

Sentinel CLOUD SERVICES™

Release Notes

Version 3.4



Document Revision History

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Contents

About This Document	5
Product Overview	5
Obtaining Support	5
What's New in This Release?	6
Authorization based on Feature Name for On-premise Deployment	6
Capacity Notifications for On-premise Deployment	6
Enhancements in getInfo for On-premise Deployment	7
Run-time API Changes	7
Compatibility Information	8
On-premise Support for Red Hat Enterprise Linux (RHEL) 6.3 and SLES 11	8
Platforms Tested	9
Web Browsers Supported	10
Documentation Resources	11
Online Documentation	12
Documentation Updates	12
Known Issues	13

Sentinel Cloud v.3.4 - Release Notes


About This Document

This document contains information about the latest release of the Sentinel Cloud product, including new features, changes to the product, documentation, and known issues and workarounds.

 These release notes are subject to change. If you are reading the release notes that were installed with the product, SafeNet recommends that you check the release notes available from the Sentinel Community web site to see if any information was added or changed. You can access the latest release notes from this location:
<http://documentation.sentinelcloud.com/RN/ReleaseNotes.pdf>

Product Overview

Sentinel[®] Cloud Services is a feature-based user provisioning, authorization, metering, and management solution for software delivered as service or installed on customer's premises.

 For information about product and its components, refer to the Sentinel Cloud Run-time Guide available in the Manuals folder of the media.

Obtaining Support

You can contact us by using any of the following options:

- **Business Contacts** - To find the nearest office or distributor, use the following URL:
<http://www.safenet-inc.com/contact-us/>
- **Technical Support** - To obtain assistance in using SafeNet products, feel free to contact our Technical Support team:
 - Phone: 800-545-6608 (US toll free), +1-410-931-7520 (International)
 - E-mail: support@safenet-inc.com
 - URL: <http://sentinelcustomer.safenet-inc.com/sentinelsupport/>
- **Downloads** - You can download installers and other updated components using this URL:
www.sentinelcustomer.safenet-inc.com/sentineldownloads/

What's New in This Release?

This section describes the main features and enhancements that are introduced in this release.

Authorization based on Feature Name for On-premise Deployment

There are two identifiers that uniquely identify a feature in Sentinel Cloud - *feature ID* and *feature name*. Feature ID is a numeric value whereas feature name is an alphanumeric string. Earlier authorization was allowed only on feature ID. This release supports authorization based on feature name as well.



This support is available only for on-premise deployments (Java, .NET, and C).

Authorization Criteria

- For cloud applications, you can implement authorization based on only feature ID.
- For on-premise applications, you can implement authorization based on either feature ID or feature name.

Specifying Feature Name

While defining a feature in EMS, ensure that feature name is unique across all namespaces.

Consuming a Feature (Run-time Integration)

You may use feature name instead of feature ID during the integration of your application with Run-time. In this case, the feature name is used to enforce authorization at the feature level. Please note:

- Feature name can be used for integration of your application with Run-time only in case of on-premise deployments.
- Either feature ID or feature name should be used during the integration of your application with Run-time, and it should be done consistently. Using both identifiers interchangeably is not supported.
- Similar to feature ID, feature name must remain same in EMS and in your application.

Run-time Changes

There are changes in Run-time APIs (login, getInfo, and transfer) for supporting authorization based on feature name. See section [Run-time API Changes](#) for details.

Capacity Notifications for On-premise Deployment

The previous release introduced the capability to capture capacity records in Run-time, send capacity records to Cloud Connect, and generate peak capacity reports by using EMS Web services.

This release extends this capability to support e-mail notifications and implement application logic based on capacity.



This feature is available only for on-premise deployments.

New Attribute in Postpaid License Models

Capacity Attribute is the new attribute that has been added to postpaid license models. Capacity Attribute can be used as the limit beyond which you may want to monitor the feature usage. You need to set this attribute to enable the following:

- Processing of capacity values recorded by an application for postpaid features
- Send e-mail notifications when your customers approach or reach a specified limit.

Capacity-based E-mail Notifications in EMS

You can configure e-mail notifications in EMS that are sent when the peak capacity of a feature approaches or reaches the limit set in Capacity Attribute. The related notification rules available in EMS are: *Capacity Peak Crossed* and *Capacity Peak Reaching*.

See *EMS User's Guide* for details of notification rules.

Using getInfo to Define Capacity-based Application Logic

You can use the getInfo Run-time API to query the capacity information and define application logic based on it. For example, you can configure your application to show warning messages to user on exceeding the peak capacity limit set in *Capacity Attribute*. The getInfo API returns *Capacity Attribute* and *peak capacity* of given feature(s) in the last N hours.

The duration (in hours) of retrieving peak capacity information is specified as an optional parameter of the getInfo API. The syntax of the getInfo API has been changed to provide the optional parameters, such as capacity interval. Refer to *Run-time Guide* for details.

Enhancements in getInfo for On-premise Deployment

Earlier, the getInfo request was always served from local license stores for on-premise deployments. In this release, the getInfo API has been enhanced to retrieve the following details from Cloud Connect:

- Details of all the available features for on-premise feature level usage
- Information related to peak capacity

For information about how getInfo request is served, see *Run-time Guide*.

Run-time API Changes

A summary of changes in Run-time APIs is given below. For details, refer to *Run-time Guide*.

login

- While calling the login API, keep in mind the following:
 - For cloud applications, provide only feature ID in the FeatureNode object. The feature name, if provided, is ignored.
 - For on-premise applications, provide either feature ID or feature name in FeatureNode object. If both are specified, an error is returned.
- There is no change in API signature (Java, .NET, and C).

transfer

- While calling the transfer API for on-premise applications, provide either feature ID or feature name in the FeatureNode object. If both are specified, an error is returned.
- There is no change in API signature for Java and .NET.

For C interface, the signature of the transfer API is same, but its `scr_Features_t` structure now accepts a FeatureNode object rather than the feature ID.

getInfo

- While calling the getInfo API for on-premise applications, provide either feature ID or feature name in the Scope class/structure. If both are specified, an error is returned.
- The Scope class/structure now accepts a FeatureNode object as parameter instead of feature ID.
- This API has also been enhanced to retrieve peak capacity information. It takes a new parameter, `GetInfoOptionalParam`, which contains optional parameters to be passed with the getInfo call.

Compatibility Information

Run-time Compatibility

- Cloud Run-time 3.4 will only work with Cloud Connect 3.4 and later versions.
- Cloud Run-time 3.4 is not backward compatible with its earlier versions because there are changes at API and class level. So, you will need to modify application source code if you want to upgrade an application created with Cloud Run-time v.3.3 to v.3.4.

Cloud Connect Compatibility

- Cloud Connect 3.4 is backward compatible with earlier Cloud Run-time versions.

On-premise Support for Red Hat Enterprise Linux (RHEL) 6.3 and SLES 11

This release supports on-premise deployments on Red Hat Enterprise Linux (RHEL) 6.3 and SLES 11. For details about installation on Linux, refer to *Installation Guide*.

Platforms Tested

Sentinel Cloud Run-time has been tested on the following platforms:

Run-time	Run-time Interface	Platforms Tested	Run-time Environment	Web Server
Cloud	Java	Windows <ul style="list-style-type: none"> ▪ Windows 7 ▪ Windows Server 2008 ▪ Windows XP Linux <ul style="list-style-type: none"> ▪ Ubuntu 12.04 ▪ CentOS 5.4 ▪ Red Hat Enterprise Linux (RHEL) 6.3 	JRE 6	Tomcat 7
	.NET	<ul style="list-style-type: none"> ▪ Windows 7 ▪ Windows Server 2008 ▪ Windows XP 	.NET Framework 2.0 and 3.5	IIS 6.0 and 7.0
	C	Windows (32-bit and 64-bit) <ul style="list-style-type: none"> ▪ Windows 7 ▪ Windows Server 2008 ▪ Windows XP Linux (32-bit and 64-bit) <ul style="list-style-type: none"> ▪ Ubuntu 12.04 ▪ CentOS 5.4 ▪ Red Hat Enterprise Linux (RHEL) 6.3 	-	-

Run-time	Run-time Interface	Platforms Tested	Run-time Environment	Web Server
On-premise	Java	Windows <ul style="list-style-type: none"> ▪ Windows 7 ▪ Windows Server 2008 ▪ Windows XP Linux <ul style="list-style-type: none"> ▪ Red Hat Enterprise Linux (RHEL) 6.3 ▪ SLES 11 	JRE 6	Tomcat 7
	.NET	<ul style="list-style-type: none"> ▪ Windows 7 ▪ Windows Server 2008 ▪ Windows XP 	.NET Framework 2.0 and 3.5	IIS 6.0 and 7.0
	C (32-bit and 64-bit)	Windows (32-bit and 64-bit) <ul style="list-style-type: none"> ▪ Windows 7 ▪ Windows Server 2008 ▪ Windows XP Linux (32-bit and 64-bit) <ul style="list-style-type: none"> ▪ Red Hat Enterprise Linux (RHEL) 6.3 ▪ SLES 11 	-	-

Web Browsers Supported

Sentinel Cloud EMS GUI is best viewed with the following Web browsers:

Browser	Version
Internet Explorer	8.x, 9.x
Mozilla FireFox	20.x
Google Chrome	26.0

Documentation Resources

Document	Description	Who Should Read It?
EMS User's Guide	Reference for using the Sentinel EMS Web portal for Sentinel Cloud Services	Product Managers and software providers responsible for delivering and deploying the products
EMS Web Services Guide	Reference for using the Sentinel EMS Web services	Developers responsible for integrating Sentinel Cloud EMS with backend systems
EMS Web Services Cheatsheet	A quick reference document that summarizes all the available EMS Web services	Developers responsible for integrating Sentinel Cloud EMS with backend systems
Cloud Run-time Guide	Sentinel Cloud Run-time API reference (Java, .NET, and C)	Developers responsible for integrating APIs in the licensed application
Cloud Run-time Java Demo Application ReadMe	Explains how to use the <i>Sentinel Cloud Services</i> Demo Application	Developers and Product Managers
Cloud Run-time .NET Reference Application ReadMe	Sample for using the Cloud Runtime APIs written in .NET	Developers responsible for integrating APIs in .NET applications
Cloud Run-time C Reference Application ReadMe	Sample for using the Cloud Runtime APIs written in C	Developers responsible for integrating APIs in C applications
Quick Start Guide	Document to help you quickly start with Sentinel Cloud	Developers and Project Managers
Acknowledgments	Acknowledgements of the third-party software used in the product	General document
Cloud Installation Guide	Contains installation information	Administrators responsible for installing Sentinel Cloud Services
Cloud Migration Guide	Describes minimum changes required to migrate a client application from one version to a later version	Developers and Project Managers
Cloud Connect Web Services Guide	Reference for using the Sentinel Cloud Connect Web services	Developers responsible for integrating Cloud Connect Web services in the licensed application
Cloud Connect Web Services - Python Sample ReadMe	Sample for integrating Sentinel Cloud Connect Web services in Python application	Developers responsible for integrating Cloud Connect Web services

Online Documentation

Following are the Web locations of the Sentinel Cloud documents that are available online:

Document	URL
EMS User's Guide	http://documentation.sentinelcloud.com/EUG/
EMS Web Services Guide	http://documentation.sentinelcloud.com/WSG/
EMS Web Services Cheatsheet	http://documentation.sentinelcloud.com/WSG/Cheatsheet.htm
Cloud Run-time Guide	http://documentation.sentinelcloud.com/CRTG/
Cloud Run-time Java Demo Application ReadMe	http://documentation.sentinelcloud.com/qsg/Default_Left.htm#CSHID=JavaDemoAppReadme.htm StartTopic=JavaDemoAppReadme.htm SkinName=SafeNet_Orange
Cloud Run-time .NET Reference Application ReadMe	http://documentation.sentinelcloud.com/qsg/Default_Left.htm#CSHID=DotNetReference.htm StartTopic=DotNetReference.htm SkinName=SafeNet_Orange
Cloud Run-time C Reference Application ReadMe	http://documentation.sentinelcloud.com/qsg/Default_Left.htm#CSHID=C_Ref.htm StartTopic=C_Ref.htm SkinName=SafeNet_Orange
Cloud Connect Web Services Guide	http://documentation.sentinelcloud.com/CWSG/
Quick Start Guide	http://documentation.sentinelcloud.com/QSG/
Release Notes	http://documentation.sentinelcloud.com/RN/ReleaseNotes.pdf

Documentation Updates

The Sentinel Cloud documents installed with product are subject to change. We recommend that you check the online documents (listed in the table above) to access the most updated version.

Known Issues

The known issues in Sentinel Cloud v.3.4 that are likely to have the most significant impact on users are listed below.

Billing Related
The billing data provided in the customer login is the partially processed data. It is used to produce the final bill, and should not be considered as the final bill.
Any exception encountered while retrieving billing details is logged in <i>Billing.xml</i> file, but not displayed on Sentinel Cloud EMS GUI.
Sentinel Cloud EMS Related
On EMS Home Page, the color coding of legends shown for The Top 5 Customers pie chart appear ambiguous.
The Customers and Entitlements pages display a list of associated contacts under the Contact Association group. When you click a contact and click the Delete button in the pop-up that appears, the contact is not deleted.
The License Subscription Expired rule does not trigger notification if a license is not activated in its lifecycle and it expires.
If products are added to a reconfigured entitlement, the information related to added products is not available in generated reports.
For User ID , the following special characters are blocked from EMS but are allowed from Runtime: <, >, ", ^, &, % . As a result, the User IDs containing these characters are not displayed on EMS screens.
The notification e-mail is not sent if feature name or product name contains the \$ character.
On the Notification Rule page, you can use the Reset button to clear parameter values only if you have not clicked the Submit button even once.
Installer Related
When you upgrade to a higher version of Sentinel Cloud Services, the installer uninstalls the SDK from the custom location and performs the installation at the default location. We recommend uninstalling the earlier versions before installing a higher version of Sentinel Cloud Services, and manually removing the files that are not removed during uninstallation.

