



PFR-167 Title: Repeated command destination port closings, ITOS 703p1-5

Assembly : EGSE	SubAssembly : ITOS	
Component :	Units Affected:	Units fixed:
Originator: Bryce Roberts	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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Failure Occurred During (Check one ✓)

☐ Functional test ☐ Qualification test ☒ X S/C Integration ☐ Launch operations ☐ Other (Flight Assy)

Environment when failure occurred:

☐ Ambient ☐ Vibration ☐ Shock ☐ Acoustic
☐ Thermal ☐ Vacuum ☐ Thermal-Vacuum ☐ EMI/EMC

Problem Description

(In this section it is important to document the specific symptoms of the problem. In the event we see it happen again, we would like to know as much as possible.)

After upgrading xenon (the EGSE ITOS workstation) to ITOS version 703p1-5, we ran into repeatedly closed connections when we tried to enable commanding to port 29093 (the default port to communicate with the EGSE cmd_decoder). We subsequently discovered that if we temporarily set the command port to 29090, enabled commanding, and then switched back to port 29093, the connection wouldn't close and commands would go through (with good cmd_decoder echoes). This gives us a work-around, but it would be nice to fix this once and for all.

Analyses Performed to Determine Cause

(How do we know how the failure happened? Was it a bad part, bad handling, what?)

The ITOS log file documents the problem:

```
16 06-056-20:11:06 STOL ECHO: Interactive: enable cmd
17 06-056-20:11:06 STOL_MSG: Enabling the cmd subsystem
17 06-056-20:11:06 STOL_MSG: Enabling commands...(cmd host = (null))
11 06-056-20:11:06 CMD_MSG: cmd_transmit connected to localhost (127.0.0.1), port
29093, from localhost (127.0.0.1), port 59095
11 06-056-20:11:06 CMD_MSG: cmd_transmit: Listening for FOP connections on port 7500
11 06-056-20:11:06 CMD_MSG: cmd_transmit (main): EOF on command output port 29093 (fd
6).
11 06-056-20:11:06 CMD_MSG: cmd_transmit: Connection to Command Destination Host
localhost on port 29093 closed
```

Corrective Action/ Resolution

(How do we fix the unit? And how do we make sure it doesn't happen again?)

We've decided to live with this, since there is an easy work-around, the problem is specific to our EGSE racks (we don't have this problem making command connections in the MOC or elsewhere), and as such will be a limited lifetime problem. This PFR can be closed.

Acceptance:

MAM: Ron Jackson _____ ; MSE: Ellen Taylor _____

PM: Peter Harvey _____ ; Cognizant Engineer _____

Date of Closure _____