | 3 | 99.30% | 100.0 | 452 | 0.120 | 0.532 | 20.410 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 664 | 24 | 96.51% | 24 | 96.50% | 100.0 | 349 | 0.040 | 1.114 | 40.420 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.247 | 0.400 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.684 | 22.890 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 0.474 | 0.790 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.363 | 40.980 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.310 | 0.425 | 0.520 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.170 | 0.407 | 0.520 |
| RUN TOTALS | | 2,386 | | 41 | 98.3% | 41 | 98.3% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s5Mod Seed: 555

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 5

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.060 | 0.817 | 20.270 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.120 | 0.836 | 20.890 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.270 | 0.970 |
| K02.14 | MTO | F | 4 | 224 | 11 | 95.32% | 11 | 95.30% | 100.0 | 481 | 0.120 | 1.391 | 40.570 |
| K02.16 | EOM AND SRVLNC | F | 4 | 333 | 2 | 99.40% | 2 | 99.40% | 100.0 | 349 | 0.040 | 0.464 | 40.400 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.268 | 0.600 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.351 | 0.600 |
| K02.4 | CALL FOR FIRE | F | 4 | 402 | 5 | 98.77% | 5 | 98.80% | 100.0 | 452 | 0.120 | 0.708 | 40.240 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 666 | 22 | 96.80% | 22 | 96.80% | 100.0 | 349 | 0.040 | 0.973 | 21.150 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.350 | 0.740 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.460 | 23.350 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.250 | 0.611 | 0.940 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 1.915 | 22.530 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.150 | 0.338 | 0.550 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.221 | 0.500 |
| RUN TOTALS | | 2,383 | | 44 | 98.2% | 44 | 98.2% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s6Mod Seed: 666

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 6

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.070 | 0.224 | 0.480 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.100 | 1.110 | 20.460 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.285 | 0.500 |
| K02.14 | MTO | F | 4 | 233 | 2 | 99.15% | 2 | 99.10% | 100.0 | 481 | 0.120 | 0.555 | 20.670 |
| K02.16 | EOM AND SRVLNC | F | 4 | 322 | 13 | 96.12% | 13 | 96.10% | 100.0 | 349 | 0.040 | 1.137 | 20.410 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.315 | 0.610 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.229 | 0.470 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.110 | 1.086 | 40.370 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 668 | 20 | 97.09% | 20 | 97.10% | 100.0 | 349 | 0.040 | 0.942 | 40.470 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.467 | 1.170 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.064 | 22.350 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.160 | 0.382 | 0.560 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.145 | 22.250 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.130 | 0.283 | 0.450 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.170 | 0.347 | 0.510 |
| RUN TOTALS | | 2,376 | | 51 | 97.9% | 51 | 97.9% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s7Mod Seed: 777

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 7

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|--------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.060 | 1.689 | 20.280 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.070 | 1.952 | 63.340 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.326 | 1.170 |
| K02.14 | MTO | F | 4 | 226 | 9 | 96.17% | 9 | 96.20% | 100.0 | 481 | 0.130 | 1.208 | 22.100 |
| K02.16 | EOM AND SRVLNC | F | 4 | 331 | 4 | 98.81% | 4 | 98.80% | 100.0 | 349 | 0.050 | 0.560 | 20.630 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.263 | 0.660 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.244 | 0.500 |
| K02.4 | CALL FOR FIRE | F | 4 | 401 | 6 | 98.53% | 6 | 98.50% | 100.0 | 452 | 0.120 | 0.698 | 20.490 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 663 | 25 | 96.37% | 25 | 96.40% | 100.0 | 349 | 0.030 | 1.038 | 21.190 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.518 | 1.600 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.340 | 23.140 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.130 | 0.905 | 3.260 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 2.333 | 41.070 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.360 | 0.493 | 0.600 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.030 | 0.270 | 0.450 |
| RUN TOTALS | | 2,374 | | 53 | 97.8% | | 53 | 97.8% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s8Mod Seed: 888

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 8

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.080 | 0.874 | 40.450 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.080 | 0.531 | 20.360 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.281 | 0.620 |
| K02.14 | MTO | F | 4 | 231 | 4 | 98.30% | 4 | 98.30% | 100.0 | 481 | 0.120 | 0.746 | 20.550 |
| K02.16 | EOM AND SRVLNC | F | 4 | 316 | 19 | 94.33% | 19 | 94.30% | 100.0 | 349 | 0.050 | 1.492 | 20.900 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.030 | 1.035 | 20.220 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.210 | 0.390 | 0.500 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | 9 | 97.80% | 100.0 | 452 | 0.110 | 1.037 | 40.600 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 669 | 19 | 97.24% | 19 | 97.20% | 100.0 | 349 | 0.040 | 0.917 | 40.250 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.290 | 0.530 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.338 | 22.290 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 3.177 | 20.350 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.831 | 23.300 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.270 | 0.412 | 0.580 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.329 | 0.530 |
| RUN TOTALS | | 2,373 | | 54 | 97.8% | 54 | 97.8% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s9Mod Seed: 999

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 9

| MsgId: | | SOS RQMT | | Destinations Reached, | | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|----------|--------------------------------------|--------------|---------------|--------------------------|----------------------|------------|------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.110 | 0.360 | 0.610 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.120 | 0.306 | 0.550 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.368 | 2.200 |
| K02.14 | MTO | F | 4 | 231 | 4 | 98.30% | 4 | 98.30% | 100.0 | 481 | 0.120 | 0.797 | 40.540 |
| K02.16 | EOM AND SRVLNC | F | 4 | 329 | 6 | 98.21% | 6 | 98.20% | 100.0 | 349 | 0.050 | 0.707 | 20.540 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.350 | 0.950 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.332 | 0.490 |
| K02.4 | CALL FOR FIRE | F | 4 | 401 | 6 | 98.53% | 6 | 98.50% | 100.0 | 452 | 0.110 | 0.679 | 20.820 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 670 | 18 | 97.38% | 18 | 97.40% | 100.0 | 349 | 0.040 | 0.891 | 40.340 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.370 | 0.473 | 0.540 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.018 | 21.990 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.430 | 0.504 | 0.560 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.008 | 21.730 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.310 | 0.418 | 0.520 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.316 | 0.520 |
| RUN TOTALS | | 2,393 | | 34 | 98.6% | | 34 | 98.6% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s10Mod Seed: 1010

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 10

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 77 | 9 | 89.53% | 9 | 89.50% | 100.0 | 309 | 0.080 | 2.395 | 20.510 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.050 | 1.160 | 20.450 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.346 | 0.800 |
| K02.14 | MTO | F | 4 | 229 | 6 | 97.45% | 6 | 97.40% | 100.0 | 481 | 0.120 | 0.901 | 20.680 |
| K02.16 | EOM AND SRVLNC | F | 4 | 322 | 13 | 96.12% | 13 | 96.10% | 100.0 | 349 | 0.040 | 1.169 | 40.480 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.317 | 0.820 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.364 | 0.590 |
| K02.4 | CALL FOR FIRE | F | 4 | 401 | 6 | 98.53% | 6 | 98.50% | 100.0 | 452 | 0.110 | 0.694 | 20.590 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 676 | 12 | 98.26% | 12 | 98.30% | 100.0 | 349 | 0.040 | 0.740 | 41.210 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.442 | 0.790 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.595 | 22.330 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.452 | 0.620 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.164 | 23.320 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.170 | 0.342 | 0.550 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.230 | 0.377 | 0.650 |
| RUN TOTALS | | 2,378 | | 49 | 98.0% | 49 | 98.0% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s11Mod Seed: 1111

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 11

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.050 | 0.545 | 20.300 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.080 | 0.335 | 0.620 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.330 | 0.640 |
| K02.14 | MTO | F | 4 | 227 | 8 | 96.60% | 8 | 96.60% | 100.0 | 481 | 0.120 | 1.077 | 20.960 |
| K02.16 | EOM AND SRVLNC | F | 4 | 332 | 3 | 99.10% | 3 | 99.10% | 100.0 | 349 | 0.050 | 0.616 | 40.680 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.299 | 0.500 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.317 | 0.790 |
| K02.4 | CALL FOR FIRE | F | 4 | 400 | 7 | 98.28% | 7 | 98.30% | 100.0 | 452 | 0.120 | 0.733 | 20.550 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 662 | 26 | 96.22% | 26 | 96.20% | 100.0 | 349 | 0.040 | 1.160 | 40.290 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.110 | 0.315 | 0.540 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.175 | 23.540 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.419 | 0.630 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.447 | 21.790 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.170 | 0.437 | 0.700 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.296 | 0.520 |
| RUN TOTALS | | 2,382 | | 45 | 98.1% | 45 | 98.1% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s12Mod Seed: 1212

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 12

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.080 | 0.567 | 20.380 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.140 | 0.314 | 0.530 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.303 | 1.120 |
| K02.14 | MTO | F | 4 | 231 | 4 | 98.30% | 4 | 98.30% | 100.0 | 481 | 0.120 | 0.751 | 21.190 |
| K02.16 | EOM AND SRVLNC | F | 4 | 321 | 14 | 95.82% | 14 | 95.80% | 100.0 | 349 | 0.060 | 1.315 | 40.570 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.267 | 0.520 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.224 | 0.500 |
| K02.4 | CALL FOR FIRE | F | 4 | 402 | 5 | 98.77% | 5 | 98.80% | 100.0 | 452 | 0.120 | 0.649 | 20.610 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 667 | 21 | 96.95% | 21 | 96.90% | 100.0 | 349 | 0.040 | 0.987 | 40.100 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.210 | 0.458 | 1.100 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.599 | 95.890 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.370 | 0.454 | 0.550 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 255 | 1 | 99.61% | 1 | 99.60% | 100.0 | 1,989 | 0.590 | 2.594 | 64.190 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.120 | 0.337 | 0.510 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.356 | 0.520 |
| RUN TOTALS | | 2,381 | | 46 | 98.1% | 46 | 98.1% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s1Mod Seed: 128

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|--------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 82 | 4 | 95.35% | 4 | 95.30% | 100.0 | 309 | 0.070 | 2.254 67.890 |
| K02.12 | COMMAND TO FIRE | F | 4 | 70 | 7 | 90.91% | 7 | 90.90% | 100.0 | 338 | 0.120 | 2.753 40.590 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.822 2.050 |
| K02.14 | MTO | F | 4 | 224 | 11 | 95.32% | 11 | 95.30% | 100.0 | 481 | 0.230 | 1.797 23.880 |
| K02.16 | EOM AND SRVLNC | F | 4 | 331 | 4 | 98.81% | 4 | 98.80% | 100.0 | 349 | 0.040 | 0.840 20.760 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.532 1.760 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.180 | 0.507 1.420 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | 9 | 97.80% | 100.0 | 452 | 0.190 | 1.212 22.310 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 656 | 32 | 95.35% | 32 | 95.30% | 100.0 | 349 | 0.040 | 1.583 22.830 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.542 0.930 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.579 43.200 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.490 | 3.097 21.030 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.010 | 3.872 27.080 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.370 | 0.585 0.850 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.110 | 0.546 1.780 |
| RUN TOTALS | | 2,360 | | 67 | 97.2% | 67 | 97.2% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s2Mod Seed: 222

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 2

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|--------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 77 | 9 | 89.53% | 9 | 89.50% | 100.0 | 309 | 0.070 | 2.828 21.000 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.150 | 1.140 42.530 |
| K02.13 | MISSION CLEARANCE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 210 | 0.080 | 2.065 20.980 |
| K02.14 | MTO | F | 4 | 224 | 11 | 95.32% | 11 | 95.30% | 100.0 | 481 | 0.190 | 1.761 40.790 |
| K02.16 | EOM AND SRVLNC | F | 4 | 322 | 13 | 96.12% | 13 | 96.10% | 100.0 | 349 | 0.070 | 1.401 20.900 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.521 1.660 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.480 | 0.878 1.120 |
| K02.4 | CALL FOR FIRE | F | 4 | 397 | 10 | 97.54% | 10 | 97.50% | 100.0 | 452 | 0.190 | 1.331 21.460 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 649 | 39 | 94.33% | 39 | 94.30% | 100.0 | 349 | 0.050 | 1.768 41.310 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.490 0.880 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 4.465 46.100 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 2.174 6.670 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 255 | 1 | 99.61% | 1 | 99.60% | 100.0 | 1,989 | 1.010 | 3.952 64.970 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.620 | 0.778 1.100 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.230 | 0.710 3.770 |
| RUN TOTALS | | 2,341 | | 86 | 96.5% | 86 | 96.5% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s3Mod Seed: 333

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 3

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.030 | 1.090 | 20.140 |
| K02.12 | COMMAND TO FIRE | F | 4 | 71 | 6 | 92.21% | 6 | 92.20% | 100.0 | 338 | 0.040 | 2.601 | 40.960 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.050 | 1.688 | 20.890 |
| K02.14 | MTO | F | 4 | 223 | 11 | 95.30% | 12 | 94.90% | 99.6% | 481 | 0.210 | 1.668 | 21.380 |
| K02.16 | EOM AND SRVLNC | F | 4 | 319 | 16 | 95.22% | 16 | 95.20% | 100.0 | 349 | 0.050 | 1.714 | 21.380 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.090 | 0.642 | 1.360 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.705 | 1.040 |
| K02.4 | CALL FOR FIRE | F | 4 | 392 | 15 | 96.31% | 15 | 96.30% | 100.0 | 452 | 0.200 | 1.557 | 21.880 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 646 | 42 | 93.90% | 42 | 93.90% | 100.0 | 349 | 0.040 | 2.040 | 42.100 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.398 | 1.040 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.413 | 23.860 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.540 | 1.386 | 3.210 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 4.153 | 42.730 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.280 | 0.442 | 0.620 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.941 | 2.920 |
| RUN TOTALS | | 2,334 | | 92 | 96.2% | | 93 | 96.2% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s4Mod Seed: 444

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 4

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|--------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 74 | 12 | 86.05% | 12 | 86.00% | 100.0 | 309 | 0.090 | 2.335 | 20.330 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.140 | 1.087 | 21.950 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.625 | 1.180 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.190 | 1.911 | 41.330 |
| K02.16 | EOM AND SRVLNC | F | 4 | 322 | 13 | 96.12% | 13 | 96.10% | 100.0 | 349 | 0.050 | 1.814 | 40.090 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.090 | 0.642 | 1.710 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.260 | 0.821 | 1.290 |
| K02.4 | CALL FOR FIRE | F | 4 | 382 | 24 | 94.09% | 25 | 93.90% | 99.8% | 452 | 0.190 | 2.181 | 63.590 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 642 | 46 | 93.31% | 46 | 93.30% | 100.0 | 349 | 0.050 | 2.084 | 40.570 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.470 | 0.707 | 0.890 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.609 | 43.770 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.230 | 0.765 | 1.550 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 255 | 1 | 99.61% | 1 | 99.60% | 100.0 | 1,989 | 1.010 | 4.389 | 64.110 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.660 | 1.018 | 1.480 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.310 | 0.760 | 1.920 |
| RUN TOTALS | | 2,321 | | 105 | 95.7% | | 106 | 95.6% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s5Mod Seed: 555

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 5

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|--------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 78 | 8 | 90.70% | 8 | 90.70% | 100.0 | 309 | 0.070 | 2.746 | 40.500 |
| K02.12 | COMMAND TO FIRE | F | 4 | 65 | 12 | 84.42% | 12 | 84.40% | 100.0 | 338 | 0.040 | 2.414 | 20.950 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.080 | 0.678 | 1.910 |
| K02.14 | MTO | F | 4 | 222 | 13 | 94.47% | 13 | 94.50% | 100.0 | 481 | 0.200 | 2.046 | 40.750 |
| K02.16 | EOM AND SRVLNC | F | 4 | 329 | 6 | 98.21% | 6 | 98.20% | 100.0 | 349 | 0.070 | 1.073 | 20.580 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.642 | 1.620 |
| K02.25 | EOM NOTIFICATION | F | 4 | 12 | 5 | 70.59% | 5 | 70.60% | 100.0 | 180 | 0.150 | 6.512 | 21.000 |
| K02.4 | CALL FOR FIRE | F | 4 | 388 | 19 | 95.33% | 19 | 95.30% | 100.0 | 452 | 0.190 | 1.861 | 40.830 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 643 | 45 | 93.46% | 45 | 93.50% | 100.0 | 349 | 0.040 | 2.063 | 41.670 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.220 | 0.682 | 0.890 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 4.673 | 39.210 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.350 | 2.718 | 5.030 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.010 | 4.449 | 57.650 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.450 | 0.893 | 1.070 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.070 | 0.840 | 2.980 |
| RUN TOTALS | | 2,319 | | 108 | 95.6% | | 108 | 95.6% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s6Mod Seed: 666

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 6

| MsgId: | | SOS RQMT | | Destinations Reached, | | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------|---------|-------------------------------|--------------|---------------|--------------------------|----------------------|------------|------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 81 | 5 | 94.19% | 5 | 94.20% | 100.0 | 309 | 0.080 | 1.909 | 22.220 |
| K02.12 | COMMAND TO FIRE | F | 4 | 70 | 7 | 90.91% | 7 | 90.90% | 100.0 | 338 | 0.050 | 2.355 | 20.500 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.735 | 2.100 |
| K02.14 | MTO | F | 4 | 222 | 13 | 94.47% | 13 | 94.50% | 100.0 | 481 | 0.190 | 1.867 | 21.470 |
| K02.16 | EOM AND SRVLNC | F | 4 | 318 | 17 | 94.93% | 17 | 94.90% | 100.0 | 349 | 0.050 | 1.745 | 40.400 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.675 | 1.890 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.795 | 2.750 |
| K02.4 | CALL FOR FIRE | F | 4 | 393 | 14 | 96.56% | 14 | 96.60% | 100.0 | 452 | 0.190 | 1.600 | 22.070 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 657 | 31 | 95.49% | 31 | 95.50% | 100.0 | 349 | 0.040 | 1.436 | 22.720 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.430 | 0.750 | 1.030 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.863 | 45.080 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.510 | 1.199 | 2.260 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 4.060 | 41.090 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.390 | 0.802 | 1.080 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.110 | 0.497 | 0.950 |
| RUN TOTALS | | 2,340 | | 87 | 96.4% | | 87 | 96.4% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s7Mod Seed: 777

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 7

| MsgId: | | SOS RQMT | | Destinations Reached, | | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|-----------|-------------------------------|---------------|-------|-------------------|---------------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 81 | 5 | 94.19% | 5 | 94.20% | 100.0 | 309 | 0.120 | 1.749 | 20.120 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.190 | 0.655 | 1.170 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.491 | 1.640 |
| K02.14 | MTO | F | 4 | 221 | 14 | 94.04% | 14 | 94.00% | 100.0 | 481 | 0.190 | 1.996 | 21.450 |
| K02.16 | EOM AND SRVLNC | F | 4 | 315 | 19 | 94.31% | 20 | 94.00% | 99.7% | 349 | 0.070 | 3.865 | 272.70 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.090 | 0.755 | 1.730 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.070 | 1.522 | 20.770 |
| K02.4 | CALL FOR FIRE | F | 4 | 396 | 11 | 97.30% | 11 | 97.30% | 100.0 | 452 | 0.190 | 1.508 | 40.810 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 653 | 35 | 94.91% | 35 | 94.90% | 100.0 | 349 | 0.040 | 1.708 | 40.740 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.447 | 1.030 |
| K02.11 | AMMO INVENTORY | O | 600 | 230 | 0 | 100.00% | 2 | 99.10% | 99.1% | 3,005 | 1.520 | 4.738 | 49.300 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 3.039 | 10.180 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 254 | 0 | 100.00% | 2 | 99.20% | 99.2% | 1,989 | 1.020 | 3.971 | 47.700 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 1.080 | 1.228 | 1.480 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.240 | 0.699 | 4.050 |
| RUN TOTALS | | 2,337 | | 85 | 96.5% | 90 | 96.3% | 99.79% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s8Mod Seed: 888

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 8

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 76 | 10 | 88.37% | 10 | 88.40% | 100.0 | 309 | 0.220 | 3.032 | 21.850 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.040 | 1.041 | 21.210 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.775 | 3.610 |
| K02.14 | MTO | F | 4 | 221 | 14 | 94.04% | 14 | 94.00% | 100.0 | 481 | 0.200 | 1.987 | 21.440 |
| K02.16 | EOM AND SRVLNC | F | 4 | 322 | 13 | 96.12% | 13 | 96.10% | 100.0 | 349 | 0.070 | 1.633 | 40.890 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 0 | 100.00% | 1 | 96.20% | 96.2% | 180 | 0.030 | 0.549 | 0.950 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.651 | 1.330 |
| K02.4 | CALL FOR FIRE | F | 4 | 395 | 12 | 97.05% | 12 | 97.10% | 100.0 | 452 | 0.190 | 1.490 | 22.170 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 660 | 28 | 95.93% | 28 | 95.90% | 100.0 | 349 | 0.040 | 1.426 | 24.840 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.180 | 0.492 | 1.000 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.086 | 37.800 |
| K02.15 | FS COORD MEASURES | O | 60 | 15 | 1 | 93.75% | 1 | 93.80% | 100.0 | 641 | 0.200 | 5.498 | 62.810 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 4.135 | 49.200 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.630 | 0.827 | 1.150 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.691 | 1.930 |
| RUN TOTALS | | 2,346 | | 80 | 96.7% | | 81 | 96.7% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s9Mod Seed: 999

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 9

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.090 | 1.033 | 21.740 |
| K02.12 | COMMAND TO FIRE | F | 4 | 68 | 9 | 88.31% | 9 | 88.30% | 100.0 | 338 | 0.170 | 2.990 | 20.980 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.080 | 0.657 | 1.620 |
| K02.14 | MTO | F | 4 | 223 | 11 | 95.30% | 12 | 94.90% | 99.6% | 481 | 0.200 | 1.628 | 22.570 |
| K02.16 | EOM AND SRVLNC | F | 4 | 329 | 6 | 98.21% | 6 | 98.20% | 100.0 | 349 | 0.050 | 1.028 | 20.950 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.768 | 2.760 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.215 | 0.680 |
| K02.4 | CALL FOR FIRE | F | 4 | 387 | 20 | 95.09% | 20 | 95.10% | 100.0 | 452 | 0.190 | 1.965 | 42.890 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 638 | 50 | 92.73% | 50 | 92.70% | 100.0 | 349 | 0.040 | 1.971 | 40.390 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.775 | 2.840 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.455 | 43.060 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.220 | 0.504 | 1.820 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.010 | 3.757 | 24.240 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.360 | 0.465 | 0.670 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.526 | 0.880 |
| RUN TOTALS | | 2,329 | | 97 | 96.0% | 98 | 96.0% | 99.96% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s10Mod Seed: 1010

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 10

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|--------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 78 | 8 | 90.70% | 8 | 90.70% | 100.0 | 309 | 0.080 | 2.481 | 22.410 |
| K02.12 | COMMAND TO FIRE | F | 4 | 71 | 6 | 92.21% | 6 | 92.20% | 100.0 | 338 | 0.050 | 2.099 | 20.780 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.715 | 2.250 |
| K02.14 | MTO | F | 4 | 222 | 13 | 94.47% | 13 | 94.50% | 100.0 | 481 | 0.200 | 2.009 | 41.910 |
| K02.16 | EOM AND SRVLNC | F | 4 | 310 | 24 | 92.81% | 25 | 92.50% | 99.7% | 349 | 0.040 | 2.034 | 22.220 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.685 | 1.600 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.150 | 2.669 | 20.670 |
| K02.4 | CALL FOR FIRE | F | 4 | 383 | 23 | 94.33% | 24 | 94.10% | 99.8% | 452 | 0.190 | 1.928 | 63.160 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 655 | 33 | 95.20% | 33 | 95.20% | 100.0 | 349 | 0.040 | 1.797 | 41.250 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.447 | 0.650 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 4.230 | 42.500 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.585 | 0.690 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.030 | 3.585 | 24.380 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.450 | 0.895 | 1.080 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.961 | 2.220 |
| RUN TOTALS | | 2,317 | | 108 | 95.5% | | 110 | 95.5% | 99.92% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s11Mod Seed: 1111

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 11

| MsgId: | | SOS RQMT | | Destinations Reached, | | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|---------|-------------------------------|--------------|---------------|-------------------|---------------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.060 | 2.251 | 20.720 |
| K02.12 | COMMAND TO FIRE | F | 4 | 69 | 8 | 89.61% | 8 | 89.60% | 100.0 | 338 | 0.050 | 2.805 | 21.600 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.430 | 1.110 |
| K02.14 | MTO | F | 4 | 222 | 13 | 94.47% | 13 | 94.50% | 100.0 | 481 | 0.190 | 1.996 | 40.470 |
| K02.16 | EOM AND SRVLNC | F | 4 | 322 | 13 | 96.12% | 13 | 96.10% | 100.0 | 349 | 0.060 | 1.570 | 21.030 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.587 | 1.530 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.140 | 1.144 | 2.390 |
| K02.4 | CALL FOR FIRE | F | 4 | 392 | 15 | 96.31% | 15 | 96.30% | 100.0 | 452 | 0.190 | 1.574 | 40.680 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 652 | 36 | 94.77% | 36 | 94.80% | 100.0 | 349 | 0.040 | 1.949 | 41.060 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.220 | 0.565 | 0.950 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.835 | 25.660 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.250 | 1.511 | 4.530 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 4.251 | 41.420 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.330 | 0.557 | 0.850 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.496 | 2.770 |
| RUN TOTALS | | 2,336 | | 91 | 96.3% | | 91 | 96.3% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s12Mod Seed: 1212

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on Two Needlines. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 12

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT TIMES | | | |
|-------------------|----------------------|-------------|---------------------------|--------------|-----------|--------------|------------------------------|----------------------------------|--------------|---------------------------|---------------------|-------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 83 | 3 | 96.51% | | 3 | 96.50% | 100.0 | 309 | 0.100 | 1.643 | 20.640 |
| K02.12 | COMMAND TO FIRE | F | 4 | 69 | 8 | 89.61% | | 8 | 89.60% | 100.0 | 338 | 0.070 | 2.694 | 22.650 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.763 | 2.290 |
| K02.14 | MTO | F | 4 | 221 | 13 | 94.44% | | 14 | 94.00% | 99.6% | 481 | 0.190 | 2.146 | 64.290 |
| K02.16 | EOM AND SRVLNC | F | 4 | 321 | 14 | 95.82% | | 14 | 95.80% | 100.0 | 349 | 0.040 | 1.414 | 66.080 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.678 | 1.480 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.486 | 0.960 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | | 9 | 97.80% | 100.0 | 452 | 0.190 | 1.299 | 21.150 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 667 | 21 | 96.95% | | 21 | 96.90% | 100.0 | 349 | 0.040 | 1.365 | 21.600 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.492 | 0.880 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 4.474 | 41.940 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 641 | 0.270 | 0.746 | 1.680 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 1,989 | 1.030 | 3.673 | 30.350 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 478 | 0.520 | 1.155 | 2.050 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.669 | 2.920 |
| RUN TOTALS | | | | 2,358 | 68 | 97.2% | | 69 | 97.2% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s1Mod Seed: 128

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
 SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
 both the FA Bn & all other FS assets.
 MC Retries: 2 Time Between: 20 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|--------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.230 | 1.666 40.910 |
| K02.12 | COMMAND TO FIRE | F | 4 | 50 | 27 | 64.94% | 27 | 64.90% | 100.0 | 338 | 0.330 | 4.688 28.600 |
| K02.13 | MISSION CLEARANCE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 210 | 0.070 | 1.966 8.880 |
| K02.14 | MTO | F | 4 | 189 | 45 | 80.77% | 46 | 80.40% | 99.6% | 481 | 0.360 | 5.017 68.290 |
| K02.16 | EOM AND SRVLNC | F | 4 | 259 | 76 | 77.31% | 76 | 77.30% | 100.0 | 349 | 0.040 | 4.973 52.590 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.070 | 1.582 5.430 |
| K02.25 | EOM NOTIFICATION | F | 4 | 4 | 13 | 23.53% | 13 | 23.50% | 100.0 | 180 | 0.860 | 5.681 14.560 |
| K02.4 | CALL FOR FIRE | F | 4 | 343 | 64 | 84.28% | 64 | 84.30% | 100.0 | 452 | 0.340 | 4.128 63.550 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 521 | 167 | 75.73% | 167 | 75.70% | 100.0 | 349 | 0.040 | 5.111 62.460 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.170 | 0.563 1.000 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 3.808 25.980 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.692 0.980 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 3.793 26.800 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.310 | 1.130 1.900 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.525 0.940 |
| RUN TOTALS | | 2,027 | | 399 | 83.6% | 400 | 83.5% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s2Mod Seed: 222

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 2

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.080 | 0.997 | 2.200 |
| K02.12 | COMMAND TO FIRE | F | 4 | 61 | 16 | 79.22% | 16 | 79.20% | 100.0 | 338 | 0.130 | 3.500 | 63.220 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.140 | 1.498 | 3.470 |
| K02.14 | MTO | F | 4 | 202 | 33 | 85.96% | 33 | 86.00% | 100.0 | 481 | 0.360 | 3.328 | 24.690 |
| K02.16 | EOM AND SRVLNC | F | 4 | 259 | 76 | 77.31% | 76 | 77.30% | 100.0 | 349 | 0.090 | 5.824 | 42.120 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 180 | 0.310 | 3.194 | 20.810 |
| K02.25 | EOM NOTIFICATION | F | 4 | 15 | 2 | 88.24% | 2 | 88.20% | 100.0 | 180 | 0.150 | 3.065 | 17.260 |
| K02.4 | CALL FOR FIRE | F | 4 | 330 | 77 | 81.08% | 77 | 81.10% | 100.0 | 452 | 0.330 | 4.827 | 63.240 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 533 | 155 | 77.47% | 155 | 77.50% | 100.0 | 349 | 0.050 | 4.358 | 64.340 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.290 | 0.753 | 1.500 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 3.813 | 24.010 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.968 | 2.400 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.010 | 3.719 | 26.390 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.310 | 0.530 | 0.770 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.220 | 1.126 | 3.370 |
| RUN TOTALS | | 2,066 | | 361 | 85.1% | 361 | 85.1% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s3Mod Seed: 333

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 3

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.060 | 1.708 | 20.720 |
| K02.12 | COMMAND TO FIRE | F | 4 | 63 | 14 | 81.82% | 14 | 81.80% | 100.0 | 338 | 0.180 | 6.508 | 193.37 |
| K02.13 | MISSION CLEARANCE | F | 4 | 21 | 5 | 80.77% | 5 | 80.80% | 100.0 | 210 | 0.130 | 3.127 | 22.460 |
| K02.14 | MTO | F | 4 | 184 | 47 | 79.65% | 51 | 78.30% | 98.3% | 481 | 0.380 | 4.345 | 62.610 |
| K02.16 | EOM AND SRVLNC | F | 4 | 231 | 99 | 70.00% | 104 | 69.00% | 98.5% | 349 | 0.080 | 7.375 | 69.760 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 180 | 0.290 | 1.504 | 4.600 |
| K02.25 | EOM NOTIFICATION | F | 4 | 10 | 7 | 58.82% | 7 | 58.80% | 100.0 | 180 | 0.530 | 3.381 | 9.150 |
| K02.4 | CALL FOR FIRE | F | 4 | 326 | 76 | 81.09% | 81 | 80.10% | 98.8% | 452 | 0.350 | 4.327 | 62.990 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 519 | 159 | 76.55% | 169 | 75.40% | 98.5% | 349 | 0.070 | 4.970 | 56.250 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.640 | 1.275 | 2.560 |
| K02.11 | AMMO INVENTORY | O | 600 | 227 | 0 | 100.00% | 5 | 97.80% | 97.8% | 3,005 | 1.520 | 5.558 | 58.780 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 1.129 | 2.640 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 251 | 0 | 100.00% | 5 | 98.00% | 98.0% | 1,989 | 1.020 | 4.904 | 48.400 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.460 | 0.893 | 1.470 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.538 | 0.970 |
| RUN TOTALS | | | | 1,982 | 411 | 82.8% | 445 | 81.7% | 98.60% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s4Mod Seed: 444

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 4

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.260 | 1.509 | 21.570 |
| K02.12 | COMMAND TO FIRE | F | 4 | 62 | 15 | 80.52% | 15 | 80.50% | 100.0 | 338 | 0.210 | 6.317 | 40.150 |
| K02.13 | MISSION CLEARANCE | F | 4 | 20 | 6 | 76.92% | 6 | 76.90% | 100.0 | 210 | 0.070 | 4.102 | 20.820 |
| K02.14 | MTO | F | 4 | 186 | 48 | 79.49% | 49 | 79.10% | 99.6% | 481 | 0.340 | 4.139 | 63.740 |
| K02.16 | EOM AND SRVLNC | F | 4 | 244 | 91 | 72.84% | 91 | 72.80% | 100.0 | 349 | 0.050 | 6.663 | 62.030 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 23 | 3 | 88.46% | 3 | 88.50% | 100.0 | 180 | 0.080 | 2.380 | 20.790 |
| K02.25 | EOM NOTIFICATION | F | 4 | 13 | 4 | 76.47% | 4 | 76.50% | 100.0 | 180 | 0.250 | 7.057 | 35.600 |
| K02.4 | CALL FOR FIRE | F | 4 | 324 | 82 | 79.80% | 83 | 79.60% | 99.8% | 452 | 0.350 | 4.637 | 64.430 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 527 | 161 | 76.60% | 161 | 76.60% | 100.0 | 349 | 0.050 | 4.299 | 42.150 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.320 | 0.565 | 0.860 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 3.323 | 27.410 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.770 | 1.331 | 2.970 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.010 | 4.590 | 43.520 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.460 | 1.155 | 2.180 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 1.239 | 3.910 |
| RUN TOTALS | | 2,014 | | 411 | 83.1% | | 413 | 83.0% | 99.92% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s5Mod Seed: 555

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
 SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
 both the FA Bn & all other FS assets.
 MC Retries: 2 Time Between: 20 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 5

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-------------------|--------|-----------------------|-------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 82 | 4 | 95.35% | 4 | 95.30% | 100.0 | 309 | 0.490 | 2.020 | 21.020 |
| K02.12 | COMMAND TO FIRE | F | 4 | 63 | 14 | 81.82% | 14 | 81.80% | 100.0 | 338 | 0.150 | 2.839 | 20.650 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.070 | 1.300 | 4.550 |
| K02.14 | MTO | F | 4 | 201 | 34 | 85.53% | 34 | 85.50% | 100.0 | 481 | 0.380 | 3.869 | 46.770 |
| K02.16 | EOM AND SRVLNC | F | 4 | 268 | 67 | 80.00% | 67 | 80.00% | 100.0 | 349 | 0.070 | 4.973 | 47.580 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 180 | 0.040 | 3.228 | 18.940 |
| K02.25 | EOM NOTIFICATION | F | 4 | 8 | 9 | 47.06% | 9 | 47.10% | 100.0 | 180 | 0.500 | 7.933 | 25.650 |
| K02.4 | CALL FOR FIRE | F | 4 | 323 | 84 | 79.36% | 84 | 79.40% | 100.0 | 452 | 0.370 | 4.088 | 63.390 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 516 | 172 | 75.00% | 172 | 75.00% | 100.0 | 349 | 0.040 | 4.730 | 63.770 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.180 | 0.660 | 0.990 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 4.435 | 44.770 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.220 | 0.559 | 0.910 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 3.605 | 41.020 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.250 | 0.473 | 1.170 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.070 | 0.475 | 2.020 |
| | | RUN TOTALS | | 2,038 | 389 | 84.0% | 389 | 84.0% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s6Mod Seed: 666

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
 SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
 both the FA Bn & all other FS assets.
 MC Retries: 2 Time Between: 20 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 6

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|--------|----------------------|-------------------|--------|-----------------------|-------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|--------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.220 | 1.559 21.580 |
| K02.12 | COMMAND TO FIRE | F | 4 | 46 | 31 | 59.74% | 31 | 59.70% | 100.0 | 338 | 0.160 | 5.866 42.300 |
| K02.13 | MISSION CLEARANCE | F | 4 | 20 | 6 | 76.92% | 6 | 76.90% | 100.0 | 210 | 0.200 | 2.008 5.760 |
| K02.14 | MTO | F | 4 | 194 | 40 | 82.91% | 41 | 82.60% | 99.6% | 481 | 0.370 | 3.577 61.610 |
| K02.16 | EOM AND SRVLNC | F | 4 | 259 | 76 | 77.31% | 76 | 77.30% | 100.0 | 349 | 0.080 | 4.974 63.350 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 180 | 0.070 | 1.528 5.290 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.190 | 1.136 1.950 |
| K02.4 | CALL FOR FIRE | F | 4 | 316 | 91 | 77.64% | 91 | 77.60% | 100.0 | 452 | 0.340 | 5.027 64.420 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 539 | 149 | 78.34% | 149 | 78.30% | 100.0 | 349 | 0.050 | 4.093 48.700 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.220 | 0.492 0.990 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 4.156 23.820 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.410 | 1.197 3.070 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 3.993 42.410 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.380 | 0.710 1.020 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.497 1.490 |
| | | RUN TOTALS | | 2,029 | 397 | 83.6% | 398 | 83.6% | 99.96% | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s7Mod Seed: 777

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
 SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
 both the FA Bn & all other FS assets.
 MC Retries: 2 Time Between: 20 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 7

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-------------------|--------|-----------------------|-------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.080 | 1.521 | 20.440 |
| K02.12 | COMMAND TO FIRE | F | 4 | 64 | 13 | 83.12% | 13 | 83.10% | 100.0 | 338 | 0.710 | 4.932 | 23.200 |
| K02.13 | MISSION CLEARANCE | F | 4 | 20 | 6 | 76.92% | 6 | 76.90% | 100.0 | 210 | 0.360 | 2.721 | 11.590 |
| K02.14 | MTO | F | 4 | 186 | 47 | 79.83% | 49 | 79.10% | 99.1% | 481 | 0.350 | 4.013 | 47.510 |
| K02.16 | EOM AND SRVLNC | F | 4 | 248 | 86 | 74.25% | 87 | 74.00% | 99.7% | 349 | 0.060 | 7.051 | 270.10 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.590 | 1.752 | 4.870 |
| K02.25 | EOM NOTIFICATION | F | 4 | 15 | 2 | 88.24% | 2 | 88.20% | 100.0 | 180 | 0.250 | 3.483 | 23.660 |
| K02.4 | CALL FOR FIRE | F | 4 | 335 | 72 | 82.31% | 72 | 82.30% | 100.0 | 452 | 0.330 | 4.332 | 69.300 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 534 | 154 | 77.62% | 154 | 77.60% | 100.0 | 349 | 0.050 | 4.014 | 47.360 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.140 | 0.585 | 0.950 |
| K02.11 | AMMO INVENTORY | O | 600 | 231 | 0 | 100.00% | 1 | 99.60% | 99.6% | 3,005 | 1.520 | 4.197 | 66.810 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 0.757 | 1.410 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 254 | 0 | 100.00% | 2 | 99.20% | 99.2% | 1,989 | 1.010 | 3.309 | 24.230 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.550 | 0.778 | 1.020 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.250 | 1.266 | 3.270 |
| | | RUN TOTALS | | 2,039 | 382 | 84.2% | 388 | 84.0% | 99.75% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s8Mod Seed: 888

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 8

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.230 | 0.947 | 3.670 |
| K02.12 | COMMAND TO FIRE | F | 4 | 50 | 20 | 71.43% | 27 | 64.90% | 90.9% | 338 | 0.220 | 7.174 | 44.890 |
| K02.13 | MISSION CLEARANCE | F | 4 | 23 | 3 | 88.46% | 3 | 88.50% | 100.0 | 210 | 0.070 | 1.724 | 6.230 |
| K02.14 | MTO | F | 4 | 183 | 49 | 78.88% | 52 | 77.90% | 98.7% | 481 | 0.350 | 5.249 | 60.270 |
| K02.16 | EOM AND SRVLNC | F | 4 | 245 | 81 | 75.15% | 90 | 73.10% | 97.3% | 349 | 0.070 | 9.801 | 474.67 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 23 | 3 | 88.46% | 3 | 88.50% | 100.0 | 180 | 0.120 | 2.151 | 8.420 |
| K02.25 | EOM NOTIFICATION | F | 4 | 14 | 3 | 82.35% | 3 | 82.40% | 100.0 | 180 | 0.360 | 4.025 | 24.540 |
| K02.4 | CALL FOR FIRE | F | 4 | 323 | 80 | 80.15% | 84 | 79.40% | 99.0% | 452 | 0.350 | 4.538 | 66.630 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 523 | 147 | 78.06% | 165 | 76.00% | 97.4% | 349 | 0.050 | 5.196 | 63.330 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.562 | 0.860 |
| K02.11 | AMMO INVENTORY | O | 600 | 226 | 0 | 100.00% | 6 | 97.40% | 97.4% | 3,005 | 1.520 | 3.928 | 24.520 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.250 | 0.568 | 1.050 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 249 | 1 | 99.60% | 7 | 97.30% | 97.7% | 1,989 | 1.040 | 4.196 | 65.900 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.230 | 0.615 | 1.020 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.380 | 0.692 | 1.280 |
| RUN TOTALS | | | | 1,987 | 387 | 83.7% | 440 | 81.9% | 97.82% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s9Mod Seed: 999

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 9

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.080 | 1.030 | 2.630 |
| K02.12 | COMMAND TO FIRE | F | 4 | 66 | 11 | 85.71% | 11 | 85.70% | 100.0 | 338 | 0.050 | 3.281 | 41.720 |
| K02.13 | MISSION CLEARANCE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 210 | 0.070 | 1.758 | 6.270 |
| K02.14 | MTO | F | 4 | 184 | 51 | 78.30% | 51 | 78.30% | 100.0 | 481 | 0.340 | 5.602 | 51.860 |
| K02.16 | EOM AND SRVLNC | F | 4 | 274 | 61 | 81.79% | 61 | 81.80% | 100.0 | 349 | 0.060 | 5.063 | 54.740 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 180 | 0.570 | 2.781 | 8.160 |
| K02.25 | EOM NOTIFICATION | F | 4 | 15 | 2 | 88.24% | 2 | 88.20% | 100.0 | 180 | 0.290 | 2.756 | 13.130 |
| K02.4 | CALL FOR FIRE | F | 4 | 324 | 82 | 79.80% | 83 | 79.60% | 99.8% | 452 | 0.340 | 4.606 | 64.170 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 510 | 178 | 74.13% | 178 | 74.10% | 100.0 | 349 | 0.040 | 5.397 | 64.170 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.517 | 1.000 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 3.437 | 29.390 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.330 | 1.198 | 3.530 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.010 | 3.955 | 43.960 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.220 | 0.818 | 1.070 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.170 | 0.556 | 1.090 |
| RUN TOTALS | | 2,033 | | 393 | 83.8% | | 394 | 83.8% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s10Mod Seed: 1010

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 10

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------|-------------------------|-------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.260 | 1.503 | 20.990 |
| K02.12 | COMMAND TO FIRE | F | 4 | 62 | 15 | 80.52% | 15 | 80.50% | 100.0 | 338 | 0.050 | 6.129 | 43.560 |
| K02.13 | MISSION CLEARANCE | F | 4 | 21 | 5 | 80.77% | 5 | 80.80% | 100.0 | 210 | 0.210 | 1.997 | 5.770 |
| K02.14 | MTO | F | 4 | 196 | 39 | 83.40% | 39 | 83.40% | 100.0 | 481 | 0.360 | 3.083 | 40.600 |
| K02.16 | EOM AND SRVLNC | F | 4 | 267 | 65 | 80.42% | 68 | 79.70% | 99.1% | 349 | 0.050 | 7.783 | 263.85 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.380 | 1.812 | 4.670 |
| K02.25 | EOM NOTIFICATION | F | 4 | 10 | 7 | 58.82% | 7 | 58.80% | 100.0 | 180 | 0.310 | 2.645 | 5.380 |
| K02.4 | CALL FOR FIRE | F | 4 | 331 | 76 | 81.33% | 76 | 81.30% | 100.0 | 452 | 0.350 | 4.514 | 68.430 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 548 | 140 | 79.65% | 140 | 79.70% | 100.0 | 349 | 0.040 | 4.170 | 64.830 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.140 | 0.540 | 1.040 |
| K02.11 | AMMO INVENTORY | O | 600 | 229 | 0 | 100.00% | 3 | 98.70% | 98.7% | 3,005 | 1.510 | 3.935 | 24.700 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.540 | 1.094 | 1.550 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 253 | 0 | 100.00% | 3 | 98.80% | 98.8% | 1,989 | 1.030 | 3.766 | 26.530 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.450 | 0.718 | 1.080 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.404 | 1.210 |
| RUN TOTALS | | 2,068 | | 350 | 85.5% | 359 | 85.2% | 99.63% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s11Mod Seed: 1111

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 11

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.090 | 1.764 | 41.480 |
| K02.12 | COMMAND TO FIRE | F | 4 | 61 | 16 | 79.22% | 16 | 79.20% | 100.0 | 338 | 0.050 | 3.353 | 22.060 |
| K02.13 | MISSION CLEARANCE | F | 4 | 20 | 6 | 76.92% | 6 | 76.90% | 100.0 | 210 | 0.080 | 2.337 | 11.850 |
| K02.14 | MTO | F | 4 | 204 | 31 | 86.81% | 31 | 86.80% | 100.0 | 481 | 0.370 | 3.773 | 61.900 |
| K02.16 | EOM AND SRVLNC | F | 4 | 277 | 58 | 82.69% | 58 | 82.70% | 100.0 | 349 | 0.060 | 4.888 | 63.790 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 180 | 0.530 | 1.999 | 8.710 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.600 | 2.968 | 21.010 |
| K02.4 | CALL FOR FIRE | F | 4 | 341 | 66 | 83.78% | 66 | 83.80% | 100.0 | 452 | 0.340 | 3.908 | 47.480 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 551 | 137 | 80.09% | 137 | 80.10% | 100.0 | 349 | 0.050 | 4.004 | 64.030 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.567 | 1.360 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.576 | 41.780 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.350 | 3.552 | 21.830 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 4.157 | 41.430 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.360 | 4.257 | 21.950 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 1.917 | 15.710 |
| RUN TOTALS | | 2,108 | | 319 | 86.9% | 319 | 86.9% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s12Mod Seed: 1212

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 12

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|--------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.100 | 1.226 | 3.210 |
| K02.12 | COMMAND TO FIRE | F | 4 | 55 | 21 | 72.37% | 22 | 71.40% | 98.7% | 338 | 0.140 | 15.288 | 272.61 |
| K02.13 | MISSION CLEARANCE | F | 4 | 24 | 1 | 96.00% | 2 | 92.30% | 96.2% | 210 | 0.340 | 1.497 | 7.740 |
| K02.14 | MTO | F | 4 | 197 | 38 | 83.83% | 38 | 83.80% | 100.0 | 481 | 0.360 | 4.280 | 92.790 |
| K02.16 | EOM AND SRVLNC | F | 4 | 268 | 58 | 82.21% | 67 | 80.00% | 97.3% | 349 | 0.080 | 6.750 | 386.42 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 180 | 0.250 | 2.320 | 20.270 |
| K02.25 | EOM NOTIFICATION | F | 4 | 11 | 6 | 64.71% | 6 | 64.70% | 100.0 | 180 | 0.290 | 5.506 | 25.360 |
| K02.4 | CALL FOR FIRE | F | 4 | 328 | 78 | 80.79% | 79 | 80.60% | 99.8% | 452 | 0.350 | 4.895 | 64.730 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 532 | 147 | 78.35% | 156 | 77.30% | 98.7% | 349 | 0.040 | 4.747 | 64.610 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.360 | 1.487 | 4.980 |
| K02.11 | AMMO INVENTORY | O | 600 | 227 | 0 | 100.00% | 5 | 97.80% | 97.8% | 3,005 | 1.510 | 4.200 | 28.700 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.480 | 1.944 | 5.100 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 251 | 0 | 100.00% | 5 | 98.00% | 98.0% | 1,989 | 1.030 | 3.958 | 41.030 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.200 | 0.425 | 0.880 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.446 | 0.970 |
| RUN TOTALS | | | | 2,045 | 351 | 85.4% | 382 | 84.3% | 98.72% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s1Tb10 Seed: 128

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.040 | 0.388 | 0.860 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.070 | 0.472 | 10.810 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.359 | 1.500 |
| K02.14 | MTO | F | 4 | 229 | 6 | 97.45% | 6 | 97.40% | 100.0 | 481 | 0.120 | 0.753 | 20.180 |
| K02.16 | EOM AND SRVLNC | F | 4 | 314 | 21 | 93.73% | 21 | 93.70% | 100.0 | 349 | 0.060 | 1.063 | 20.870 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.383 | 1.100 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 1.129 | 2.940 |
| K02.4 | CALL FOR FIRE | F | 4 | 401 | 6 | 98.53% | 6 | 98.50% | 100.0 | 452 | 0.120 | 0.595 | 20.340 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 657 | 31 | 95.49% | 31 | 95.50% | 100.0 | 349 | 0.040 | 0.864 | 12.230 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.110 | 0.412 | 0.650 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.103 | 36.820 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.150 | 0.408 | 0.630 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 2.152 | 21.240 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.310 | 0.517 | 0.690 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 1.061 | 10.450 |
| RUN TOTALS | | 2,362 | | 65 | 97.3% | 65 | 97.3% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s2Tb10 Seed: 222

**Mission Thread SOS
COMPLETIONS RATES**

**FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.**
**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 2**

| MsgId: | | SOS RQMT | | Destinations Reached, | | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------|---------|-------------------------------|--------------|---------------|--------------------------|----------------------|------------|------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 81 | 5 | 94.19% | 5 | 94.20% | 100.0 | 309 | 0.060 | 0.942 | 10.570 |
| K02.12 | COMMAND TO FIRE | F | 4 | 73 | 4 | 94.81% | 4 | 94.80% | 100.0 | 338 | 0.070 | 0.971 | 10.750 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.345 | 1.190 |
| K02.14 | MTO | F | 4 | 226 | 9 | 96.17% | 9 | 96.20% | 100.0 | 481 | 0.130 | 0.831 | 11.410 |
| K02.16 | EOM AND SRVLNC | F | 4 | 319 | 16 | 95.22% | 16 | 95.20% | 100.0 | 349 | 0.060 | 0.941 | 20.570 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.471 | 1.620 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.382 | 0.860 |
| K02.4 | CALL FOR FIRE | F | 4 | 389 | 18 | 95.58% | 18 | 95.60% | 100.0 | 452 | 0.120 | 0.863 | 10.660 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 655 | 33 | 95.20% | 33 | 95.20% | 100.0 | 349 | 0.040 | 0.905 | 21.060 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.180 | 0.373 | 0.740 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.984 | 12.390 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.320 | 0.466 | 0.630 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 255 | 1 | 99.61% | 1 | 99.60% | 100.0 | 1,989 | 0.590 | 2.148 | 64.150 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.120 | 0.467 | 0.790 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.354 | 1.430 |
| RUN TOTALS | | 2,341 | | 86 | 96.5% | | 86 | 96.5% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s3Tb10 Seed: 333

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 3

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 78 | 8 | 90.70% | 8 | 90.70% | 100.0 | 309 | 0.070 | 1.324 | 10.270 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.080 | 0.667 | 20.470 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.442 | 1.210 |
| K02.14 | MTO | F | 4 | 227 | 7 | 97.01% | 8 | 96.60% | 99.6% | 481 | 0.120 | 0.731 | 10.520 |
| K02.16 | EOM AND SRVLNC | F | 4 | 312 | 23 | 93.13% | 23 | 93.10% | 100.0 | 349 | 0.050 | 1.070 | 12.700 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.473 | 1.300 |
| K02.25 | EOM NOTIFICATION | F | 4 | 15 | 2 | 88.24% | 2 | 88.20% | 100.0 | 180 | 0.050 | 1.483 | 11.590 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.120 | 0.810 | 20.410 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 663 | 25 | 96.37% | 25 | 96.40% | 100.0 | 349 | 0.040 | 0.806 | 33.030 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.462 | 1.100 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.513 | 21.860 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.190 | 1.717 | 10.400 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.955 | 13.000 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.170 | 0.330 | 0.670 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.269 | 0.500 |
| RUN TOTALS | | 2,347 | | 79 | 96.7% | | 80 | 96.7% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s4Tb10 Seed: 444

**Mission Thread SOS
COMPLETIONS RATES**

**FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.**
**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 4**

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|--------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.070 | 0.441 | 10.250 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 2 | 97.37% | 3 | 96.10% | 98.7% | 338 | 0.060 | 0.636 | 10.440 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.603 | 2.420 |
| K02.14 | MTO | F | 4 | 232 | 3 | 98.72% | 3 | 98.70% | 100.0 | 481 | 0.130 | 0.609 | 20.520 |
| K02.16 | EOM AND SRVLNC | F | 4 | 317 | 18 | 94.63% | 18 | 94.60% | 100.0 | 349 | 0.070 | 1.113 | 20.320 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.360 | 0.740 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.835 | 1.320 |
| K02.4 | CALL FOR FIRE | F | 4 | 397 | 10 | 97.54% | 10 | 97.50% | 100.0 | 452 | 0.110 | 0.711 | 20.150 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 661 | 27 | 96.08% | 27 | 96.10% | 100.0 | 349 | 0.040 | 0.852 | 21.160 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.280 | 0.510 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.239 | 20.920 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.160 | 0.383 | 0.550 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.101 | 21.860 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.170 | 0.290 | 0.450 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.150 | 0.302 | 0.530 |
| RUN TOTALS | | 2,365 | | 61 | 97.5% | | 62 | 97.4% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s5Tb10 Seed: 555

**Mission Thread SOS
COMPLETIONS RATES**

**FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.**
**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 5**

| MsgId: | | SOS RQMT (secs) | Destinations Reached, but | ----- All Destinations ----- | | | Avg Msg Size (in bits) | First Receipt Times | | | | | | |
|-------------------|----------------------|--------------------------------|----------------------------------|-------------------------------------|----------------|--------------------|-----------------------------------|--|----------|------------|------------|------------|------------|--------|
| | | | | NET | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 309 | 0.080 | 0.392 | 0.750 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | | 2 | 97.40% | 100.0 | 338 | 0.060 | 0.646 | 10.160 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.336 | 0.910 |
| K02.14 | MTO | F | 4 | 232 | 3 | 98.72% | | 3 | 98.70% | 100.0 | 481 | 0.120 | 0.579 | 10.870 |
| K02.16 | EOM AND SRVLNC | F | 4 | 324 | 11 | 96.72% | | 11 | 96.70% | 100.0 | 349 | 0.050 | 0.937 | 20.370 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.289 | 0.670 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.484 | 1.020 |
| K02.4 | CALL FOR FIRE | F | 4 | 396 | 11 | 97.30% | | 11 | 97.30% | 100.0 | 452 | 0.120 | 0.856 | 38.330 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 673 | 15 | 97.82% | | 15 | 97.80% | 100.0 | 349 | 0.040 | 0.716 | 32.610 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.110 | 0.327 | 0.540 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.086 | 21.190 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 641 | 0.260 | 0.628 | 1.690 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.676 | 21.780 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 478 | 0.130 | 0.340 | 0.580 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 0.150 | 0.526 | 2.490 |
| RUN TOTALS | | | 2,385 | 42 | 98.3% | 42 | 98.3% | 100.00 | | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s6Tb10 Seed: 666

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 6

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.060 | 1.000 | 10.420 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.130 | 0.744 | 10.430 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.308 | 0.860 |
| K02.14 | MTO | F | 4 | 225 | 10 | 95.74% | 10 | 95.70% | 100.0 | 481 | 0.130 | 0.935 | 20.330 |
| K02.16 | EOM AND SRVLNC | F | 4 | 311 | 24 | 92.84% | 24 | 92.80% | 100.0 | 349 | 0.050 | 1.131 | 20.320 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.487 | 1.120 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.981 | 1.610 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | 9 | 97.80% | 100.0 | 452 | 0.120 | 0.696 | 20.260 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 659 | 29 | 95.78% | 29 | 95.80% | 100.0 | 349 | 0.040 | 0.823 | 20.620 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.293 | 0.460 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.338 | 22.010 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.130 | 1.836 | 10.280 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 2.003 | 12.710 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.270 | 0.622 | 1.070 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.160 | 0.444 | 1.420 |
| RUN TOTALS | | 2,347 | | 80 | 96.7% | 80 | 96.7% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s7Tb10 Seed: 777

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 7

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.110 | 0.440 | 1.370 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.040 | 0.490 | 10.510 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.365 | 1.330 |
| K02.14 | MTO | F | 4 | 220 | 15 | 93.62% | 15 | 93.60% | 100.0 | 481 | 0.130 | 1.164 | 34.640 |
| K02.16 | EOM AND SRVLNC | F | 4 | 334 | 1 | 99.70% | 1 | 99.70% | 100.0 | 349 | 0.050 | 0.485 | 10.520 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.160 | 0.604 | 1.550 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.524 | 0.840 |
| K02.4 | CALL FOR FIRE | F | 4 | 403 | 4 | 99.02% | 4 | 99.00% | 100.0 | 452 | 0.120 | 0.582 | 20.870 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 668 | 20 | 97.09% | 20 | 97.10% | 100.0 | 349 | 0.040 | 0.712 | 20.610 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.170 | 0.305 | 0.510 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 1.999 | 21.600 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.130 | 1.779 | 10.460 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.668 | 12.350 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 0.327 | 0.410 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.467 | 1.850 |
| RUN TOTALS | | 2,386 | | 41 | 98.3% | 41 | 98.3% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s8Tb10 Seed: 888

**Mission Thread SOS
COMPLETIONS RATES**

**FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.**
**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 8**

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------|-------------------------|-------------------------------|--------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.100 | 0.591 | 10.330 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.190 | 0.623 | 10.470 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 0 | 100.00% | 1 | 96.20% | 96.2% | 210 | 0.050 | 0.356 | 1.000 |
| K02.14 | MTO | F | 4 | 222 | 13 | 94.47% | 13 | 94.50% | 100.0 | 481 | 0.130 | 1.035 | 21.010 |
| K02.16 | EOM AND SRVLNC | F | 4 | 327 | 8 | 97.61% | 8 | 97.60% | 100.0 | 349 | 0.060 | 0.640 | 10.510 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.364 | 1.550 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.748 | 1.780 |
| K02.4 | CALL FOR FIRE | F | 4 | 400 | 7 | 98.28% | 7 | 98.30% | 100.0 | 452 | 0.140 | 0.647 | 11.330 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 660 | 28 | 95.93% | 28 | 95.90% | 100.0 | 349 | 0.040 | 0.784 | 12.300 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.387 | 0.820 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.971 | 21.230 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.410 | 2.579 | 10.790 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.229 | 20.860 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 0.540 | 0.860 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.436 | 1.000 |
| RUN TOTALS | | 2,367 | | 59 | 97.6% | | 60 | 97.5% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s9Tb10 Seed: 999

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.
 MC Retries: 2 Time Between: 20 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 9

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.040 | 0.584 | 10.400 |
| K02.12 | COMMAND TO FIRE | F | 4 | 66 | 11 | 85.71% | 11 | 85.70% | 100.0 | 338 | 0.110 | 1.962 | 20.110 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.410 | 0.900 |
| K02.14 | MTO | F | 4 | 233 | 2 | 99.15% | 2 | 99.10% | 100.0 | 481 | 0.130 | 0.557 | 10.250 |
| K02.16 | EOM AND SRVLNC | F | 4 | 315 | 20 | 94.03% | 20 | 94.00% | 100.0 | 349 | 0.050 | 0.991 | 10.540 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.359 | 1.100 |
| K02.25 | EOM NOTIFICATION | F | 4 | 15 | 2 | 88.24% | 2 | 88.20% | 100.0 | 180 | 0.070 | 1.841 | 11.600 |
| K02.4 | CALL FOR FIRE | F | 4 | 397 | 10 | 97.54% | 10 | 97.50% | 100.0 | 452 | 0.120 | 0.716 | 20.590 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 667 | 21 | 96.95% | 21 | 96.90% | 100.0 | 349 | 0.040 | 0.727 | 12.100 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.528 | 1.380 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.192 | 35.490 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 0.867 | 2.550 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 2.077 | 20.970 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 0.423 | 0.510 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.360 | 0.850 |
| RUN TOTALS | | 2,359 | | 68 | 97.2% | 68 | 97.2% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s10Tb10 Seed: 1010

**Mission Thread SOS
COMPLETIONS RATES**

**FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
 SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
 FS assets.**
**MC Retries: 2 Time Between:10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 10**

| MsgId: | | SOS RQMT | | Destinations Reached, | | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------|---------|-------------------------------|--------------|---------------|--------------------------|----------------------|------------|------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.060 | 0.412 | 10.750 |
| K02.12 | COMMAND TO FIRE | F | 4 | 68 | 9 | 88.31% | 9 | 88.30% | 100.0 | 338 | 0.070 | 1.929 | 20.820 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.070 | 0.704 | 10.110 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.120 | 0.732 | 10.490 |
| K02.16 | EOM AND SRVLNC | F | 4 | 307 | 28 | 91.64% | 28 | 91.60% | 100.0 | 349 | 0.050 | 1.527 | 20.550 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.554 | 1.910 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.412 | 0.590 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.110 | 0.833 | 20.500 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 661 | 27 | 96.08% | 27 | 96.10% | 100.0 | 349 | 0.030 | 0.795 | 11.390 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.290 | 0.448 | 0.500 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.099 | 11.990 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.130 | 2.399 | 10.890 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.838 | 23.960 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.320 | 0.388 | 0.590 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.321 | 0.500 |
| RUN TOTALS | | 2,341 | | 86 | 96.5% | | 86 | 96.5% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s11Tb10 Seed: 1111

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 11

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.050 | 0.467 | 10.180 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.070 | 0.695 | 10.480 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.313 | 1.540 |
| K02.14 | MTO | F | 4 | 232 | 3 | 98.72% | 3 | 98.70% | 100.0 | 481 | 0.120 | 0.604 | 10.520 |
| K02.16 | EOM AND SRVLNC | F | 4 | 323 | 12 | 96.42% | 12 | 96.40% | 100.0 | 349 | 0.050 | 0.706 | 10.550 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.380 | 1.760 |
| K02.25 | EOM NOTIFICATION | F | 4 | 13 | 4 | 76.47% | 4 | 76.50% | 100.0 | 180 | 0.150 | 2.761 | 10.180 |
| K02.4 | CALL FOR FIRE | F | 4 | 392 | 15 | 96.31% | 15 | 96.30% | 100.0 | 452 | 0.130 | 0.911 | 34.290 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 661 | 27 | 96.08% | 27 | 96.10% | 100.0 | 349 | 0.040 | 0.821 | 20.450 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.340 | 0.530 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.069 | 12.010 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.709 | 1.540 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.704 | 12.410 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.270 | 2.167 | 10.490 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.070 | 0.350 | 1.450 |
| RUN TOTALS | | 2,363 | | 64 | 97.4% | 64 | 97.4% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7s12Tb10 Seed: 1212

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 12

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.070 | 1.000 | 10.480 |
| K02.12 | COMMAND TO FIRE | F | 4 | 71 | 6 | 92.21% | 6 | 92.20% | 100.0 | 338 | 0.080 | 1.248 | 11.330 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.352 | 0.620 |
| K02.14 | MTO | F | 4 | 230 | 5 | 97.87% | 5 | 97.90% | 100.0 | 481 | 0.120 | 0.713 | 10.390 |
| K02.16 | EOM AND SRVLNC | F | 4 | 327 | 8 | 97.61% | 8 | 97.60% | 100.0 | 349 | 0.040 | 0.729 | 20.230 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.425 | 1.410 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.288 | 1.210 |
| K02.4 | CALL FOR FIRE | F | 4 | 399 | 8 | 98.03% | 8 | 98.00% | 100.0 | 452 | 0.120 | 0.642 | 10.590 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 672 | 16 | 97.67% | 16 | 97.70% | 100.0 | 349 | 0.050 | 0.671 | 20.250 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.260 | 0.483 | 1.100 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.084 | 12.820 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.590 | 1.290 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.781 | 20.950 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.200 | 0.470 | 0.650 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.479 | 3.270 |
| RUN TOTALS | | 2,378 | | 49 | 98.0% | 49 | 98.0% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s1Tb10 Seed: 128

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.050 | 1.024 | 10.900 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.060 | 0.522 | 10.800 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.423 | 1.500 |
| K02.14 | MTO | F | 4 | 227 | 8 | 96.60% | 8 | 96.60% | 100.0 | 481 | 0.120 | 0.750 | 10.850 |
| K02.16 | EOM AND SRVLNC | F | 4 | 313 | 22 | 93.43% | 22 | 93.40% | 100.0 | 349 | 0.050 | 1.228 | 20.410 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.261 | 1.000 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.130 | 0.235 | 0.500 |
| K02.4 | CALL FOR FIRE | F | 4 | 400 | 7 | 98.28% | 7 | 98.30% | 100.0 | 452 | 0.120 | 0.565 | 10.740 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 671 | 17 | 97.53% | 17 | 97.50% | 100.0 | 349 | 0.030 | 0.578 | 10.640 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.170 | 0.328 | 0.510 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.929 | 21.780 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.480 | 2.156 | 10.680 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 1.795 | 21.670 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.270 | 0.397 | 0.590 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.060 | 0.239 | 0.370 |
| RUN TOTALS | | 2,365 | | 62 | 97.4% | 62 | 97.4% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s1Tb10 Seed: 128

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.050 | 1.024 | 10.900 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.060 | 0.522 | 10.800 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.423 | 1.500 |
| K02.14 | MTO | F | 4 | 227 | 8 | 96.60% | 8 | 96.60% | 100.0 | 481 | 0.120 | 0.750 | 10.850 |
| K02.16 | EOM AND SRVLNC | F | 4 | 313 | 22 | 93.43% | 22 | 93.40% | 100.0 | 349 | 0.050 | 1.228 | 20.410 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.261 | 1.000 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.130 | 0.235 | 0.500 |
| K02.4 | CALL FOR FIRE | F | 4 | 400 | 7 | 98.28% | 7 | 98.30% | 100.0 | 452 | 0.120 | 0.565 | 10.740 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 671 | 17 | 97.53% | 17 | 97.50% | 100.0 | 349 | 0.030 | 0.578 | 10.640 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.170 | 0.328 | 0.510 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.929 | 21.780 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.480 | 2.156 | 10.680 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 1.795 | 21.670 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.270 | 0.397 | 0.590 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.060 | 0.239 | 0.370 |
| RUN TOTALS | | 2,365 | | 62 | 97.4% | 62 | 97.4% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s2Tb10 Seed: 222

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
 SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
 both the FA Bn & all other FS assets.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 2

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-------------------|--------|-----------------------|-------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.030 | 0.783 | 40.420 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.050 | 0.342 | 10.500 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.040 | 0.724 | 10.500 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.120 | 0.690 | 10.600 |
| K02.16 | EOM AND SRVLNC | F | 4 | 329 | 5 | 98.50% | 6 | 98.20% | 99.7% | 349 | 0.050 | 0.478 | 10.760 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.240 | 0.520 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.170 | 0.548 | 0.760 |
| K02.4 | CALL FOR FIRE | F | 4 | 403 | 4 | 99.02% | 4 | 99.00% | 100.0 | 452 | 0.120 | 0.465 | 10.660 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 672 | 16 | 97.67% | 16 | 97.70% | 100.0 | 349 | 0.040 | 0.590 | 20.430 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.372 | 0.810 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.779 | 12.700 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 2.453 | 10.160 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.400 | 11.410 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.230 | 0.340 | 0.410 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.269 | 0.520 |
| | | RUN TOTALS | | 2,391 | 35 | 98.6% | 36 | 98.5% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s3Tb10 Seed: 333

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 3

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.050 | 0.426 | 10.470 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.060 | 0.540 | 10.490 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.120 | 0.416 | 0.900 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.130 | 0.788 | 20.310 |
| K02.16 | EOM AND SRVLNC | F | 4 | 331 | 4 | 98.81% | 4 | 98.80% | 100.0 | 349 | 0.050 | 0.491 | 20.320 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.301 | 0.500 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.150 | 0.290 | 0.460 |
| K02.4 | CALL FOR FIRE | F | 4 | 401 | 6 | 98.53% | 6 | 98.50% | 100.0 | 452 | 0.120 | 0.611 | 20.650 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 671 | 17 | 97.53% | 17 | 97.50% | 100.0 | 349 | 0.040 | 0.608 | 20.950 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.365 | 0.820 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.742 | 21.030 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.190 | 2.190 | 10.250 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.595 | 20.600 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.150 | 0.302 | 0.520 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.208 | 0.400 |
| RUN TOTALS | | 2,391 | | 36 | 98.5% | 36 | 98.5% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s4Tb10 Seed: 444

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 4

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.070 | 0.595 | 10.120 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.150 | 0.888 | 20.420 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.342 | 0.780 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.120 | 0.684 | 10.960 |
| K02.16 | EOM AND SRVLNC | F | 4 | 331 | 4 | 98.81% | 4 | 98.80% | 100.0 | 349 | 0.040 | 0.434 | 10.550 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 0 | 100.00% | 1 | 96.20% | 96.2% | 180 | 0.040 | 0.350 | 0.820 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.140 | 0.312 | 0.620 |
| K02.4 | CALL FOR FIRE | F | 4 | 399 | 8 | 98.03% | 8 | 98.00% | 100.0 | 452 | 0.120 | 0.618 | 20.780 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 670 | 18 | 97.38% | 18 | 97.40% | 100.0 | 349 | 0.040 | 0.606 | 10.880 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.235 | 0.440 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.000 | 21.270 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.130 | 0.456 | 0.610 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.727 | 21.110 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.310 | 0.507 | 0.590 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.244 | 0.850 |
| RUN TOTALS | | 2,384 | | 42 | 98.3% | | 43 | 98.2% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s5Tb10 Seed: 555

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 5

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 81 | 5 | 94.19% | 5 | 94.20% | 100.0 | 309 | 0.050 | 0.948 | 10.180 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.050 | 0.252 | 0.520 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.337 | 0.570 |
| K02.14 | MTO | F | 4 | 235 | 0 | 100.00% | 0 | 100.00% | 100.0 | 481 | 0.130 | 0.442 | 2.090 |
| K02.16 | EOM AND SRVLNC | F | 4 | 326 | 9 | 97.31% | 9 | 97.30% | 100.0 | 349 | 0.050 | 0.655 | 20.330 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.328 | 0.700 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.209 | 0.720 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | 9 | 97.80% | 100.0 | 452 | 0.120 | 0.641 | 10.720 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 673 | 15 | 97.82% | 15 | 97.80% | 100.0 | 349 | 0.040 | 0.548 | 10.720 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.385 | 0.960 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.857 | 13.830 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.190 | 0.422 | 0.580 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 1.590 | 16.120 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.370 | 0.398 | 0.450 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.281 | 0.450 |
| RUN TOTALS | | 2,389 | | 38 | 98.4% | 38 | 98.4% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s6Tb10 Seed: 666

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 6

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.050 | 0.392 | 0.940 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.050 | 0.709 | 20.110 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.312 | 0.640 |
| K02.14 | MTO | F | 4 | 231 | 4 | 98.30% | 4 | 98.30% | 100.0 | 481 | 0.120 | 0.545 | 10.570 |
| K02.16 | EOM AND SRVLNC | F | 4 | 326 | 9 | 97.31% | 9 | 97.30% | 100.0 | 349 | 0.040 | 0.598 | 20.540 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.300 | 0.830 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.419 | 0.630 |
| K02.4 | CALL FOR FIRE | F | 4 | 401 | 6 | 98.53% | 6 | 98.50% | 100.0 | 452 | 0.120 | 0.556 | 11.100 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 668 | 20 | 97.09% | 20 | 97.10% | 100.0 | 349 | 0.040 | 0.638 | 20.140 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.303 | 0.500 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.655 | 13.160 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.250 | 0.932 | 2.190 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 1.667 | 20.750 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.150 | 0.255 | 0.520 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.240 | 0.456 | 0.520 |
| RUN TOTALS | | 2,386 | | 41 | 98.3% | 41 | 98.3% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s7Tb10 Seed: 777

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 7

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.080 | 1.165 | 20.430 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.100 | 0.405 | 1.160 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.355 | 1.170 |
| K02.14 | MTO | F | 4 | 231 | 4 | 98.30% | 4 | 98.30% | 100.0 | 481 | 0.120 | 0.579 | 20.590 |
| K02.16 | EOM AND SRVLNC | F | 4 | 321 | 14 | 95.82% | 14 | 95.80% | 100.0 | 349 | 0.060 | 0.761 | 11.090 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.240 | 0.550 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.040 | 0.961 | 10.460 |
| K02.4 | CALL FOR FIRE | F | 4 | 404 | 3 | 99.26% | 3 | 99.30% | 100.0 | 452 | 0.110 | 0.461 | 10.610 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 674 | 14 | 97.97% | 14 | 98.00% | 100.0 | 349 | 0.030 | 0.550 | 10.900 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.338 | 1.100 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.986 | 21.140 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 2.760 | 10.540 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.911 | 21.430 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 0.435 | 0.580 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.278 | 0.520 |
| RUN TOTALS | | 2,385 | | 42 | 98.3% | 42 | 98.3% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s8Tb10 Seed: 888

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 8

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.040 | 1.009 | 10.390 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.040 | 0.446 | 10.230 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.298 | 0.780 |
| K02.14 | MTO | F | 4 | 225 | 9 | 96.15% | 10 | 95.70% | 99.6% | 481 | 0.130 | 0.749 | 10.570 |
| K02.16 | EOM AND SRVLNC | F | 4 | 328 | 7 | 97.91% | 7 | 97.90% | 100.0 | 349 | 0.060 | 0.612 | 10.550 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.288 | 1.240 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.335 | 1.140 |
| K02.4 | CALL FOR FIRE | F | 4 | 396 | 11 | 97.30% | 11 | 97.30% | 100.0 | 452 | 0.120 | 0.682 | 11.090 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 664 | 24 | 96.51% | 24 | 96.50% | 100.0 | 349 | 0.040 | 0.716 | 20.470 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.170 | 0.303 | 0.470 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.983 | 15.180 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.190 | 0.419 | 0.790 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.750 | 12.120 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 0.377 | 0.600 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.150 | 0.487 | 1.350 |
| RUN TOTALS | | 2,368 | | 58 | 97.6% | | 59 | 97.6% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s9Tb10 Seed: 999

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 9

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.030 | 0.331 | 1.060 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.050 | 0.621 | 10.470 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.070 | 0.660 | 10.310 |
| K02.14 | MTO | F | 4 | 233 | 2 | 99.15% | 2 | 99.10% | 100.0 | 481 | 0.130 | 0.499 | 10.420 |
| K02.16 | EOM AND SRVLNC | F | 4 | 325 | 10 | 97.01% | 10 | 97.00% | 100.0 | 349 | 0.060 | 0.681 | 10.450 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.303 | 0.520 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.404 | 0.580 |
| K02.4 | CALL FOR FIRE | F | 4 | 404 | 3 | 99.26% | 3 | 99.30% | 100.0 | 452 | 0.120 | 0.473 | 10.900 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 672 | 16 | 97.67% | 16 | 97.70% | 100.0 | 349 | 0.040 | 0.595 | 20.090 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.350 | 0.530 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.027 | 20.900 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.160 | 0.329 | 0.630 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.788 | 15.510 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.180 | 0.398 | 0.580 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.291 | 0.710 |
| RUN TOTALS | | 2,392 | | 35 | 98.6% | 35 | 98.6% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s10Tb10 Seed: 1010

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 10

| MsgId: | | SOS RQMT | | Destinations Reached, | | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------|-----------|-------------------------------|---------------|------------|--------------------------|----------------------|------------|------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 78 | 8 | 90.70% | 8 | 90.70% | 100.0 | 309 | 0.050 | 1.222 | 10.550 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.070 | 0.730 | 10.470 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.322 | 0.770 |
| K02.14 | MTO | F | 4 | 221 | 14 | 94.04% | 14 | 94.00% | 100.0 | 481 | 0.120 | 0.992 | 11.030 |
| K02.16 | EOM AND SRVLNC | F | 4 | 326 | 9 | 97.31% | 9 | 97.30% | 100.0 | 349 | 0.060 | 0.617 | 10.390 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.247 | 0.520 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.120 | 0.432 | 1.140 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | 9 | 97.80% | 100.0 | 452 | 0.120 | 0.635 | 10.880 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 665 | 23 | 96.66% | 23 | 96.70% | 100.0 | 349 | 0.040 | 0.650 | 11.170 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.110 | 0.350 | 0.530 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.878 | 13.220 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 0.658 | 1.080 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.678 | 21.040 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.170 | 0.363 | 0.470 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.299 | 0.520 |
| RUN TOTALS | | 2,361 | | 66 | 97.3% | 66 | 97.3% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s11Tb10 Seed: 1111

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 11

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.070 | 0.355 | 1.150 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.040 | 0.368 | 10.420 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.298 | 0.720 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.120 | 0.692 | 10.870 |
| K02.16 | EOM AND SRVLNC | F | 4 | 316 | 19 | 94.33% | 19 | 94.30% | 100.0 | 349 | 0.040 | 1.028 | 20.500 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.291 | 0.500 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.228 | 0.650 |
| K02.4 | CALL FOR FIRE | F | 4 | 395 | 12 | 97.05% | 12 | 97.10% | 100.0 | 452 | 0.120 | 0.765 | 20.210 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 660 | 28 | 95.93% | 28 | 95.90% | 100.0 | 349 | 0.040 | 0.765 | 20.860 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.220 | 0.377 | 0.540 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.954 | 21.010 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.281 | 0.470 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.268 | 12.960 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.160 | 0.283 | 0.410 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.502 | 2.060 |
| RUN TOTALS | | 2,360 | | 67 | 97.2% | 67 | 97.2% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8s12Tb10 Seed: 1212

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 12

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|---------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.040 | 0.384 | 0.580 |
| K02.12 | COMMAND TO FIRE | F | 4 | 64 | 13 | 83.12% | 13 | 83.10% | 100.0 | 338 | 0.040 | 1.981 | 10.500 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.324 | 0.700 |
| K02.14 | MTO | F | 4 | 233 | 2 | 99.15% | 2 | 99.10% | 100.0 | 481 | 0.130 | 0.465 | 10.450 |
| K02.16 | EOM AND SRVLNC | F | 4 | 324 | 11 | 96.72% | 11 | 96.70% | 100.0 | 349 | 0.050 | 0.748 | 20.190 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.270 | 0.800 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.438 | 0.700 |
| K02.4 | CALL FOR FIRE | F | 4 | 403 | 4 | 99.02% | 4 | 99.00% | 100.0 | 452 | 0.120 | 0.487 | 10.500 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 668 | 20 | 97.09% | 20 | 97.10% | 100.0 | 349 | 0.040 | 0.638 | 20.380 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.170 | 0.338 | 0.500 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 1.806 | 13.980 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.250 | 1.116 | 2.480 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.813 | 21.520 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.460 | 0.517 | 0.550 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.286 | 0.430 |
| RUN TOTALS | | 2,377 | | 50 | 97.9% | 50 | 97.9% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s1Tb10 Seed: 128

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps =1/2, Fires/Checkfires combined = 1/2.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 71 | 15 | 82.56% | 15 | 82.60% | 100.0 | 309 | 0.030 | 2.047 | 33.240 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.050 | 0.652 | 1.730 |
| K02.13 | MISSION CLEARANCE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 210 | 0.040 | 1.313 | 10.300 |
| K02.14 | MTO | F | 4 | 208 | 27 | 88.51% | 27 | 88.50% | 100.0 | 481 | 0.210 | 1.897 | 11.330 |
| K02.16 | EOM AND SRVLNC | F | 4 | 305 | 30 | 91.04% | 30 | 91.00% | 100.0 | 349 | 0.040 | 1.552 | 11.620 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.568 | 1.190 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.170 | 0.792 | 1.460 |
| K02.4 | CALL FOR FIRE | F | 4 | 385 | 22 | 94.59% | 22 | 94.60% | 100.0 | 452 | 0.190 | 1.405 | 20.340 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 643 | 45 | 93.46% | 45 | 93.50% | 100.0 | 349 | 0.040 | 1.447 | 23.100 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.430 | 0.657 | 0.850 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 4.467 | 45.590 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 1.776 | 6.380 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 4.442 | 43.990 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.200 | 0.393 | 0.670 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.170 | 0.882 | 4.360 |
| RUN TOTALS | | 2,286 | | 141 | 94.2% | 141 | 94.2% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s2Tb10 Seed: 222

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps =1/2, Fires/Checkfires combined = 1/2.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 2

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in avg) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|--------------|-------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | MCR | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.070 | 1.041 | 10.110 |
| K02.12 | COMMAND TO FIRE | F | 4 | 68 | 9 | 88.31% | 9 | 88.30% | 100.0 | 338 | 0.050 | 1.989 | 20.820 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.040 | 1.267 | 11.570 |
| K02.14 | MTO | F | 4 | 223 | 12 | 94.89% | 12 | 94.90% | 100.0 | 481 | 0.200 | 1.388 | 12.060 |
| K02.16 | EOM AND SRVLNC | F | 4 | 317 | 18 | 94.63% | 18 | 94.60% | 100.0 | 349 | 0.050 | 1.395 | 20.760 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.634 | 2.350 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.250 | 0.605 | 0.740 |
| K02.4 | CALL FOR FIRE | F | 4 | 385 | 22 | 94.59% | 22 | 94.60% | 100.0 | 452 | 0.200 | 1.394 | 21.740 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 645 | 43 | 93.75% | 43 | 93.80% | 100.0 | 349 | 0.040 | 1.408 | 20.880 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.290 | 0.728 | 1.030 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 5.918 | 99.780 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.620 | 1.958 | 13.060 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 254 | 1 | 99.61% | 2 | 99.20% | 99.6% | 1,989 | 1.020 | 5.089 | 74.850 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.370 | 2.295 | 11.150 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.110 | 2.902 | 32.800 |
| RUN TOTALS | | 2,319 | | 107 | 95.6% | | 108 | 95.6% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s3Tb10 Seed: 333

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps =1/2, Fires/Checkfires combined = 1/2.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 3

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 79 | 7 | 91.86% | 7 | 91.90% | 100.0 | 309 | 0.060 | 1.864 | 10.760 |
| K02.12 | COMMAND TO FIRE | F | 4 | 72 | 5 | 93.51% | 5 | 93.50% | 100.0 | 338 | 0.050 | 1.310 | 10.850 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.210 | 0.797 | 1.700 |
| K02.14 | MTO | F | 4 | 226 | 9 | 96.17% | 9 | 96.20% | 100.0 | 481 | 0.200 | 1.317 | 21.300 |
| K02.16 | EOM AND SRVLNC | F | 4 | 327 | 8 | 97.61% | 8 | 97.60% | 100.0 | 349 | 0.070 | 0.869 | 10.810 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.848 | 2.640 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.150 | 1.342 | 10.820 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.200 | 1.169 | 11.300 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 650 | 38 | 94.48% | 38 | 94.50% | 100.0 | 349 | 0.040 | 1.316 | 20.920 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.240 | 0.707 | 0.990 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 7.934 | 572.88 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.760 | 1.706 | 4.250 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 254 | 2 | 99.22% | 2 | 99.20% | 100.0 | 1,989 | 1.030 | 5.870 | 111.41 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.670 | 0.847 | 1.010 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.110 | 1.043 | 7.320 |
| RUN TOTALS | | 2,344 | | 83 | 96.6% | | 83 | 96.6% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s4Tb10 Seed: 444 Mission Thread SOS COMPLETIONS RATES

| MsgId: | | SOS RQMT (secs) | Met SOS | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT TIMES | | |
|--------|----------------------|-----------------------|---------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------------|-------|--------|
| | | | | NET | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.080 | 0.784 | 10.480 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.050 | 0.740 | 10.240 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.742 | 2.180 |
| K02.14 | MTO | F | 4 | 225 | 10 | 95.74% | 10 | 95.70% | 100.0 | 481 | 0.190 | 1.310 | 12.330 |
| K02.16 | EOM AND SRVLNC | F | 4 | 324 | 10 | 97.01% | 11 | 96.70% | 99.7% | 349 | 0.050 | 1.008 | 20.360 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.150 | 0.964 | 10.430 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 1.005 | 1.690 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.190 | 1.233 | 21.760 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 664 | 24 | 96.51% | 24 | 96.50% | 100.0 | 349 | 0.040 | 1.185 | 34.160 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.472 | 0.860 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.530 | 4.490 | 54.280 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 1.092 | 3.250 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 254 | 0 | 100.00% | 2 | 99.20% | 99.2% | 1,989 | 1.020 | 5.402 | 52.680 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.670 | 0.938 | 1.190 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.841 | 1.800 |
| | | RUN TOTALS | | 2,364 | 60 | 97.5% | 63 | 97.4% | 99.88% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s5Tb10 Seed: 555

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps =1/2, Fires/Checkfires combined = 1/2.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 5

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.070 | 0.743 | 10.240 |
| K02.12 | COMMAND TO FIRE | F | 4 | 71 | 6 | 92.21% | 6 | 92.20% | 100.0 | 338 | 0.360 | 2.186 | 33.860 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.681 | 2.550 |
| K02.14 | MTO | F | 4 | 220 | 15 | 93.62% | 15 | 93.60% | 100.0 | 481 | 0.190 | 1.495 | 20.980 |
| K02.16 | EOM AND SRVLNC | F | 4 | 325 | 10 | 97.01% | 10 | 97.00% | 100.0 | 349 | 0.050 | 0.944 | 11.020 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.100 | 0.887 | 11.690 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.585 | 2.770 |
| K02.4 | CALL FOR FIRE | F | 4 | 395 | 12 | 97.05% | 12 | 97.10% | 100.0 | 452 | 0.190 | 1.173 | 21.130 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 646 | 42 | 93.90% | 42 | 93.90% | 100.0 | 349 | 0.040 | 1.350 | 20.930 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.520 | 0.890 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 5.496 | 36.180 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.770 | 9.072 | 33.840 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.010 | 4.868 | 39.440 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.290 | 0.800 | 1.050 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.370 | 0.799 | 2.340 |
| RUN TOTALS | | 2,340 | | 87 | 96.4% | | 87 | 96.4% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s6Tb10 Seed: 666

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires/Checkfires combined = 1/2.
 SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
 both the FA Bn & all other FS assets.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 6

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-------------------|--------|-----------------------|-------------|------------------|-------------------------------|--------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 82 | 4 | 95.35% | 4 | 95.30% | 100.0 | 309 | 0.030 | 1.047 | 10.810 |
| K02.12 | COMMAND TO FIRE | F | 4 | 73 | 4 | 94.81% | 4 | 94.80% | 100.0 | 338 | 0.270 | 1.590 | 10.970 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.663 | 2.190 |
| K02.14 | MTO | F | 4 | 219 | 16 | 93.19% | 16 | 93.20% | 100.0 | 481 | 0.190 | 1.465 | 21.880 |
| K02.16 | EOM AND SRVLNC | F | 4 | 317 | 18 | 94.63% | 18 | 94.60% | 100.0 | 349 | 0.060 | 1.259 | 10.880 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.730 | 1.880 |
| K02.25 | EOM NOTIFICATION | F | 4 | 12 | 5 | 70.59% | 5 | 70.60% | 100.0 | 180 | 0.110 | 3.581 | 10.740 |
| K02.4 | CALL FOR FIRE | F | 4 | 378 | 29 | 92.87% | 29 | 92.90% | 100.0 | 452 | 0.190 | 1.742 | 39.130 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 648 | 40 | 94.19% | 40 | 94.20% | 100.0 | 349 | 0.040 | 1.382 | 32.920 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.140 | 0.517 | 0.930 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 4.288 | 45.210 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 2.364 | 10.920 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.030 | 4.387 | 42.200 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.220 | 1.010 | 1.910 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.240 | 0.686 | 1.500 |
| | | RUN TOTALS | | 2,311 | 116 | 95.2% | 116 | 95.2% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s7Tb10 Seed: 777

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires/Checkfires combined = 1/2.
 SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
 both the FA Bn & all other FS assets.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 7

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in max) | FIRST RECEIPT | | |
|--------|----------------------|-------------------|--------|-----------------------|-------------|------------------|-------------------------------|--------------|------------------|---------------|-------|--------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 77 | 9 | 89.53% | 9 | 89.50% | 100.0 | 309 | 0.050 | 1.888 20.580 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.050 | 0.783 10.430 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.634 1.640 |
| K02.14 | MTO | F | 4 | 221 | 14 | 94.04% | 14 | 94.00% | 100.0 | 481 | 0.200 | 1.440 12.760 |
| K02.16 | EOM AND SRVLNC | F | 4 | 324 | 11 | 96.72% | 11 | 96.70% | 100.0 | 349 | 0.060 | 0.915 11.380 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.678 1.910 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.390 | 0.938 1.740 |
| K02.4 | CALL FOR FIRE | F | 4 | 396 | 11 | 97.30% | 11 | 97.30% | 100.0 | 452 | 0.190 | 1.160 20.970 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 652 | 36 | 94.77% | 36 | 94.80% | 100.0 | 349 | 0.040 | 1.252 21.520 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.180 | 0.473 0.860 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.530 | 5.051 42.130 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.390 | 0.932 1.970 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 253 | 0 | 100.00% | 3 | 98.80% | 98.8% | 1,989 | 1.030 | 4.472 42.690 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 0.517 0.800 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.450 | 0.800 2.580 |
| | | RUN TOTALS | | 2,341 | 83 | 96.6% | 86 | 96.5% | 99.88% | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s8Tb10 Seed: 888

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps =1/2, Fires/Checkfires combined = 1/2.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 8

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|--------------|--------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 83 | 3 | 96.51% | 3 | 96.50% | 100.0 | 309 | 0.060 | 0.964 | 11.760 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.170 | 1.093 | 20.800 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.837 | 1.900 |
| K02.14 | MTO | F | 4 | 222 | 12 | 94.87% | 13 | 94.50% | 99.6% | 481 | 0.190 | 1.487 | 33.070 |
| K02.16 | EOM AND SRVLNC | F | 4 | 319 | 16 | 95.22% | 16 | 95.20% | 100.0 | 349 | 0.050 | 1.060 | 11.420 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.837 | 1.600 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.110 | 0.711 | 4.010 |
| K02.4 | CALL FOR FIRE | F | 4 | 391 | 16 | 96.07% | 16 | 96.10% | 100.0 | 452 | 0.180 | 1.291 | 21.290 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 655 | 33 | 95.20% | 33 | 95.20% | 100.0 | 349 | 0.040 | 1.258 | 20.880 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.290 | 0.822 | 1.760 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 4.043 | 34.240 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 0.620 | 2.100 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 4.080 | 39.200 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.220 | 0.440 | 0.860 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.230 | 0.790 | 2.210 |
| RUN TOTALS | | 2,343 | | 83 | 96.6% | | 84 | 96.5% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s9Tb10 Seed: 999

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps =1/2, Fires/Checkfires combined = 1/2.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 9

| MsgId: | | SOS RQMT | NET (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT TIMES | | |
|-------------------|----------------------|---------------------|-----------------------|----------------------------------|--------------------|--------------|--|--------------|---------------|---------------------|----------------------------|------------|------------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 74 | 12 | 86.05% | 12 | 86.00% | 100.0 | 309 | 0.180 | 1.569 | 11.060 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.140 | 1.045 | 10.950 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.855 | 3.470 |
| K02.14 | MTO | F | 4 | 224 | 11 | 95.32% | 11 | 95.30% | 100.0 | 481 | 0.190 | 1.265 | 21.310 |
| K02.16 | EOM AND SRVLNC | F | 4 | 327 | 8 | 97.61% | 8 | 97.60% | 100.0 | 349 | 0.040 | 0.975 | 33.770 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.440 | 0.930 |
| K02.25 | EOM NOTIFICATION | F | 4 | 12 | 5 | 70.59% | 5 | 70.60% | 100.0 | 180 | 0.250 | 4.204 | 10.940 |
| K02.4 | CALL FOR FIRE | F | 4 | 396 | 8 | 98.02% | 11 | 97.30% | 99.3% | 452 | 0.190 | 0.975 | 11.220 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 657 | 31 | 95.49% | 31 | 95.50% | 100.0 | 349 | 0.040 | 1.221 | 31.760 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.472 | 1.000 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.624 | 45.570 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 2.224 | 5.390 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.010 | 4.147 | 38.330 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.370 | 0.655 | 0.990 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.250 | 0.777 | 4.200 |
| RUN TOTALS | | | | 2,347 | 77 | 96.8% | 80 | 96.7% | 99.88% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s10Tb10 Seed: 1010

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps =1/2, Fires/Checkfires combined = 1/2.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 10

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in max) | FIRST RECEIPT | | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------------|-------------------------|--------------------------------------|--------------|-------------------------|----------------------|------------|------------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | MCR | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 83 | 3 | 96.51% | 3 | 96.50% | 100.0 | 309 | 0.090 | 1.172 | 10.800 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 1 | 98.68% | 2 | 97.40% | 98.7% | 338 | 0.040 | 0.675 | 10.980 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.686 | 1.770 |
| K02.14 | MTO | F | 4 | 230 | 5 | 97.87% | 5 | 97.90% | 100.0 | 481 | 0.210 | 1.113 | 13.200 |
| K02.16 | EOM AND SRVLNC | F | 4 | 329 | 6 | 98.21% | 6 | 98.20% | 100.0 | 349 | 0.050 | 0.813 | 11.380 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.030 | 0.986 | 11.120 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.070 | 1.236 | 10.670 |
| K02.4 | CALL FOR FIRE | F | 4 | 399 | 8 | 98.03% | 8 | 98.00% | 100.0 | 452 | 0.190 | 1.060 | 11.440 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 657 | 31 | 95.49% | 31 | 95.50% | 100.0 | 349 | 0.040 | 1.191 | 21.260 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.290 | 0.612 | 0.990 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.826 | 41.410 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 1.617 | 4.820 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 254 | 2 | 99.22% | 2 | 99.20% | 100.0 | 1,989 | 1.020 | 4.875 | 103.68 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.200 | 0.470 | 1.020 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.870 | 3.770 |
| RUN TOTALS | | 2,368 | | 58 | 97.6% | | 59 | 97.6% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s11Tb10 Seed: 1111

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps =1/2, Fires/Checkfires combined = 1/2.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 11

| MsgId: | | SOS RQMT | | Destinations Reached, | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------|--------|-----------------------|--------------|------------------|-------------------------------|---------------|-------------------|---------------|-------|-------|--------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.070 | 1.443 | 11.180 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.130 | 1.007 | 10.340 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.840 | 3.490 |
| K02.14 | MTO | F | 4 | 225 | 10 | 95.74% | 10 | 95.70% | 100.0 | 481 | 0.200 | 1.380 | 33.400 |
| K02.16 | EOM AND SRVLNC | F | 4 | 318 | 17 | 94.93% | 17 | 94.90% | 100.0 | 349 | 0.070 | 1.208 | 20.210 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.090 | 0.744 | 1.190 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.578 | 1.350 |
| K02.4 | CALL FOR FIRE | F | 4 | 395 | 12 | 97.05% | 12 | 97.10% | 100.0 | 452 | 0.200 | 1.144 | 20.760 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 646 | 42 | 93.90% | 42 | 93.90% | 100.0 | 349 | 0.040 | 1.399 | 34.510 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.350 | 0.780 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 4.369 | 37.500 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.910 | 5.313 | 23.450 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 3.914 | 36.950 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.950 | 1.322 | 1.900 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.260 | 1.106 | 6.190 |
| RUN TOTALS | | 2,339 | | 88 | 96.4% | 88 | 96.4% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai9s12Tb10 Seed: 1212

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1/2, Fires/Checkfires combined = 1/2.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 12

| MsgId: | | SOS RQMT | | Destinations Reached, | | | All Destinations | | | AVG MSG (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|---------------|------------------------------|--------------|---------|-------------------------------|--------------|---------------|--------------------------|----------------------|------------|------------|
| | | NET | (secs) | Met | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 79 | 7 | 91.86% | 7 | 91.90% | 100.0 | 309 | 0.080 | 1.624 | 10.960 |
| K02.12 | COMMAND TO FIRE | F | 4 | 71 | 6 | 92.21% | 6 | 92.20% | 100.0 | 338 | 0.150 | 1.451 | 22.460 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.070 | 1.111 | 10.720 |
| K02.14 | MTO | F | 4 | 223 | 12 | 94.89% | 12 | 94.90% | 100.0 | 481 | 0.220 | 1.531 | 21.020 |
| K02.16 | EOM AND SRVLNC | F | 4 | 318 | 17 | 94.93% | 17 | 94.90% | 100.0 | 349 | 0.050 | 1.201 | 20.540 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.120 | 0.818 | 2.760 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.120 | 0.569 | 1.250 |
| K02.4 | CALL FOR FIRE | F | 4 | 387 | 19 | 95.32% | 20 | 95.10% | 99.8% | 452 | 0.200 | 1.381 | 20.800 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 655 | 33 | 95.20% | 33 | 95.20% | 100.0 | 349 | 0.040 | 1.268 | 20.450 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.492 | 0.950 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 5.746 | 85.150 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 2.346 | 6.090 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 255 | 1 | 99.61% | 1 | 99.60% | 100.0 | 1,989 | 1.020 | 4.607 | 68.400 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.230 | 0.872 | 1.330 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.596 | 0.990 |
| RUN TOTALS | | 2,330 | | 96 | 96.0% | | 97 | 96.0% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s1Tb10 Seed: 128

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 83 | 3 | 96.51% | 3 | 96.50% | 100.0 | 309 | 0.100 | 1.295 | 10.520 |
| K02.12 | COMMAND TO FIRE | F | 4 | 55 | 10 | 84.62% | 22 | 71.40% | 84.4% | 338 | 0.190 | 3.199 | 32.280 |
| K02.13 | MISSION CLEARANCE | F | 4 | 20 | 6 | 76.92% | 6 | 76.90% | 100.0 | 210 | 0.140 | 2.281 | 5.760 |
| K02.14 | MTO | F | 4 | 179 | 46 | 79.56% | 56 | 76.20% | 95.7% | 481 | 0.380 | 4.253 | 55.310 |
| K02.16 | EOM AND SRVLNC | F | 4 | 238 | 75 | 76.04% | 97 | 71.00% | 93.4% | 349 | 0.040 | 6.032 | 66.670 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 180 | 0.040 | 2.202 | 13.440 |
| K02.25 | EOM NOTIFICATION | F | 4 | 10 | 7 | 58.82% | 7 | 58.80% | 100.0 | 180 | 0.290 | 6.851 | 16.630 |
| K02.4 | CALL FOR FIRE | F | 4 | 314 | 80 | 79.70% | 93 | 77.10% | 96.8% | 452 | 0.350 | 4.911 | 71.930 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 486 | 158 | 75.47% | 202 | 70.60% | 93.6% | 349 | 0.040 | 4.832 | 44.070 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.240 | 0.515 | 0.780 |
| K02.11 | AMMO INVENTORY | O | 600 | 218 | 0 | 100.00% | 14 | 94.00% | 94.0% | 3,005 | 1.520 | 4.059 | 39.210 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.410 | 0.753 | 1.190 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 242 | 0 | 100.00% | 14 | 94.50% | 94.5% | 1,989 | 1.020 | 3.245 | 36.800 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.190 | 0.842 | 1.480 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.496 | 1.640 |
| RUN TOTALS | | | | 1,909 | 389 | 83.1% | 518 | 78.7% | 94.68% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s2Tb10 Seed: 222

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 2

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.100 | 1.538 | 11.050 |
| K02.12 | COMMAND TO FIRE | F | 4 | 57 | 20 | 74.03% | 20 | 74.00% | 100.0 | 338 | 0.150 | 4.728 | 21.890 |
| K02.13 | MISSION CLEARANCE | F | 4 | 23 | 3 | 88.46% | 3 | 88.50% | 100.0 | 210 | 0.070 | 2.241 | 18.490 |
| K02.14 | MTO | F | 4 | 186 | 48 | 79.49% | 49 | 79.10% | 99.6% | 481 | 0.360 | 3.765 | 40.110 |
| K02.16 | EOM AND SRVLNC | F | 4 | 217 | 111 | 66.16% | 118 | 64.80% | 97.9% | 349 | 0.070 | 4.775 | 42.440 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 21 | 5 | 80.77% | 5 | 80.80% | 100.0 | 180 | 0.200 | 2.221 | 7.440 |
| K02.25 | EOM NOTIFICATION | F | 4 | 10 | 7 | 58.82% | 7 | 58.80% | 100.0 | 180 | 0.290 | 7.522 | 32.330 |
| K02.4 | CALL FOR FIRE | F | 4 | 322 | 85 | 79.12% | 85 | 79.10% | 100.0 | 452 | 0.350 | 4.273 | 94.870 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 513 | 169 | 75.22% | 175 | 74.60% | 99.1% | 349 | 0.040 | 5.125 | 105.65 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.140 | 0.730 | 1.660 |
| K02.11 | AMMO INVENTORY | O | 600 | 226 | 0 | 100.00% | 6 | 97.40% | 97.4% | 3,005 | 1.520 | 3.695 | 34.180 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 0.567 | 1.530 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 250 | 0 | 100.00% | 6 | 97.70% | 97.7% | 1,989 | 1.010 | 3.254 | 22.530 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.190 | 0.602 | 1.170 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.170 | 1.034 | 2.420 |
| RUN TOTALS | | | | 1,952 | 449 | 81.3% | 475 | 80.4% | 98.93% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s3Tb10 Seed: 333

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 3

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.100 | 1.038 | 4.250 |
| K02.12 | COMMAND TO FIRE | F | 4 | 54 | 17 | 76.06% | 23 | 70.10% | 92.2% | 338 | 0.410 | 4.229 | 28.350 |
| K02.13 | MISSION CLEARANCE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 210 | 0.080 | 2.042 | 11.200 |
| K02.14 | MTO | F | 4 | 168 | 65 | 72.10% | 67 | 71.50% | 99.1% | 481 | 0.360 | 5.218 | 33.710 |
| K02.16 | EOM AND SRVLNC | F | 4 | 238 | 80 | 74.84% | 97 | 71.00% | 94.9% | 349 | 0.190 | 4.617 | 68.770 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.090 | 1.840 | 20.460 |
| K02.25 | EOM NOTIFICATION | F | 4 | 10 | 7 | 58.82% | 7 | 58.80% | 100.0 | 180 | 0.630 | 5.028 | 23.230 |
| K02.4 | CALL FOR FIRE | F | 4 | 321 | 86 | 78.87% | 86 | 78.90% | 100.0 | 452 | 0.340 | 4.135 | 35.620 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 501 | 168 | 74.89% | 187 | 72.80% | 97.2% | 349 | 0.040 | 4.871 | 75.670 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.492 | 0.750 |
| K02.11 | AMMO INVENTORY | O | 600 | 220 | 0 | 100.00% | 12 | 94.80% | 94.8% | 3,005 | 1.520 | 4.037 | 45.320 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.603 | 1.190 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 241 | 0 | 100.00% | 15 | 94.10% | 94.1% | 1,989 | 1.020 | 4.216 | 46.370 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.230 | 0.425 | 0.880 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.230 | 0.699 | 1.640 |
| RUN TOTALS | | | | 1,927 | 429 | 81.8% | 500 | 79.4% | 97.07% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s4Tb10 Seed: 444

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 4

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.090 | 1.436 | 11.340 |
| K02.12 | COMMAND TO FIRE | F | 4 | 49 | 28 | 63.64% | 28 | 63.60% | 100.0 | 338 | 0.430 | 5.019 | 24.650 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.090 | 1.265 | 5.170 |
| K02.14 | MTO | F | 4 | 171 | 59 | 74.35% | 64 | 72.80% | 97.9% | 481 | 0.410 | 5.639 | 128.87 |
| K02.16 | EOM AND SRVLNC | F | 4 | 220 | 99 | 68.97% | 115 | 65.70% | 95.2% | 349 | 0.040 | 9.160 | 141.45 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 21 | 5 | 80.77% | 5 | 80.80% | 100.0 | 180 | 0.350 | 3.524 | 21.350 |
| K02.25 | EOM NOTIFICATION | F | 4 | 13 | 4 | 76.47% | 4 | 76.50% | 100.0 | 180 | 0.400 | 6.965 | 47.410 |
| K02.4 | CALL FOR FIRE | F | 4 | 277 | 122 | 69.42% | 130 | 68.10% | 98.0% | 452 | 0.340 | 5.249 | 69.190 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 493 | 176 | 73.69% | 195 | 71.70% | 97.2% | 349 | 0.040 | 6.590 | 154.10 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.587 | 1.030 |
| K02.11 | AMMO INVENTORY | O | 600 | 221 | 0 | 100.00% | 11 | 95.30% | 95.3% | 3,005 | 1.510 | 3.359 | 34.220 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.400 | 0.702 | 1.190 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 244 | 0 | 100.00% | 12 | 95.30% | 95.3% | 1,989 | 1.010 | 2.821 | 20.900 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.450 | 0.728 | 1.100 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.170 | 0.776 | 2.510 |
| RUN TOTALS | | | | 1,861 | 495 | 79.0% | 566 | 76.7% | 97.07% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s5Tb10 Seed: 555

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 5

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.500 | 1.240 | 4.190 |
| K02.12 | COMMAND TO FIRE | F | 4 | 63 | 14 | 81.82% | 14 | 81.80% | 100.0 | 338 | 0.110 | 6.591 | 144.10 |
| K02.13 | MISSION CLEARANCE | F | 4 | 21 | 5 | 80.77% | 5 | 80.80% | 100.0 | 210 | 0.360 | 3.082 | 19.980 |
| K02.14 | MTO | F | 4 | 183 | 43 | 80.97% | 52 | 77.90% | 96.2% | 481 | 0.370 | 4.106 | 33.840 |
| K02.16 | EOM AND SRVLNC | F | 4 | 220 | 105 | 67.69% | 115 | 65.70% | 97.0% | 349 | 0.070 | 7.819 | 76.970 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 180 | 0.040 | 1.970 | 16.000 |
| K02.25 | EOM NOTIFICATION | F | 4 | 13 | 4 | 76.47% | 4 | 76.50% | 100.0 | 180 | 0.360 | 4.555 | 21.170 |
| K02.4 | CALL FOR FIRE | F | 4 | 290 | 109 | 72.68% | 117 | 71.30% | 98.0% | 452 | 0.350 | 4.631 | 43.630 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 473 | 201 | 70.18% | 215 | 68.80% | 98.0% | 349 | 0.040 | 5.609 | 36.720 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.320 | 0.728 | 1.000 |
| K02.11 | AMMO INVENTORY | O | 600 | 225 | 0 | 100.00% | 7 | 97.00% | 97.0% | 3,005 | 1.520 | 3.973 | 32.960 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.680 | 1.668 | 4.100 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 249 | 0 | 100.00% | 7 | 97.30% | 97.3% | 1,989 | 1.010 | 3.241 | 31.070 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.230 | 0.508 | 1.020 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.500 | 0.891 | 1.990 |
| RUN TOTALS | | | | 1,887 | 485 | 79.6% | 540 | 77.8% | 97.73% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s6Tb10 Seed: 666

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 6

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|--------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.240 | 1.190 | 10.760 |
| K02.12 | COMMAND TO FIRE | F | 4 | 66 | 11 | 85.71% | 11 | 85.70% | 100.0 | 338 | 0.140 | 5.534 | 40.830 |
| K02.13 | MISSION CLEARANCE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 210 | 0.180 | 3.117 | 12.860 |
| K02.14 | MTO | F | 4 | 176 | 58 | 75.21% | 59 | 74.90% | 99.6% | 481 | 0.350 | 4.969 | 54.190 |
| K02.16 | EOM AND SRVLNC | F | 4 | 214 | 116 | 64.85% | 121 | 63.90% | 98.5% | 349 | 0.080 | 6.615 | 59.550 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 23 | 3 | 88.46% | 3 | 88.50% | 100.0 | 180 | 0.080 | 1.870 | 12.780 |
| K02.25 | EOM NOTIFICATION | F | 4 | 15 | 2 | 88.24% | 2 | 88.20% | 100.0 | 180 | 0.110 | 11.886 | 88.320 |
| K02.4 | CALL FOR FIRE | F | 4 | 304 | 101 | 75.06% | 103 | 74.70% | 99.5% | 452 | 0.360 | 4.832 | 49.380 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 461 | 224 | 67.30% | 227 | 67.00% | 99.6% | 349 | 0.050 | 5.554 | 39.960 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.280 | 0.495 | 0.890 |
| K02.11 | AMMO INVENTORY | O | 600 | 228 | 0 | 100.00% | 4 | 98.30% | 98.3% | 3,005 | 1.530 | 3.419 | 19.960 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.370 | 1.850 | 6.950 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 251 | 0 | 100.00% | 5 | 98.00% | 98.0% | 1,989 | 1.040 | 2.851 | 22.580 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.340 | 0.478 | 0.880 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.625 | 0.940 |
| RUN TOTALS | | | | 1,887 | 520 | 78.4% | 540 | 77.8% | 99.18% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s7Tb10 Seed: 777

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 7

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 72 | 1 | 98.63% | 14 | 83.70% | 84.9% | 309 | 0.220 | 1.172 | 11.050 |
| K02.12 | COMMAND TO FIRE | F | 4 | 57 | 14 | 80.28% | 20 | 74.00% | 92.2% | 338 | 0.130 | 3.112 | 31.590 |
| K02.13 | MISSION CLEARANCE | F | 4 | 21 | 5 | 80.77% | 5 | 80.80% | 100.0 | 210 | 0.420 | 3.224 | 14.980 |
| K02.14 | MTO | F | 4 | 168 | 67 | 71.49% | 67 | 71.50% | 100.0 | 481 | 0.360 | 4.656 | 54.300 |
| K02.16 | EOM AND SRVLNC | F | 4 | 234 | 81 | 74.29% | 101 | 69.90% | 94.0% | 349 | 0.070 | 6.085 | 60.990 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 180 | 0.030 | 2.097 | 7.470 |
| K02.25 | EOM NOTIFICATION | F | 4 | 15 | 1 | 93.75% | 2 | 88.20% | 94.1% | 180 | 0.280 | 1.212 | 4.300 |
| K02.4 | CALL FOR FIRE | F | 4 | 303 | 103 | 74.63% | 104 | 74.40% | 99.8% | 452 | 0.350 | 5.052 | 55.180 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 492 | 173 | 73.98% | 196 | 71.50% | 96.7% | 349 | 0.050 | 5.218 | 66.620 |
| K01.3 | INFO REQ MSG | O | 600 | 5 | 0 | 100.00% | 1 | 83.30% | 83.3% | 390 | 0.150 | 0.452 | 0.750 |
| K02.11 | AMMO INVENTORY | O | 600 | 219 | 0 | 100.00% | 13 | 94.40% | 94.4% | 3,005 | 1.530 | 3.243 | 23.930 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.410 | 0.834 | 1.190 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 240 | 0 | 100.00% | 16 | 93.80% | 93.8% | 1,989 | 1.010 | 3.104 | 23.660 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.190 | 0.595 | 0.880 |
| K05.1 | POSITION REPORT | O | 60 | 10 | 0 | 100.00% | 4 | 71.40% | 71.4% | 299 | 0.350 | 0.836 | 1.020 |
| RUN TOTALS | | | | 1,880 | 449 | 80.7% | 547 | 77.5% | 95.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s8Tb10 Seed: 888

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 8

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.260 | 1.215 | 4.280 |
| K02.12 | COMMAND TO FIRE | F | 4 | 56 | 14 | 80.00% | 21 | 72.70% | 90.9% | 338 | 0.190 | 2.002 | 7.030 |
| K02.13 | MISSION CLEARANCE | F | 4 | 21 | 5 | 80.77% | 5 | 80.80% | 100.0 | 210 | 0.080 | 2.843 | 15.290 |
| K02.14 | MTO | F | 4 | 168 | 54 | 75.68% | 67 | 71.50% | 94.5% | 481 | 0.370 | 3.607 | 31.750 |
| K02.16 | EOM AND SRVLNC | F | 4 | 191 | 127 | 60.06% | 144 | 57.00% | 94.9% | 349 | 0.070 | 7.077 | 462.05 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.040 | 2.012 | 9.990 |
| K02.25 | EOM NOTIFICATION | F | 4 | 11 | 6 | 64.71% | 6 | 64.70% | 100.0 | 180 | 0.140 | 5.767 | 22.600 |
| K02.4 | CALL FOR FIRE | F | 4 | 303 | 92 | 76.71% | 104 | 74.40% | 97.1% | 452 | 0.350 | 4.295 | 74.820 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 482 | 173 | 73.59% | 206 | 70.10% | 95.2% | 349 | 0.050 | 5.594 | 103.17 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.240 | 0.920 | 1.500 |
| K02.11 | AMMO INVENTORY | O | 600 | 221 | 0 | 100.00% | 11 | 95.30% | 95.3% | 3,005 | 1.520 | 3.418 | 17.710 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.250 | 2.204 | 10.720 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 246 | 0 | 100.00% | 10 | 96.10% | 96.1% | 1,989 | 1.010 | 3.442 | 21.820 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.510 | 0.780 | 1.100 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.110 | 1.064 | 4.010 |
| RUN TOTALS | | | | 1,851 | 473 | 79.6% | 576 | 76.3% | 95.76% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s9Tb10 Seed: 999

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 9

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 81 | 5 | 94.19% | 5 | 94.20% | 100.0 | 309 | 0.210 | 1.622 | 11.920 |
| K02.12 | COMMAND TO FIRE | F | 4 | 62 | 15 | 80.52% | 15 | 80.50% | 100.0 | 338 | 0.140 | 3.048 | 12.660 |
| K02.13 | MISSION CLEARANCE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 210 | 0.070 | 1.503 | 6.590 |
| K02.14 | MTO | F | 4 | 191 | 39 | 83.04% | 44 | 81.30% | 97.9% | 481 | 0.370 | 3.239 | 29.980 |
| K02.16 | EOM AND SRVLNC | F | 4 | 232 | 82 | 73.89% | 103 | 69.30% | 93.7% | 349 | 0.050 | 7.098 | 427.84 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 180 | 0.100 | 2.237 | 14.420 |
| K02.25 | EOM NOTIFICATION | F | 4 | 14 | 3 | 82.35% | 3 | 82.40% | 100.0 | 180 | 0.120 | 2.950 | 11.950 |
| K02.4 | CALL FOR FIRE | F | 4 | 300 | 101 | 74.81% | 107 | 73.70% | 98.5% | 452 | 0.340 | 4.276 | 32.970 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 519 | 145 | 78.16% | 169 | 75.40% | 96.5% | 349 | 0.040 | 4.026 | 34.560 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.290 | 0.663 | 0.960 |
| K02.11 | AMMO INVENTORY | O | 600 | 217 | 0 | 100.00% | 15 | 93.50% | 93.5% | 3,005 | 1.510 | 3.787 | 45.060 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.942 | 2.690 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 241 | 0 | 100.00% | 15 | 94.10% | 94.1% | 1,989 | 1.010 | 3.457 | 24.100 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.670 | 1.633 | 2.900 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.706 | 2.300 |
| RUN TOTALS | | | | 1,947 | 394 | 83.2% | 480 | 80.2% | 96.46% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s10Tb10 Seed: 1010

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 10

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|--------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.200 | 0.858 | 2.850 |
| K02.12 | COMMAND TO FIRE | F | 4 | 66 | 8 | 89.19% | 11 | 85.70% | 96.1% | 338 | 0.130 | 13.374 | 490.84 |
| K02.13 | MISSION CLEARANCE | F | 4 | 21 | 5 | 80.77% | 5 | 80.80% | 100.0 | 210 | 0.210 | 2.383 | 7.030 |
| K02.14 | MTO | F | 4 | 169 | 57 | 74.78% | 66 | 71.90% | 96.2% | 481 | 0.420 | 6.774 | 514.25 |
| K02.16 | EOM AND SRVLNC | F | 4 | 247 | 73 | 77.19% | 88 | 73.70% | 95.5% | 349 | 0.060 | 9.055 | 497.90 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 180 | 0.040 | 2.300 | 12.590 |
| K02.25 | EOM NOTIFICATION | F | 4 | 10 | 7 | 58.82% | 7 | 58.80% | 100.0 | 180 | 0.650 | 5.562 | 33.280 |
| K02.4 | CALL FOR FIRE | F | 4 | 317 | 82 | 79.45% | 90 | 77.90% | 98.0% | 452 | 0.340 | 4.158 | 37.890 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 476 | 196 | 70.83% | 212 | 69.20% | 97.7% | 349 | 0.040 | 5.975 | 100.36 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.993 | 4.270 |
| K02.11 | AMMO INVENTORY | O | 600 | 227 | 0 | 100.00% | 5 | 97.80% | 97.8% | 3,005 | 1.510 | 3.371 | 31.770 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 5.404 | 12.500 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 251 | 0 | 100.00% | 5 | 98.00% | 98.0% | 1,989 | 1.010 | 3.219 | 31.290 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.730 | 3.072 | 13.420 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.250 | 0.636 | 1.510 |
| RUN TOTALS | | | | 1,936 | 430 | 81.8% | 491 | 79.8% | 97.49% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s11Tb10 Seed: 1111

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 11

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.210 | 1.210 | 3.990 |
| K02.12 | COMMAND TO FIRE | F | 4 | 54 | 16 | 77.14% | 23 | 70.10% | 90.9% | 338 | 1.300 | 2.987 | 22.680 |
| K02.13 | MISSION CLEARANCE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 210 | 0.180 | 2.123 | 8.150 |
| K02.14 | MTO | F | 4 | 181 | 49 | 78.70% | 54 | 77.00% | 97.9% | 481 | 0.350 | 4.251 | 31.820 |
| K02.16 | EOM AND SRVLNC | F | 4 | 218 | 104 | 67.70% | 117 | 65.10% | 96.1% | 349 | 0.060 | 6.662 | 298.65 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 180 | 0.090 | 2.828 | 15.430 |
| K02.25 | EOM NOTIFICATION | F | 4 | 15 | 2 | 88.24% | 2 | 88.20% | 100.0 | 180 | 0.570 | 2.492 | 7.890 |
| K02.4 | CALL FOR FIRE | F | 4 | 314 | 88 | 78.11% | 93 | 77.10% | 98.8% | 452 | 0.340 | 4.414 | 74.210 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 504 | 166 | 75.22% | 184 | 73.30% | 97.4% | 349 | 0.070 | 4.808 | 34.770 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.170 | 0.540 | 0.900 |
| K02.11 | AMMO INVENTORY | O | 600 | 224 | 0 | 100.00% | 8 | 96.60% | 96.6% | 3,005 | 1.510 | 3.035 | 19.000 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 2.587 | 13.880 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 248 | 0 | 100.00% | 8 | 96.90% | 96.9% | 1,989 | 1.020 | 2.932 | 21.670 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.730 | 1.155 | 1.900 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.781 | 1.990 |
| RUN TOTALS | | | | 1,932 | 431 | 81.8% | 495 | 79.6% | 97.36% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai10s12Tb10 Seed: 1212

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1/2, Fires = 1/4, Checkfires = 1/4.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 12

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|--------------------|---------------------------|-------------|--------------|----------------------------------|--------------|---------------|---------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 59 | 1 | 98.33% | 27 | 68.60% | 69.8% | 309 | 0.220 | 1.168 | 11.060 |
| K02.12 | COMMAND TO FIRE | F | 4 | 68 | 9 | 88.31% | 9 | 88.30% | 100.0 | 338 | 0.210 | 7.200 | 66.150 |
| K02.13 | MISSION CLEARANCE | F | 4 | 21 | 4 | 84.00% | 5 | 80.80% | 96.2% | 210 | 0.070 | 3.334 | 17.540 |
| K02.14 | MTO | F | 4 | 175 | 48 | 78.48% | 60 | 74.50% | 94.9% | 481 | 0.380 | 4.503 | 50.860 |
| K02.16 | EOM AND SRVLNC | F | 4 | 201 | 115 | 63.61% | 134 | 60.00% | 94.3% | 349 | 0.070 | 6.838 | 61.560 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 22 | 3 | 88.00% | 4 | 84.60% | 96.2% | 180 | 0.070 | 2.786 | 17.520 |
| K02.25 | EOM NOTIFICATION | F | 4 | 8 | 2 | 80.00% | 9 | 47.10% | 58.8% | 180 | 0.420 | 3.130 | 8.300 |
| K02.4 | CALL FOR FIRE | F | 4 | 278 | 107 | 72.21% | 129 | 68.30% | 94.6% | 452 | 0.350 | 4.882 | 69.690 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 491 | 157 | 75.77% | 197 | 71.40% | 94.2% | 349 | 0.040 | 5.180 | 50.190 |
| K01.3 | INFO REQ MSG | O | 600 | 4 | 0 | 100.00% | 2 | 66.70% | 66.7% | 390 | 0.470 | 0.930 | 1.490 |
| K02.11 | AMMO INVENTORY | O | 600 | 217 | 0 | 100.00% | 15 | 93.50% | 93.5% | 3,005 | 1.510 | 3.739 | 27.690 |
| K02.15 | FS COORD MEASURES | O | 60 | 8 | 0 | 100.00% | 8 | 50.00% | 50.0% | 641 | 0.900 | 1.142 | 2.390 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 240 | 0 | 100.00% | 16 | 93.80% | 93.8% | 1,989 | 1.020 | 3.380 | 33.370 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.200 | 0.613 | 1.160 |
| K05.1 | POSITION REPORT | O | 60 | 8 | 0 | 100.00% | 6 | 57.10% | 57.1% | 299 | 0.170 | 0.575 | 2.070 |
| RUN TOTALS | | | | 1,806 | 446 | 80.2% | 621 | 74.4% | 92.79% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf01 Seed: 128

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------------------------|----------------------------------|----------------|--------------------|-------------------------------------|--|--------------|-----------------------------------|----------------------|------------|------------|--------|
| | | | NET | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.130 | 1.852 | 22.060 |
| K02.12 | COMMAND TO FIRE | F | 4 | 63 | 14 | 81.82% | 14 | 81.80% | 100.0 | 338 | 0.040 | 4.072 | 20.540 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.314 | 0.610 |
| K02.14 | MTO | F | 4 | 226 | 9 | 96.17% | 9 | 96.20% | 100.0 | 481 | 0.120 | 1.367 | 40.550 |
| K02.16 | EOM AND SRVLNC | F | 4 | 326 | 9 | 97.31% | 9 | 97.30% | 100.0 | 349 | 0.080 | 1.089 | 40.490 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.040 | 1.089 | 20.360 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.363 | 0.500 |
| K02.4 | CALL FOR FIRE | F | 4 | 391 | 16 | 96.07% | 16 | 96.10% | 100.0 | 452 | 0.120 | 1.259 | 21.740 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 664 | 24 | 96.51% | 24 | 96.50% | 100.0 | 349 | 0.040 | 1.140 | 21.170 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 3.778 | 21.360 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.694 | 41.970 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.130 | 1.749 | 20.700 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 2.747 | 23.410 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 0.282 | 0.310 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.210 | 0.441 | 0.730 |
| RUN TOTALS | | | 2,348 | 79 | 96.7% | | 79 | 96.7% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf02 Seed: 222

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 2

| MsgId: | | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------------------------|----------------------------------|----------------|--------------------|-------------------------------------|--|--------------|-----------------------------------|----------------------|------------|------------|--------|
| | | | NET | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 79 | 7 | 91.86% | 7 | 91.90% | 100.0 | 309 | 0.040 | 2.125 | 20.390 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.110 | 0.906 | 20.490 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.494 | 1.710 |
| K02.14 | MTO | F | 4 | 227 | 8 | 96.60% | 8 | 96.60% | 100.0 | 481 | 0.140 | 1.137 | 20.680 |
| K02.16 | EOM AND SRVLNC | F | 4 | 312 | 23 | 93.13% | 23 | 93.10% | 100.0 | 349 | 0.040 | 1.878 | 40.160 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.040 | 1.056 | 20.150 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.150 | 0.391 | 0.640 |
| K02.4 | CALL FOR FIRE | F | 4 | 397 | 10 | 97.54% | 10 | 97.50% | 100.0 | 452 | 0.110 | 1.081 | 41.450 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 663 | 25 | 96.37% | 25 | 96.40% | 100.0 | 349 | 0.040 | 1.155 | 21.750 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.220 | 0.557 | 0.970 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.501 | 41.180 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 5.448 | 40.400 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.510 | 24.450 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.120 | 0.325 | 0.890 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.070 | 0.320 | 0.990 |
| RUN TOTALS | | | 2,351 | 76 | 96.9% | | 76 | 96.9% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf03 Seed: 333

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 3

| MsgId: | | SOS RQMT | NET (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|---------------------|-----------------------|----------------------------------|--------------------|--------------|--|--------------|---------------|---------------------|----------------------|------------|------------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | (in bits) | min | avg |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.040 | 0.298 | 1.210 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.070 | 1.064 | 20.380 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.130 | 0.387 | 1.350 |
| K02.14 | MTO | F | 4 | 223 | 12 | 94.89% | 12 | 94.90% | 100.0 | 481 | 0.130 | 1.447 | 20.660 |
| K02.16 | EOM AND SRVLNC | F | 4 | 314 | 21 | 93.73% | 21 | 93.70% | 100.0 | 349 | 0.050 | 1.924 | 40.080 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.360 | 1.370 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.418 | 0.560 |
| K02.4 | CALL FOR FIRE | F | 4 | 388 | 19 | 95.33% | 19 | 95.30% | 100.0 | 452 | 0.120 | 1.547 | 40.310 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 663 | 25 | 96.37% | 25 | 96.40% | 100.0 | 349 | 0.040 | 1.130 | 21.220 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.110 | 3.630 | 20.270 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.872 | 41.280 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.612 | 1.040 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 2.678 | 40.880 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 0.530 | 1.380 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.754 | 3.340 |
| RUN TOTALS | | | | 2,348 | 79 | 96.7% | 79 | 96.7% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf04 Seed: 444

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 4

| MsgId: | | SOS RQMT | NET (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|---------------------|-----------------------|----------------------------------|--------------------|--------------|--|--------------|---------------|---------------------|----------------------|------------|------------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 79 | 7 | 91.86% | 7 | 91.90% | 100.0 | 309 | 0.040 | 1.945 | 20.230 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.080 | 1.549 | 20.390 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.345 | 1.200 |
| K02.14 | MTO | F | 4 | 225 | 10 | 95.74% | 10 | 95.70% | 100.0 | 481 | 0.120 | 1.610 | 40.260 |
| K02.16 | EOM AND SRVLNC | F | 4 | 313 | 22 | 93.43% | 22 | 93.40% | 100.0 | 349 | 0.050 | 2.157 | 64.760 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.040 | 1.127 | 20.080 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.180 | 0.261 | 0.350 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.120 | 1.255 | 40.880 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 663 | 25 | 96.37% | 25 | 96.40% | 100.0 | 349 | 0.030 | 1.193 | 40.380 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.210 | 0.503 | 1.380 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 3.807 | 67.290 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.130 | 0.418 | 0.690 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.398 | 40.790 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.370 | 0.732 | 0.980 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.276 | 0.730 |
| RUN TOTALS | | | | 2,346 | 81 | 96.7% | 81 | 96.7% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf05 Seed: 555

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 5

| MsgId: | | SOS RQMT | NET (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|---------------------|-----------------------|----------------------------------|--------------------|--------------|--|--------------|---------------|---------------------|----------------------|------------|------------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 77 | 9 | 89.53% | 9 | 89.50% | 100.0 | 309 | 0.030 | 2.731 | 41.210 |
| K02.12 | COMMAND TO FIRE | F | 4 | 69 | 8 | 89.61% | 8 | 89.60% | 100.0 | 338 | 0.140 | 3.804 | 40.240 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.060 | 1.057 | 20.480 |
| K02.14 | MTO | F | 4 | 222 | 13 | 94.47% | 13 | 94.50% | 100.0 | 481 | 0.130 | 1.648 | 21.670 |
| K02.16 | EOM AND SRVLNC | F | 4 | 329 | 6 | 98.21% | 6 | 98.20% | 100.0 | 349 | 0.040 | 0.901 | 40.110 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.100 | 0.411 | 1.800 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.100 | 0.734 | 1.420 |
| K02.4 | CALL FOR FIRE | F | 4 | 385 | 22 | 94.59% | 22 | 94.60% | 100.0 | 452 | 0.120 | 1.613 | 40.900 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 665 | 23 | 96.66% | 23 | 96.70% | 100.0 | 349 | 0.040 | 1.107 | 40.490 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.247 | 0.490 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.691 | 41.130 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.130 | 0.359 | 0.610 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 3.131 | 40.980 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.170 | 0.423 | 0.650 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.110 | 0.586 | 2.060 |
| RUN TOTALS | | | | 2,345 | 82 | 96.6% | 82 | 96.6% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf06 Seed: 666

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 6

| MsgId: | | SOS RQMT | NET (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|---------------------|-----------------------|----------------------------------|--------------------|--------------|--|--------------|---------------|---------------------|----------------------|------------|------------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 79 | 7 | 91.86% | 7 | 91.90% | 100.0 | 309 | 0.080 | 2.314 | 40.160 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.040 | 1.579 | 40.540 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.060 | 1.068 | 20.490 |
| K02.14 | MTO | F | 4 | 227 | 7 | 97.01% | 8 | 96.60% | 99.6% | 481 | 0.120 | 1.075 | 21.030 |
| K02.16 | EOM AND SRVLNC | F | 4 | 321 | 14 | 95.82% | 14 | 95.80% | 100.0 | 349 | 0.050 | 1.336 | 40.130 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.564 | 2.720 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.020 | 0.324 | 0.440 |
| K02.4 | CALL FOR FIRE | F | 4 | 389 | 18 | 95.58% | 18 | 95.60% | 100.0 | 452 | 0.120 | 1.389 | 40.550 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 666 | 22 | 96.80% | 22 | 96.80% | 100.0 | 349 | 0.030 | 1.101 | 22.290 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.290 | 0.850 | 1.880 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 3.311 | 41.560 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.220 | 0.502 | 0.840 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 3.111 | 41.010 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.240 | 3.977 | 20.780 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.300 | 0.525 | 1.730 |
| RUN TOTALS | | | | 2,354 | 72 | 97.0% | 73 | 97.0% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf07 Seed: 777

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 7

| MsgId: | | SOS RQMT | NET (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|---------------------|-----------------------|----------------------------------|--------------------|--------------|--|--------------|---------------|---------------------|----------------------|------------|------------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.040 | 0.781 | 20.370 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.070 | 0.377 | 0.930 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.375 | 1.280 |
| K02.14 | MTO | F | 4 | 227 | 8 | 96.60% | 8 | 96.60% | 100.0 | 481 | 0.120 | 1.159 | 20.740 |
| K02.16 | EOM AND SRVLNC | F | 4 | 317 | 18 | 94.63% | 18 | 94.60% | 100.0 | 349 | 0.050 | 1.470 | 20.860 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.512 | 1.580 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.150 | 1.505 | 20.130 |
| K02.4 | CALL FOR FIRE | F | 4 | 387 | 20 | 95.09% | 20 | 95.10% | 100.0 | 452 | 0.120 | 1.504 | 41.240 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 656 | 32 | 95.35% | 32 | 95.30% | 100.0 | 349 | 0.040 | 1.447 | 41.250 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.483 | 1.000 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.746 | 22.190 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.210 | 3.024 | 20.700 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 3.458 | 40.940 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.200 | 0.377 | 0.580 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.428 | 1.660 |
| RUN TOTALS | | | | 2,346 | 81 | 96.7% | 81 | 96.7% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf08 Seed: 888

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 8

| MsgId: | | SOS RQMT | NET (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|---------------------|-----------------------|----------------------------------|--------------------|--------------|--|--------------|---------------|---------------------|----------------------|------------|------------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 83 | 3 | 96.51% | 3 | 96.50% | 100.0 | 309 | 0.070 | 1.812 | 64.140 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.080 | 0.658 | 20.900 |
| K02.13 | MISSION CLEARANCE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.060 | 1.190 | 20.210 |
| K02.14 | MTO | F | 4 | 216 | 19 | 91.91% | 19 | 91.90% | 100.0 | 481 | 0.150 | 2.160 | 21.640 |
| K02.16 | EOM AND SRVLNC | F | 4 | 332 | 3 | 99.10% | 3 | 99.10% | 100.0 | 349 | 0.050 | 0.668 | 20.930 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.393 | 1.130 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.328 | 1.010 |
| K02.4 | CALL FOR FIRE | F | 4 | 389 | 18 | 95.58% | 18 | 95.60% | 100.0 | 452 | 0.120 | 1.401 | 22.180 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 667 | 21 | 96.95% | 21 | 96.90% | 100.0 | 349 | 0.040 | 1.157 | 62.550 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.180 | 0.835 | 1.670 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 3.152 | 42.060 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.190 | 1.981 | 20.180 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 3.256 | 41.040 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.170 | 0.778 | 1.410 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.445 | 1.360 |
| RUN TOTALS | | | | 2,361 | 66 | 97.3% | 66 | 97.3% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf09 Seed: 999

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 9

| MsgId: | | SOS RQMT (secs) | Destinations Reached, but | ----- All Destinations ----- | | | | Avg Msg Size (in bits) | First Receipt | | | |
|-------------------|----------------------|--------------------------------|----------------------------------|-------------------------------------|----------------|--------------------|---------------|-----------------------------------|----------------------|------------|------------|--------|
| | | | | NET | Met SOS | SOS not MET | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.110 | 0.484 | 1.600 |
| K02.12 | COMMAND TO FIRE | F 4 | 68 | 9 | 88.31% | 9 | 88.30% | 100.0 | 338 | 0.070 | 2.801 | 20.740 |
| K02.13 | MISSION CLEARANCE | F 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.120 | 0.414 | 1.610 |
| K02.14 | MTO | F 4 | 219 | 16 | 93.19% | 16 | 93.20% | 100.0 | 481 | 0.130 | 1.855 | 20.690 |
| K02.16 | EOM AND SRVLNC | F 4 | 305 | 30 | 91.04% | 30 | 91.00% | 100.0 | 349 | 0.050 | 2.577 | 63.480 |
| K02.21 | CLEARANCE TO FIRE | F 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.397 | 1.180 |
| K02.25 | EOM NOTIFICATION | F 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.814 | 2.220 |
| K02.4 | CALL FOR FIRE | F 4 | 395 | 11 | 97.29% | 12 | 97.10% | 99.8% | 452 | 0.120 | 1.123 | 40.200 |
| K02.6 | OBS MISSION UPDATE | F 4 | 667 | 21 | 96.95% | 21 | 96.90% | 100.0 | 349 | 0.040 | 1.088 | 40.530 |
| K01.3 | INFO REQ MSG | O 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.362 | 0.860 |
| K02.11 | AMMO INVENTORY | O 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.827 | 41.280 |
| K02.15 | FS COORD MEASURES | O 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.210 | 0.602 | 0.840 |
| K02.17 | FIRE MISSION SUMMARY | O 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.874 | 21.010 |
| K02.24 | MISSION NOTIFICATION | O 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.170 | 0.443 | 0.760 |
| K05.1 | POSITION REPORT | O 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.266 | 0.530 |
| RUN TOTALS | | 2,339 | 87 | 96.4% | 88 | 96.4% | 99.96% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf10 Seed: 1010

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 10

| MsgId: | | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-----------------------|---------------------------|--------------|-------------|------------------------------|----------------------------------|--------------|---------------------------|---------------|-------|-------|--------|
| | | | NET | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | MCR | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 76 | 10 | 88.37% | 10 | 88.40% | 100.0 | 309 | 0.080 | 2.985 | 41.230 |
| K02.12 | COMMAND TO FIRE | F | 4 | 71 | 6 | 92.21% | 6 | 92.20% | 100.0 | 338 | 0.120 | 1.984 | 20.470 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.463 | 1.260 |
| K02.14 | MTO | F | 4 | 227 | 8 | 96.60% | 8 | 96.60% | 100.0 | 481 | 0.120 | 1.147 | 20.960 |
| K02.16 | EOM AND SRVLNC | F | 4 | 324 | 11 | 96.72% | 11 | 96.70% | 100.0 | 349 | 0.040 | 1.087 | 21.040 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.375 | 1.370 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.290 | 0.509 | 0.880 |
| K02.4 | CALL FOR FIRE | F | 4 | 396 | 11 | 97.30% | 11 | 97.30% | 100.0 | 452 | 0.120 | 1.079 | 41.320 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 661 | 27 | 96.08% | 27 | 96.10% | 100.0 | 349 | 0.040 | 1.196 | 40.280 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.140 | 0.373 | 0.930 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.818 | 45.750 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 0.461 | 0.550 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 3.227 | 41.170 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.270 | 0.578 | 0.940 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.339 | 0.950 |
| | | RUN TOTALS | | 2,354 | 73 | 97.0% | 73 | 97.0% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf11 Seed: 1111

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 11

| MsgId: | | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-----------------------|---------------------------|--------------|-------------|------------------------------|----------------------------------|--------------|---------------------------|---------------|-------|-------|--------|
| | | | NET | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | MCR | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.060 | 1.810 | 20.490 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.280 | 1.351 | 20.450 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.261 | 0.520 |
| K02.14 | MTO | F | 4 | 232 | 3 | 98.72% | 3 | 98.70% | 100.0 | 481 | 0.130 | 0.751 | 20.140 |
| K02.16 | EOM AND SRVLNC | F | 4 | 313 | 22 | 93.43% | 22 | 93.40% | 100.0 | 349 | 0.050 | 1.868 | 41.150 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 0 | 100.00% | 1 | 96.20% | 96.2% | 180 | 0.120 | 0.510 | 1.760 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.180 | 1.674 | 20.270 |
| K02.4 | CALL FOR FIRE | F | 4 | 389 | 18 | 95.58% | 18 | 95.60% | 100.0 | 452 | 0.110 | 1.376 | 22.940 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 668 | 20 | 97.09% | 20 | 97.10% | 100.0 | 349 | 0.040 | 1.054 | 40.390 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.310 | 0.515 | 1.140 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 3.117 | 41.280 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.330 | 0.820 | 1.930 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.738 | 24.130 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.150 | 0.397 | 0.600 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.319 | 0.460 |
| | | RUN TOTALS | | 2,353 | 73 | 97.0% | 74 | 97.0% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai7ModTraf12 Seed: 1212

Mission Thread SOS COMPLETIONS RATES

FoTi Threads on One Full LTS Needline. SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other
FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 20 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 12

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|-------------|---------------------------|--------------|-----------|--------------|------------------------------|----------------------------------|--------------|---------------------------|---------------|-------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 79 | 7 | 91.86% | | 7 | 91.90% | 100.0 | 309 | 0.080 | 2.170 | 21.040 |
| K02.12 | COMMAND TO FIRE | F | 4 | 70 | 7 | 90.91% | | 7 | 90.90% | 100.0 | 338 | 0.070 | 2.230 | 20.520 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.335 | 0.710 |
| K02.14 | MTO | F | 4 | 230 | 5 | 97.87% | | 5 | 97.90% | 100.0 | 481 | 0.120 | 0.907 | 20.560 |
| K02.16 | EOM AND SRVLNC | F | 4 | 313 | 22 | 93.43% | | 22 | 93.40% | 100.0 | 349 | 0.050 | 1.757 | 21.400 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.352 | 1.270 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.374 | 0.640 |
| K02.4 | CALL FOR FIRE | F | 4 | 393 | 14 | 96.56% | | 14 | 96.60% | 100.0 | 452 | 0.120 | 1.174 | 21.670 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 660 | 28 | 95.93% | | 28 | 95.90% | 100.0 | 349 | 0.050 | 1.358 | 40.640 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.220 | 0.497 | 0.960 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 3.205 | 65.440 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 641 | 0.190 | 0.759 | 2.260 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 2.778 | 23.890 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 478 | 0.120 | 0.263 | 0.670 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.264 | 0.470 |
| RUN TOTALS | | | | 2,344 | 83 | 96.6% | | 83 | 96.6% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf01 Seed: 128

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 1

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|--------|----------------------|-------------------|---------------------------|--------------|-----------|--------------|------------------------------|-------------------------------|---------------|---------------------------|---------------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 80 | 6 | 93.02% | 6 | 93.00% | 100.0 | 309 | 0.040 | 0.973 | 10.540 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.040 | 0.364 | 0.810 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.314 | 0.920 |
| K02.14 | MTO | F | 4 | 232 | 3 | 98.72% | 3 | 98.70% | 100.0 | 481 | 0.120 | 0.617 | 10.730 |
| K02.16 | EOM AND SRVLNC | F | 4 | 324 | 11 | 96.72% | 11 | 96.70% | 100.0 | 349 | 0.050 | 0.771 | 32.710 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.320 | 1.530 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.282 | 0.490 |
| K02.4 | CALL FOR FIRE | F | 4 | 400 | 7 | 98.28% | 7 | 98.30% | 100.0 | 452 | 0.120 | 0.595 | 10.870 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 664 | 24 | 96.51% | 24 | 96.50% | 100.0 | 349 | 0.040 | 0.756 | 20.440 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.422 | 1.030 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.874 | 11.980 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.150 | 0.829 | 2.900 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.750 | 12.690 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.320 | 0.432 | 0.590 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.388 | 0.850 |
| | | RUN TOTALS | | 2,376 | 51 | 97.9% | 51 | 97.9% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf02 Seed: 222

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 2

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|--------|----------------------|-------------------|---------------------------|--------|--------------|-------------|--------------|-------------------------------|--------------|---------------|------------------------|---------------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.050 | 0.528 | 10.460 |
| K02.12 | COMMAND TO FIRE | F | 4 | | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.070 | 0.374 | 1.690 |
| K02.13 | MISSION CLEARANCE | F | 4 | | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.354 | 1.000 |
| K02.14 | MTO | F | 4 | | 221 | 14 | 94.04% | 14 | 94.00% | 100.0 | 481 | 0.120 | 1.232 | 34.500 |
| K02.16 | EOM AND SRVLNC | F | 4 | | 316 | 19 | 94.33% | 19 | 94.30% | 100.0 | 349 | 0.050 | 0.920 | 10.480 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.436 | 1.220 |
| K02.25 | EOM NOTIFICATION | F | 4 | | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.255 | 0.860 |
| K02.4 | CALL FOR FIRE | F | 4 | | 396 | 11 | 97.30% | 11 | 97.30% | 100.0 | 452 | 0.110 | 0.699 | 10.740 |
| K02.6 | OBS MISSION UPDATE | F | 4 | | 673 | 15 | 97.82% | 15 | 97.80% | 100.0 | 349 | 0.040 | 0.609 | 34.040 |
| K01.3 | INFO REQ MSG | O | 600 | | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.257 | 0.470 |
| K02.11 | AMMO INVENTORY | O | 600 | | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.860 | 12.060 |
| K02.15 | FS COORD MEASURES | O | 60 | | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 0.786 | 1.620 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.728 | 21.450 |
| K02.24 | MISSION NOTIFICATION | O | 24 | | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.340 | 0.458 | 0.580 |
| K05.1 | POSITION REPORT | O | 60 | | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.364 | 0.660 |
| | | RUN TOTALS | | | 2,366 | 61 | 97.5% | 61 | 97.5% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf03 Seed: 333

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 3

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-------------------|---------------------------|--------------|-----------|--------------|------------------------------|-------------------------------|---------------|------------------------|---------------|-------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | | 2 | 97.70% | 100.0 | 309 | 0.090 | 0.532 | 10.650 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | | 2 | 97.40% | 100.0 | 338 | 0.050 | 0.801 | 21.130 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 210 | 0.080 | 0.296 | 0.600 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | | 7 | 97.00% | 100.0 | 481 | 0.120 | 0.732 | 20.480 |
| K02.16 | EOM AND SRVLNC | F | 4 | 318 | 17 | 94.93% | | 17 | 94.90% | 100.0 | 349 | 0.050 | 0.889 | 10.930 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.460 | 2.070 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.150 | 0.254 | 0.500 |
| K02.4 | CALL FOR FIRE | F | 4 | 401 | 5 | 98.77% | | 6 | 98.50% | 99.8% | 452 | 0.120 | 0.567 | 10.570 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 666 | 22 | 96.80% | | 22 | 96.80% | 100.0 | 349 | 0.040 | 0.710 | 20.140 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.120 | 0.448 | 1.600 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.017 | 35.510 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 641 | 0.190 | 0.737 | 1.860 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.793 | 22.020 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 478 | 0.460 | 0.540 | 0.580 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.424 | 1.070 |
| | | RUN TOTALS | | 2,371 | 55 | 97.7% | 56 | 97.7% | 99.96% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf04 Seed: 444

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 4

| MsgId: | | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-----------------------|---------------------------|--------------|-------------|------------------------------|----------------------------------|--------------|---------------------------|---------------|-------|-------|--------|
| | | | NET | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | MCR | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.040 | 0.597 | 10.130 |
| K02.12 | COMMAND TO FIRE | F | 4 | 73 | 4 | 94.81% | 4 | 94.80% | 100.0 | 338 | 0.050 | 0.799 | 10.990 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.364 | 0.850 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.120 | 0.795 | 11.370 |
| K02.16 | EOM AND SRVLNC | F | 4 | 313 | 22 | 93.43% | 22 | 93.40% | 100.0 | 349 | 0.050 | 1.026 | 10.500 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.473 | 1.710 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.359 | 0.630 |
| K02.4 | CALL FOR FIRE | F | 4 | 396 | 11 | 97.30% | 11 | 97.30% | 100.0 | 452 | 0.120 | 0.705 | 11.380 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 677 | 11 | 98.40% | 11 | 98.40% | 100.0 | 349 | 0.040 | 0.532 | 11.250 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.288 | 0.500 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.697 | 13.540 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.260 | 0.408 | 0.770 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.447 | 13.210 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.170 | 0.325 | 0.410 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.314 | 0.520 |
| | | RUN TOTALS | | 2,370 | 57 | 97.7% | 57 | 97.7% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf05 Seed: 555

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from
both the FA Bn & all other FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 5

| MsgId: | | SOS RQMT | NET (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|---------------------|-----------------------|----------------------------------|--------------------|--------------|--|--------------|---------------|-----------------------------------|----------------------|------------|------------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | min |
| K02.1 | CHECK FIRE | C | 4 | 81 | 5 | 94.19% | 5 | 94.20% | 100.0 | 309 | 0.060 | 1.072 | 10.550 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.080 | 0.301 | 0.470 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.255 | 0.500 |
| K02.14 | MTO | F | 4 | 229 | 6 | 97.45% | 6 | 97.40% | 100.0 | 481 | 0.120 | 0.725 | 10.590 |
| K02.16 | EOM AND SRVLNC | F | 4 | 328 | 7 | 97.91% | 7 | 97.90% | 100.0 | 349 | 0.040 | 0.594 | 10.550 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.388 | 1.550 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.242 | 1.080 |
| K02.4 | CALL FOR FIRE | F | 4 | 403 | 4 | 99.02% | 4 | 99.00% | 100.0 | 452 | 0.110 | 0.511 | 10.440 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 670 | 18 | 97.38% | 18 | 97.40% | 100.0 | 349 | 0.050 | 0.649 | 10.860 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.340 | 0.640 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.705 | 12.010 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.220 | 0.746 | 0.980 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.502 | 11.430 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.120 | 0.277 | 0.530 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.070 | 0.368 | 0.520 |
| RUN TOTALS | | | | 2,387 | 40 | 98.4% | 40 | 98.4% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf06 Seed: 666

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 6

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|--------|----------------------|-------------------|---------------------------|--------------|-----------|--------------|------------------------------|-------------------------------|---------------|------------------------|---------------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 82 | 4 | 95.35% | 4 | 95.30% | 100.0 | 309 | 0.060 | 0.844 | 10.580 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.050 | 1.017 | 32.770 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.412 | 1.490 |
| K02.14 | MTO | F | 4 | 225 | 10 | 95.74% | 10 | 95.70% | 100.0 | 481 | 0.120 | 0.872 | 10.620 |
| K02.16 | EOM AND SRVLNC | F | 4 | 319 | 15 | 95.51% | 16 | 95.20% | 99.7% | 349 | 0.040 | 0.914 | 20.570 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.245 | 0.890 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.285 | 0.500 |
| K02.4 | CALL FOR FIRE | F | 4 | 402 | 5 | 98.77% | 5 | 98.80% | 100.0 | 452 | 0.110 | 0.612 | 20.180 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 677 | 11 | 98.40% | 11 | 98.40% | 100.0 | 349 | 0.040 | 0.551 | 10.620 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.330 | 0.890 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.347 | 65.790 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.934 | 10.210 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.428 | 11.780 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.200 | 0.272 | 0.370 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.418 | 1.130 |
| | | RUN TOTALS | | 2,378 | 48 | 98.0% | 49 | 98.0% | 99.96% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf07 Seed: 777

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 7

| MsgId: | | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-----------------------|---------------------------|--------------|-------------|------------------------------|----------------------------------|--------------|---------------------------|---------------|-------|-------|--------|
| | | | NET | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | MCR | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 83 | 3 | 96.51% | 3 | 96.50% | 100.0 | 309 | 0.090 | 0.810 | 10.630 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.120 | 0.511 | 0.960 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.259 | 0.710 |
| K02.14 | MTO | F | 4 | 226 | 9 | 96.17% | 9 | 96.20% | 100.0 | 481 | 0.130 | 0.924 | 20.370 |
| K02.16 | EOM AND SRVLNC | F | 4 | 321 | 14 | 95.82% | 14 | 95.80% | 100.0 | 349 | 0.040 | 0.837 | 10.820 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.320 | 0.710 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.474 | 1.470 |
| K02.4 | CALL FOR FIRE | F | 4 | 396 | 11 | 97.30% | 11 | 97.30% | 100.0 | 452 | 0.120 | 0.701 | 10.650 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 676 | 12 | 98.26% | 12 | 98.30% | 100.0 | 349 | 0.040 | 0.571 | 11.590 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.362 | 0.490 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.417 | 23.640 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 1.268 | 5.250 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.496 | 11.590 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.130 | 0.295 | 0.460 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.040 | 0.196 | 0.310 |
| | | RUN TOTALS | | 2,378 | 49 | 98.0% | 49 | 98.0% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf08 Seed: 888

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 8

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|----------|---------------------------|--------------|-----------|--------------|------------------------------|-------------------------------|--------------|------------------------|---------------|-------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | | 1 | 98.80% | 100.0 | 309 | 0.040 | 0.478 | 10.380 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | | 3 | 96.10% | 100.0 | 338 | 0.070 | 0.799 | 10.560 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.335 | 0.850 |
| K02.14 | MTO | F | 4 | 222 | 13 | 94.47% | | 13 | 94.50% | 100.0 | 481 | 0.120 | 1.012 | 11.080 |
| K02.16 | EOM AND SRVLNC | F | 4 | 321 | 14 | 95.82% | | 14 | 95.80% | 100.0 | 349 | 0.040 | 0.925 | 33.610 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.325 | 2.740 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.231 | 0.360 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | | 9 | 97.80% | 100.0 | 452 | 0.120 | 0.663 | 11.290 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 670 | 18 | 97.38% | | 18 | 97.40% | 100.0 | 349 | 0.040 | 0.672 | 20.450 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.317 | 0.810 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.845 | 21.800 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 641 | 0.150 | 1.891 | 10.320 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 1.873 | 21.010 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 478 | 0.180 | 0.385 | 0.620 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.300 | 1.070 |
| RUN TOTALS | | | | 2,369 | 58 | 97.6% | | 58 | 97.6% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf09 Seed: 999

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
 MC Retries: 2 Time Between: 10 ACK Gen Window: 4
 MC-to-UC: 20 EPLRS Mode 4 Seed 9

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-------------------|---------------------------|--------------|-----------|--------------|------------------------------|-------------------------------|---------------|------------------------|---------------|-------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | | 2 | 97.70% | 100.0 | 309 | 0.070 | 0.533 | 10.190 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 1 | 98.70% | | 1 | 98.70% | 100.0 | 338 | 0.080 | 0.480 | 11.250 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.355 | 0.860 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | | 7 | 97.00% | 100.0 | 481 | 0.120 | 0.770 | 10.530 |
| K02.16 | EOM AND SRVLNC | F | 4 | 326 | 9 | 97.31% | | 9 | 97.30% | 100.0 | 349 | 0.040 | 0.677 | 20.480 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.345 | 0.850 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.304 | 0.520 |
| K02.4 | CALL FOR FIRE | F | 4 | 401 | 6 | 98.53% | | 6 | 98.50% | 100.0 | 452 | 0.110 | 0.602 | 10.550 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 679 | 9 | 98.69% | | 9 | 98.70% | 100.0 | 349 | 0.040 | 0.500 | 10.980 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.400 | 0.530 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.822 | 13.330 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 641 | 0.180 | 1.074 | 2.420 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 1.920 | 22.130 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 478 | 0.340 | 0.447 | 0.600 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.609 | 1.730 |
| | | RUN TOTALS | | 2,393 | 34 | 98.6% | 34 | 98.6% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf10 Seed: 1010

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 10

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|--------|----------------------|-------------------|---------------------------|--------------|-----------|--------------|------------------------------|-------------------------------|---------------|------------------------|---------------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 78 | 8 | 90.70% | 8 | 90.70% | 100.0 | 309 | 0.040 | 1.335 | 10.300 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.130 | 0.884 | 12.620 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.375 | 1.650 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.120 | 0.771 | 10.610 |
| K02.16 | EOM AND SRVLNC | F | 4 | 315 | 20 | 94.03% | 20 | 94.00% | 100.0 | 349 | 0.040 | 0.967 | 21.110 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.365 | 1.290 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.449 | 1.260 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | 9 | 97.80% | 100.0 | 452 | 0.110 | 0.666 | 10.600 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 668 | 20 | 97.09% | 20 | 97.10% | 100.0 | 349 | 0.040 | 0.717 | 20.760 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.410 | 0.670 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 1.842 | 13.030 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 0.639 | 0.870 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.580 | 1.737 | 21.440 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.270 | 0.407 | 0.590 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.324 | 0.520 |
| | | RUN TOTALS | | 2,360 | 67 | 97.2% | 67 | 97.2% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf11 Seed: 1111

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 11

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-------------------|---------------------------|--------------|-----------|--------------|------------------------------|-------------------------------|---------------|------------------------|---------------|-------|-------|--------|
| | | | NET | (secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 85 | 1 | 98.84% | | 1 | 98.80% | 100.0 | 309 | 0.030 | 0.487 | 10.620 |
| K02.12 | COMMAND TO FIRE | F | 4 | 75 | 2 | 97.40% | | 2 | 97.40% | 100.0 | 338 | 0.220 | 0.707 | 12.000 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.284 | 0.690 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | | 7 | 97.00% | 100.0 | 481 | 0.120 | 0.719 | 10.570 |
| K02.16 | EOM AND SRVLNC | F | 4 | 324 | 11 | 96.72% | | 11 | 96.70% | 100.0 | 349 | 0.040 | 0.669 | 10.670 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.315 | 0.740 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.350 | 0.970 |
| K02.4 | CALL FOR FIRE | F | 4 | 400 | 7 | 98.28% | | 7 | 98.30% | 100.0 | 452 | 0.110 | 0.589 | 11.090 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 670 | 18 | 97.38% | | 18 | 97.40% | 100.0 | 349 | 0.030 | 0.624 | 11.050 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.388 | 0.750 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.054 | 13.270 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 641 | 0.360 | 0.596 | 0.970 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.521 | 20.730 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 478 | 0.130 | 0.278 | 0.380 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.370 | 1.580 |
| | | RUN TOTALS | | 2,381 | 46 | 98.1% | 46 | 98.1% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai8Tb10Traf12 Seed: 1212

Mission Thread SOS COMPLETIONS RATES

FoTi Threads. LTS: FSOps = 1, Fires/Checkfires combined = 1.
SBCT-1 Deployed In CAS. SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets. Background traffic of 6%.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 20 EPLRS Mode 4 Seed 12

| MsgId: | | SOS RQMT | Destinations Reached, but | | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|--------|----------------------|-------------------|---------------------------|--------------|-----------|--------------|------------------------------|-------------------------------|---------------|---------------------------|---------------|-------|-------|--------|
| | | | NET | secs) | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.040 | 0.461 | 10.360 |
| K02.12 | COMMAND TO FIRE | F | 4 | | 75 | 2 | 97.40% | 2 | 97.40% | 100.0 | 338 | 0.070 | 0.586 | 10.220 |
| K02.13 | MISSION CLEARANCE | F | 4 | | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.130 | 0.334 | 0.940 |
| K02.14 | MTO | F | 4 | | 229 | 6 | 97.45% | 6 | 97.40% | 100.0 | 481 | 0.130 | 0.922 | 20.450 |
| K02.16 | EOM AND SRVLNC | F | 4 | | 324 | 11 | 96.72% | 11 | 96.70% | 100.0 | 349 | 0.040 | 0.893 | 20.480 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.261 | 1.040 |
| K02.25 | EOM NOTIFICATION | F | 4 | | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.100 | 0.495 | 0.690 |
| K02.4 | CALL FOR FIRE | F | 4 | | 395 | 11 | 97.29% | 12 | 97.10% | 99.8% | 452 | 0.120 | 0.709 | 10.740 |
| K02.6 | OBS MISSION UPDATE | F | 4 | | 674 | 14 | 97.97% | 14 | 98.00% | 100.0 | 349 | 0.040 | 0.583 | 12.620 |
| K01.3 | INFO REQ MSG | O | 600 | | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.390 | 0.890 |
| K02.11 | AMMO INVENTORY | O | 600 | | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.890 | 1.800 | 21.270 |
| K02.15 | FS COORD MEASURES | O | 60 | | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 1.554 | 5.100 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.540 | 20.900 |
| K02.24 | MISSION NOTIFICATION | O | 24 | | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.220 | 0.290 | 0.520 |
| K05.1 | POSITION REPORT | O | 60 | | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.210 | 0.324 | 0.460 |
| | | RUN TOTALS | | 2,381 | 45 | 98.1% | 46 | 98.1% | 99.96% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls01 Seed: 128

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4

MC-to-UC: 10 EPLRS Mode 4 Seed 1

| MsgId: | | SOS RQMT | NET | Met SOS | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|------------|----------------|----------------------------------|--------------|-------------------------------|-------------------------------------|---------------|------------------|---------------------|----------------------|------------|------------|
| | | | | | SOS not MET | % | SOS not MET or call not tried | % | MCR | (in bits) | | min | avg | max |
| K02.1 | CHECK FIRE | | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.070 | 0.426 | 1.020 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.040 | 0.464 | 1.000 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.310 | 1.000 |
| K02.14 | MTO | | F | 4 | 234 | 1 | 99.57% | 1 | 99.60% | 100.0 | 481 | 0.130 | 0.499 | 10.500 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 335 | 0 | 100.00% | 0 | 100.00% | 100.0 | 349 | 0.050 | 0.462 | 3.790 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.297 | 0.780 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.401 | 0.950 |
| K02.4 | CALL FOR FIRE | | F | 4 | 406 | 1 | 99.75% | 1 | 99.80% | 100.0 | 452 | 0.120 | 0.417 | 10.240 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 680 | 8 | 98.84% | 8 | 98.80% | 100.0 | 349 | 0.040 | 0.601 | 10.910 |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.140 | 0.435 | 0.540 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.573 | 13.260 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.220 | 0.447 | 0.690 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.912 | 22.830 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.410 | 0.738 | 1.240 |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.160 | 0.469 | 0.530 |
| RUN TOTALS | | | | 2,417 | 10 | 99.6% | 10 | 99.6% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls02 Seed: 222

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 2**

| MsgId: | | SOS RQMT (secs) | NET | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------------------------|------------|----------------------------------|--------------------|--------------|--|--------------|---------------|-----------------------------------|----------------------|------------|------------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max | |
| K02.1 | CHECK FIRE | | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.050 | 0.438 | 1.220 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.070 | 0.381 | 0.840 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.275 | 0.660 |
| K02.14 | MTO | | F | 4 | 233 | 2 | 99.15% | 2 | 99.10% | 100.0 | 481 | 0.120 | 0.481 | 10.530 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 335 | 0 | 100.00% | 0 | 100.00% | 100.0 | 349 | 0.050 | 0.482 | 1.680 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.378 | 1.300 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.368 | 0.610 |
| K02.4 | CALL FOR FIRE | | F | 4 | 406 | 1 | 99.75% | 1 | 99.80% | 100.0 | 452 | 0.120 | 0.430 | 10.480 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 679 | 9 | 98.69% | 9 | 98.70% | 100.0 | 349 | 0.050 | 0.624 | 10.710 |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.110 | 0.445 | 1.100 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.892 | 35.890 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.270 | 0.940 | 2.240 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 2.050 | 34.400 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.440 | 1.062 | 1.550 |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.241 | 0.460 |
| RUN TOTALS | | | | 2,415 | 12 | 99.5% | 12 | 99.5% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls03 Seed: 333

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4

MC-to-UC: 10 EPLRS Mode 4 Seed 3

| MsgId: | | SOS RQMT | NET | (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|------------|---------------|----------------------------------|--------------------|-----------|--------------------------------------|---------------|------------|---------------------|----------------------|------------|------------|
| | | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.050 | 0.483 | 1.490 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.090 | 0.610 | 1.470 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.294 | 0.780 |
| K02.14 | MTO | | F | 4 | 235 | 0 | 100.00% | 0 | 100.00% | 100.0 | 481 | 0.130 | 0.444 | 1.850 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 327 | 8 | 97.61% | 8 | 97.60% | 100.0 | 349 | 0.040 | 0.745 | 11.380 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.370 | 1.250 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.309 | 0.440 |
| K02.4 | CALL FOR FIRE | | F | 4 | 402 | 5 | 98.77% | 5 | 98.80% | 100.0 | 452 | 0.110 | 0.533 | 11.090 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 681 | 7 | 98.98% | 7 | 99.00% | 100.0 | 349 | 0.050 | 0.590 | 10.780 |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.317 | 0.500 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.890 | 2.380 | 13.540 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.480 | 0.934 | 1.780 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 1.729 | 11.720 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.370 | 1.062 | 1.760 |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.180 | 0.301 | 0.510 |
| RUN TOTALS | | | | 2,407 | 20 | 99.2% | 20 | 99.2% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls04 Seed: 444

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 4**

| MsgId: | | SOS RQMT (secs) | NET | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------------------------|------------|----------------------------------|--------------------|--------------|--|--------------|---------------|-----------------------------------|----------------------|------------|------------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max | |
| K02.1 | CHECK FIRE | | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.040 | 0.459 | 1.270 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.070 | 0.511 | 1.030 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.284 | 0.990 |
| K02.14 | MTO | | F | 4 | 233 | 2 | 99.15% | 2 | 99.10% | 100.0 | 481 | 0.130 | 0.500 | 10.510 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 333 | 2 | 99.40% | 2 | 99.40% | 100.0 | 349 | 0.050 | 0.563 | 10.790 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.310 | 1.370 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.515 | 1.410 |
| K02.4 | CALL FOR FIRE | | F | 4 | 405 | 2 | 99.51% | 2 | 99.50% | 100.0 | 452 | 0.120 | 0.450 | 10.280 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 681 | 7 | 98.98% | 7 | 99.00% | 100.0 | 349 | 0.040 | 0.606 | 10.940 |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.210 | 0.373 | 0.540 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.501 | 13.930 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 1.274 | 10.280 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.102 | 12.100 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.290 | 0.783 | 1.330 |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.361 | 0.520 |
| RUN TOTALS | | | | 2,414 | 13 | 99.5% | 13 | 99.5% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls05 Seed: 555

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4

MC-to-UC: 10 EPLRS Mode 4 Seed 5

| MsgId: | | SOS RQMT (secs) | NET | Met SOS | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|--------------------------------|------------|----------------|----------------------------------|--------------|-------------------------------|-------------------------------------|---------------|-------|-----------------------------------|----------------------|-------|--------|
| | | | | | SOS not MET | % | SOS not MET or call not tried | % | MCR | min | | avg | max | |
| K02.1 | CHECK FIRE | | C | 4 | 72 | 1 | 98.63% | 14 | 83.70% | 84.9% | 309 | 0.050 | 0.541 | 10.330 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.050 | 0.444 | 0.950 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.330 | 0.650 |
| K02.14 | MTO | | F | 4 | 231 | 4 | 98.30% | 4 | 98.30% | 100.0 | 481 | 0.130 | 0.578 | 10.540 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 335 | 0 | 100.00% | 0 | 100.00% | 100.0 | 349 | 0.050 | 0.519 | 2.160 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.377 | 1.320 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 16 | 0 | 100.00% | 1 | 94.10% | 94.1% | 180 | 0.100 | 0.285 | 0.520 |
| K02.4 | CALL FOR FIRE | | F | 4 | 404 | 2 | 99.51% | 3 | 99.30% | 99.8% | 452 | 0.120 | 0.464 | 10.640 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 684 | 4 | 99.42% | 4 | 99.40% | 100.0 | 349 | 0.040 | 0.553 | 10.900 |
| K01.3 | INFO REQ MSG | | O | 600 | 5 | 0 | 100.00% | 1 | 83.30% | 83.3% | 390 | 0.070 | 0.262 | 0.500 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.416 | 13.480 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.190 | 0.517 | 0.790 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 254 | 0 | 100.00% | 2 | 99.20% | 99.2% | 1,989 | 0.590 | 1.925 | 12.580 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.300 | 0.542 | 0.860 |
| K05.1 | POSITION REPORT | | O | 60 | 10 | 0 | 100.00% | 4 | 71.40% | 71.4% | 299 | 0.150 | 0.339 | 0.450 |
| RUN TOTALS | | | | 2,394 | 11 | 99.5% | 33 | 98.6% | 99.09% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls06 Seed: 666

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4

MC-to-UC: 10 EPLRS Mode 4 Seed 6

| MsgId: | | SOS RQMT | NET | secs) | Met SOS | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|------------|--------------|----------------|----------------------------------|-----------|--------------------|-------------------------------------|------------|------------------|---------------------|----------------------|------------|------------|
| | | | | | | SOS not MET | % | SOS not MET | % | MCR | (in bits) | | min | avg | max |
| K02.1 | CHECK FIRE | | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.090 | 0.465 | 1.010 | |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.100 | 0.479 | 1.490 | |
| K02.13 | MISSION CLEARANCE | | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 210 | 0.050 | 0.701 | 10.380 | |
| K02.14 | MTO | | F | 4 | 233 | 2 | 99.15% | 2 | 99.10% | 100.0 | 481 | 0.130 | 0.548 | 10.400 | |
| K02.16 | EOM AND SRVLNC | | F | 4 | 331 | 4 | 98.81% | 4 | 98.80% | 100.0 | 349 | 0.050 | 0.603 | 10.650 | |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.382 | 1.110 | |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.261 | 0.500 | |
| K02.4 | CALL FOR FIRE | | F | 4 | 406 | 1 | 99.75% | 1 | 99.80% | 100.0 | 452 | 0.120 | 0.444 | 10.300 | |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 685 | 3 | 99.56% | 3 | 99.60% | 100.0 | 349 | 0.040 | 0.549 | 10.770 | |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.335 | 0.540 | |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.455 | 13.320 | |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.200 | 0.562 | 0.860 | |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 1.890 | 12.480 | |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.510 | 0.788 | 0.930 | |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.180 | 0.327 | 0.520 | |
| RUN TOTALS | | | | 2,416 | 11 | 99.5% | 11 | 99.5% | 100.00 | | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls07 Seed: 777

Mission Thread SOS COMPLETIONS RATES

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 7

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------|---------------------------|--------------|---------|-------------------------------|--------------|---------------|------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.040 | 0.485 | 1.280 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.060 | 0.405 | 0.810 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.336 | 0.870 |
| K02.14 | MTO | F | 4 | 234 | 1 | 99.57% | 1 | 99.60% | 100.0 | 481 | 0.120 | 0.467 | 10.460 |
| K02.16 | EOM AND SRVLNC | F | 4 | 335 | 0 | 100.00% | 0 | 100.00% | 100.0 | 349 | 0.040 | 0.504 | 1.150 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.343 | 0.640 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.194 | 0.420 |
| K02.4 | CALL FOR FIRE | F | 4 | 405 | 2 | 99.51% | 2 | 99.50% | 100.0 | 452 | 0.120 | 0.471 | 10.780 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 679 | 9 | 98.69% | 9 | 98.70% | 100.0 | 349 | 0.040 | 0.647 | 20.090 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.280 | 0.460 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 2.360 | 12.980 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.150 | 0.619 | 1.120 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 1.956 | 14.070 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.390 | 0.717 | 0.980 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.180 | 0.487 | 1.310 |
| RUN TOTALS | | | 2,415 | 12 | 99.5% | | 12 | 99.5% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls08 Seed: 888

Mission Thread SOS COMPLETIONS RATES

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 8

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------|---------------------------|-------------|--------------|-------------------------------|--------------|---------------|------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.040 | 0.528 | 1.440 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.070 | 0.538 | 1.320 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.328 | 0.780 |
| K02.14 | MTO | F | 4 | 232 | 3 | 98.72% | 3 | 98.70% | 100.0 | 481 | 0.130 | 0.562 | 10.420 |
| K02.16 | EOM AND SRVLNC | F | 4 | 331 | 4 | 98.81% | 4 | 98.80% | 100.0 | 349 | 0.040 | 0.553 | 10.150 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.355 | 0.520 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.440 | 1.070 |
| K02.4 | CALL FOR FIRE | F | 4 | 400 | 7 | 98.28% | 7 | 98.30% | 100.0 | 452 | 0.120 | 0.578 | 10.880 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 680 | 8 | 98.84% | 8 | 98.80% | 100.0 | 349 | 0.040 | 0.610 | 10.950 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.232 | 0.460 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.365 | 13.200 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.290 | 1.304 | 10.570 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.073 | 21.850 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.360 | 2.613 | 10.900 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.362 | 0.670 |
| RUN TOTALS | | | | 2,405 | 22 | 99.1% | 22 | 99.1% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls09 Seed: 999

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 9**

| MsgId: | | SOS RQMT (secs) | NET | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------------------------|------------|----------------------------------|--------------------|--------------|--|--------------|---------------|-----------------------------------|----------------------|------------|------------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max | |
| K02.1 | CHECK FIRE | | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.040 | 0.423 | 1.130 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 72 | 5 | 93.51% | 5 | 93.50% | 100.0 | 338 | 0.090 | 1.129 | 10.840 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.264 | 0.780 |
| K02.14 | MTO | | F | 4 | 234 | 1 | 99.57% | 1 | 99.60% | 100.0 | 481 | 0.120 | 0.473 | 10.540 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 334 | 1 | 99.70% | 1 | 99.70% | 100.0 | 349 | 0.060 | 0.528 | 10.350 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.294 | 0.840 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.140 | 0.530 | 1.270 |
| K02.4 | CALL FOR FIRE | | F | 4 | 407 | 0 | 100.00% | 0 | 100.00% | 100.0 | 452 | 0.110 | 0.420 | 1.580 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 682 | 6 | 99.13% | 6 | 99.10% | 100.0 | 349 | 0.040 | 0.587 | 10.950 |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.180 | 0.350 | 0.530 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.501 | 22.710 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 0.876 | 2.240 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 1.945 | 12.200 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.230 | 0.528 | 0.870 |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.110 | 0.329 | 0.450 |
| RUN TOTALS | | | | 2,414 | 13 | 99.5% | 13 | 99.5% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls10 Seed: 1010

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 10**

| MsgId: | | SOS RQMT (secs) | NET | Destinations Reached, but | | | ----- All Destinations ----- | | | Avg Msg Size (in bits) | First Receipt Times | | | |
|-------------------|----------------------|--------------------------------|------------|----------------------------------|--------------------|--------------|--|--------------|---------------|-----------------------------------|----------------------------|------------|------------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max | |
| K02.1 | CHECK FIRE | | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.070 | 0.544 | 10.970 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.120 | 0.447 | 0.740 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.342 | 1.170 |
| K02.14 | MTO | | F | 4 | 230 | 5 | 97.87% | 5 | 97.90% | 100.0 | 481 | 0.130 | 0.701 | 20.970 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 330 | 5 | 98.51% | 5 | 98.50% | 100.0 | 349 | 0.060 | 0.612 | 10.910 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.350 | 1.020 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.050 | 0.566 | 1.400 |
| K02.4 | CALL FOR FIRE | | F | 4 | 406 | 1 | 99.75% | 1 | 99.80% | 100.0 | 452 | 0.120 | 0.435 | 10.750 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 663 | 25 | 96.37% | 25 | 96.40% | 100.0 | 349 | 0.040 | 0.961 | 33.620 |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.245 | 0.350 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.870 | 3.665 | 22.420 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.150 | 0.431 | 1.320 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 3.044 | 35.860 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.290 | 0.670 | 0.960 |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.250 | 0.500 |
| RUN TOTALS | | | | 2,390 | 37 | 98.5% | 37 | 98.5% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls11 Seed: 1111

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 11**

| MsgId: | | SOS RQMT | NET | secs) | Met SOS | Destinations Reached, but | | | ----- All Destinations ----- | | | Avg Msg Size | First Receipt | | |
|-------------------|----------------------|-----------------|------------|--------------|----------------|----------------------------------|----------|-------------------------------|-------------------------------------|-------|-----------|---------------------|----------------------|--------|-----|
| | | | | | | SOS not MET | % | SOS not MET or call not tried | % | MCR | (in bits) | | min | avg | max |
| K02.1 | CHECK FIRE | | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.050 | 0.442 | 1.640 | |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.040 | 0.595 | 1.790 | |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.349 | 1.210 | |
| K02.14 | MTO | | F | 4 | 235 | 0 | 100.00% | 0 | 100.00% | 100.0 | 481 | 0.140 | 0.443 | 1.860 | |
| K02.16 | EOM AND SRVLNC | | F | 4 | 335 | 0 | 100.00% | 0 | 100.00% | 100.0 | 349 | 0.050 | 0.509 | 1.710 | |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.322 | 0.890 | |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.241 | 0.360 | |
| K02.4 | CALL FOR FIRE | | F | 4 | 406 | 1 | 99.75% | 1 | 99.80% | 100.0 | 452 | 0.120 | 0.432 | 10.160 | |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 682 | 6 | 99.13% | 6 | 99.10% | 100.0 | 349 | 0.040 | 0.584 | 11.990 | |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.150 | 0.305 | 0.430 | |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.530 | 23.000 | |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.180 | 0.589 | 1.260 | |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.590 | 2.088 | 21.750 | |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.370 | 0.835 | 1.190 | |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.328 | 0.520 | |
| RUN TOTALS | | | | 2,420 | 7 | 99.7% | 7 | 99.7% | 100.00 | | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Fulls12 Seed: 1212

Mission Thread SOS COMPLETIONS RATES

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 12

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------|---------------------------|--------------|---------|-------------------------------|--------------|---------------|------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 82 | 4 | 95.35% | 4 | 95.30% | 100.0 | 309 | 0.050 | 0.810 | 10.520 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.040 | 0.466 | 1.020 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.311 | 0.620 |
| K02.14 | MTO | F | 4 | 235 | 0 | 100.00% | 0 | 100.00% | 100.0 | 481 | 0.120 | 0.430 | 1.450 |
| K02.16 | EOM AND SRVLNC | F | 4 | 335 | 0 | 100.00% | 0 | 100.00% | 100.0 | 349 | 0.060 | 0.504 | 1.800 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.327 | 0.940 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.090 | 0.625 | 1.630 |
| K02.4 | CALL FOR FIRE | F | 4 | 404 | 3 | 99.26% | 3 | 99.30% | 100.0 | 452 | 0.120 | 0.496 | 11.050 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 679 | 9 | 98.69% | 9 | 98.70% | 100.0 | 349 | 0.030 | 0.648 | 10.580 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.245 | 0.430 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 0.880 | 2.631 | 15.260 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.150 | 0.442 | 0.760 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 0.600 | 1.806 | 12.500 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.360 | 0.677 | 0.980 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.110 | 0.427 | 0.650 |
| RUN TOTALS | | | 2,411 | 16 | 99.3% | | 16 | 99.3% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs01 Seed: 128

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 1

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT TIMES | | |
|------------|----------------------|-----|-----------------|---------------------------|-------------|---------|-------------------------------|---------|--------|------------------------|---------------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.060 | 0.984 | 3.130 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.290 | 1.339 | 3.620 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.080 | 0.617 | 1.230 |
| K02.14 | MTO | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.200 | 1.292 | 12.290 |
| K02.16 | EOM AND SRVLNC | F | 4 | 318 | 17 | 94.93% | 17 | 94.90% | 100.0 | 349 | 0.040 | 1.501 | 23.850 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.670 | 1.450 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 0.999 | 2.830 |
| K02.4 | CALL FOR FIRE | F | 4 | 389 | 18 | 95.58% | 18 | 95.60% | 100.0 | 452 | 0.190 | 1.344 | 20.690 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 626 | 62 | 90.99% | 62 | 91.00% | 100.0 | 349 | 0.050 | 1.915 | 33.560 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.100 | 0.610 | 1.310 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 5.781 | 40.060 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 1.571 | 3.820 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 5.029 | 37.240 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.510 | 3.023 | 11.240 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.080 | 0.679 | 1.370 |
| RUN TOTALS | | | 2,323 | 104 | 95.7% | | 104 | 95.7% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs02 Seed: 222

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 2**

| MsgId: | | SOS RQMT | NET | secs) | Met SOS | Destinations Reached, but | | | ----- All Destinations ----- | | | Avg Msg Size | First Receipt | | |
|-------------------|----------------------|-----------------|------------|--------------|----------------|----------------------------------|-----------|-------------------------------|-------------------------------------|-------|-----------|---------------------|----------------------|--------|-----|
| | | | | | | SOS not MET | % | SOS not MET or call not tried | % | MCR | (in bits) | | min | avg | max |
| K02.1 | CHECK FIRE | | C | 4 | 85 | 1 | 98.84% | 1 | 98.80% | 100.0 | 309 | 0.040 | 1.377 | 11.680 | |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.280 | 1.124 | 1.850 | |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.180 | 0.670 | 2.420 | |
| K02.14 | MTO | | F | 4 | 227 | 8 | 96.60% | 8 | 96.60% | 100.0 | 481 | 0.200 | 1.176 | 11.620 | |
| K02.16 | EOM AND SRVLNC | | F | 4 | 329 | 6 | 98.21% | 6 | 98.20% | 100.0 | 349 | 0.070 | 1.690 | 43.190 | |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.685 | 2.880 | |
| K02.25 | EOM NOTIFICATION | | F | 4 | 15 | 2 | 88.24% | 2 | 88.20% | 100.0 | 180 | 0.150 | 1.406 | 4.460 | |
| K02.4 | CALL FOR FIRE | | F | 4 | 392 | 15 | 96.31% | 15 | 96.30% | 100.0 | 452 | 0.190 | 1.300 | 34.340 | |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 639 | 49 | 92.88% | 49 | 92.90% | 100.0 | 349 | 0.040 | 1.752 | 28.390 | |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.240 | 0.780 | 1.880 | |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.530 | 6.192 | 34.170 | |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.250 | 1.118 | 1.690 | |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.050 | 5.318 | 35.810 | |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.510 | 1.418 | 2.290 | |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.160 | 0.699 | 2.630 | |
| RUN TOTALS | | | | 2,346 | 81 | 96.7% | 81 | 96.7% | 100.00 | | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs03 Seed: 333

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 3

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------|---------------------------|-------------|--------------|-------------------------------|--------------|---------------|------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 73 | 13 | 84.88% | 13 | 84.90% | 100.0 | 309 | 0.090 | 2.266 | 18.190 |
| K02.12 | COMMAND TO FIRE | F | 4 | 74 | 3 | 96.10% | 3 | 96.10% | 100.0 | 338 | 0.050 | 1.273 | 11.400 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.517 | 1.340 |
| K02.14 | MTO | F | 4 | 216 | 19 | 91.91% | 19 | 91.90% | 100.0 | 481 | 0.190 | 1.802 | 20.560 |
| K02.16 | EOM AND SRVLNC | F | 4 | 308 | 27 | 91.94% | 27 | 91.90% | 100.0 | 349 | 0.040 | 1.852 | 26.630 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.070 | 1.102 | 10.860 |
| K02.25 | EOM NOTIFICATION | F | 4 | 13 | 4 | 76.47% | 4 | 76.50% | 100.0 | 180 | 0.180 | 1.389 | 4.100 |
| K02.4 | CALL FOR FIRE | F | 4 | 385 | 22 | 94.59% | 22 | 94.60% | 100.0 | 452 | 0.190 | 1.593 | 24.320 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 614 | 74 | 89.24% | 74 | 89.20% | 100.0 | 349 | 0.050 | 2.199 | 30.510 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.140 | 0.493 | 0.960 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.530 | 6.325 | 36.910 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.770 | 3.262 | 10.860 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.030 | 5.375 | 35.360 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.930 | 3.830 | 11.250 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.160 | 0.736 | 5.190 |
| RUN TOTALS | | | | 2,264 | 163 | 93.3% | 163 | 93.3% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs04 Seed: 444

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 4**

| MsgId: | | SOS RQMT | NET | (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|------------|---------------|----------------------------------|--------------------|------------|--------------------------------------|---------------|------------|---------------------|----------------------|------------|------------|
| | | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.120 | 1.428 | 18.720 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.040 | 0.767 | 2.040 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.557 | 1.570 |
| K02.14 | MTO | | F | 4 | 225 | 10 | 95.74% | 10 | 95.70% | 100.0 | 481 | 0.190 | 1.408 | 20.470 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 326 | 9 | 97.31% | 9 | 97.30% | 100.0 | 349 | 0.040 | 1.423 | 24.280 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.723 | 2.300 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.190 | 1.096 | 1.840 |
| K02.4 | CALL FOR FIRE | | F | 4 | 393 | 14 | 96.56% | 14 | 96.60% | 100.0 | 452 | 0.200 | 1.218 | 22.550 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 602 | 86 | 87.50% | 86 | 87.50% | 100.0 | 349 | 0.050 | 2.121 | 33.020 |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.070 | 0.512 | 0.990 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 6.667 | 35.510 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 2.308 | 12.010 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.030 | 5.503 | 35.700 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.510 | 3.170 | 12.470 |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.220 | 0.435 | 0.960 |
| RUN TOTALS | | | | 2,306 | 121 | 95.0% | 121 | 95.0% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs05 Seed: 555

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 5**

| MsgId: | | SOS RQMT (secs) | NET | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------------------------|------------|----------------------------------|--------------------|--------------|--|--------------|---------------|-----------------------------------|----------------------|------------|------------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max | |
| K02.1 | CHECK FIRE | | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.170 | 0.910 | 2.990 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.110 | 0.806 | 1.620 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.050 | 0.618 | 1.370 |
| K02.14 | MTO | | F | 4 | 221 | 14 | 94.04% | 14 | 94.00% | 100.0 | 481 | 0.190 | 1.290 | 13.520 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 319 | 16 | 95.22% | 16 | 95.20% | 100.0 | 349 | 0.070 | 1.437 | 21.240 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 25 | 1 | 96.15% | 1 | 96.20% | 100.0 | 180 | 0.030 | 1.023 | 10.800 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 1.238 | 2.690 |
| K02.4 | CALL FOR FIRE | | F | 4 | 396 | 11 | 97.30% | 11 | 97.30% | 100.0 | 452 | 0.190 | 1.051 | 11.310 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 616 | 72 | 89.53% | 72 | 89.50% | 100.0 | 349 | 0.040 | 2.165 | 28.710 |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.280 | 0.920 | 2.600 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 6.768 | 47.240 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 0.622 | 0.960 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.030 | 5.893 | 50.710 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 1.900 | 3.713 | 11.200 |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.070 | 1.929 | 10.670 |
| RUN TOTALS | | | | 2,313 | 114 | 95.3% | 114 | 95.3% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs06 Seed: 666

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 6

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------|---------------------------|--------------|---------|-------------------------------|--------------|---------------|------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 81 | 5 | 94.19% | 5 | 94.20% | 100.0 | 309 | 0.080 | 1.210 | 6.630 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.040 | 0.932 | 3.050 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.665 | 1.560 |
| K02.14 | MTO | F | 4 | 224 | 11 | 95.32% | 11 | 95.30% | 100.0 | 481 | 0.200 | 1.280 | 11.920 |
| K02.16 | EOM AND SRVLNC | F | 4 | 322 | 13 | 96.12% | 13 | 96.10% | 100.0 | 349 | 0.040 | 1.238 | 21.150 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.060 | 0.538 | 1.250 |
| K02.25 | EOM NOTIFICATION | F | 4 | 16 | 1 | 94.12% | 1 | 94.10% | 100.0 | 180 | 0.150 | 1.450 | 10.740 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.190 | 1.242 | 21.840 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 638 | 50 | 92.73% | 50 | 92.70% | 100.0 | 349 | 0.040 | 1.684 | 34.080 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.540 | 1.170 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.540 | 6.389 | 35.360 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.370 | 1.732 | 3.250 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.030 | 5.051 | 39.590 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.790 | 1.368 | 1.810 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.090 | 0.974 | 5.480 |
| RUN TOTALS | | | 2,334 | 93 | 96.2% | | 93 | 96.2% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs07 Seed: 777

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 7

| MsgId: | | SOS RQMT (secs) | NET | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|--------------------------------|------------|----------------------------------|--------------------|--------------|--|--------------|---------------|-----------------------------------|----------------------|------------|------------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max | |
| K02.1 | CHECK FIRE | | C | 4 | 81 | 5 | 94.19% | 5 | 94.20% | 100.0 | 309 | 0.120 | 1.705 | 10.100 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 76 | 1 | 98.70% | 1 | 98.70% | 100.0 | 338 | 0.150 | 1.076 | 10.670 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.060 | 0.572 | 1.700 |
| K02.14 | MTO | | F | 4 | 228 | 7 | 97.02% | 7 | 97.00% | 100.0 | 481 | 0.210 | 1.293 | 20.570 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 319 | 16 | 95.22% | 16 | 95.20% | 100.0 | 349 | 0.050 | 1.382 | 11.370 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.100 | 0.833 | 3.030 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 0.757 | 1.450 |
| K02.4 | CALL FOR FIRE | | F | 4 | 401 | 6 | 98.53% | 6 | 98.50% | 100.0 | 452 | 0.200 | 1.085 | 18.820 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 614 | 74 | 89.24% | 74 | 89.20% | 100.0 | 349 | 0.060 | 2.109 | 39.490 |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.140 | 0.755 | 1.320 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.510 | 6.191 | 35.650 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.400 | 2.051 | 3.820 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.010 | 4.642 | 35.120 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 1.500 | 2.288 | 3.440 |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.100 | 0.821 | 2.580 |
| RUN TOTALS | | | | 2,318 | 109 | 95.5% | 109 | 95.5% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs08 Seed: 888

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 8

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|------------|----------------------|-----|-----------------|---------------------------|-------------|---------|-------------------------------|---------|-------|------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 86 | 0 | 100.00% | 0 | 100.00% | 100.0 | 309 | 0.080 | 1.016 | 3.020 |
| K02.12 | COMMAND TO FIRE | F | 4 | 72 | 4 | 94.74% | 5 | 93.50% | 98.7% | 338 | 0.170 | 1.097 | 4.480 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.070 | 0.758 | 1.990 |
| K02.14 | MTO | F | 4 | 229 | 6 | 97.45% | 6 | 97.40% | 100.0 | 481 | 0.210 | 1.201 | 13.170 |
| K02.16 | EOM AND SRVLNC | F | 4 | 319 | 16 | 95.22% | 16 | 95.20% | 100.0 | 349 | 0.060 | 1.487 | 11.730 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.777 | 2.450 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 1.079 | 1.780 |
| K02.4 | CALL FOR FIRE | F | 4 | 398 | 9 | 97.79% | 9 | 97.80% | 100.0 | 452 | 0.190 | 1.133 | 12.500 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 630 | 58 | 91.57% | 58 | 91.60% | 100.0 | 349 | 0.040 | 1.875 | 23.490 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.140 | 0.558 | 1.030 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 6.327 | 36.940 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.350 | 2.042 | 3.820 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.030 | 5.195 | 34.800 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.510 | 6.298 | 21.340 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.982 | 3.490 |
| RUN TOTALS | | | 2,333 | 93 | 96.2% | 94 | 96.1% | 99.96% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs09 Seed: 999

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 9

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT TIMES | | |
|------------|----------------------|-----|-----------------|---------------------------|-------------|---------|-------------------------------|---------|-------|------------------------|---------------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.060 | 1.282 | 11.900 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.050 | 0.989 | 3.640 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.080 | 0.708 | 2.270 |
| K02.14 | MTO | F | 4 | 230 | 4 | 98.29% | 5 | 97.90% | 99.6% | 481 | 0.210 | 0.953 | 11.620 |
| K02.16 | EOM AND SRVLNC | F | 4 | 320 | 15 | 95.52% | 15 | 95.50% | 100.0 | 349 | 0.060 | 1.311 | 12.040 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.040 | 0.642 | 1.420 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.070 | 0.543 | 1.480 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.180 | 1.275 | 20.690 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 639 | 49 | 92.88% | 49 | 92.90% | 100.0 | 349 | 0.040 | 1.861 | 33.390 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.240 | 0.637 | 1.040 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 6.774 | 44.750 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.230 | 1.884 | 10.720 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.050 | 5.198 | 43.150 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.760 | 2.932 | 11.910 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.160 | 0.533 | 1.350 |
| RUN TOTALS | | | 2,343 | 83 | 96.6% | 84 | 96.5% | 99.96% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs10 Seed: 1010

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 10**

| MsgId: | | SOS RQMT | NET | Met SOS | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE | FIRST RECEIPT | | |
|-------------------|----------------------|-----------------|------------|----------------|----------------------------------|--------------|-------------------------------|-------------------------------------|---------------|------------------|---------------------|----------------------|------------|------------|
| | | | | | SOS not MET | % | SOS not MET or call not tried | % | MCR | (in bits) | | min | avg | max |
| K02.1 | CHECK FIRE | | C | 4 | 82 | 4 | 95.35% | 4 | 95.30% | 100.0 | 309 | 0.040 | 0.908 | 6.260 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.140 | 0.846 | 2.650 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.501 | 1.280 |
| K02.14 | MTO | | F | 4 | 229 | 6 | 97.45% | 6 | 97.40% | 100.0 | 481 | 0.190 | 1.255 | 21.750 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 325 | 10 | 97.01% | 10 | 97.00% | 100.0 | 349 | 0.040 | 1.240 | 14.730 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.110 | 1.002 | 3.010 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.080 | 1.074 | 1.660 |
| K02.4 | CALL FOR FIRE | | F | 4 | 402 | 5 | 98.77% | 5 | 98.80% | 100.0 | 452 | 0.190 | 0.980 | 11.800 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 629 | 59 | 91.42% | 59 | 91.40% | 100.0 | 349 | 0.050 | 1.823 | 22.630 |
| K01.3 | INFO REQ MSG | | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.140 | 0.445 | 0.740 |
| K02.11 | AMMO INVENTORY | | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 5.910 | 35.740 |
| K02.15 | FS COORD MEASURES | | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.340 | 1.554 | 4.670 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.020 | 4.892 | 35.230 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 2.040 | 6.982 | 21.340 |
| K05.1 | POSITION REPORT | | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.160 | 0.485 | 0.940 |
| RUN TOTALS | | | | 2,343 | 84 | 96.5% | 84 | 96.5% | 100.00 | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs11 Seed: 1111

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 11

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|-----------------|---------------------------|-------------|--------------|-------------------------------|--------------|---------------|------------------------|---------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 84 | 2 | 97.67% | 2 | 97.70% | 100.0 | 309 | 0.130 | 1.159 | 13.180 |
| K02.12 | COMMAND TO FIRE | F | 4 | 76 | 0 | 100.00% | 1 | 98.70% | 98.7% | 338 | 0.290 | 1.215 | 3.580 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.796 | 2.990 |
| K02.14 | MTO | F | 4 | 230 | 5 | 97.87% | 5 | 97.90% | 100.0 | 481 | 0.220 | 1.141 | 13.610 |
| K02.16 | EOM AND SRVLNC | F | 4 | 299 | 36 | 89.25% | 36 | 89.30% | 100.0 | 349 | 0.050 | 1.856 | 20.970 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.100 | 0.846 | 3.130 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.030 | 0.433 | 0.780 |
| K02.4 | CALL FOR FIRE | F | 4 | 385 | 22 | 94.59% | 22 | 94.60% | 100.0 | 452 | 0.190 | 1.531 | 22.820 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 610 | 78 | 88.66% | 78 | 88.70% | 100.0 | 349 | 0.040 | 2.122 | 22.430 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.610 | 0.970 | 1.750 |
| K02.11 | AMMO INVENTORY | O | 600 | 230 | 0 | 100.00% | 2 | 99.10% | 99.1% | 3,005 | 1.520 | 5.568 | 27.460 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.510 | 1.180 | 2.050 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 253 | 0 | 100.00% | 3 | 98.80% | 98.8% | 1,989 | 1.020 | 4.929 | 28.510 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 1.480 | 5.255 | 22.190 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.390 | 1.075 | 2.490 |
| RUN TOTALS | | | | 2,278 | 143 | 94.1% | 149 | 93.9% | 99.75% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Halfs12 Seed: 1212

Mission Thread SOS COMPLETIONS RATES

FoTi Threads: Firing Batteries/ HHC uses a full LTS with a full LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 12

| MsgId: | | NET | SOS RQMT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT TIMES | | |
|-------------------|----------------------|-----|-----------------|---------------------------|--------------|---------|-------------------------------|--------------|---------------|------------------------|---------------------|-------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 82 | 4 | 95.35% | 4 | 95.30% | 100.0 | 309 | 0.080 | 1.265 | 5.400 |
| K02.12 | COMMAND TO FIRE | F | 4 | 77 | 0 | 100.00% | 0 | 100.00% | 100.0 | 338 | 0.140 | 0.999 | 2.590 |
| K02.13 | MISSION CLEARANCE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 210 | 0.040 | 0.582 | 1.850 |
| K02.14 | MTO | F | 4 | 227 | 8 | 96.60% | 8 | 96.60% | 100.0 | 481 | 0.200 | 1.257 | 11.510 |
| K02.16 | EOM AND SRVLNC | F | 4 | 318 | 17 | 94.93% | 17 | 94.90% | 100.0 | 349 | 0.050 | 1.504 | 20.280 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 26 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.290 | 0.560 | 1.020 |
| K02.25 | EOM NOTIFICATION | F | 4 | 17 | 0 | 100.00% | 0 | 100.00% | 100.0 | 180 | 0.260 | 1.119 | 2.270 |
| K02.4 | CALL FOR FIRE | F | 4 | 394 | 13 | 96.81% | 13 | 96.80% | 100.0 | 452 | 0.190 | 1.225 | 12.730 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 626 | 62 | 90.99% | 62 | 91.00% | 100.0 | 349 | 0.040 | 1.897 | 35.550 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.080 | 0.423 | 0.750 |
| K02.11 | AMMO INVENTORY | O | 600 | 232 | 0 | 100.00% | 0 | 100.00% | 100.0 | 3,005 | 1.520 | 6.152 | 36.950 |
| K02.15 | FS COORD MEASURES | O | 60 | 16 | 0 | 100.00% | 0 | 100.00% | 100.0 | 641 | 0.540 | 3.999 | 11.150 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 256 | 0 | 100.00% | 0 | 100.00% | 100.0 | 1,989 | 1.030 | 4.637 | 35.790 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 478 | 0.650 | 3.100 | 11.120 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | 0 | 100.00% | 100.0 | 299 | 0.140 | 0.912 | 1.670 |
| RUN TOTALS | | | 2,323 | 104 | 95.7% | | 104 | 95.7% | 100.00 | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs01 Seed: 128 Mission Thread SOS COMPLETIONS RATES

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 1

| MsgId: | | NET | SOS RQMNT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|---------------------|---------------------------|--------------|--------------|-------------------------------|---------------|-------|---------------------------|---------------|--------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 28 | 51 | 35.44% | 58 | 32.60% | 91.9% | 309 | 0.060 | 52.033 | 259.89 |
| K02.12 | COMMAND TO FIRE | F | 4 | 37 | 33 | 52.86% | 40 | 48.10% | 90.9% | 338 | 0.050 | 48.844 | 223.43 |
| K02.13 | MISSION CLEARANCE | F | 4 | 21 | 5 | 80.77% | 5 | 80.80% | 100.0 | 210 | 0.070 | 2.906 | 23.550 |
| K02.14 | MTO | F | 4 | 100 | 116 | 46.30% | 135 | 42.60% | 91.9% | 481 | 0.380 | 26.109 | 194.26 |
| K02.16 | EOM AND SRVLNC | F | 4 | 135 | 158 | 46.08% | 200 | 40.30% | 87.5% | 349 | 0.070 | 35.678 | 180.13 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 23 | 3 | 88.46% | 3 | 88.50% | 100.0 | 180 | 0.200 | 2.962 | 29.020 |
| K02.25 | EOM NOTIFICATION | F | 4 | 7 | 10 | 41.18% | 10 | 41.20% | 100.0 | 180 | 0.350 | 16.956 | 35.640 |
| K02.4 | CALL FOR FIRE | F | 4 | 198 | 180 | 52.38% | 209 | 48.60% | 92.9% | 452 | 0.360 | 25.807 | 286.52 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 229 | 384 | 37.36% | 459 | 33.30% | 89.1% | 349 | 0.150 | 38.664 | 314.93 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.320 | 4.448 | 13.790 |
| K02.11 | AMMO INVENTORY | O | 600 | 187 | 0 | 100.00% | 45 | 80.60% | 80.6% | 3,005 | 2.950 | 44.856 | 273.14 |
| K02.15 | FS COORD MEASURES | O | 60 | 11 | 4 | 73.33% | 5 | 68.80% | 93.8% | 641 | 2.970 | 42.218 | 159.09 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 164 | 43 | 79.23% | 92 | 64.10% | 80.9% | 1,989 | 1.960 | 41.497 | 350.45 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 1 | 5 | 16.67% | 5 | 16.70% | 100.0 | 478 | 5.490 | 82.137 | 129.20 |
| K05.1 | POSITION REPORT | O | 60 | 11 | 3 | 78.57% | 3 | 78.60% | 100.0 | 299 | 0.650 | 31.821 | 143.86 |
| RUN TOTALS | | | 1,158 | 995 | 53.8% | 1,269 | 47.7% | 88.71% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs02 Seed: 222

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 2**

| MsgId: | | SOS RQMNT (secs) | Destinations Reached, but | ----- All Destinations ----- | | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|---------------------------------|----------------------------------|-------------------------------------|----------------|--------------------|--------------|-----------------------------------|----------------------|------------|------------|-------|
| | | | | NET | Met SOS | SOS not MET | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 25 | 48 | 34.25% | | 61 | 29.10% | 84.9% | 309 | 0.240 |
| K02.12 | COMMAND TO FIRE | F | 4 | 31 | 39 | 44.29% | | 46 | 40.30% | 90.9% | 338 | 0.190 |
| K02.13 | MISSION CLEARANCE | F | 4 | 20 | 6 | 76.92% | | 6 | 76.90% | 100.0 | 210 | 0.060 |
| K02.14 | MTO | F | 4 | 90 | 126 | 41.67% | | 145 | 38.30% | 91.9% | 481 | 0.380 |
| K02.16 | EOM AND SRVLNC | F | 4 | 132 | 176 | 42.86% | | 203 | 39.40% | 91.9% | 349 | 0.100 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 24 | 2 | 92.31% | | 2 | 92.30% | 100.0 | 180 | 0.060 |
| K02.25 | EOM NOTIFICATION | F | 4 | 12 | 4 | 75.00% | | 5 | 70.60% | 94.1% | 180 | 0.930 |
| K02.4 | CALL FOR FIRE | F | 4 | 188 | 196 | 48.96% | | 219 | 46.20% | 94.3% | 452 | 0.360 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 182 | 448 | 28.89% | | 506 | 26.50% | 91.6% | 349 | 0.050 |
| K01.3 | INFO REQ MSG | O | 600 | 5 | 0 | 100.00% | | 1 | 83.30% | 83.3% | 390 | 0.150 |
| K02.11 | AMMO INVENTORY | O | 600 | 214 | 0 | 100.00% | | 18 | 92.20% | 92.2% | 3,005 | 2.990 |
| K02.15 | FS COORD MEASURES | O | 60 | 9 | 7 | 56.25% | | 7 | 56.20% | 100.0 | 641 | 1.840 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 234 | 2 | 99.15% | | 22 | 91.40% | 92.2% | 1,989 | 2.000 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 1 | 4 | 20.00% | | 5 | 16.70% | 83.3% | 478 | 3.210 |
| K05.1 | POSITION REPORT | O | 60 | 7 | 2 | 77.78% | | 7 | 50.00% | 64.3% | 299 | 0.100 |
| RUN TOTALS | | | 1,174 | 1,06 | 52.6% | 1,253 | 48.4% | 92.05% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs03 Seed: 333

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 3**

| MsgId: | | SOS RQMNT (secs) | Destinations Reached, but | ----- All Destinations ----- | | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|---------------------------------|----------------------------------|-------------------------------------|----------------|--------------------|--------------|-----------------------------------|----------------------|------------|------------|---------------------|
| | | | | NET | Met SOS | SOS not MET | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 45 | 41 | 52.33% | | 41 | 52.30% | 100.0 | 309 | 0.210 36.914 145.04 |
| K02.12 | COMMAND TO FIRE | F | 4 | 28 | 21 | 57.14% | | 49 | 36.40% | 63.6% | 338 | 1.290 36.840 166.02 |
| K02.13 | MISSION CLEARANCE | F | 4 | 20 | 5 | 80.00% | | 6 | 76.90% | 96.2% | 210 | 0.210 3.794 45.570 |
| K02.14 | MTO | F | 4 | 114 | 113 | 50.22% | | 121 | 48.50% | 96.6% | 481 | 0.400 35.409 339.09 |
| K02.16 | EOM AND SRVLNC | F | 4 | 134 | 153 | 46.69% | | 201 | 40.00% | 85.7% | 349 | 0.080 47.077 270.63 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 22 | 4 | 84.62% | | 4 | 84.60% | 100.0 | 180 | 0.050 10.980 216.16 |
| K02.25 | EOM NOTIFICATION | F | 4 | 8 | 9 | 47.06% | | 9 | 47.10% | 100.0 | 180 | 0.060 38.521 94.510 |
| K02.4 | CALL FOR FIRE | F | 4 | 204 | 189 | 51.91% | | 203 | 50.10% | 96.6% | 452 | 0.340 30.653 604.22 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 224 | 363 | 38.16% | | 464 | 32.60% | 85.3% | 349 | 0.100 40.229 587.10 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.170 1.368 2.710 |
| K02.11 | AMMO INVENTORY | O | 600 | 183 | 0 | 100.00% | | 49 | 78.90% | 78.9% | 3,005 | 2.910 49.485 475.08 |
| K02.15 | FS COORD MEASURES | O | 60 | 4 | 4 | 50.00% | | 12 | 25.00% | 50.0% | 641 | 1.620 72.656 209.43 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 175 | 35 | 83.33% | | 81 | 68.40% | 82.0% | 1,989 | 1.900 40.645 522.85 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 3 | 3 | 50.00% | | 3 | 50.00% | 100.0 | 478 | 4.340 18.980 31.820 |
| K05.1 | POSITION REPORT | O | 60 | 11 | 3 | 78.57% | | 3 | 78.60% | 100.0 | 299 | 0.210 16.178 70.760 |
| RUN TOTALS | | | 1,181 | 943 | 55.6% | 1,246 | 48.7% | 87.52% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs04 Seed: 444

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 4**

| MsgId: | | SOS RQMNT (secs) | Destinations Reached, but | ----- All Destinations ----- | | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | | | |
|-------------------|----------------------|---------------------------------|----------------------------------|-------------------------------------|----------------|--------------------|--------------|-----------------------------------|----------------------|------------|------------|-------|--------|--------|
| | | | | NET | Met SOS | SOS not MET | % | | min | avg | max | | | |
| K02.1 | CHECK FIRE | C | 4 | 48 | 37 | 56.47% | | 38 | 55.80% | 98.8% | 309 | 0.120 | 8.639 | 77.460 |
| K02.12 | COMMAND TO FIRE | F | 4 | 33 | 29 | 53.23% | | 44 | 42.90% | 80.5% | 338 | 0.210 | 11.887 | 99.140 |
| K02.13 | MISSION CLEARANCE | F | 4 | 20 | 6 | 76.92% | | 6 | 76.90% | 100.0 | 210 | 0.060 | 4.209 | 59.420 |
| K02.14 | MTO | F | 4 | 128 | 97 | 56.89% | | 107 | 54.50% | 95.7% | 481 | 0.370 | 12.607 | 199.72 |
| K02.16 | EOM AND SRVLNC | F | 4 | 139 | 147 | 48.60% | | 196 | 41.50% | 85.4% | 349 | 0.110 | 17.110 | 202.00 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 20 | 6 | 76.92% | | 6 | 76.90% | 100.0 | 180 | 0.060 | 2.634 | 9.870 |
| K02.25 | EOM NOTIFICATION | F | 4 | 7 | 9 | 43.75% | | 10 | 41.20% | 94.1% | 180 | 0.390 | 21.393 | 47.620 |
| K02.4 | CALL FOR FIRE | F | 4 | 247 | 144 | 63.17% | | 160 | 60.70% | 96.1% | 452 | 0.340 | 9.441 | 113.32 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 289 | 328 | 46.84% | | 399 | 42.00% | 89.7% | 349 | 0.090 | 14.947 | 131.69 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.100 | 1.605 | 3.020 |
| K02.11 | AMMO INVENTORY | O | 600 | 185 | 0 | 100.00% | | 47 | 79.70% | 79.7% | 3,005 | 2.960 | 30.260 | 224.16 |
| K02.15 | FS COORD MEASURES | O | 60 | 15 | 1 | 93.75% | | 1 | 93.80% | 100.0 | 641 | 1.790 | 12.771 | 85.720 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 193 | 18 | 91.47% | | 63 | 75.40% | 82.4% | 1,989 | 2.070 | 23.918 | 279.39 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 478 | 1.220 | 3.260 | 7.760 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 0.280 | 7.747 | 31.520 |
| RUN TOTALS | | | 1,350 | 822 | 62.2% | 1,077 | 55.6% | 89.49% | | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs05 Seed: 555

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 5**

| MsgId: | | SOS RQMNT (secs) | Destinations Reached, but | ----- All Destinations ----- | | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|---------------------------------|----------------------------------|-------------------------------------|----------------|--------------------|--------------|-----------------------------------|----------------------|------------|------------|---------------|
| | | | | NET | Met SOS | SOS not MET | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 30 | 29 | 50.85% | 56 | 34.90% | 68.6% | 309 | 0.140 | 38.915 160.16 |
| K02.12 | COMMAND TO FIRE | F | 4 | 27 | 32 | 45.76% | 50 | 35.10% | 76.6% | 338 | 0.430 | 44.199 160.64 |
| K02.13 | MISSION CLEARANCE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 210 | 0.060 | 5.695 72.800 |
| K02.14 | MTO | F | 4 | 104 | 116 | 47.27% | 131 | 44.30% | 93.6% | 481 | 0.410 | 33.129 262.03 |
| K02.16 | EOM AND SRVLNC | F | 4 | 136 | 159 | 46.10% | 199 | 40.60% | 88.1% | 349 | 0.090 | 41.314 221.78 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 19 | 7 | 73.08% | 7 | 73.10% | 100.0 | 180 | 0.060 | 9.405 131.96 |
| K02.25 | EOM NOTIFICATION | F | 4 | 3 | 12 | 20.00% | 14 | 17.60% | 88.2% | 180 | 1.710 | 40.713 141.33 |
| K02.4 | CALL FOR FIRE | F | 4 | 190 | 195 | 49.35% | 217 | 46.70% | 94.6% | 452 | 0.330 | 33.370 290.81 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 193 | 414 | 31.80% | 495 | 28.10% | 88.2% | 349 | 0.200 | 30.301 230.89 |
| K01.3 | INFO REQ MSG | O | 600 | 4 | 0 | 100.00% | 2 | 66.70% | 66.7% | 390 | 0.720 | 2.333 5.900 |
| K02.11 | AMMO INVENTORY | O | 600 | 208 | 0 | 100.00% | 24 | 89.70% | 89.7% | 3,005 | 2.870 | 23.968 83.150 |
| K02.15 | FS COORD MEASURES | O | 60 | 8 | 0 | 100.00% | 8 | 50.00% | 50.0% | 641 | 0.630 | 12.434 24.080 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 223 | 3 | 98.67% | 33 | 87.10% | 88.3% | 1,989 | 1.900 | 21.274 83.430 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 4 | 2 | 66.67% | 2 | 66.70% | 100.0 | 478 | 4.630 | 27.528 89.780 |
| K05.1 | POSITION REPORT | O | 60 | 6 | 0 | 100.00% | 8 | 42.90% | 42.9% | 299 | 0.380 | 0.675 1.670 |
| RUN TOTALS | | | 1,177 | 973 | 54.7% | 1,250 | 48.5% | 88.59% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs06 Seed: 666

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 6**

| MsgId: | | SOS RQMNT (secs) | Destinations Reached, but | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | | | | |
|-------------------|----------------------|---------------------------------|----------------------------------|-------------------------------------|----------------|--------------------|-----------------------------------|--|----------|------------|------------|------------|------------|--------|
| | | | | NET | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 34 | 52 | 39.53% | | 52 | 39.50% | 100.0 | 309 | 0.250 | 27.020 | 156.45 |
| K02.12 | COMMAND TO FIRE | F | 4 | 33 | 34 | 49.25% | | 44 | 42.90% | 87.0% | 338 | 0.450 | 52.195 | 261.85 |
| K02.13 | MISSION CLEARANCE | F | 4 | 22 | 4 | 84.62% | | 4 | 84.60% | 100.0 | 210 | 0.180 | 3.574 | 39.510 |
| K02.14 | MTO | F | 4 | 105 | 115 | 47.73% | | 130 | 44.70% | 93.6% | 481 | 0.370 | 43.017 | 364.15 |
| K02.16 | EOM AND SRVLNC | F | 4 | 123 | 165 | 42.71% | | 212 | 36.70% | 86.0% | 349 | 0.050 | 43.468 | 331.71 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 22 | 4 | 84.62% | | 4 | 84.60% | 100.0 | 180 | 0.380 | 8.836 | 118.61 |
| K02.25 | EOM NOTIFICATION | F | 4 | 8 | 9 | 47.06% | | 9 | 47.10% | 100.0 | 180 | 0.390 | 10.272 | 23.880 |
| K02.4 | CALL FOR FIRE | F | 4 | 201 | 187 | 51.80% | | 206 | 49.40% | 95.3% | 452 | 0.340 | 42.190 | 381.54 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 186 | 426 | 30.39% | | 502 | 27.00% | 89.0% | 349 | 0.110 | 51.401 | 434.95 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.170 | 1.178 | 3.550 |
| K02.11 | AMMO INVENTORY | O | 600 | 192 | 0 | 100.00% | | 40 | 82.80% | 82.8% | 3,005 | 2.810 | 52.275 | 404.88 |
| K02.15 | FS COORD MEASURES | O | 60 | 8 | 8 | 50.00% | | 8 | 50.00% | 100.0 | 641 | 0.360 | 99.529 | 298.53 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 183 | 33 | 84.72% | | 73 | 71.50% | 84.4% | 1,989 | 1.870 | 40.904 | 414.04 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 2 | 2 | 50.00% | | 4 | 33.30% | 66.7% | 478 | 6.060 | 21.925 | 38.830 |
| K05.1 | POSITION REPORT | O | 60 | 14 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 299 | 1.300 | 11.962 | 48.820 |
| RUN TOTALS | | | 1,139 | 1,03 | 52.3% | 1,288 | 46.9% | 89.74% | | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs07 Seed: 777

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 7**

| MsgId: | | SOS RQMNT (secs) | Destinations Reached, but | ----- All Destinations ----- | | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | | | |
|-------------------|----------------------|---------------------------------|----------------------------------|-------------------------------------|----------------|--------------------|--------------|-----------------------------------|----------------------|------------|------------|-------|--------|--------|
| | | | | NET | Met SOS | SOS not MET | % | | min | avg | max | | | |
| K02.1 | CHECK FIRE | C | 4 | 38 | 22 | 63.33% | | 48 | 44.20% | 69.8% | 309 | 0.100 | 15.177 | 56.290 |
| K02.12 | COMMAND TO FIRE | F | 4 | 27 | 36 | 42.86% | | 50 | 35.10% | 81.8% | 338 | 0.190 | 32.827 | 187.86 |
| K02.13 | MISSION CLEARANCE | F | 4 | 23 | 2 | 92.00% | | 3 | 88.50% | 96.2% | 210 | 0.060 | 5.801 | 107.50 |
| K02.14 | MTO | F | 4 | 104 | 104 | 50.00% | | 131 | 44.30% | 88.5% | 481 | 0.390 | 27.396 | 182.16 |
| K02.16 | EOM AND SRVLNC | F | 4 | 147 | 150 | 49.49% | | 188 | 43.90% | 88.7% | 349 | 0.130 | 31.128 | 193.87 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 21 | 4 | 84.00% | | 5 | 80.80% | 96.2% | 180 | 0.050 | 7.271 | 119.73 |
| K02.25 | EOM NOTIFICATION | F | 4 | 6 | 4 | 60.00% | | 11 | 35.30% | 58.8% | 180 | 0.990 | 10.650 | 24.260 |
| K02.4 | CALL FOR FIRE | F | 4 | 211 | 162 | 56.57% | | 196 | 51.80% | 91.6% | 452 | 0.340 | 25.483 | 261.68 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 228 | 357 | 38.97% | | 460 | 33.10% | 85.0% | 349 | 0.050 | 40.962 | 300.95 |
| K01.3 | INFO REQ MSG | O | 600 | 4 | 0 | 100.00% | | 2 | 66.70% | 66.7% | 390 | 0.220 | 1.070 | 1.880 |
| K02.11 | AMMO INVENTORY | O | 600 | 194 | 0 | 100.00% | | 38 | 83.60% | 83.6% | 3,005 | 2.830 | 42.045 | 252.66 |
| K02.15 | FS COORD MEASURES | O | 60 | 0 | 0 | | | 16 | 0.00% | 0.0% | 641 | | | |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 162 | 47 | 77.51% | | 94 | 63.30% | 81.6% | 1,989 | 1.900 | 39.572 | 258.88 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 1 | 4 | 20.00% | | 5 | 16.70% | 83.3% | 478 | 0.940 | 54.238 | 102.58 |
| K05.1 | POSITION REPORT | O | 60 | 8 | 0 | 100.00% | | 6 | 57.10% | 57.1% | 299 | 0.580 | 3.371 | 13.940 |
| RUN TOTALS | | | 1,174 | 892 | 56.8% | 1,253 | 48.4% | 85.13% | | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs08 Seed: 888

Mission Thread SOS COMPLETIONS RATES

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 8

| MsgId: | | NET | SOS RQMNT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|------------------|---------------------------|--------------|--------------|-------------------------------|---------------|-------|------------------------|---------------|--------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 27 | 46 | 36.99% | 59 | 31.40% | 84.9% | 309 | 0.120 | 67.831 | 403.61 |
| K02.12 | COMMAND TO FIRE | F | 4 | 27 | 50 | 35.06% | 50 | 35.10% | 100.0 | 338 | 0.250 | 73.847 | 257.26 |
| K02.13 | MISSION CLEARANCE | F | 4 | 20 | 6 | 76.92% | 6 | 76.90% | 100.0 | 210 | 0.260 | 10.968 | 158.04 |
| K02.14 | MTO | F | 4 | 95 | 132 | 41.85% | 140 | 40.40% | 96.6% | 481 | 0.350 | 52.169 | 352.22 |
| K02.16 | EOM AND SRVLNC | F | 4 | 127 | 146 | 46.52% | 208 | 37.90% | 81.5% | 349 | 0.040 | 69.080 | 580.13 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 24 | 2 | 92.31% | 2 | 92.30% | 100.0 | 180 | 0.390 | 13.857 | 319.44 |
| K02.25 | EOM NOTIFICATION | F | 4 | 8 | 8 | 50.00% | 9 | 47.10% | 94.1% | 180 | 0.150 | 75.116 | 256.53 |
| K02.4 | CALL FOR FIRE | F | 4 | 190 | 207 | 47.86% | 217 | 46.70% | 97.5% | 452 | 0.340 | 47.913 | 613.64 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 182 | 421 | 30.18% | 506 | 26.50% | 87.6% | 349 | 0.040 | 65.781 | 717.94 |
| K01.3 | INFO REQ MSG | O | 600 | 5 | 0 | 100.00% | 1 | 83.30% | 83.3% | 390 | 0.720 | 3.886 | 15.220 |
| K02.11 | AMMO INVENTORY | O | 600 | 188 | 0 | 100.00% | 44 | 81.00% | 81.0% | 3,005 | 2.810 | 72.068 | 520.73 |
| K02.15 | FS COORD MEASURES | O | 60 | 13 | 3 | 81.25% | 3 | 81.20% | 100.0 | 641 | 0.630 | 28.963 | 122.38 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 160 | 48 | 76.92% | 96 | 62.50% | 81.3% | 1,989 | 1.870 | 62.068 | 542.40 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 1 | 5 | 16.67% | 5 | 16.70% | 100.0 | 478 | 1.220 | 65.087 | 107.70 |
| K05.1 | POSITION REPORT | O | 60 | 9 | 1 | 90.00% | 5 | 64.30% | 71.4% | 299 | 0.160 | 25.665 | 181.68 |
| RUN TOTALS | | | 1,076 | 1,07 | 50.0% | 1,351 | 44.3% | 88.63% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs09 Seed: 999

Mission Thread SOS COMPLETIONS RATES

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS
SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.
MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 9

| MsgId: | | NET | SOS RQMNT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|-----|------------------|---------------------------|-------------|--------------|-------------------------------|--------------|---------------|------------------------|---------------|--------|--------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 32 | 48 | 40.00% | 54 | 37.20% | 93.0% | 309 | 0.220 | 37.444 | 199.36 |
| K02.12 | COMMAND TO FIRE | F | 4 | 33 | 37 | 47.14% | 44 | 42.90% | 90.9% | 338 | 0.140 | 62.110 | 266.92 |
| K02.13 | MISSION CLEARANCE | F | 4 | 22 | 4 | 84.62% | 4 | 84.60% | 100.0 | 210 | 0.260 | 6.041 | 75.310 |
| K02.14 | MTO | F | 4 | 97 | 124 | 43.89% | 138 | 41.30% | 94.0% | 481 | 0.410 | 56.732 | 350.12 |
| K02.16 | EOM AND SRVLNC | F | 4 | 133 | 174 | 43.32% | 202 | 39.70% | 91.6% | 349 | 0.060 | 58.563 | 340.34 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 23 | 3 | 88.46% | 3 | 88.50% | 100.0 | 180 | 0.040 | 10.793 | 246.60 |
| K02.25 | EOM NOTIFICATION | F | 4 | 6 | 11 | 35.29% | 11 | 35.30% | 100.0 | 180 | 0.040 | 68.727 | 228.36 |
| K02.4 | CALL FOR FIRE | F | 4 | 180 | 207 | 46.51% | 227 | 44.20% | 95.1% | 452 | 0.340 | 56.762 | 593.64 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 190 | 444 | 29.97% | 498 | 27.60% | 92.2% | 349 | 0.080 | 71.014 | 482.28 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | 0 | 100.00% | 100.0 | 390 | 0.380 | 1.513 | 3.740 |
| K02.11 | AMMO INVENTORY | O | 600 | 211 | 0 | 100.00% | 21 | 90.90% | 90.9% | 3,005 | 2.810 | 77.418 | 593.42 |
| K02.15 | FS COORD MEASURES | O | 60 | 8 | 8 | 50.00% | 8 | 50.00% | 100.0 | 641 | 0.770 | 101.50 | 422.71 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 174 | 60 | 74.36% | 82 | 68.00% | 91.4% | 1,989 | 1.870 | 72.313 | 596.58 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 2 | 4 | 33.33% | 4 | 33.30% | 100.0 | 478 | 11.750 | 66.597 | 125.01 |
| K05.1 | POSITION REPORT | O | 60 | 11 | 3 | 78.57% | 3 | 78.60% | 100.0 | 299 | 0.100 | 67.960 | 268.35 |
| RUN TOTALS | | | | 1,128 | 1,12 | 50.0% | 1,299 | 46.5% | 92.91% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs10 Seed: 1010

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 10**

| MsgId: | | SOS RQMNT (secs) | Destinations Reached, but | ----- All Destinations ----- | | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | | |
|-------------------|----------------------|---------------------------------|----------------------------------|-------------------------------------|----------------|--------------------|--------------|-----------------------------------|----------------------|------------|------------|----------------------|
| | | | | NET | Met SOS | SOS not MET | % | | min | avg | max | |
| K02.1 | CHECK FIRE | C | 4 | 34 | 52 | 39.53% | | 52 | 39.50% | 100.0 | 309 | 0.230 44.078 218.07 |
| K02.12 | COMMAND TO FIRE | F | 4 | 27 | 42 | 39.13% | | 50 | 35.10% | 89.6% | 338 | 0.450 31.071 148.10 |
| K02.13 | MISSION CLEARANCE | F | 4 | 20 | 5 | 80.00% | | 6 | 76.90% | 96.2% | 210 | 0.130 4.366 55.690 |
| K02.14 | MTO | F | 4 | 96 | 122 | 44.04% | | 139 | 40.90% | 92.8% | 481 | 0.360 42.073 287.54 |
| K02.16 | EOM AND SRVLNC | F | 4 | 130 | 170 | 43.33% | | 205 | 38.80% | 89.6% | 349 | 0.080 44.899 233.11 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 21 | 5 | 80.77% | | 5 | 80.80% | 100.0 | 180 | 0.070 11.580 233.77 |
| K02.25 | EOM NOTIFICATION | F | 4 | 9 | 8 | 52.94% | | 8 | 52.90% | 100.0 | 180 | 1.010 26.842 74.210 |
| K02.4 | CALL FOR FIRE | F | 4 | 185 | 208 | 47.07% | | 222 | 45.50% | 96.6% | 452 | 0.350 40.825 317.05 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 179 | 462 | 27.93% | | 509 | 26.00% | 93.2% | 349 | 0.060 36.858 329.13 |
| K01.3 | INFO REQ MSG | O | 600 | 6 | 0 | 100.00% | | 0 | 100.00% | 100.0 | 390 | 0.330 0.945 2.130 |
| K02.11 | AMMO INVENTORY | O | 600 | 207 | 0 | 100.00% | | 25 | 89.20% | 89.2% | 3,005 | 2.900 35.649 252.52 |
| K02.15 | FS COORD MEASURES | O | 60 | 12 | 4 | 75.00% | | 4 | 75.00% | 100.0 | 641 | 0.910 49.689 180.78 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 207 | 23 | 90.00% | | 49 | 80.90% | 89.8% | 1,989 | 1.900 30.003 180.20 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 2 | 4 | 33.33% | | 4 | 33.30% | 100.0 | 478 | 14.020 68.897 292.27 |
| K05.1 | POSITION REPORT | O | 60 | 11 | 3 | 78.57% | | 3 | 78.60% | 100.0 | 299 | 0.250 25.199 98.350 |
| RUN TOTALS | | | 1,146 | 1,10 | 50.8% | 1,281 | 47.2% | 92.87% | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs11 Seed: 1111

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 11**

| MsgId: | | NET | SOS RQMNT (secs) | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|------------|-------------------------|----------------------------------|--------------------|--------------|--------------------------------------|---------------|------------|-------------------------------|----------------------|------------|------------|
| | | | | Met SOS | SOS not MET | % | SOS not MET or call not tried | % | MCR | | min | avg | max |
| K02.1 | CHECK FIRE | C | 4 | 24 | 23 | 51.06% | 62 | 27.90% | 54.7% | 309 | 0.780 | 24.053 | 164.10 |
| K02.12 | COMMAND TO FIRE | F | 4 | 32 | 31 | 50.79% | 45 | 41.60% | 81.8% | 338 | 0.150 | 19.595 | 80.370 |
| K02.13 | MISSION CLEARANCE | F | 4 | 17 | 8 | 68.00% | 9 | 65.40% | 96.2% | 210 | 0.220 | 3.990 | 32.990 |
| K02.14 | MTO | F | 4 | 119 | 98 | 54.84% | 116 | 50.60% | 92.3% | 481 | 0.390 | 22.064 | 213.17 |
| K02.16 | EOM AND SRVLNC | F | 4 | 138 | 161 | 46.15% | 197 | 41.20% | 89.3% | 349 | 0.060 | 30.404 | 167.07 |
| K02.21 | CLEARANCE TO FIRE | F | 4 | 21 | 4 | 84.00% | 5 | 80.80% | 96.2% | 180 | 0.080 | 3.567 | 25.230 |
| K02.25 | EOM NOTIFICATION | F | 4 | 3 | 6 | 33.33% | 14 | 17.60% | 52.9% | 180 | 1.170 | 27.404 | 56.870 |
| K02.4 | CALL FOR FIRE | F | 4 | 220 | 162 | 57.59% | 187 | 54.10% | 93.9% | 452 | 0.340 | 20.876 | 238.19 |
| K02.6 | OBS MISSION UPDATE | F | 4 | 216 | 393 | 35.47% | 472 | 31.40% | 88.5% | 349 | 0.080 | 31.975 | 284.89 |
| K01.3 | INFO REQ MSG | O | 600 | 3 | 0 | 100.00% | 3 | 50.00% | 50.0% | 390 | 1.240 | 2.400 | 3.920 |
| K02.11 | AMMO INVENTORY | O | 600 | 191 | 0 | 100.00% | 41 | 82.30% | 82.3% | 3,005 | 2.860 | 33.754 | 198.53 |
| K02.15 | FS COORD MEASURES | O | 60 | 4 | 4 | 50.00% | 12 | 25.00% | 50.0% | 641 | 0.930 | 57.153 | 115.83 |
| K02.17 | FIRE MISSION SUMMARY | O | 60 | 187 | 25 | 88.21% | 69 | 73.00% | 82.8% | 1,989 | 1.870 | 29.256 | 246.05 |
| K02.24 | MISSION NOTIFICATION | O | 24 | 5 | 1 | 83.33% | 1 | 83.30% | 100.0 | 478 | 3.580 | 13.368 | 31.690 |
| K05.1 | POSITION REPORT | O | 60 | 4 | 0 | 100.00% | 10 | 28.60% | 28.6% | 299 | 1.380 | 2.013 | 2.490 |
| RUN TOTALS | | | 1,184 | 916 | 56.4% | 1,243 | 48.8% | 86.53% | | | | | |

Annex D (Mission Thread SOS Completion Rates) to Final Analysis Report for Fires on the Tactical Internet

Aai28Qtrs12 Seed: 1212

**Mission Thread SOS
COMPLETIONS RATES**

FoTi Threads: Firing Batteries/ HHC uses a Qtr LTS with a Qtr LTS for Bn wide net.

SBCT-1 Deployed In CAS

SBCT-3 EPUU Allocation. Only EPUU equiped OOTEs from both the FA Bn & all other FS assets.

**MC Retries: 2 Time Between: 10 ACK Gen Window: 4
MC-to-UC: 10 EPLRS Mode 4 Seed 12**

| MsgId: | | SOS RQMNT (secs) | NET | Met SOS | Destinations Reached, but | | | ----- All Destinations ----- | | | AVG MSG SIZE (in bits) | FIRST RECEIPT | | |
|-------------------|----------------------|---------------------------------|------------|----------------|----------------------------------|--------------|----------------------------------|-------------------------------------|---------------|-------|-----------------------------------|----------------------|--------|--------|
| | | | | | SOS not MET | % | SOS not MET or call not tried | % | MCR | min | | avg | max | |
| K02.1 | CHECK FIRE | | C | 4 | 26 | 41 | 38.81% | 60 | 30.20% | 77.9% | 309 | 0.100 | 51.200 | 217.37 |
| K02.12 | COMMAND TO FIRE | | F | 4 | 32 | 38 | 45.71% | 45 | 41.60% | 90.9% | 338 | 0.130 | 29.637 | 162.60 |
| K02.13 | MISSION CLEARANCE | | F | 4 | 23 | 3 | 88.46% | 3 | 88.50% | 100.0 | 210 | 0.080 | 12.455 | 272.20 |
| K02.14 | MTO | | F | 4 | 115 | 98 | 53.99% | 120 | 48.90% | 90.6% | 481 | 0.380 | 42.848 | 328.10 |
| K02.16 | EOM AND SRVLNC | | F | 4 | 137 | 155 | 46.92% | 198 | 40.90% | 87.2% | 349 | 0.090 | 45.923 | 544.47 |
| K02.21 | CLEARANCE TO FIRE | | F | 4 | 20 | 6 | 76.92% | 6 | 76.90% | 100.0 | 180 | 0.210 | 6.780 | 56.310 |
| K02.25 | EOM NOTIFICATION | | F | 4 | 8 | 8 | 50.00% | 9 | 47.10% | 94.1% | 180 | 0.330 | 61.321 | 150.54 |
| K02.4 | CALL FOR FIRE | | F | 4 | 199 | 179 | 52.65% | 208 | 48.90% | 92.9% | 452 | 0.340 | 42.007 | 456.04 |
| K02.6 | OBS MISSION UPDATE | | F | 4 | 219 | 395 | 35.67% | 469 | 31.80% | 89.2% | 349 | 0.070 | 34.029 | 294.04 |
| K01.3 | INFO REQ MSG | | O | 600 | 5 | 0 | 100.00% | 1 | 83.30% | 83.3% | 390 | 0.110 | 0.984 | 2.420 |
| K02.11 | AMMO INVENTORY | | O | 600 | 199 | 0 | 100.00% | 33 | 85.80% | 85.8% | 3,005 | 2.860 | 29.733 | 154.50 |
| K02.15 | FS COORD MEASURES | | O | 60 | 4 | 4 | 50.00% | 12 | 25.00% | 50.0% | 641 | 1.330 | 68.461 | 159.95 |
| K02.17 | FIRE MISSION SUMMARY | | O | 60 | 209 | 11 | 95.00% | 47 | 81.60% | 85.9% | 1,989 | 1.860 | 23.395 | 142.15 |
| K02.24 | MISSION NOTIFICATION | | O | 24 | 2 | 4 | 33.33% | 4 | 33.30% | 100.0 | 478 | 4.340 | 24.507 | 34.330 |
| K05.1 | POSITION REPORT | | O | 60 | 7 | 3 | 70.00% | 7 | 50.00% | 71.4% | 299 | 0.740 | 50.715 | 166.03 |
| RUN TOTALS | | | | 1,205 | 945 | 56.0% | 1,222 | 49.6% | 88.59% | | | | | |