



# FORUM SYSTEMS RELEASE NOTES

FORUM SENTRY VERSION 8.11



**FORUM SYSTEMS**

A Crosscheck Networks Company

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Forum Systems Release Notes, December 4, 2020

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## Table of Contents

1.	Installation / Upgrade Documentation and Technical Support .....	4
1.1	Upgrade Instructions.....	4
1.2	Technical Support.....	4
2.	Minimum Requirements .....	5
2.1	Requirements for the Forum Sentry Non-Hardware Instances .....	5
3.	Known Issues / Important Changes .....	5
3.1	Version 8 Important Changes (Please Review).....	5
3.2	Past Important Changes .....	8
4.	Feature Enhancements and Bug Fixes .....	8
4.1	Summary of Enhancements in Release 8.11.70 [12/04/2020].....	8
4.2	Summary of Enhancements – Recent GA Releases .....	8

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Forum Systems Sentry Release Notes  
Version 8.11.70  
December 4, 2020

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## 1. Installation / Upgrade Documentation and Technical Support

Please refer to the following documents which will assist in the installation of the Forum Sentry hardware appliance, virtual appliance, AMI, and software deployments:

- [FS\\_Sentry\\_V8.11\\_Hardware\\_Installation\\_Guide](#)
- [FS\\_Sentry\\_V8.11\\_Software\\_Installation\\_Guide](#)
- [FS\\_Sentry\\_V8.11\\_Quick\\_Start\\_Guide](#)
- [FS\\_Sentry\\_V8.11\\_VMware\\_VirtualOS\\_Installation\\_Guide](#)
- [FS\\_Sentry\\_V8.11\\_Amazon\\_AMI\\_Installation\\_Guide](#)

The Full PDF documentation, including the documents mentioned above, can be found here:

[Forum Systems Support Help Desk](#)

### 1.1 Upgrade Instructions

The full upgrade instructions for each Forum Sentry form factor are located here:

[Upgrading Forum Sentry](#)

### 1.2 Technical Support

Online Knowledgebase and Help Desk

Visit the Forum Systems Support Help Desk site for documentation, FAQs, best practice guides, and to open Help Desk tickets:

[Forum Systems Support Help Desk](#)

Registration is required for full KB access.

Forum Systems Support Contact Info:

Email: [support@forumsys.com](mailto:support@forumsys.com)

US Toll Free: 1-888-811-0060 option 2

UK Toll Free: 0870-820-0350 option 2

International: +1-781-791-7510 option 2

## 2. Minimum Requirements

### 2.1 Requirements for the Forum Sentry Non-Hardware Instances

The minimum requirements for all non-hardware Sentry instances are now consolidated and located in the online Knowledge Base article linked below.

[Forum Sentry Minimum Requirements](#)

## 3. Known Issues / Important Changes

[See section 4.1 for all changes related to this specific release](#)

### 3.1 Version 8 Important Changes (Please Review)

#### 8.11 (all)

- All non-hardware instances of Forum Sentry (including software, virtual appliance, and AMI) will require a new license to upgrade to v8.11. Please contact [Forum Systems Support](#) to obtain the necessary license before upgrading.
- Licenses are now applied on the System → Settings → License page of the WebAdmin interface (no longer on the General Info page).
- Support for the Elastic Licensing Model has been added to Sentry. A Forum Sentry License Server (installed separately) is required for this new licensing model. Contact Forum Support for more information.
- After launching a new ForumOS AWS AMI or Azure VM, be sure to access the CLI and set an Enable Mode password. Failure to do so may result in the need to factory reset the instance later on.
- Important information about upgrade packages - Older Sentry virtual appliances and AWS AMIs (installed before August 6, 2019) will need to upgrade using legacy 456X upgrade packages. New virtual appliances and AMIs will utilize 556X upgrade packages – see the README.txt on the FTP site for more info or contact Forum Systems Support.

#### 8.11.61

- The Forum Sentry AMI is now available in the [AWS Marketplace](#).
- A performance degradation issue related to the Pattern Match task has been resolved.

#### 8.11.50

- Memory Allocation issue with ForumOS AWS AMI and VM – This release resolves the known memory allocation issue with the ForumOS AWS AMI and Virtual Appliances. After launching the ForumOS, it is no longer necessary to upgrade the firmware (using the same or a newer version) to ensure the full memory allocation for the instance is utilized.

#### 8.11.39

- Adds support for multiple Subject Alternative Names (SANs) when generating keys
- Downgrading the ForumOS (hardware, virtual, AMI, etc.) now requires a full factory reset after the downgrade, which was previously recommended only

#### 8.11.34

- Adds support for AWSv4 Signatures to HTTP remote policies
- Updates the ClamAV engine to v0.100.3

#### 8.11.19

- New database schemas are available for each Data Source type, and they are available within the Data Source policies. Customers using Data Source policies should contact Forum Support prior to upgrading to v8.11 to discuss the database migration process.
- Support for the upcoming API Developer Portal product has been added to Sentry. The DevPortal is currently in beta and is coming soon. Contact Forum Support for more information.
- New Sentry / ForumOS Azure form factor now available.
- Support for GCM Ciphers with SSL Policies is now available.
- With the v8.11.19 release, there are several UI changes related to policy generation wizards and tasks lists (e.g. drag and drop tasks within a task list).
- Support for TAM Policies has been removed with Sentry v8.11.19. Customers using TAM policies should contact Forum Support prior to upgrading to v8.11.
- Support for the deprecated AmberPoint integration has been removed from Sentry with v8.11.19.
- Support for the deprecated HP Select Access integration has been removed from Sentry v8.11.19.
- The Sentry JDK has been upgraded to version 1.8.0\_192 with Sentry v8.11.19.

#### **8.9.79**

- Adds option to Enable/Disable blocking of encrypted archives with ClamAV scanning

#### **8.9.77**

- Resolves issues with WebLogic JMS throughput performance
- Resolves issue with SMTP policies related to null MAIL FROM header

#### **8.9.73**

- Resolves GDM Import/Export issues experienced after upgrading from earlier releases.

#### **8.9.60**

- REST API changes. (See section 4.2 for details)

#### **8.9.51**

- Several REST API enhancements and fixes. See section 4.2 for details.
- Resolves issue with the TLS extension Server Name Indication (SNI).
- Sentry Cache policies do not support the s-maxage Cache-Control remote header.

#### **8.9.42**

- Sentry AMI instances now support multiple network interfaces, the ability to add and remove static routes, and the ability to set a custom system name.
- The ClamAV engine has been updated to v0.99.3.

#### **8.9**

- Sentry instances previously decommissioned as part of a license transfer will fail to upgrade and fail to run v8.9.
- Several GUI changes have been implemented so a hard browser refresh (or clearing of cache) may be necessary after upgrading to v8.9.
- For LDAP policies that utilize SSL, the associated SSL Initiation policy is now set within the LDAP policy (the system SSL initiation policy is no longer used).
- New database schemas are available for each Data Source type, and they are available within the Data Source policies. Support for upgrading schemas has been added.
- New Online Help format and content updated for v8.9.

#### **8.7.128**

- Customers running AMI and Virtual Appliance instances will need to upgrade after initial launch to ensure full memory allocation is available. Even if the AMI or OVA includes the latest firmware, an upgrade to that same latest firmware is required.

#### **8.7.112**

- Customers upgrading from older versions to any 8.7 release prior to 8.7.112 may experience issues with Task List Groups after an upgrade and subsequent restart.
- With v8.7.112 and later, Task Lists and Task List Groups can no longer be renamed if they are associated to other policies.
- With v8.7.112, there were significant changes to the OAuth server and client features in Sentry. If using OAuth features it is strongly recommended that they are tested in a non-production instance prior to upgrading production environments. See the full list of OAuth related changes in section 4 of this document.

### 8.7

- With v8.7.88 the new 556X Hardware Appliance model is now available. This model uses specific upgrade packages so be sure to download the packages from the correct folder from the FTP site before updating this model. The upgrade will fail with an error indicating the wrong package type if the incorrect files are used.
- Support for AMQP 1.0 protocol has been added.
- A new login color can be set on the WebAdmin login page so that Sentry administrators can quickly identify the instance (prod, test/dev, etc..) they are logging into based on color.
- A new System Information Banner has been added to the top right corner of the WebAdmin interface to enable quick access to the version, logged in user, date/time, etc.
- Several new operations and improvements to the REST API are available with v8.7.42 including a requirement to use HTTPS with the REST API calls
- See below for full list of changes in each release

### 8.5

- With v8.5.130 the 32bit software packages are now only available upon request
- Updated Release Notes format with v8.5.113
- Database Schema Changes with v8.5.113 – The data source schemas have changed with v8.5 and will need to be updated if using data source policies for any reason, including: reporting, configuration management, content archiving, persistent sessions, etc. The latest schemas are available on the data sources page of the WebAdmin interface for each database type supported.
- Deprecates support for the In-Line 1 IP topology mode

### 8.3

- Support for SSLv2Hello was removed from the product with 8.3.474 but added back as an optional component with v8.3.481. This change may break existing policies with older clients that utilize the SSLv2Hello to begin the SSL handshake.
- SSLv3 is disabled by default with all new SSL policies, as are weak ciphers. This change should not impact upgraded policies where SSLv3 and weaker ciphers were enabled.
- Data Source schema changes have been made with 8.3.386. Applying the new schema to the database is recommended with all upgrades.
- WebAdmin / WSDL API / REST API Access Control Changes. After 3 failed admin login attempts within an hour, further login attempts for the same user will be throttled by 10 seconds. If a login attempt is currently being throttled (in its 10 second delay) and another login attempt for the same user comes in from the same source IP, the new login attempt will fail immediately, regardless of whether the credentials from the new login attempt are correct or not. It may be necessary to wait for an hour or so for the system to clear.
- REST API Access Control Changes. Previously, a super user had access to the REST API regardless of what ACL was configured on the policy. Now, a user must explicitly belong to a group which has READ/WRITE domain access for the domain configured on the REST API Policy, regardless of whether or not that user is a super user.
- WSDL API Access Control Changes. Previously, a super user had access to the WSDL API regardless of what ACL was configured on the policy. Now, a user must explicitly belong to a group which has READ/WRITE domain access for the domain configured on the WSDL API Policy, regardless of whether or not that user is a super user.

- OAuth Policies build in 8.1 being upgraded to 8.3 could be problematic if the original OAuth Policy name has been changed.

### 3.2 Past Important Changes

All previous important changes and known issues, as listed in previous release notes, can be found here:

[Forum Sentry Release Notes](#)

## 4. Feature Enhancements and Bug Fixes

### 4.1 Summary of Enhancements in Release 8.11.70 [12/04/2020]

#### Enhancements and Bug Fixes

- **Access Control Policies**
  - Resolves issue with non-privileged users accessing certain screens

### 4.2 Summary of Enhancements – Recent GA Releases

For release notes for previous branches, please see:

[Forum Sentry Release Notes](#)

### Summary of Enhancements in Release 8.11.68 [10/21/2020]

#### Enhancements and Bug Fixes

- **Data Source Policies / Configuration Storage**
  - Resolves issues displaying Sentry configuration files stored in an Oracle database on the Import screen
- **Logging**
  - Improves logging for certain task list failures
- **PKI / SSL Policies**
  - TLS v1.1 is no longer enabled by default with new SSL Policies
- **Task Lists**
  - Resolves issue with SOAP to MTOM conversion with SOAP 1.2 payloads

### Summary of Enhancements in Release 8.11.61 [04/01/2020]

#### Enhancements and Bug Fixes

- **Logging**
  - Removes extraneous audit log messages related to mapping tasks
  - Resolves issue with retention of log data after midnight rollover when log backup is enabled
- **Task Lists**
  - Resolves performance degradation issue related to the Pattern Match task



- Resolves issue with the Query LDAP task creating new connections to the LDAP server for each query
  - Resolves issue with the Validate Document Structure task related to importing of XSD files
- Resolves issue with the Mapping Table task not displaying / allowing certain characters

## Summary of Enhancements in Release 8.11.55 [02/03/2020]

### Enhancements and Bug Fixes

- **Network Policies**
  - Resolves issue with MQ Listener policies sending root user ID to MQ
- **PKI**
  - Resolves issue with using certain ciphers with HSM hardware appliances
- **System**
  - Resolves issue with CLI enable mode password in command history
  - Resolves issue with IP address syntax validation in CLI commands
- **Task Lists**
  - Resolves issue setting path via mappings within Enrich Message task

## Summary of Enhancements in Release 8.11.52 [12/06/2019]

### Enhancements and Bug Fixes

- **System**
  - Resolves issue with adding certain network routes (invalid IP address format error)
- **Task Lists**
  - Updates the “Validate Bankline” task for processing of ISO8583 and MT198 messages

## Summary of Enhancements in Release 8.11.50 [10/21/2019]

### Enhancements and Bug Fixes

- **Access Control Policies**
  - Resolves issue with renamed WS-Trust policies being removed from associated User ACLs
- **Network Policies**
  - Adds support for processing empty body Solace messages
  - Resolves issues disabling multiple (many) WebLogic network policies simultaneously
  - Resolves issue with proxy policies not being used
- **PKI**
  - Resolves issue with Signer Group key searching
  - Removes 33-character limit with key names
- **System**
  - Resolves issue with memory settings with AMI and Virtual Appliance instances
  - Resolves issue with software instances using elastic licensing
- **Task Lists**
  - Updates the “Validate Bankline” task for processing of ISO8583 and MT198 messages over MQ

- Resolves issue with the Query LDAP task not returning multiple values

## **Summary of Enhancements in Release 8.11.42 [08/29/2019]**

### **Enhancements and Bug Fixes**

- **Task Lists**
  - Adds new “Validate Bankline” task for processing of ISO8583 and MT198 messages over MQ

## **Summary of Enhancements in Release 8.11.39 [08/06/2019]**

### **Enhancements and Bug Fixes**

- **Network Policies**
  - Resolves issue with AWSv4 Signature option on remote policies
  - Resolves issue with AMQP 1.0 listener policies reverting to default port
- **System**
  - Updates the virtual ForumOS upgrade packages to the 556X platform
- **PKI**
  - NEW FEATURE – Adds support for specifying multiple Subject Alternative Names (SANs) when generating keys
- **WebAdmin**
  - Resolves issue with System Name no longer showing in the browser tab
- **Task Lists**
  - Resolves issue with Replace Document task

## **Summary of Enhancements in Release 8.11.34 [06/03/2019]**

### **Enhancements and Bug Fixes**

- **Network Policies**
  - NEW FEATURE – Adds support for AWSv4 Signatures to HTTP remote policies
- **System**
  - Resolves rare issue with failed SSL handshakes after system reboot
  - Resolves NPE shown instead of an Access Denied error message
- **ClamAV**
  - Updates ClamAV engine to v0.100.3
- **WebAdmin**
  - Resolves issue with System Name being truncated in the WebAdmin Banner
  - The Dependency Viewer was erroneously removed from the keys page in the initial 8.11 release, it has been added back
- **Task Lists**
  - Resolves issue with Replace Document task

## **Summary of Enhancements in Release 8.11.23 [04/01/2019]**

### **Enhancements and Bug Fixes**

- **Task List Processing**
  - Adds Dynamic Metadata Schema Package Handling for ZIP Processing
  - Resolves Decryption failures when using the RSA-OAEP Key Wrap Algorithm
- **Virtual Directories**
  - Resolves issue with cleared paths reverting to previous values

## Summary of Enhancements in Release 8.11.19 [02/28/2019]

### Enhancements and Bug Fixes

- **Access Control Policies**
  - NEW FEATURE – Adds support for Host ACL policies for Listener Policies and Virtual Directories
  - ENHANCEMENT – Adds the ability to store user information Identity Attributes to existing session cookies, previously all user attribute information had to be stored when the cookie was generated
  - CHANGED – Removes support for TAM Policies
  - CHANGED – Resolves issues with renamed Access Control policies as show in User ACLs
- **Logging**
  - ENHANCEMENT – Adds logging for the configuration backups performed by Backup Policies
- **PKI / SSL Policies**
  - ENHANCEMENT – Adds support for GCM ciphers with SSL Policies
  - ENHANCEMENT – Adds the ability to sort the Keys page by key/cert name
  - ENHANCEMENT – Adds the ability to search and filter the Keys page by Label
- **Network Policies**
  - NEW FEATURE – Adds ability to create and modify Solace Network Policies
  - NEW FEATURE – Adds ability to pass Message Persistence as a property to RabbitMQ
  - NEW FEATURE – Adds ability to bind to existing RabbitMQ exchanges marked as Durable
  - CHANGED – Removes IP and Host ACLs from JMS network policies
  - CHANGED – The embedded Solace Libraries have been updated to v8.2 (Solace v8.2 server)
  - FIXED – Resolves issue with WebLogic Policies not reconnecting properly after reboot
- **REST API**
  - NEW FEATURE – Adds ability to create and modify Solace Network Policies
  - NEW FEATURE – Adds ability to set Labels on policies, note that any existing labels on updated policy objects are replaced with new label set via REST API call
  - ENHANCEMENT – Adds ability to enable the option "Use virtual host as a regular expression" on virtual directories
- **System / WebAdmin**
  - NEW FEATURE – Adds support for upcoming Elastic Licensing Model, includes a new License Page of the WebAdmin under Settings
  - NEW FEATURE – Adds support for upcoming API Developer Portal product which will call into a new Sentry Portal API to catalog and document Sentry REST Policies
  - NEW FEATURE – The Login Color feature set on the User Preferences is now available as a Color Bar shown at the bottom of all pages of the WebAdmin

- NEW FEATURE – Adds Network Utilities (Ping, Traceroute, Checkport, and DNSLookup) to the WebAdmin
- ENHANCEMENT – Updates to the default Pattern Match Policies (regex patterns)
- ENHANCEMENT – Adds the ability to control validation of existing WebAdmin credentials when importing an FSX config file (default is enabled)
- ENHANCEMENT – Adds support SSL and SMTP user credentials with the Email Setting on the System Settings page
- ENHANCEMENT – Adds support for dragging and dropping Tasks within Task Lists
- ENHANCEMENT – Adds S3 backup option to Backup Policies
  
- CHANGED – Renamed STS Policies to SAML STS/IdP and moved them to the new Identity Providers category
- CHANGED – Renamed OAuth Policies to OAuth IDP and moved them to the new Identity Providers category
- CHANGED – Removes benign SSH log messages seen during reboots and config imports
- CHANGED – Removes support for the deprecated AmberPoint integration
- CHANGED – Removes support for the deprecated HP Select Access integration
- CHANGED – Upgrades the Sentry JDK to version 1.8.0\_192
- CHANGED – Improves WebAdmin pages that show table information
  
- FIXED – Resolves UI issues on Cache Policies page
- FIXED – Resolves issue with ICAP AV page where incorrect error was displayed host value is invalid
- FIXED – Resolves issue with invalid characters allowed in policy Labels
- FIXED – Resolves issue with display of WSDL Policies utilizing SMTP network policies
- FIXED – Resolves issue with SSL connections to DB2 Data Source Policies
- FIXED – Resolves issue with Sentry Auth access control policies missing on the Overview page
- FIXED – Resolves NPE seen with configuration Compare feature
- FIXED – Resolves issues with Bootstrap Import/Export during HSM appliance initialization
  
- **Task List Processing**
  - ENHANCEMENT – Adds support for dragging and dropping Tasks within Task Lists
  - ENHANCEMENT – Improvements to the Zip Contents Processing task
  
  - FIXED – Resolves issue with User Identity & Access Control task becoming inaccessible
  - FIXED – Resolves issue validating wsu:Created Time Stamps
  - FIXED – Resolves issue with Convert SOAP task (SOAP to XML) related to namespaces in SOAP payloads
  - FIXED – Resolves issues with Sentry generated Signatures being non-compliant with Basic Security Profile Spec R5215
  
- **WSDL and Content Policies**
  - FIXED – Resolves issue with display of WSDL Policies utilizing SMTP network policies

## **Summary of Enhancements in Release 8.9.89 [01/28/2019]**

### **Enhancements and Bug Fixes**

- **Network Policies**
  - Resolves issue with WebLogic JMS policies not reconnecting properly after reboot

## **Summary of Enhancements in Release 8.9.86 [01/14/2019]**

### **Enhancements and Bug Fixes**

- **System**
  - Resolves issue with the SNMP Monitoring

- **IDP Processing**
  - Resolves issue with parsing XML attachments after upgrading from older releases to v8.9
- **Task List Processing**
  - Resolves issue with the “proxy client user agent” option when using the Enrich Message task

## **Summary of Enhancements in Release 8.9.80 [11/01/2018]**

### **Enhancements and Bug Fixes**

- **System**
  - Resolves issue with the Sentry config Backup “only changes” option after upgrade

## **Summary of Enhancements in Release 8.9.79 [10/03/2018]**

### **Enhancements and Bug Fixes**

- **ClamAV**
  - Adds option to Enable/Disable blocking of encrypted archives with ClamAV scanning
- **System**
  - Resolves issue with static routes being deleted upon restart

## **Summary of Enhancements in Release 8.9.77 [08/31/2018]**

### **Enhancements and Bug Fixes**

- **Network Policies**
  - Resolves issues with WebLogic JMS throughput performance
  - Resolves issue with SMTP policies related to null MAIL FROM header
- **Task Processing**
  - Resolves issue with Pattern Matching task configured for Attachment XML Element Content
- **Redirect Policies**
  - Adds the ability to overwrite the Redirect URL using a task list on the Redirect Policy
- **Content Policies**
  - Resolves issue with mapped redirect\_uri with OAuth policies
- **PKI**
  - Resolves issue with importing certs on top of existing key pairs
- **System**
  - Resolves issue where NPEs are shown in the system log after reboots
- **REST API**
  - Resolves issue with invalid Boolean inputs not being handled correctly

## **Summary of Enhancements in Release 8.9.73 [07/03/2018]**

### **Enhancements and Bug Fixes**

- **System / WebAdmin**

- Resolves GDM Transfer issue creating listener policy exceptions in the logs
- Resolves issue with SSH log messages during reboot
- **Task Processing**
  - Resolves unhandled exception seen when modifying certain task lists
- **Network Policies**
  - Improves WebLogic recovery mechanisms for certain conditions
  - Resolves WebLogic listener timeouts upon reboot
- **Content Policies**
  - Resolves exception when filter expression is blank

## Summary of Enhancements in Release 8.9.66 [06/12/2018]

### Enhancements and Bug Fixes

- **REST API**
  - Resolves issue enabling/disabling WSDL ports
  - Resolves issues setting published protocol, port, and host fields in WSDL ports
  - Resolves issue with enabling/disabling the “Published a different location...” option in WSDL ports
- **System / WebAdmin**
  - Resolves issue missing dependency issues with GDM Export/Import after upgrading from earlier builds
  - Resolves DNS Reverse Lookup issues with SSL connections
  - Adds more NTP info to Diagnostics file

## Summary of Enhancements in Release 8.9.60 [05/22/2018]

### Enhancements and Bug Fixes

- **REST API**
  - Adds ability to update SSL Termination Policies
  - Adds ability to update SSL Initiation Policies
- **PKI**
  - Adds CRL OCSP caching enhancements
  - Adds CBC processing enhancements
- **Access Control Policies**
  - Resolves issue with TAM policies related to cache timeout value
  - Resolves issue with using FSESSION cookie for WebAdmin access
- **System / WebAdmin**
  - Resolves issue importing FSB during hardware initialization
- **Task List Processing**
  - Enhances User Identity and Access Control task for Validate OAuth SSO Token option to make OpenID Connect UserInfo call optional

## Summary of Enhancements in Release 8.9.51 [04/06/2018]

### Enhancements and Bug Fixes

- **REST API**

- Adds ability to enable a WebLogic listener policy via API call
- Adds ability to set labels for WebLogic remote policies via API call
- Adds ability to create Task List Groups containing multiple Task Lists via API call
- Resolves issue with “Press ctrl + enter to make multiline” option with some browsers
- **PKI**
  - Resolves issue with the Server Name Indication (SNI) with SSL Policies
  - Resolves issue with SSL Initiation when first algorithm presented is not supported
- **Content Policies**
  - Resolves issue with the Streaming Message Type Filter where the full payload was not delivered
- **Access Control Policies**
  - Resolves issue with the “Enable Privileged Access” option of the Custom Authentication policies
- **System / WebAdmin**
  - Adds floating buttons to Network Policies and Documents pages
- **Configuration Management**
  - Resolves issue with exporting SSL Policies to a database

## Summary of Enhancements in Release 8.9.42 [03/01/2018]

### Enhancements and Bug Fixes

- **Access Control Policies**
  - Changes to session cookie persistence related to database connectivity
- **Network Policies**
  - Resolves issue with WebLogic listener policies reconnecting after a WebLogic server restart
  - Resolves issue with displaying remote paths with Group Remote Policies
- **Configuration Management**
  - Adds SSL Policies to list of Agent Override Policies
- **WSDL Policies**
  - Resolves issue with Schema Tightening feature
- **System**
  - Adds ability to use multiple interfaces with Sentry AMI
  - Adds ability to add and remove static routes with Sentry AMI
  - Adds ability to set a custom System Name with Sentry AMI
- **Intrusion Detection and Prevention**
  - Updates ClamAV engine to 0.99.3
- **Monitoring and Logging**
  - Adds linking from WS Monitoring page to System log

## Summary of Enhancements in Release 8.9.28 [12/1/2017]

### Enhancements and Bug Fixes

- **Access Control Policies**

- NEW FEATURE – Adds option to specify admin account password expiry period
- NEW FEATURE – Adds option to force reset of password on next login
- NEW FEATURE – Adds ability to set lock out threshold based on failed login attempts
  
- ENHANCEMENT – Adds option to specify SSL Initiation policy within LDAP policy
- ENHANCEMENT – Adds ability to specify enabled algorithms with Kerberos policies
- ENHANCEMENT – Adds TAM cache to Cache screen
  
- CHANGED – The “form post authentication” option is renamed to “form based authentication” wherever Password Authentication is enabled
  
- FIXED – Resolves TAM issues after import of FSG file
  
- **Intrusion Detection and Prevention (IDP) Rules**
  - NEW FEATURE – Adds new IDP rule that triggers based on response time
  - NEW FEATURE – Enhances SQL Injection pattern match definitions
  
  - ENHANCEMENT – Adds new default IDP Groups for REST and JSON content policies
  
- **Logging**
  - NEW FEATURE – Adds the ability to log the first 5kb of requests when using the Streaming Message Filter
  - NEW FEATURE – Adds the ability to show the System log for a specific policy from the Logging tab of the policy
  - NEW FEATURE – Adds the ability to jump to the WSDL or Content policy from the System log
  - NEW FEATURE – Adds ability to backup logs to database
  - NEW FEATURE – New feature “Compress log records” adds ability to disable/enable the “previous log message repeated...” logging messages
  - NEW FEATURE – Adds Domain based log viewing
  - NEW FEATURE – Adds ability to filter logs by Time
  
  - ENHANCEMENT – Adds logging for additional protocols to the Access Log
  - ENHANCEMENT – Changes “cookie generated...” log message to show truncated cookie value
  - ENHANCEMENT – Enhances logging related to SiteMinder access policies
  - ENHANCEMENT – Improves logging for protocol mixing between HTTP and other network protocols
  - ENHANCEMENT – Adds ability to uniquely identify SFTP clients authenticating with SSH keys
  - ENHANCEMENT – Improves logging for pattern match processing of zip files
  - ENHANCEMENT – Adds SHA1 sums to end of transfer messages with SFTP transactions
  - ENHANCEMENT – Enhances SSL Initiation logging to show which client cert was provided to remote server
  - ENHANCEMENT – Adds refresh button to each log page
  - ENHANCEMENT – Enhances the runDiagnostics command to include the ClamAV logging info
  - ENHANCEMENT – Improvements to GDM import logging
  
  - FIXED – Resolves minor GUI issue with Remote Syslog policies
  
- **Monitoring**
  - ENHANCEMENT – Adds ability to specify hostname for Trap Address in SNMP settings
  - ENHANCEMENT – Enables Google Analytics integration at the Virtual Directory level (previously this was only enabled at the Content Policy level)
  - ENHANCEMENT – Enables Google Analytics integration for STS policies
  - ENHANCEMENT – Improves JMX to provide historical CPU usage data
  - ENHANCEMENT – Adds ability to modify JMX URL
  - ENHANCEMENT – Adds ability to enable/disable specific versions of SNMP within the SNMP Settings
  - ENHANCEMENT – Adds support for multiple SNMP trap destinations
  - ENHANCEMENT – Adds ability to enable logging for SNMP API



- **Network Policies**
  - NEW FEATURE – Adds support for failover for TIBCO Listener Policies
  - NEW FEATURE – Adds ability to set Server Affinity by cookie value with Group Remote policies
  - ENHANCEMENT – Adds support for SSL with SMTP network policies
  - ENHANCEMENT – Adds ability to specify levels within Group Remote policies via weighted random option
  - ENHANCEMENT – Adds support to honor “redelivery limit” with WebLogic network policies
  - ENHANCEMENT – Adds WebLogic version to policy page
  - ENHANCEMENT – Enhances performance with JMS Protocols network policies
  - ENHANCEMENT – Increases JMS message size limit
  - ENHANCEMENT – Adds ability to limit connections with Group Remote policies
  - CHANGED – Changes MQ remote synchronous timeout value from seconds to milliseconds
  - FIXED – Resolves issue with initialization of WebLogic listener policies
  - FIXED – Resolves issue with MQ policies utilizing SSL
  - FIXED – Resolves issue with RabbitMQ policies reconnecting
  - FIXED – Resolves issue with shutting down MQ Listener policies
- **PKI**
  - NEW FEATURE – Adds several OCSP enhancements for FAA SWIM standard
  - NEW FEATURE – Adds ability to import X.509 certificates via SSL Connection
  - ENHANCEMENT – Adds option to set time of day for key expiry alerts
  - ENHANCEMENT – Adds option to receive single cert expiration email listing all expiring certs
  - ENHANCEMENT – Adds option to set specific email address for cert expiration emails (which is different from the default system email address)
  - ENHANCEMENT – Adds option to override OCSP and CDP URLs on certs
  - ENHANCEMENT – Adds dependency viewer to Keys
  - ENHANCEMENT – Adds ability to import additional intermediate and root CA certs into existing keypair
  - ENHANCEMENT – Adds ability to include Default Root CAs when building a new Signer Group
  - CHANGED – Removes second search mechanism on Keys screen
- **REST API**
  - ENHANCEMENT – Adds option to modify passwords with the LDAP policy API operations
  - ENHANCEMENT – Adds standard deviation to statistics available via REST API operation
  - ENHANCEMENT – Adds REST API support for Group remote policies
- **System / WebAdmin**
  - NEW FEATURE – Adds ability to export the Bootstrap (FSB) through the WebAdmin interface (applicable to hardware and virtual appliances only)
  - NEW FEATURE – Adds ability to move policy objects between different administrator Domains
  - ENHANCEMENT – Improvements to the General Info page
  - ENHANCEMENT – Several improvements to the Network Policies page
  - ENHANCEMENT – Several improvements to lengthen text input fields throughout the interface
  - ENHANCEMENT – Adds ability to sort WSDL and Content Policies
  - ENHANCEMENT – Adds ability to search by key word or label on Overview page
  - ENHANCEMENT – Adds ability to jump to selected policy from Overview page
  - ENHANCEMENT – Adds warning to CLI when time-zone is changed
  - ENHANCEMENT – Adds Compare functionality to the configuration Import screen
  - ENHANCEMENT – Adds option within Backup to only run if configuration has changed
  - ENHANCEMENT – Adds ability to rename SSL policies

- ENHANCEMENT – Adds additional Save and Apply buttons (top and bottom) to avoid need for scrolling while building policies
- ENHANCEMENT – Adds remaining time indicator for running Tests
- ENHANCEMENT – Improvements to NTP synchronization process and NTP validate CLI command
- ENHANCEMENT – Improvements to the Dependency Viewer
- ENHANCEMENT – Adds warning to CLI when initializing Security World with less than 4 admin cards
- ENHANCEMENT – Adds user preference for enabling Via Header option by default
- ENHANCEMENT – Prevents Agents from being created if Agent is not in the same Security World as the source instance (applicable to HSM model appliances only)
- ENHANCEMENT – Enhances Catalog Export option to include JMS network policies and Content Policies
- ENHANCEMENT – Adds configuration version info on Import “browse” screen
- ENHANCEMENT – Updates default FSX configuration name when exporting to database
- ENHANCEMENT – Specifies the .fsx or .fsg extension as input file type when importing configurations
- ENHANCEMENT – Adds ability to see negotiated NIC speed in CLI
- ENHANCEMENT – Enhances GDM to allow for optional export of GDM agent information
  
- CHANGED – Updated database schemas for Data Source policies
  
- FIXED – Resolves issue with FSB import during HSM appliance initialization
- FIXED – Resolves issue with CPU usage monitoring with Windows software instances
  
- **Task List Processing**
  - NEW FEATURE – Adds Alert Task
  - NEW FEATURE – Adds ability to read/modify JMS protocol headers with mapping tasks
  - NEW FEATURE – Adds ability to read/modify SMTP protocol headers with mapping tasks
  - NEW FEATURE – Adds new system User Attributes “requesttime” and “responsetime” that can be used with the mapping tasks
  - NEW FEATURE – Adds API Caching task
  
  - ENHANCEMENT – Adds Full Document as source for Log task
  - ENHANCEMENT – Adds XML to SOAP 1.2 option to Convert SOAP task
  - ENHANCEMENT – Adds ability to select multiple canonicalization and digest (hash) algorithms with Verify task
  - ENHANCEMENT – Adds ability to create XML element attributes with Add XML Node task
  - ENHANCEMENT – Adds Base64 Encode (no wrap) operation to Convert Value task
  - ENHANCEMENT – Enhances the Enrich Message task to use the HTTP Method of the original request (previous behavior was to always default to HTTP POST)
  - ENHANCEMENT – Adds ability to propagate the URL query string parameters with the Enrich Message and Remote Routing tasks
  - ENHANCEMENT – Adds ability to ignore missing attributes during mapping tasks without failing
  - ENHANCEMENT – Adds support for importing zips as sample documents
  
  - CHANGE – Renames GUID option in the various mapping tasks to Random Number
  - FIXED – Resolves issue accessing Task List Groups
  
- **WSDL and Content Policies**
  - ENHANCEMENT – Adds option to specify label with new WSDL policy wizard
  - ENHANCEMENT – Improvements to the WSDL Policy Settings page
  - ENHANCEMENT – Adds ability to set remote host header
  - ENHANCEMENT – Improvements to WSDL Libraries (aggregation) when using WSDLs with different versions of SOAP
  - ENHANCEMENT – Updates Remote URLs shown on page to not show the port when default port 80 is used

- ENHANCEMENT – Adds ability to disable WSDL policies from WSDL Policies page

**For release notes for previous branches, please see:**

[Forum Sentry Release Notes](#)