Mission Operations Voice Enhancement

MOVE Project Update

Network Support Group

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Topics

- Type-D retrofit status
- 2.0.2 Baseline Release
- 2.0.3 Next Planned Release
- MOVE Project 5 year Base Contract Close Out
- Concerns

Type-D Retrofit

- A fire hazard created by arcing internal to the Type-D caused FUSA to recall all MOVE Type D keysets for remediation through a retrofit process
- The retrofit includes the following Keyset modifications:
  1. Replace the metal screw/washer nearest the power inverter output pin with a fire retardant rated plastic screw/washer
  2. Enclose the speaker wire with ≥1,200 v rated dielectric material.
  3. Reroute and clamp the speaker wire pair away from the high voltage area of the power inverter board
  4. Coat the high voltage section of the inverter board with an insulating conformal coating
  5. Fuse the power inverter board input.

MOVE Type-D Retrofit Status

Site	Planned Keyset Quantity 2878	Actual Keyset Quantity Received 2878	Delivered To Date 2088	% Complete 73%
GSFC	439	409	403	92%
JSC	913	910	891	98%
WFF	401	158	158	39%
STGT/WSGT/GRGT	261	117	115	44%
KSC	229	229	229	100%
JPL	324	45	45	14%
ARC	35	35	35	100%
MSFC	126	123	113	90%
PFRR	71	66	59	83%
GDSCC	23	22	22	96%
CDSCC	34	6	6	18%
MDSCC	22	12	12	55%

2.0.2 Baseline Release

- Tested successfully and distributed to all MOVE Sites
- Includes:
  - Voice Activity Indicator (VAID) on idle line keys
  - Adds Type-B and Type-F keysets
  - Closes 37 systemic trouble tickets
- Subsequent patch 2.0.2.1 fixes LSA Client lock up when duplicating keyset user profiles

2.0.3 Planned

- Expected to address between 15 and 20 open systemic trouble tickets. Total open tickets is 44.
  - Requires NASA approval of Engineering Changes
  - Development of acceptance test cases
  - Successful FUSA internal testing
  - Successful NASA acceptance Testing
- Planned availability for testing is in June timeframe

Project Close Out

- Final KSC delivery and acceptance 3/28/12 marked the end of the 5 year base contract with Frequentis USA
  - 10 year vendor maintenance period follows
- Project Closeout Report Presentation to CSO Board Chaired by Tom Miglin/HQ scheduled for Mid-May

Concerns

- FUSA Weaknesses
  - Understanding of systemic problems and expertise in resolving them
  - Test case development
  - Documentation production
  - High FUSA employee turnover rates / lack of continuity
  - Technical and system development expertise resides in Vienna, Austria at Frequentis Vienna (FVIE)

- MOVE Project engineering support is currently unfunded after 9/30/12.
  - Compensate for the FUSA weaknesses cited above
  - Bridge technical gap between most MOVE Sites and FUSA
  - Provide engineering and testing assistance to all MOVE Sites
  - In depth knowledge of NASA missions and systems

Questions

- Questions?