

## System Services Framework ATCA® Management System

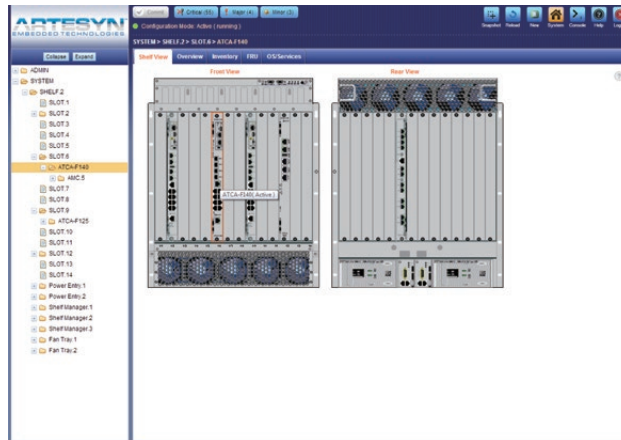
### Data Sheet

#### *An intuitive & realistic view of managed system hardware*

- Simple, uniform interface for managing all components of a complex system throughout development, deployment and in-field operation
- Eases integration of customer hardware and software services
- Out-the-box system management functions yield up to 40% reduction in time-to-market for network elements
- Rich management interface via GUI, or CLI/XML/SNMP for easy integration with customer's existing operation and management platform
- Secure access for all aspects of platform management
- Significant bearing over full product development lifecycle – from component bring-up through product deployment, operation and EOL
- Customers' focus on their value-add applications, not common & standard management functions

System Services Framework (SSF) is a centralized management system to configure and monitor software and hardware components in a single shelf or complex system of multiple AdvancedTCA® (ATCA®) shelves. SSF is optimized to work with the Artesyn Embedded Technologies range of application-ready Centellis® ATCA systems, which cover 2-slot, 6-slot and 14-slot variants that are designed to meet the needs of both telecom central office and network data center environments. SSF introduces an out-the-box paradigm to ATCA systems and further improves time-to-market for network element design, and ease of operation for in-field systems.

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



## Highlights

- Pre-Integrated with Artesyn Centellis® AdvancedTCA systems and payload blades, and ViewCheck diagnostics
- Seamless integration with customers' own ATCA content via standard ATCA management interfaces; GUI updates require only a front-panel graphic for a customer's blade.
- Provides secure access control with account management, user profiles and authentication via RADIUS server
- Auto-discovery and navigable Inventory of running hardware and software services
- High level overview of complete system status including sensors, alarms, events, hot-swap status, FRU information, power, cooling, and shelf management
- Graphical representation of real system hardware and platform parameters (temperature, voltage, etc.)
- Dynamic status updates with zoom-in/out and rewind of historical data
- Pre-integrated with Artesyn-provided system services and applications

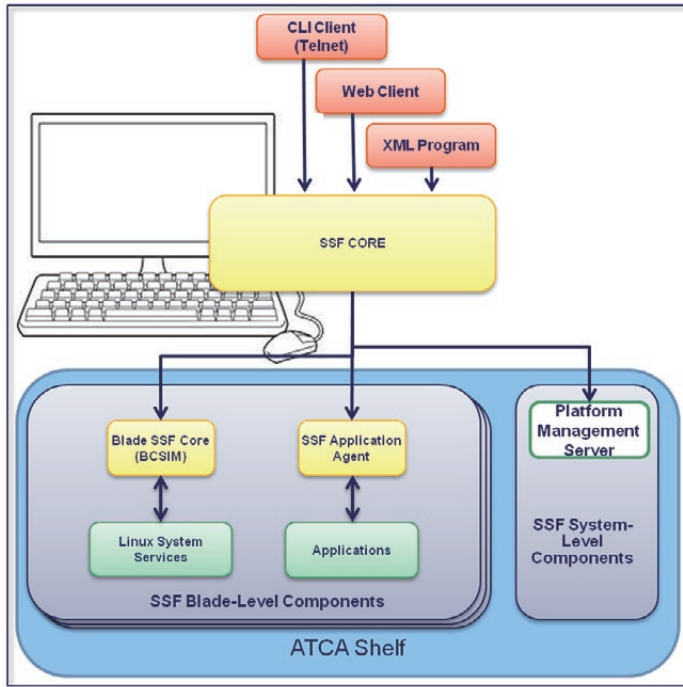
## Pre-Integrated System Services and Applications

 <b>System Login</b>	 <b>Diagnostic Service</b>	 <b>Firmware Upgrades</b>	 <b>Hardware Management</b>	 <b>Basic Switching</b>	 <b>Advanced Switching</b>	 <b>Alarm Management</b>
	 <b>System Statistics</b>	 <b>FlowPilot</b>	 <b>License Management</b>	 <b>System Monitoring</b>	 <b>Remote Management</b>	 <b>Fault Management</b>

SSF comes pre-integrated with a rich suite of common Linux services, as well as applications developed by Artesyn

- System level configuration management with persistency, snapshot, playback
- System event logging and viewing
- Platform services (DHCP, NTP, DNS, etc) managed from a single interface
- Firmware upgrade/roll-back for all processing elements in the system
- Available SRstackware® switch management application, running on Artesyn ATCA-F125 & ATCA-F140 blades, including: switch device initialization, configuration, management and a full suite of L2 and L3 protocols
- Available FlowPilot™ load balancing application
- Available ViewCheck™ in-service and out-of-service diagnostics application
- Alarm management

## Flexible Deployment Options



Rather than a single 'application', SSF is a distributed suite of services, deployed at the 'point of need' and cooperating to provide a whole-system environment:

The SSF core application runs on either a processor within the system or an external PC

The hub blade (shelf manager) has its own server to manage system-level components

Individual lightweight agents run on each blade to interface with system services and applications

## System Requirements

SSF ATCA system management software is optimized to manage Artesyn's Centellis series ATCA systems and can see third-party hardware that complies with the PICMG3.0 shelf management specification. It is accessed through a core element, the Artesyn PrAMC-7311 using a PC connected to the system and running Linux.

## Supported Platforms and Client Blades

SSF ATCA system management software currently supports Artesyn's Centellis 2000, AXP640 and AXP1440 platforms. All elements in the system act as clients, client support is provided for the following Artesyn products:

- PrAMC-7311
- ATCA-F125
- ATCA-F140
- ATCA-7370
- ATCA-7470
- ATCA-9405

## Licensing

SSF is licensed per chassis with the license being node locked to the element running the SSF core. For example a license could be purchased for the AXP-640 chassis and node locked to either a PC having IP connection to the AXP-640 or to the PRAMC-7311 located in the system. Any AXP-640 system can be accessed from the licensed node with any combination of SSF enabled blades. Every Artesyn Centellis ATCA chassis ships with a three month full access evaluation license and 12 month read-only access license, which can be easily and cost-effective upgraded to full access.

### Ordering Information

Part Number	Description
<b>SL-SF2000-01-001-STD</b>	SSF support for CENT-2000, single system license
<b>SL-SF640-01-001-STD</b>	SSF support for AXP640, single system license
<b>SL-SF1440-01-001-STD</b>	SSF support for AXP1440, single system license
<b>SL-SF14100-01-01-STD</b>	SSF support for AXP14-100, single system license

## The Artesyn Experience

Artesyn has over 30 years of experience serving the telecommunications industry and has hundreds of thousands of products deployed in the world's communications networks. With that long experience comes a deep understanding of our customers' requirements for on-time, consistent and high quality product coupled with excellent customer support. We deliver on all counts from our own world-class factory and seasoned support experts.

Artesyn strives to speed our customers' time to revenue and make your development process as easy as possible. Our System Services Framework is just one example of how we respond to our customers' needs for products and services. All these features and experiences are supported globally with local system architects and FAEs to keep you on schedule.

We're very flexible and agile. We recognize that you may need your system to have your own unique branding. No problem. We're used to that. We have services that allow you to define the look and feel that's consistent with your company's branding and aesthetic standards. Our flexibility isn't just limited to look and feel. Integration services, unique support requirements, longevity of supply, drop shipments and many more services are designed to make it easy to do business with us and quick for you to get to market and deploy smoothly.

## SOLUTION SERVICES

Artesyn Embedded Technologies provides a portfolio of solution services optimized to meet your needs throughout the product lifecycle. Design services help speed time-to-market. Deployment services include global 24x7 technical support. Renewal services enable product longevity and technology refresh.

### WORLDWIDE OFFICES

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