

COMPUTING

ViewCheck™ Software

Diagnostics Software for ATCA® Platforms

Data Sheet

Online in-service and out-of-service fault detection software for ATCA® blades

- Incorporate diagnostic capability into your application code
- Quickly identify and locate hardware issues
- In-service monitoring of hardware device status and critical errors
- Modular out-of-service tests for all key hardware components

ViewCheck™ is a licensed in-service and out-of-service diagnostic suite specifically developed for the Artesyn range of ATCA® payload and switch blades. ViewCheck software can be used to diagnose and monitor ATCA blades, as part of a wider system management policy enabled by Artesyn's SSF ATCA system management software framework. The diagnostic utilities of ViewCheck software help in identifying, detecting, and locating failures on a blade. ViewCheck software also provides a mechanism to monitor the status of devices such as CPU, storage, Ethernet counters and errors.

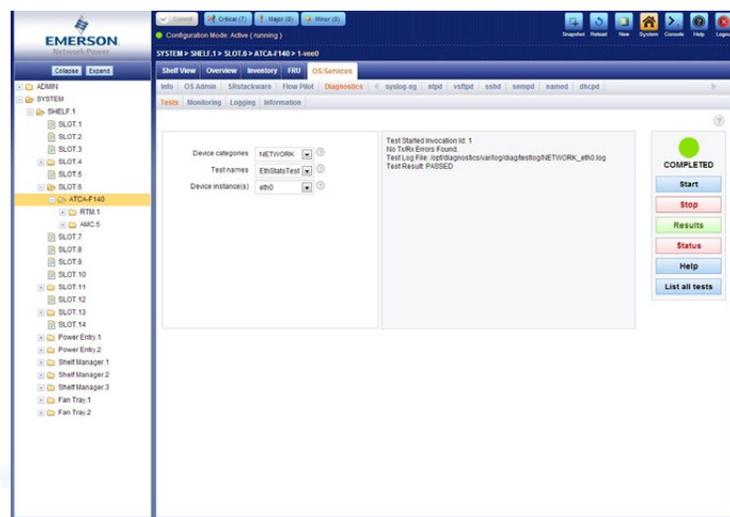
Positive feedback of correct operation of the system, both during boot and system run-time provides confidence and allows application developers to incorporate diagnostic capability within their application code. In the event of an issue occurring, obtaining accurate localization information is a key requirement.

The ViewCheck software can be used locally as standalone diagnostics software using CLI and XML interfaces or it can be accessed remotely as part of the software framework. For more information on Artesyn's SSF framework, please download the datasheet.

In-service diagnostics: In this mode, the diagnostics service can run while the blades are instantiated with customer applications and are in-service. ViewCheck software can monitor key hardware parameters like network counters, network errors, in addition to watching out for kernel critical errors logged by various hardware devices and device drivers.

Out of service diagnostics: In this mode, the board is booted into a self-contained test suite complete with various diagnostics tests and utilities. In the event that the board fails such tests, an accurate diagnosis of the results can be printed to focus and expedite repair.

ViewCheck Reporting Under SSF



In-Service Monitoring Specifics

The in-service monitoring of diagnostics provides functionality to monitor hardware device status and monitor device-critical errors. The hardware device statuses monitored are:

- Storage device health
- Network devices counters statistics
- Network devices error statistics

Abnormal behavior and potential device critical errors are logged under standard Linux OS categories (KERN_ERR or KERN_CRIT)

Out-of-Service Monitoring Specifics

Out-of-service diagnostics are used to test hardware components of the blades in detail. These tests can only be executed when blades are offline and not providing any service. Tests are included that check the operation of all major hardware elements, such as processors, interconnect, management subsystem, and any attached storage. Extensive memory and network tests are also included. Tests are focused on both device functionality and the interconnection between devices.

Ordering Information

<i>Part Number</i>	<i>Description</i>
SL-DGF140-01-001-STD	ViewCheck support for ATCA-F140, single blade license
SL-DG7370-01-001-STD	ViewCheck support for ATCA-7370, single blade license
SL-DG9405-01-001-STD	ViewCheck support for ATCA-9405, single blade license
SL-DG7475-01-001-STD	ViewCheck support for ATCA-7475, single blade license
SL-DG7470-01-001-STD	ViewCheck support for ATCA-7470 single blade license

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