



FORUM SYSTEMS RELEASE NOTES

FORUM SENTRY VERSION 8.7



FORUM SYSTEMS

A Crosscheck Networks Company

Legal Marks

No portion of this document may be reproduced or copied in any form, or by any means – graphic, electronic, or mechanical, including photocopying, taping, recording, or information retrieval system – without expressed permission from Forum Systems, Inc.

FORUMOS™ Firmware, Forum Systems XMLSec™ WebAdmin, Forum Systems XML Security Appliance™, Forum Sentry™, Forum Presidio™, Forum XWall™, Forum Sentry™ Web Services Gateway, Forum Presidio™ OpenPGP Gateway, Forum FIA Gateway™, Forum XWall Type-PCI™, Forum XWall® Web Services Firewall and Forum XRay™ are trademarks and registered trademarks of Forum Systems, Inc.

All other products are trademarks or registered trademarks of their respective companies.

Copyright © 2002-2017 Forum Systems, Inc. – All Rights Reserved.

75 Second Avenue, Suite 520
Needham, MA 02494
USA

Forum Systems Release Notes, December 1, 2017

D-ASF-SE-015453

Table of Contents

1.	Installation / Upgrade Documentation and Technical Support	4
1.1	Upgrade Instructions.....	4
1.2	Technical Support.....	4
2.	Minimum Requirements/Supported Platforms	5
2.1	Requirements for the FS Sentry Software Instances	5
2.2	Requirements for the FS Sentry Virtual OS.....	5
2.3	Requirements for the FS Sentry AMI.....	5
3.	Known Issues / Important Changes.....	5
3.1	Version 8.3/8.5/8.7 Important Changes	5
3.2	Historical Important Changes	7
4.	Feature Enhancements and Bug Fixes	7
4.1	Summary of Enhancements in Release 8.7.134 [12/1/2017]	7
4.2	Summary of Enhancements – Recent GA Releases	7

Forum Systems Sentry Release Notes
Version 8.7.134
December 1, 2017

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_V8.7_Hardware_Installation_Guide
- FS_Sentry_V8.7_Software_Installation_Guide
- FS_Sentry_V8.7_Quick_Start_Guide
- FS_Sentry_V8.7_VMware_VirtualOS_Installation_Guide
- FS_Sentry_V8.7_Amazon_AMI_Installation_Guide

The Full PDF documentation, including the documents mentioned above, can be found at <https://helpdesk.forumsys.com>.

1.1 Upgrade Instructions

Visit the FS Support Helpdesk site at <https://helpdesk.forumsys.com> or contact Forum Systems Support at support@forumsys.com for documentation and assistance on upgrading to the latest release.

1.2 Technical Support

Online Knowledgebase and Helpdesk

Visit the FS Helpdesk site for documentation, FAQs, best practice guides, and to open Helpdesk tickets: <https://helpdesk.forumsys.com>

Registration is required for full KB access.

Contact Info

Email: 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/Supported Platforms

2.1 Requirements for the FS Sentry Software Instances

- Operating Systems:
 - Windows
 - RedHat, Fedora, CentOS, Ubuntu
 - Solaris x86
- 2 GB RAM
- 1 GHz CPU
- 20 GB Disk Space

Notes: The 32bit software packages are available upon request only. Running multiple instances of Sentry on the same system is not supported.

2.2 Requirements for the FS Sentry Virtual OS

- VMware Workstation 8.x or ESX 5.x or later
- 200GB Hard Drive
- 8GB memory

Notes: If using vSphere vMotion, this mechanism needs to be tested in each environment prior to deploying into production. Please contact Forum Systems Support for more information.

2.3 Requirements for the FS Sentry AMI

- 200GB Hard Drive
- 2 CPUs
- 4GB memory (minimum)

Notes: As of November 2017, the recommended EC2 instance types are:

t2.xlarge 4 CPUS, 16GB RAM
m4.xlarge 4 CPUS, 16GB RAM

The minimum instance type supported is:

t.2 medium 2 CPUS, 4GB RAM

3. Known Issues / Important Changes

3.1 Version 8.3/8.5/8.7 Important Changes

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:

<https://helpdesk.forumsys.com/entries/39401758-Forum-Sentry-Release-Notes>

4. Feature Enhancements and Bug Fixes

4.1 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

4.2 Summary of Enhancements – Recent GA Releases

For historical release notes, please see:

<https://helpdesk.forumsys.com/entries/39401758-Forum-Sentry-Release-Notes>

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

Summary of Enhancements in Release 8.7.118 [7/19/2017]

Enhancements and Bug Fixes

- **Content Policies**
 - Resolves issue with some REST/JSON/HTML content policies showing up under XML policies when accessed through Task List Group associations
- **Task Lists Processing**
 - Resolves issue adding Task Lists to the System (global) Request/Response Task List Groups
- **PKI Policies**
 - Resolves issue with CSR generated by Sentry not having valid Subject Key Identifier
- **Access Control Policies**
 - Enhances option on LDAP policies to halt when user is found, preventing additional queries when the user password is invalid, even when no ACL is associated (now works with Allow All option)

Summary of Enhancements in Release 8.7.115 [7/6/2017]

Enhancements and Bug Fixes

- **Content Policies**

- Adds enhancements to the virtual directory matching
- **CRL Policies**
 - Resolves issue with CRL policy wizard for CDP type that ends in blank page
 - Resolves javascript error on local file CRL policies
 - Resolves issue with CRL cache checkboxes not working
- **Access Control Policies**
 - Adds ability (new check box on LDAP policy) to halt processing if LDAP query returns an error due to an incorrect password

Summary of Enhancements in Release 8.7.112 [6/20/2017]

Enhancements and Bug Fixes

- **Task List Processing**
 - Resolves issues with removal of Task List Groups after upgrade to v8.7
 - Task Lists and Task List Groups can no longer be renamed if they are associated to other policies
- **OAuth**
 - Adds support for OpenID Connect with Sentry OAuth server and client policies
 - The OAuth option under the User Identity and Access Control task has been updated to use the latest endpoints and functionality for built-in third-party OAuth integrations, e.g. Google, including OpenID support, old Sentry policies continue to use the old endpoints, while new policies use the new endpoints and features
 - The OAuth requirement for HTTPS (TLS) is now enforced by default for Sentry OAuth server policies, previously deployed non-compliant Sentry policies are not affected
 - Errors received by Sentry from a remote OAuth server can now be exposed to clients
 - The format used for OAuth codes and tokens generated by the Sentry OAuth server has changed and still conforms to the OAuth specification, implementations that handle tokens in a non-compliant manner will be affected
 - The format of the OAuth state parameter generated by the Sentry OAuth client has changed and still conforms to the OAuth specification, implementations that handle the state parameter in a non-compliant manner will be affected
 - Sentry OAuth client support for third-party OAuth servers that return an obsolete and non-conforming JSON format response is removed, this pertains specifically to an obsolete salesforce.com implementation
 - The Sentry OAuth client now includes the HTTP Accept header when calling the userinfo endpoint, OAuth servers that handle the Accept header in a non-compliant manner could be affected
 - The Sentry OAuth client now enforces the mandatory token_type response parameter value "Bearer", OAuth servers that rely on a non-compliant token_type will be affected
 - The Sentry OAuth server no longer quotes numbers in JSON responses, e.g. the expires_in parameter, OAuth clients with non-compliant JSON parsers will be affected
- **System**
 - Resolves issues with blocked threads caused by LDAPS connectivity issues

Summary of Enhancements in Release 8.7.105 [6/1/2017]

Enhancements and Bug Fixes

- **Task List Processing**
 - Resolves issues and enhances functionality with the Convert JSON task

- **Network Policies**
 - Resolves issue with HTTP PATCH method being changed to POST with HTTPS remote policies
 - Resolves sporadic WebLogic listener policy deadlock issue

Summary of Enhancements in Release 8.7.99 [5/9/2017]

Enhancements and Bug Fixes

- **Access Control Policies**
 - Resolves TAM policy registration issues
- **Network Policies**
 - Resolves issue FTPS Implicit Mode
 - Resolves issues with AMQP Listener policies related to closed_wait connections
- **System**
 - Resolves high CPU usage issue due to Pattern Matching of non-XML files
 - Resolves NTP and Time issues with the 556x model
- **Reporting**
 - Resolves issue with reports page becoming inaccessible after generating certain report types

Summary of Enhancements in Release 8.7.92 [3/29/2017]

Enhancements and Bug Fixes

- **Task List Processing**
 - Resolves schema validation issue related to xs>Date type
- **Content Policies / Virtual Directories**
 - Resolves issue with trailing URL path being dropped when connecting to remote server
- **System**
 - Resolves high CPU usage issue due to Pattern Matching of non-XML files

Summary of Enhancements in Release 8.7.88 [2/22/2017]

Enhancements and Bug Fixes

- **Task List Processing**
 - Improvements to handling of renamed policy objects
 - Resolves schema validation issue related to xs>Date type
 - Resolves issue with Task List generation / execution when the Map Attributes and Headers task utilizes the Full Request URL or Request URL as a source
- **System**
 - Resolves sporadic issue with Catalog Export feature not working
- **WebAdmin**
 - Enhances text field widgets for larger entries
- **REST API**
 - Resolves issue with creation of Content Policy utilizing a renamed Task List Group

- **Network Policies**
 - Resolves issue with Weblogic listener policies when producer is a cluster
 - Resolves issue with low Solace JMS throughput performance
 - Resolves issue with low Weblogic throughput performance

Summary of Enhancements in Release 8.7.66 [12/28/2016]

Enhancements and Bug Fixes

- **Task List Processing**
 - Resolves issue with the Transform Document task failing to process certain documents
 - Resolves issue with Pattern Match task causing "string out of range" error
- **System**
 - Resolves issues Accessing the CLI via SSH with newer OpenSSH clients
- **Logging**
 - Truncates long URLs in Access Log
- **Access Control Policies**
 - Resolves issue with Expire All option on Cache Page

Summary of Enhancements in Release 8.7.43 [11/14/2016]

Enhancements and Bug Fixes

- **Task List Processing**
 - Resolves issue with the Query Database task related to the attribute key prefixes
- **SFTP Policies**
 - Resolves issue with task processing on multiple files being transferred
- **System**
 - Ensures all packet captures and diagnostics files are removed during factory reset
 - Resolves issue with importing FSGs that use hostnames when the target system can't resolve the hostnames
 - Resolves issue with page redirection upon Reboot via WebAdmin
- **WebAdmin Interface**
 - Resolves display issue with Task Lists on Virtual Directories
 - Resolves issue with Tasks and Task Lists not being sorted alphabetically
- **REST API**
 - Resolves issues creating LDAP policies via REST API
 - Resolves issue updating the names of XML Policies via REST API
 - Resolves issues with copying Content Policies via REST API
- **Logging**
 - Resolves issue where changed status code is not reflected in the logs

Summary of Enhancements in Release 8.7.42 [11/2/2016]

Enhancements and Bug Fixes

- **REST API**
 - NEW FEATURE – Adds REST API operations for retrieving system monitoring info (CPU, Memory, etc.)
 - NEW FEATURE – Adds REST API operations for Logging Configuration
 - NEW FEATURE – Adds REST API operation to retrieve product version
 - NEW FEATURE – Adds support for creating WSDL Policies via URL with REST API
 - NEW FEATURE – Adds the ability to upgrade WSDL Policies via REST API
 - NEW FEATURE – Adds ability to import certificates and keys via REST API
 - NEW FEATURE – Adds ability to create and copy SSL Policies via REST API
 - NEW FEATURE – Adds ability to set Task List Groups at the Content Policy level via REST API
 - Resolves issue retrieving Task List Groups with XML Policies via REST API
 - Resolves issue with wrong IDP Group being associated to Content Policies built via REST API
 - Resolves issue with creating a Remote Policy via REST API when the Propagate Credential option is enabled
 - Resolves issue adding virtual directories via REST API
 - Resolves issue deleting Remote Policies via REST API
 - Resolves issue modifying FTP policies via REST API
 - Resolves issues with creating SMTP policies via REST API
 - Resolves issues with copying Content Policies via REST API
 - Resolves issue importing FSG files via REST API

- **Task Processing**
 - NEW FEATURE – Adds new “Generate Password” Task
 - NEW FEATURE – Adds ability to process SMTP attachments
 - NEW FEATURE – Adds support for UCS-2 Encoding
 - NEW FEATURE – Adds ability to customize the date/time format with mapping tasks
 - Resolves issue with Redirect Task where status code wasn’t sticking
 - Resolves issue associating Task Lists instead of Task List Groups on virtual directories
 - Resolves issue with Remote Transport Header Task where the Content-Type could not be removed with responses
 - Resolves issues with Encryption/Decryption with RSAOAEP
 - Improvements to the Convert JSON Task

- **Content Policies**
 - NEW FEATURE – Adds option to set secure cookies without SSL on the network policy
 - Resolves issues with upgrade of Request Filters

- **Network Policies**
 - NEW FEATURE – Adds new Group Listener Policies feature
 - NEW FEATURE – Adds SASL authentication options to AMQP 1.0 network policies
 - Resolves issue with uploading of 0 byte files with SFTP policies
 - Resolves issue with WebLogic policies where threads were not closed correctly

- **On-Board Antivirus Scanning**
 - Updates the ClamAV engine to the latest

- **Logging**
 - Resolves issue with changed status codes not being reflected in the System log
 - Adds REST API command to set / view logging options
 - Adds settings to Catalog Export

- **Access Policies**
 - Resolves issue with Kerberos authentication policies

- **Pattern Matching**

- Resolves issue with Pattern Match expressions not saving
- **WebAdmin / System**
 - Adds Transfer option to Overview Page
 - Resolves issues with date/time and system name in banner
 - Resolves Backup issues with FTP option
 - Resolves issue with Export screen that resulted in blank result page
 - Resolves display issue with STS policies
 - Resolves issue with WebAdmin Domain option
 - Adds Sentry system name to PKI email alerts
 - Adds ability to sort packet captures by date

Summary of Enhancements in Release 8.7.38 [8/18/2016]

Enhancements and Bug Fixes

- **FTP Processing**
 - Resolves issue with task lists not running on GET transfers
 - Resolves issues with task list processing of large files
 - Enhances the logging available for FTP transactions
- **Network Policies**
 - Adds support for dynamic Solace topics

Summary of Enhancements in Release 8.7.35 [6/13/2016]

Enhancements and Bug Fixes

- **Network Policies**
 - Adds SASL Authentication options to AMQP 1.0 remote policies
 - Resolves issues with SFTP processing
- **Redirect Policies**
 - Resolves issue with Redirect Policies not working correctly
 - Resolves issue where Task List Groups could not be applied to Redirect Policies
- **REST API**
 - Resolves issues with creating virtual directories via REST API

Summary of Enhancements in Release 8.7.24 [4/19/2016]

Enhancements and Bug Fixes

- **WebAdmin Interface**
 - Adds System Information Banner to top right of WebAdmin page, showing: system name, version, IP, logged in user, and current date/time of the system
 - Adds color bar option for login page on User Preferences page
- **Network Policies**
 - Adds new AMQP 1.0 listener and remote policies for proxying AMQP 1.0 protocol traffic
 - Adds new Group Listener policies
 - Renames AMQP client policies to RabbitMQ

- **Task List Processing**
 - Adds new Log Transactions Properties task to log out previously hidden details of the transaction, including User Attributes
 - Adds new Generate Password task to create secure passwords
- **Access Control Policies**
 - Adds support for Oracle Access Manager v11g
- **On-Board Antivirus Scanning**
 - Updates the ClamAV engine to the latest release
- **Logging**
 - Improves the logging download options