



# Red Hat OpenStack Platform 16.2

## Service Telemetry Framework Release Notes

### 1.3

Release details for Service Telemetry Framework 1.3



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Release details for Service Telemetry Framework 1.3

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## Abstract

This document outlines the major features, enhancements, and known issues in this release of Service Telemetry Framework.

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## MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see [our CTO Chris Wright's message](#).

# CHAPTER 1. INTRODUCTION TO SERVICE TELEMETRY FRAMEWORK RELEASE

This release of Service Telemetry Framework (STF) provides new features and resolved issues specific to STF.

STF uses components from other Red Hat products. For specific information pertaining to the support of these components, see

<https://access.redhat.com/site/support/policy/updates/openstack/platform/> and <https://access.redhat.com/support/policy/updates/openshift/>.

STF 1.3 is compatible with OpenShift Container Platform (OCP) version 4.6 as the deployment platform.

## 1.1. PRODUCT SUPPORT

The Red Hat Customer Portal offers resources to guide you through the installation and configuration of Service Telemetry Framework. The following types of documentation are available through the Customer Portal:

- Product documentation
- Knowledge base articles and solutions
- Technical briefs
- Support case management

You can access the Customer Portal at <https://access.redhat.com/>.



## CHAPTER 2. TOP NEW FEATURES

The following features are new to Service Telemetry Framework (STF):

### **Smart Gateway Operator interface**

The use of legacy Smart Gateway has been dropped from future versions of STF and a new pluggable architecture has been implemented in the sg-core application. As an administrator, you can use the Smart Gateway Operator to make better use of the sg-core through a more flexible API interface.

## CHAPTER 3. SERVICE TELEMETRY FRAMEWORK RELEASE INFORMATION

Notes for updates released during the supported lifecycle of this Service Telemetry Framework (STF) release appear in the advisory text associated with each update.

### 3.1. SERVICE TELEMETRY FRAMEWORK 1.3

These release notes highlight technology preview items, recommended practices, known issues, and deprecated functionality to be taken into consideration when you install this release of Service Telemetry Framework (STF).



#### NOTE

Service Telemetry Framework version 1.1 support ended on June 15, 2021.

This release includes the following advisories:

#### [RHEA-2021:2424-01](#)

Release of components for Service Telemetry Framework - RPMs

#### [RHEA-2021:2425-02](#)

Release of components for Service Telemetry Framework - Container Images

#### [RHBA-2021:2478-02](#)

Release of components for Service Telemetry Framework - Container Images

#### [RHBA-2021:2477-02](#)

Release of common components for Service Telemetry Framework - Container Images

#### [RHBA-2021:2442](#)

Service Telemetry Framework version 1.1 support ended on June 15, 2021

#### 3.1.1. Enhancements

This release of STF features the following enhancements:

##### [BZ#1959594](#)

With this update, the Smart Gateway Operator interface can support additional functionality in sg-core. As an administrator, you can use the Smart Gateway Operator to make better use of the sg-core through a more flexible API interface.

#### 3.1.2. Release notes

This section outlines important details about the release, including recommended practices and notable changes to STF. You must take this information into account to ensure the best possible outcomes for your installation.

##### [BZ#1960025](#)

STF 1.3 does not support the `infra.watch/v1alpha1` Custom Resource Definition and now supports `infra.watch/v1beta1`.

In STF 1.2, the `infra.watch/v1alpha1` interface was deprecated and the Service Telemetry Operator supported a translation to `infra.watch/v1beta1` dynamically. As of STF 1.3, this support has been

removed and only `infra.watch/v1beta1` is supported. Ensure that you migrate to `infra.watch/v1beta1` before you upgrade from STF 1.2 to STF 1.3.

#### BZ#1952188

Ceilometer metrics are distributed internally within Red Hat OpenStack Platform (RHOSP) via the RabbitMQ bus, collected via the ceilometer agents, and transported to STF for storage in Prometheus via `sg-core`.

Before this release, if you set up the RHOSP environment in high-availability mode, each controller collected and sent metrics with a publisher label containing the controller name. As a result, ceilometer metrics that looked broken were written to Prometheus.

This update drops the publisher label on ceilometer metrics to collapse the ceilometer metrics to a single set of labels. As a result, metrics from ceilometer no longer appear to be broken up across multiple publishers.

Previous queries that relied on the publisher label might not work. You can override the default `ServiceMonitor` object with the **`servicemonitorManifest`** parameter in the `ServiceTelemetry` object.

#### BZ#1954722

You need the **`caCertFile`** parameter in RHOSP13 to allow connection from RHOSP to STF. To configure RHOSP13 to support the **`caCertFile`** parameter in THT environment files, see [Configuring Red Hat OpenStack Platform overcloud for Service Telemetry Framework](#) in the *Service Telemetry Framework 1.3* guide.

### 3.1.3. Deprecated functionality

These features have been deprecated:

#### BZ#1965464

With this release, delivery of alerts through SNMP using `prometheus-webhook-snmp` is deprecated.

### 3.1.4. Removed Functionality

The following functionality has been removed from this release of STF:

#### BZ#1983662

Previously, the use of `EnableSTF` was part of the OpenStack configuration for STF. In this release, configuration of STF is now done through the base configuration, and use of `EnableSTF` has been removed. For more information about the base configuration, see [https://access.redhat.com/documentation/en-us/red\\_hat\\_openstack\\_platform/16.1/html-single/service\\_telemetry\\_framework\\_1.3/index#creating-the-base-configuration-for-stf\\_assembly-completing-the-stf-configuration](https://access.redhat.com/documentation/en-us/red_hat_openstack_platform/16.1/html-single/service_telemetry_framework_1.3/index#creating-the-base-configuration-for-stf_assembly-completing-the-stf-configuration)

## 3.2. SERVICE TELEMETRY FRAMEWORK 1.3.1 MAINTENANCE RELEASE - JULY 19, 2021

These release notes highlight bug fixes and enhancements to be taken into consideration when you install this release of Service Telemetry Framework (STF).

This release includes the following advisories:

#### RHBA-2021:2771

Release of components for Service Telemetry Framework v1.3.1

### 3.2.1. Bug fixes

These bugs were fixed in this release of STF:

#### BZ#1979637

Before this update, Ceilometer metrics exposed by sg-core resulted in virtual machine instances having their ID exposed as a label value **host**. As a result, using the label **host** overloaded the drop-down menu in the dashboards with virtual machine instances in addition to the node instances. With this update, Ceilometer virtual machine instance metrics use the **vm\_instance** label to expose the instance ID of a virtual machine so that virtual machine instance IDs are not listed in the STF dashboard node instance drop-down menu.

#### BZ#1976981

Before this update, port 5672 was not enabled for AMQ Interconnect when deploying an Interconnect cluster with Service Telemetry Framework (STF) 1.3. As a result, administrators were not able to query with qdstat for connections to validate their deployment. With this update, port 5672 was added to the list of listeners in the Interconnect object that is managed by the AMQ Interconnect Operator. Administrators can now use qdstat to validate and debug AMQ Interconnect.

#### BZ#1979378

Before this release, documentation referred to **clouds: {}** to provide an empty object to result in no Smart Gateways being deployed. As a result, Smart Gateways did not clear and the following error was seen in the logs of the Service Telemetry Operator:

"Invalid data passed to *loop*, it requires a list, got this instead: {}. Hint: If you passed a list/dict of just one element, try adding wantlist=True to your lookup invocation or use q/query instead of lookup."

Documentation now states that **clouds: []** is the correct format, resulting in an empty list being passed rather than an empty object. As a result, no Smart Gateways are defined.

### 3.2.2. Enhancements

This release of STF features the following enhancements:

#### BZ#1975792

With this update, you can now install Service Telemetry Framework (STF) 1.3 on Red Hat OpenShift Container Platform (OCP) 4.6 and 4.7.

### 3.2.3. Release notes

This section outlines important details about the release, including recommended practices and notable changes to Service Telemetry Framework (STF). You must take this information into account to ensure the best possible outcomes for your deployment.

#### BZ#1940181

The dashboards for STF 1.3 have been reworked to be synchronized with the data provided by the new base configuration for OSP. The location of these are different from that of STF 1.2 and are noted in the documentation. The dashboards for Cloud View and Infrastructure View are designed for a single cloud environment.

## 3.3. SERVICE TELEMETRY FRAMEWORK 1.3.2 MAINTENANCE RELEASE - OCTOBER 5, 2021

These release notes highlight bug fixes and enhancements to be taken into consideration when you install this release of Service Telemetry Framework (STF).

This release includes the following advisory:

### [RHBA-2021:3721](#)

Release of components for Service Telemetry Framework 1.3.2 - Container Images

### 3.3.1. Bug fixes

These bugs were fixed in this release of STF:

#### [BZ#1979637](#)

The documentation provides a procedure in which you can verify that the version of Grafana deployed by the Grafana Operator is compatible with the latest dashboard updates. Administrators can now use the new **graphing.grafana.baseImage** parameter to run Grafana 8.1.0 or later, which is required by the latest example dashboards.

#### [BZ#2008338](#)

The configuration overview of the **clouds** parameter for the ServiceTelemetry manifest was previously missing the configuration example for Sensubility, resulting in the corresponding Smart Gateway not being deployed. The documentation has been updated to reflect the configuration for Sensubility support.

### 3.3.2. Enhancements

This release of STF features the following enhancements:

#### [BZ#1979642](#)

The dashboards referred to in the documentation are now compatible with multiple clouds, making visualization of individual clouds easier for administrators.

#### [BZ#1958934](#)

The virtual machine view dashboard has been updated to work with STF 1.3. Previously, the **vm-view.json** file in the **infrawatch/dashboard** repository did not work with STF 1.3. It was not possible to install the dashboard as a GrafanaDashboard object for management by the Grafana Operator.

### 3.3.3. Release notes

This section outlines important details about the release, including recommended practices and notable changes to Service Telemetry Framework (STF). You must take this information into account to ensure the best possible outcomes for your deployment.

#### [BZ#1989660](#)

The latest release of STF 1.3 has been verified to work with RHOSP 16.2.1.

### 3.3.4. Deprecated functionality

The items in this section are either no longer supported or will no longer be supported in a future release:

#### [BZ#2002711](#)

Use of the Elastic Cloud on Kubernetes (ECK) Operator was previously installed from the OperatorHub.io CatalogSource. In Service Telemetry Framework v1.3.2 the documentation was updated to use the ECK Operator from the Certified Operators CatalogSource.

#### **BZ#2002714**

Use of the **redhat-operators-stf** CatalogSource has been removed from the documentation of Service Telemetry Framework v1.3. It was used to install a copy of the AMQ Certificate Manager Operator as a workaround to the unavailable Operator in OpenShift Container Platform versions beyond v4.5.

The AMQ Certificate Operator is again available in the **redhat-operators** CatalogSource from OpenShift Container Platform v4.7, meaning the use of the additional CatalogSource is no longer necessary.

To migrate to the built in AMQ Certificate Manager v1.0.1, complete the following steps:

1. Uninstall the existing AMQ Certificate Manager provided by the **redhat-operators-stf** CatalogSource.
2. Subscribe to the new AMQ Certificate Manager provided by the **redhat-operators** CatalogSource that is documented in *Service Telemetry Framework v1.3*.
3. Remove the **redhat-operators-stf** CatalogSource.

### **3.3.5. Removed functionality**

The following functionality has been removed from this release of STF:

#### **BZ#2004142**

Documentation about the Node Tuning Operator has been removed from the documentation as there are no action items required by an administrator. OpenShift Container Platform already correctly deals with node tuning when scheduling Elasticsearch as defined by Service Telemetry Operator.

## **3.4. SERVICE TELEMETRY FRAMEWORK 1.3.3 MAINTENANCE RELEASE - NOVEMBER 10, 2021**

These release notes highlight bug fixes and enhancements to be taken into consideration when you install this release of Service Telemetry Framework (STF).

This release includes the following advisory:

#### **RHBA-2021:4582**

Release of components for Service Telemetry Framework 1.3.3 - Container Images

### **3.4.1. Bug fixes**

These bugs were fixed in this release of STF:

#### **BZ#2011603**

With this update, the **servicetelemetry.infra.watch** CRD has a validation that limits **clouds[].name** to 10 characters and alphanumeric to avoid issues with extra characters in the cloud name and names being too long.

#### **BZ#1959166**

Previously, when you installed STF without having Elastic Cloud on Kubernetes (ECK) Operator installed, the following error message was returned: "Failed to find exact match for elasticsearch.k8s.elastic.co/v1beta1.Elasticsearch". The error was as a result of Service Telemetry Operator trying to look up information from a non-existent API interface.

With this update, the Service Telemetry Operator verifies that the API exists before it attempts to make requests to the API interface that is provided by ECK.

#### **BZ#1875854**

Before this update, the query for high CPU usage in the alerts.yaml was invalid. Additionally, the rhos-dashboard showed pending alerts in the global alerts panels, resulting in false positives, meaning that high CPU warning and critical alarms could trigger falsely or not trigger when high CPU usage was detected.

With this release, the high CPU alert query uses the new recording rules by calculating the sum of CPU usage grouped by host and dividing those values by the number of cores for that host, resulting in a CPU usage between 0 and 100%.

### **3.4.2. Release notes**

This section outlines important details about the release, including recommended practices and notable changes to Service Telemetry Framework (STF). You must take this information into account to ensure the best possible outcomes for your deployment.

#### **BZ#2013268**

STF 1.3.3 now supports OpenShift Container Platform 4.8 as an installation platform.