

*Administration & Maintenance***Front-panel Display**

The Luna SA front-panel LCD provides system status summary information.

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Ver:4.0.0-
200
```

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InService
100
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The top line of the display cycles through the current software version, followed by the currently assigned network interface device addresses. The bottom line shows the current system status (see table below). If there are no faults detected, the display indicates "In service, condition code 0" (InService 0). If one or more error conditions have been detected, the display shows the most severe, until that condition has been corrected, then it displays the next most severe condition, until all errors have been corrected.



Not all "error" conditions are faults. Some might merely indicate that an available service is not running because you chose not to run it.

The displayed messages update following a scan of selected system conditions, approximately every 20 seconds. Therefore, if you have fixed a condition that caused an error, the display should clear the error indication within seconds. If the display continues to show the error message, then the condition may have re-occurred and you should investigate. The display summarizes the information that you can retrieve using various "show" commands in the Luna Shell (lunash).

Currently implemented:

Condition Type	Code	Meaning	lunash command equivalent
InService	0	In service, no trouble	n/a
	55	In service, eth0 is offline Please run 'network show' and 'service network restart' for more information	network show
	60	In service, eth1 is offline Please run 'network show' and 'service network restart' for more information.	network show
	100	In service, SNMP subsystem is not running.	snmp show
OutofSrv	20	Out of Service - Please run "service status ntlS" command and "service start ntlS" for more information.	service status ntlS

	25	Out of Service - NTLS is not bound to an ethernet device. Please run "ntls show" command and "syslog tail" for more information	ntls show
	30	Out of Service - HSM subsystem has experienced one or more critical events. Please run "hsm information show" command and "syslog tail" for more information.	hsm information show
OffLine	50	OffLine - Neither ethernet interface is connected to the network. Please run "network show" command and "syslog tail" for more information.	network show
InSrvTrb	70	In Service Trouble - The syslog subsystem is not running. Please run "service start syslog" command and "sysconf tarlogs" for more information.	
	90	In Service Trouble - SSH (secure shell) subsystem is not running. Please run "service status ssh" and "syslog tail" for more information.	service status ssh
	110	In Service Trouble - Hard disk utilization is too high. Please run "syslog tarlogs" and then ctp to remove older log files	system disk show

Display Conventions

The front-panel displays two lines of 16 characters. When no error conditions are detected (normal in-service), the display cycles through the network interface devices, showing the current IP address of each device. Because the display width is limited to sixteen characters, and an IPv4 address can occupy as many as 15 characters (12 digits plus three periods [full-stops] as separators), the interface label grows or shrinks according to the number of characters occupied by the actual IP address that is associated with that interface. For example:

Interface info...	... would be displayed as
ETH0 177.003.004.001	ETH0 177.3.4.1
ETH1 210.011.100.152	1-210.11.100.152
ETH0	0192.168.100.233

192.168.100.233

System State	Expanded Description
InService	In this service state the appliance is online and the necessary subsystems are operational. The appliance is providing encryption/signing services as expected.
InSrvTrb	In this service state the appliance is online and the necessary subsystems are operational. The appliance is able to provide encryption/signing services but not necessarily to the fully expected level.
OffLine	In this service state the appliance is not currently connected to the ethernet network and cannot provide service.
OutOfSrv	In this service state the appliance is online but the necessary subsystems are NOT operational. The appliance is NOT providing service.