

One-Tactical Engagement Simulation System (OneTESS)

Increment 1 Production

Request For Information (RFI)

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Agenda



- Purpose.
- Program Description.
- Scope of Request.
- Draft Schedule.
- Information & Equipment.
- Anticipated CDRLs.
- OneTESS Operational View.
- OneTESS Systems View.
- Questions.

Purpose



- The U.S. Army Program Executive Office for Simulation, Training and Instrumentation (PEO STRI), Project Manager Training Devices (PM TRADE) and Product Manager Live Training Systems (PM LTS) intends to procure a OneTESS Increment 1 capability, interfaced into the Homestation and Combat Training Center (CTC) Instrumentation Systems (IS), utilizing the Government Furnished Information (GFI) Technical Data Package (TDP) and other associated technical and logistics data developed under the Engineering and Manufacturing Development (EMD) phase of the program.



Program Description

- The OneTESS Increment 1 capability provides a realistic Tactical Engagement Simulation System (TESS) for the Indirect Fire (IDF) components of an Infantry Brigade Combat Team (IBCT). This acquisition will initiate Full Rate Production (FRP) of a 60mm, 81mm and 120mm Mortar training systems as well as a Forward Observer (FO) training capability.
- The OneTESS Increment 1 system will be interfaced with Home-station Instrumentation System (HITS), Interim Range Solution (IRS), Army Mobile Instrumentation System (AMITS), and the modernized Combat Training Center Instrumentation System (CTC-IS). The contractor will be responsible for end-to-end (from TESS through Instrumentation System) system performance; insuring that all required system functionality is integrated, produced, tested and fielded.

- ✓ The Government requires an LT2 IS integrated and tested solution.
- ✓ Obsolescence engineering needs to be built-in to base contract.
- ✓ GAT/SVT will be required to verify the as-build configuration.

Scope of Request

What are your experiences, citing examples



- What is your experience with TDP Build-To-Print production acquisitions?
- What is your experience with obsolescence design engineering?
- What is your experience with interfacing to Range Instrumentation System radios?
- What is your experience with integration, installation and test?
- What is your experience with technical data and Technical Data Package (TDP) modification?
- What is your experience with conduct of Interim Contractor Support (ICS).
- What is your experience with New Equipment Training (NET) modification and execution?

- ✓ If written response addresses, no need to discuss during meeting.
 - ✓ Identified in RFI.



Face-to-Face Discussion Topics

- What is the status of your organizations written response to RFI?
- What, if any, are your anticipated teaming arrangements?
- What, if any, are your concerns/questions on the Acquisition Strategy?
- What are your organizations and/or anticipated team's commercial certifications, e.g. ISO 9001.
- What past Government contract production experience do you have?
 - Program name.
 - Delivery Quantity.
 - Complexity.
 - Delivery Schedule.
 - Did you meet your required delivery date?

Face-to-Face Discussion Topics



- What do you believe the tasks are to integrate Tactical Engagement Simulation Systems (TESS) into a Range Instrumentation System and a Core Instrumentation system?
- What concerns or risks do you perceive by the Government requiring AMITS and CTC-IS Mod integration in the solicitation?
 - Both acquisitions require PRF-PT-00552 (IS/TESS ICD).
- What do you perceive the risk(s) to be on this program and how would you propose to reduce it/them?
- What would your plan if the Government was unable to GFE a complete set of injection molds?

Draft Fielding Plan



FY16

Field to:

- Fort Hood (16)
- Fort Bliss (16)
- Fort Campbell (16)
- Fort Drum (14)
- Korea (6)
- Fort Stewart (16)
- Fort Riley (16)
- Fort Carson (16)
- Schofield (14)
- Fort Bragg (16)
- Fort Lewis (16)
- Germany/JMRC (28)



FY17

Field to:

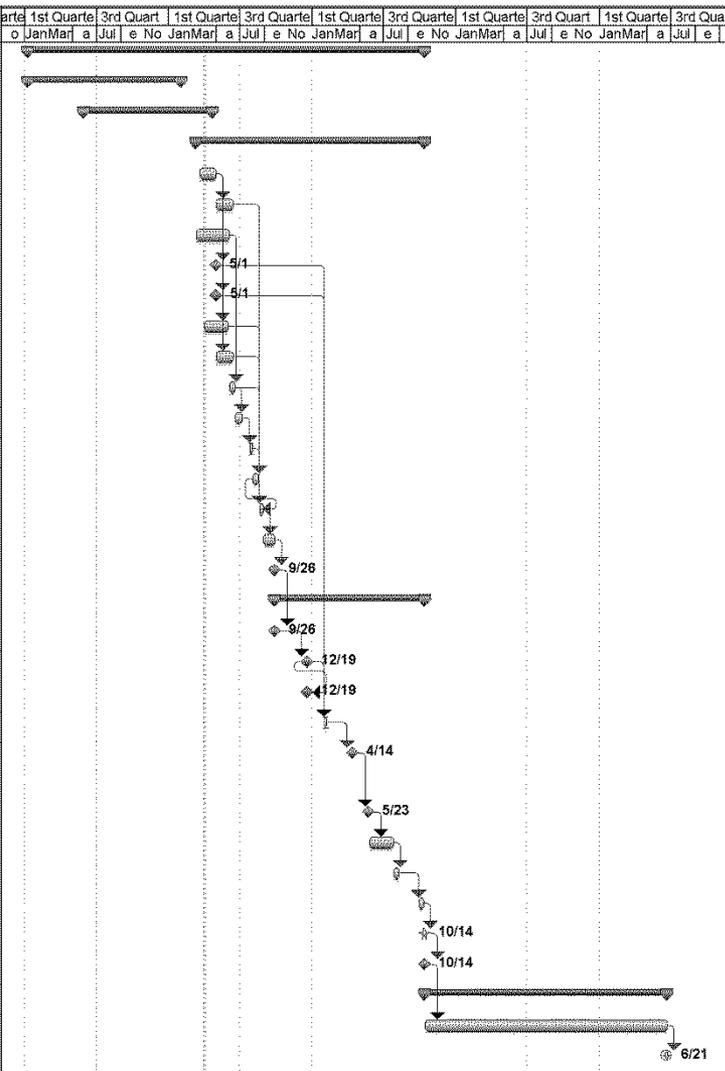
- Alaska (14)
- Fort Knox (16)
- Fort Benning (16)
- Fort Pickett (16)
- Fort Hunter Liggett (14)
- Fort McCoy (16)
- FCOE (12)
- MCOE (12)
- NTC (80)
- JRTC (44)
- Gowen Field/Orchard (16)



Draft Schedule



20130130 - OneTESS Incr 1 Production IMS v1.0								1st Quarter	3rd Quarter										
ID	Task Name	Duration	Start	Finish	Actual Start	Actual Finish	% Complete	Jan	Mar	Jul	Dec	Jan	Mar	Jul	Dec	Jan	Mar	Jul	Dec
1	OneTESS Increment 1 Production Master Schedule	722 days	1/9/2012	10/14/2014	1/9/2012	NA	0%												
2	Strategic Planning / Capability Development	280 days	1/9/2012	2/1/2013	1/9/2012	2/1/2013	100%												
8	Pre-Execution Approvals	234 days	5/30/2012	4/22/2013	5/30/2012	NA	0%												
14	Requirements Package / Solicitation	416 days	3/12/2013	10/14/2014	3/12/2013	NA	0%												
15	Dev/Staff/Release RFI	30 days	3/21/2013	5/1/2013	3/21/2013	NA	0%												
16	Market Research Report	30 days	5/2/2013	6/12/2013	NA	NA	0%												
17	Dev. Spec. SOW and CDRLs	60 days	3/12/2013	6/3/2013	3/12/2013	NA	0%												
18	Draft/Update/Staff/Approve Systems Engineering Plan (SEP)	0 days	5/1/2013	5/1/2013	NA	NA	0%												
19	Draft/Update/Staff/Approve Test & Evaluation Master Plan (TEMP)	0 days	5/1/2013	5/1/2013	NA	NA	0%												
20	Dev/Staff/Approval IGCE	45 days	4/1/2013	5/31/2013	4/1/2013	NA	0%												
21	Dev. Draft Section L, M & B	30 days	5/2/2013	6/12/2013	NA	NA	0%												
22	Coordinate/Conduct Technical Peer Review	10 days	6/4/2013	6/17/2013	NA	NA	0%												
23	Dev/Staff/Post Sources Sought	14 days	6/18/2013	7/5/2013	NA	NA	0%												
24	Industry Day	5 days	7/26/2013	8/1/2013	NA	NA	0%												
25	Industry Redlines Incorporated/Staff/Posted	10 days	8/2/2013	8/15/2013	NA	NA	0%												
26	Pink Team Review (PM TRADE-001)	8 days	8/20/2013	8/29/2013	NA	NA	0%												
27	Technical Documents Updated/Staffed/Posted	20 days	8/30/2013	9/26/2013	NA	NA	0%												
28	Requirements Package Provided To PCO	0 days	9/26/2013	9/26/2013	NA	NA	0%												
29	PALT Process	273 days	9/26/2013	10/14/2014	NA	NA	0%												
30	PALT Initiated	0 days	9/26/2013	9/26/2013	NA	NA	0%												
31	Draft RFP Released	0 days	12/19/2013	12/19/2013	NA	NA	0%												
32	PreSolicitation Conference	0 days	12/19/2013	12/19/2013	NA	NA	0%												
33	Solicitation Review Board	5 days	1/31/2014	2/6/2014	NA	NA	0%												
34	Final RFP Released	0 days	4/14/2014	4/14/2014	NA	NA	0%												
35	Proposals Due	0 days	5/23/2014	5/23/2014	NA	NA	0%												
36	Evaluations	45 days	5/26/2014	7/25/2014	NA	NA	0%												
37	PER	10 days	7/28/2014	8/8/2014	NA	NA	0%												
38	Contract Review Board	10 days	9/29/2014	10/10/2014	NA	NA	0%												
39	Contract Award	0 days	10/14/2014	10/14/2014	NA	NA	0%												
40	GAO Protest	0 days	10/14/2014	10/14/2014	NA	NA	0%												
41	Contract Execution	440 days	10/15/2014	6/21/2016	NA	NA	0%												
42	Development/Integration/Testing	22 mons	10/15/2014	6/21/2016	NA	NA	0%												
43	First Site Fielded	0 days	6/21/2016	6/21/2016	NA	NA	0%												





Information & Equipment

- Government Furnished Information.
 - All existing CDRLs / Technical Documentation in editable formats.
 - Technical Data Package
 - Manufacturing Instructions.
 - Software / Source Code.
 - Software Build Instructions.
- Government Furnished Equipment.
 - Increment 1 LRIP units (**to be refurbished as part of contract**).
 - Test Fixtures.
 - Molds (not complete set).



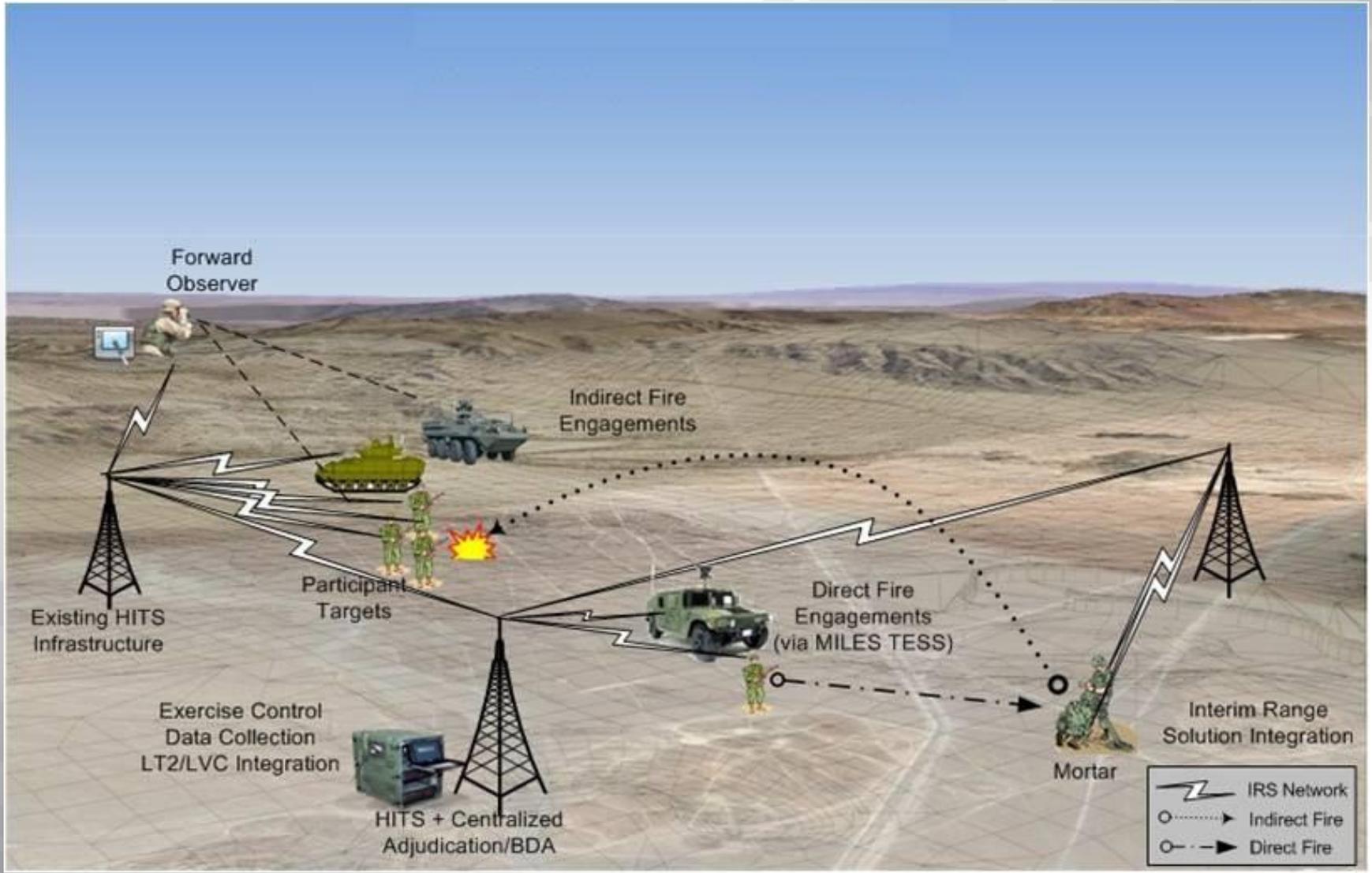
Anticipated CDRLs

- System/Subsystem Design Description (SSDD).
- Software Version Description (SVD).
- Master Test Plan (MTP).
- Software Test Descriptions (STD).
- System Test Procedures.
- DIACAP Package.
- LMI Product Data.
- LMI Product Data Summaries.
- Product Drawings/Models and Associated Parts Lists.
- Software Product Specification.
- Operator's Manual.
- Maintenance Manual.
- COTS Manuals.
- Instructional Media Package.
- Training Conduct Support Document.
- Safety Assessment Report.

✓ All CDRLs are planned to be DI-ADMN-80447A
Revision to existing Government Documents

OneTESS Operational View

OV-1



OneTESS Systems View

LRU Breakout



OneTESS Mortar Components

Mortar Kit (60mm, 81mm, 120mm)

- 1. Barrel adapter
- 2. Mortar simulator round
- 3. Sight Orientation Sensor (SOS)
- 4. OMNI (OneTESS MILES Network Interface)

Forward Observer (FO) Kit

- 5. OMNI
- 6. FO Tablet

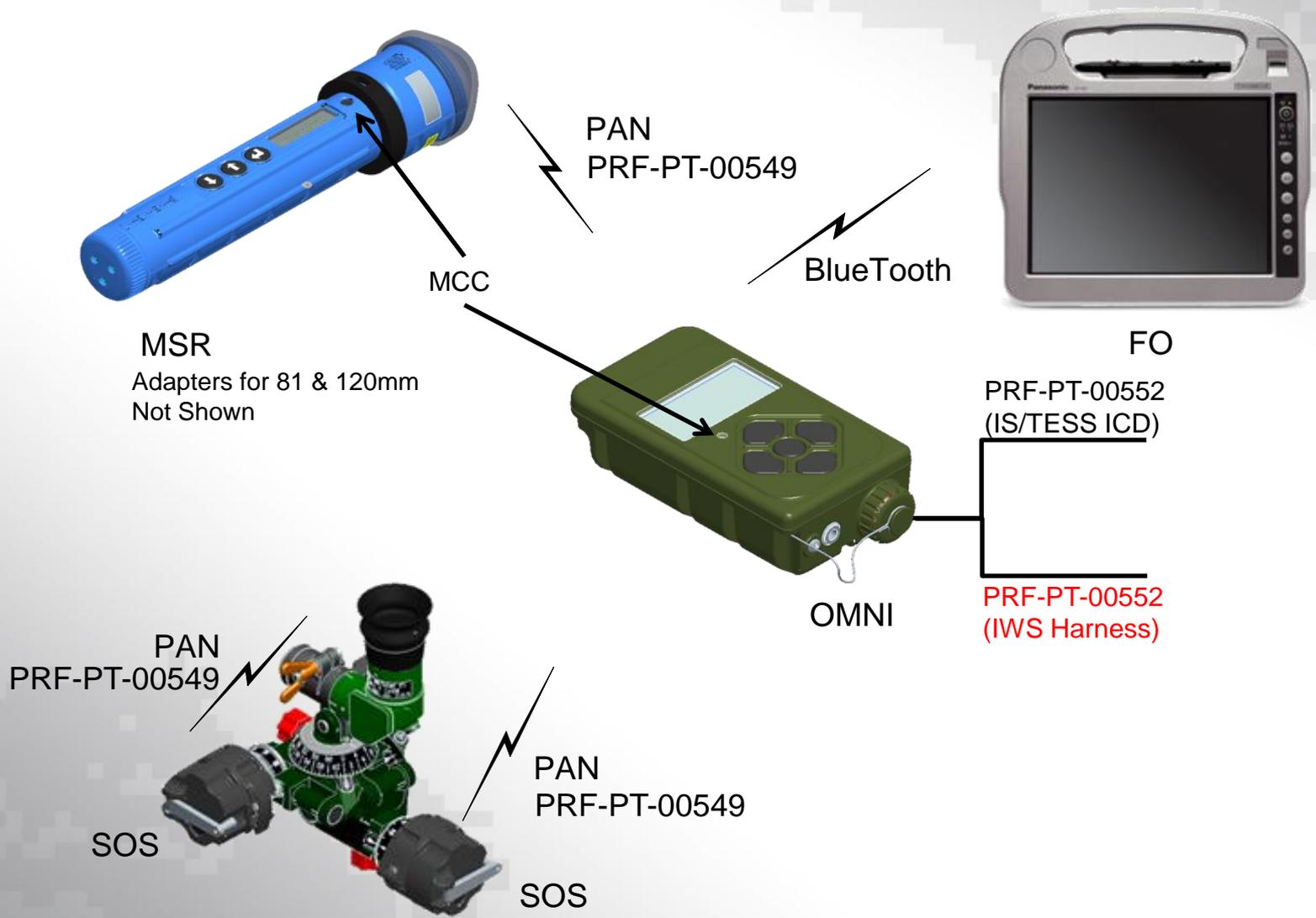


Interfaces to
Homestation
Instrumentation
Training System
(HITS) and Combat
Training Centers
(CTCs) via the
Instrumentation
Radio



OneTESS Systems View

Intra-system Communication



OneTESS Systems View

OneTESS MILES Network Interface (OMNI)



- Injection molded glass filled Nylon housings for added durability and strength.
- PRF-PT-00549 - LT2 PAN.
- IEEE 802.15.1 - Bluetooth.
 - PRF-PT-00549 defined message set.
 - CACP needed to create a new standard for Bluetooth (may be reflected in RFP - does not change implementation).
- External SW load and debug connectors.
- MCC Detector – used to put system into Maintenance Mode.
- Pouch (not shown).



OneTESS Systems View

Mortar Simulator Round (MSR)



- Injection molded glass filled Nylon housings for added durability and strength.
- PRF-PT-00549 - LT2 PAN.
- External SW load and debug connectors added.
- Common for all Mortars.
- MCC Detector – used to put system into Maintenance Mode.



OneTESS Systems View

Sight Orientation Sensor (SOS)



- Injection molded glass filled Nylon housings for added durability.
- Single assembly.
- PRF-PT-00549 - LT2 PAN.
- Snaps on to tactical sight.
- Tactile response, just a bit larger.
- 2 per sight.
 - Azimuth.
 - Elevation.

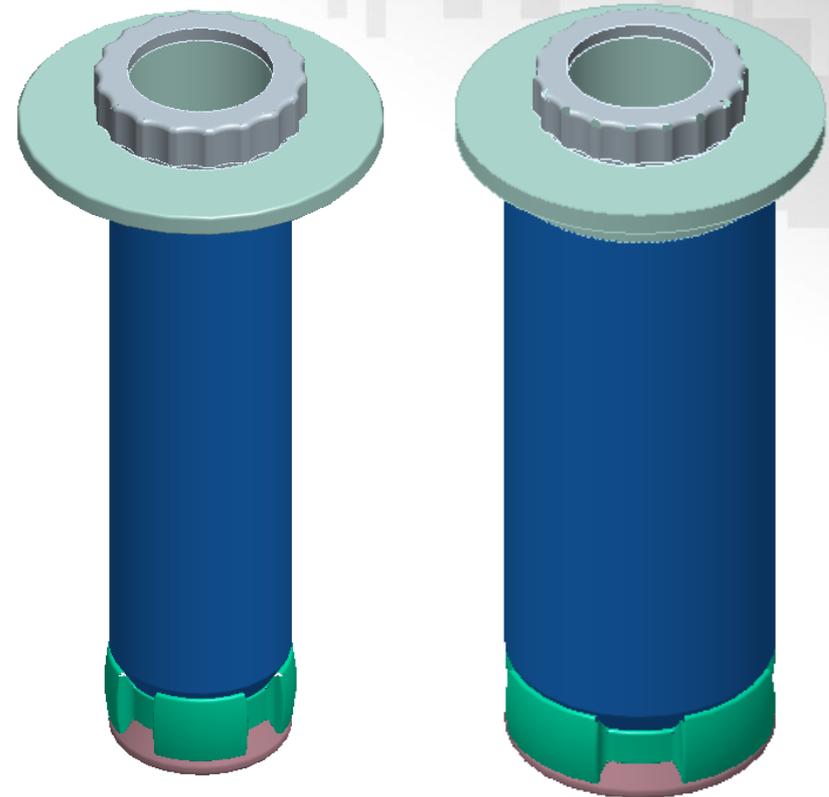


OneTESS Systems View

81mm & 120mm MSR Adapter



- Drop-in device used to permit common Mortar Simulation Round (MSR).
- Plastic tubing Double wedge expansion joint design with improved stopper design.



OneTESS Systems View

Forward Observer (FO) Tablet



- Tablet:
 - Windows 7.
 - Intel Core i5-3427U 1.80GHz.
 - 10.1 XGA Dual Touch (Stylus/Finger)
 - 128GB SSD.
 - 4GB DDR3L SDRAM.
 - Intel WiFi a/b/g/n.
 - Bluetooth v4.0.
- Accessories:
 - 4 Bay Battery Charger.
(CF-VCBU11U)
 - Batteries.
(CF-VZSU53AW)
 - Always-On Sleeve.
(TBCH2SLVE-P)



Panasonic Toughbook
CF-H2FSJAX1M

OneTESS Systems View

OneTESS Transit Cases



Mortar Set & FO Set Case

- Single Lid Case.
- Interior Dimensions (LxWxD): 35.87" x 27.00" x 12.95".
- Weight: 43.6 lbs.
- Lid Type: Hinged Lid.
- Lid Depth: 5.12".
- Bottom Depth: 7.83".

CASES

AL3627-0805

Single Lid Case



Sight Field Case

- Single Lid Case.
- Interior Dimensions (LxWxD): 9.50" x 7.50" x 7.25".
- Weight: 3.7 lbs.
- Lid Type: Hinged Lid.
- Lid Depth: 1.50".
- Bottom Depth: 5.75".

CASES

iM2075

Pelican Storm Case



OneTESS Systems View

OneTESS Dismount Cable

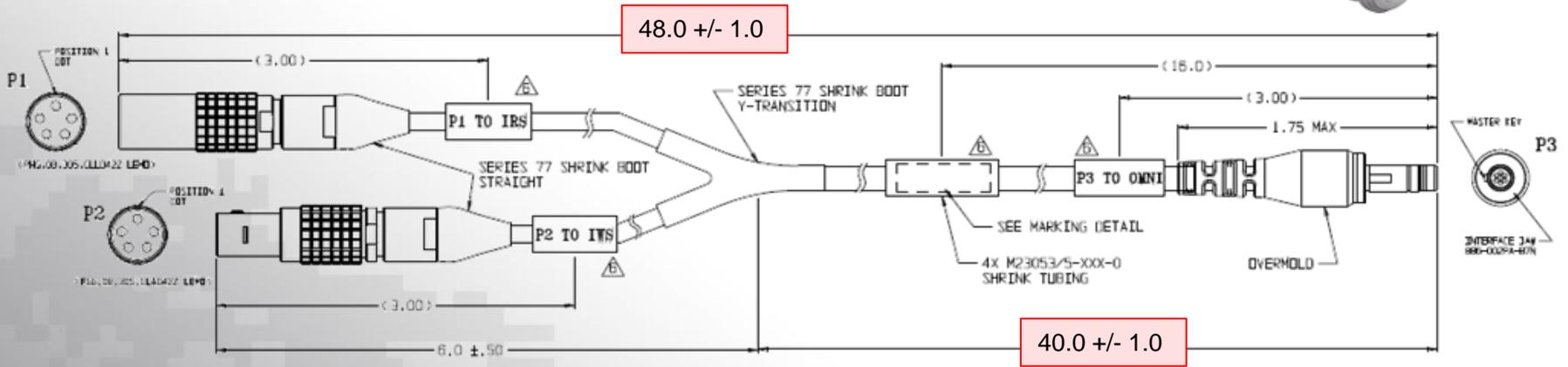


- Connects OMNI to IRS Radio and IWS Harness.
 - Neoprene Jacket.
 - Urethane overmold and boots will bond better to Neoprene jacket.
 - 28 AWG wire gauge.
 - Kevlar members added to improve strength.

Glenair 886-002PA-B7N Superfly Series Connector



Glenair 886-0003R Front Panel Mount Connector on OMNI



Questions

Backup

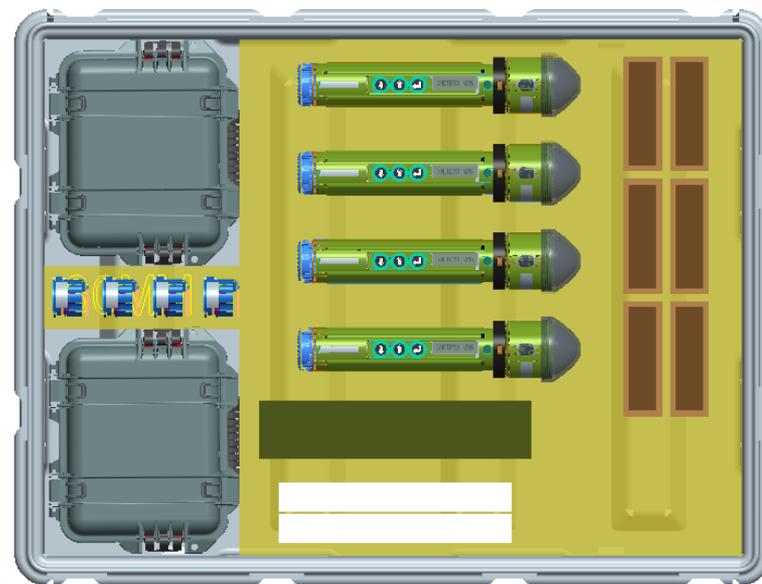
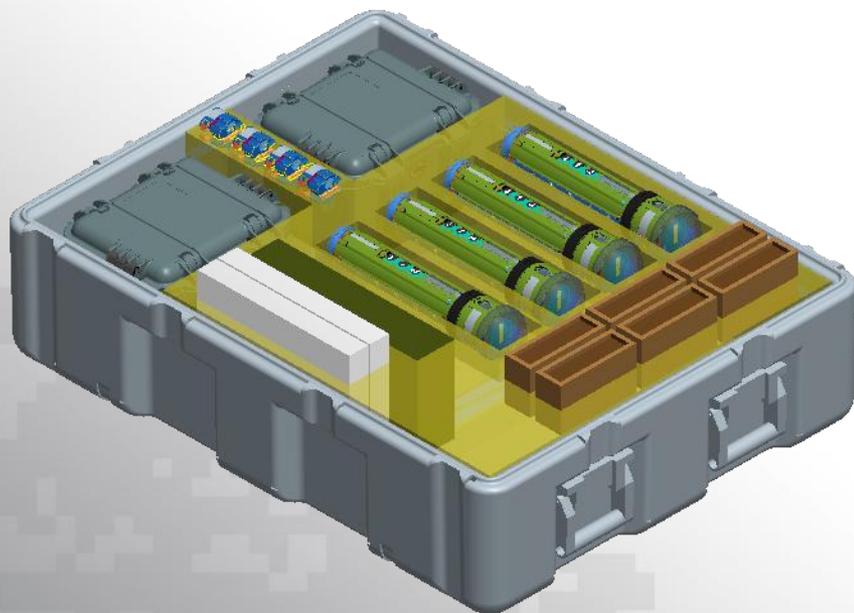
Mortar Site Field Case

- Case Contents.
 - M64A1/M67 Sight with 2 SOS's Installed.
 - Aiming Lights – Qty 3.
 - Fire Control Cover.
 - Small Screwdriver – Qty 1.
 - Operators Manual.



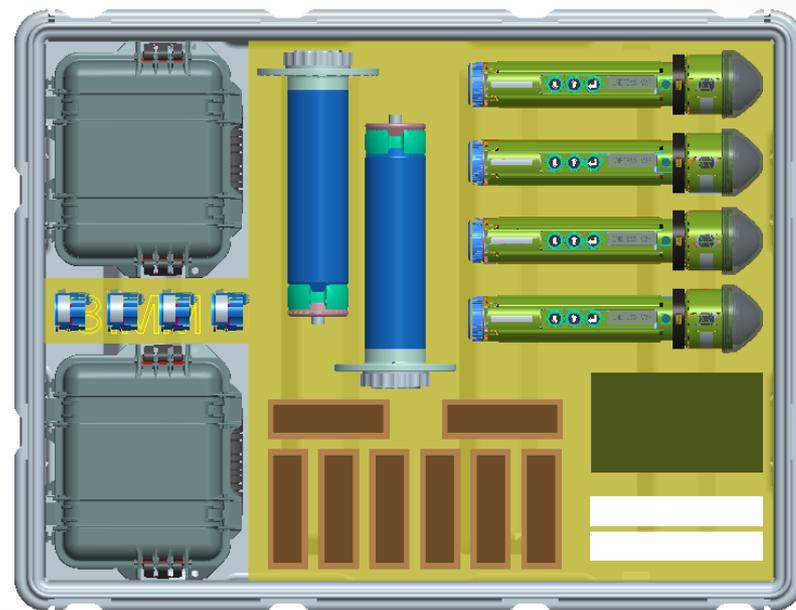
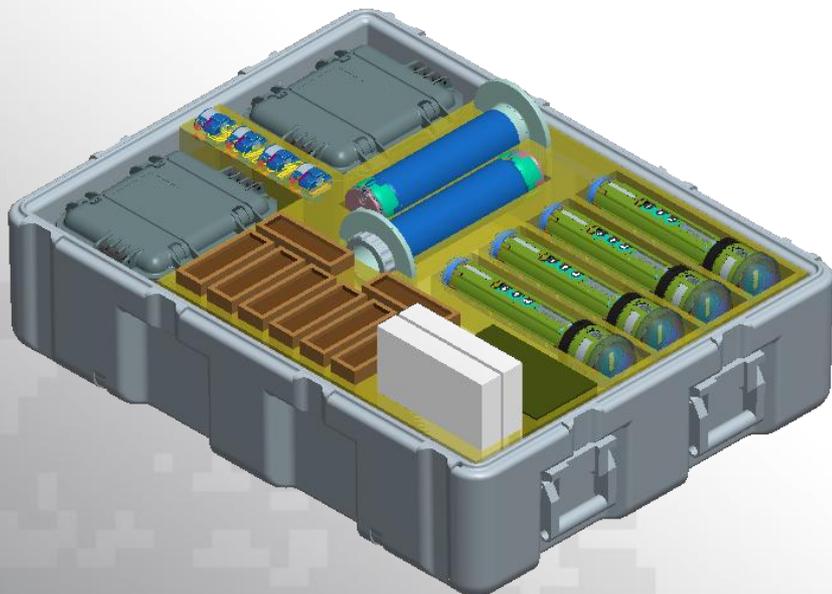
60MM Set - 2 Kits

- Case Contents.
 - Mortar Sight Field Case – Qty 2.
 - MSR – Qty 4.
 - OMNI w/ Pouch – Qty 6.
 - Dismount Cable – Qty 6.
 - Operator Manual – Qty 2.



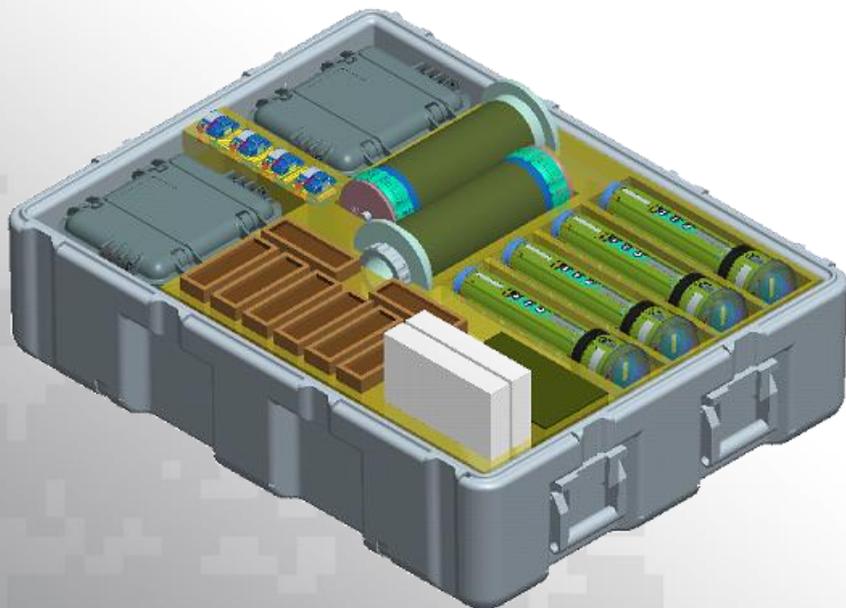
81MM Set - 2 Kits

- Case Contents
 - Mortar Sight Field Case – Qty 2.
 - MSR – Qty 4.
 - OMNI w/ Pouch – Qty 8.
 - Dismount Cable – Qty 8.
 - 81mm Barrel Adapter – Qty 2.
 - Operator Manual – Qty 2.



120MM Set - 2 Kits

- Case Contents.
 - Mortar Sight Field Case – Qty 2.
 - MSR – Qty 4.
 - OMNI w/ Pouch – Qty 8.
 - Dismount Cable – Qty 8.
 - 120mm Barrel Adapter – Qty 2.
 - Operator Manual – Qty 2.



FO Set - 4 Kits

- Case Contents.
 - FO Tablet w/ Pouch – Qty 4.
 - FO Tablet Power Adapter w/ Cable – Qty 4.
 - OMNI w/ Pouch – Qty 4.
 - Dismount Cable – Qty 4.
 - Operator Manual – Qty 4.

