



# FORUM SYSTEMS RELEASE NOTES

FORUM SENTRY VERSION 8.9



**FORUM SYSTEMS**

A Crosscheck Networks Company

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Forum Systems Release Notes, March 22, 2019

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Forum Systems Sentry Release Notes  
Version 8.9.90  
March 22, 2019

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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\\_V8.9\\_Hardware\\_Installation\\_Guide](#)
- [FS\\_Sentry\\_V8.9\\_Software\\_Installation\\_Guide](#)
- [FS\\_Sentry\\_V8.9\\_Quick\\_Start\\_Guide](#)
- [FS\\_Sentry\\_V8.9\\_VMware\\_VirtualOS\\_Installation\\_Guide](#)
- [FS\\_Sentry\\_V8.9\\_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

### 3.1 Version 8.3/8.5/8.7/8.9 Important Changes

#### 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 Historical 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 8.9.90 [03/22/2019]**

#### **Enhancements and Bug Fixes**

- **Task List Processing**
  - Resolves issue with the Convert SOAP task related to namespaces in SOAP payloads converted to XML

### **4.2 Summary of Enhancements – Recent GA Releases**

For historical release notes, please see:

[Forum Sentry Release Notes](#)

#### **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 remote 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 ENHANCEMENT – 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

## Summary of Enhancements in Release 8.7.134 [12/1/2017]

### Enhancements and Bug Fixes

- **System**
  - Resolves licensing issue after upgrade where connection limit is decreased to 1

- **PKI**
  - Resolves issue with keys associated to local users being able to be deleted

## **Summary of Enhancements in Release 8.7.132 [11/14/2017]**

### **Enhancements and Bug Fixes**

- **Content Policies**
  - Adds enhancements to the virtual directory wild card matching
- **System**
  - Resolves issue with WebAdmin banner showing all zeros for IP with the Sentry AMI form factor
  - Resolves issue with static host entries not sticking after reboot with Sentry AMI form factor
  - Resolves issue with DNS servers not listed in CLI “show interfaces” output with Sentry AMI form factor
  - Resolves issue with system memory allocation (prior to initial reboot) with Sentry AMI and virtual appliance form factors
- **REST API**
  - Resolves issue with Virtual URI not using the hostname of the associated listener
- **Network Policies**
  - Resolves GUI issue RabbitMQ listener and remote policies
  - Resolves issue with SSL policies with JMS listener and remote policies
  - Resolves issue with RabbitMQ policies not auto-reconnecting

## **Summary of Enhancements in Release 8.7.128 [10/20/2017]**

### **Enhancements and Bug Fixes**

- **Task Lists Processing**
  - Enhances Pattern Match task to support inline MTOM attachments
  - Resolves issue with case insensitivity option in Identify Document task
- **System**
  - Resolves issue with WebAdmin access after a reboot where previously network policies needed to be disabled to gain access

## **Summary of Enhancements in Release 8.7.125 [10/6/2017]**

### **Enhancements and Bug Fixes**

- **Network Policies**
  - Resolves issue with multiple IP aliases with the 556x hardware model
  - Resolves issue with RabbitMQ policies with “require SSL” option
- **Task Lists Processing**
  - Adds case insensitivity to all Identity Document task comparators
- **System**
  - Resolves upgrade issue with AMI instances
  - Resolves Memory Usage Graph issue with AMI instances
- **REST API**
  - Resolves issue with WSDL retrieval after WSDL Policy is updated via REST API