

Quest® InTrust 11.3.2

# Integration into SIEM Solutions Through Event Forwarding



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### Legend

 **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

 **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

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# Integration into SIEM Solutions Through Syslog Forwarding

Events that arrive in a repository can be passed on to SIEM systems that know how to receive, store and index them for analysis. This is known as audit data forwarding and is configured on a per-repository basis.

- [Turning Forwarding On and Off](#)
- [Data Conversion Formats](#)
- [Recommended Event Forwarding Scenario](#)
- [Example: Set Up Forwarding to SecureWorks](#)
- [Example: Set Up Forwarding to Splunk](#)

## Turning Forwarding On and Off

Forwarding has a dedicated group of settings in the properties of a repository. Use the **Enable forwarding** option to turn it on and off for the repository you are working with.

From the moment you turn forwarding on, events that arrive in the repository during real-time collection will be forwarded. Events that were already in the repository will be ignored.

**i** | **NOTE:** Forwarding does not work for events that are gathered to repositories by InTrust gathering jobs as part of the workflow described in the [Auditing Guide](#).

For details about repository options, see [Managing Repositories](#).

**!** | **CAUTION:** Do not forward events to an InTrust server that listens for Syslog messages, because the messages will arrive with incorrect timestamps.

The following options control how forwarding is performed:

- **Destination host**  
The host that listens for forwarded messages.
- **Port**  
The port that the destination host uses for listening.
- **Message encoding**  
By default, Western European is used.

- **Message filtering**

If you need only a subset of the repository data, you can specify one of the available filters. These filters are really Repository Viewer searches. If you want to add or modify a filter, open Repository Viewer and make your changes. Your filter will be available the next time you configure forwarding. For details about working with searches, see [Searching for Events in Repository Viewer](#). Using searches as filters has some important implications; see [Filtering Specifics](#) below for details.

- **Message format**

The format in which data is expected on the receiving end; see [Data Conversion Formats](#) for details. This setting has no effect on data that arrives from Syslog devices; such data is forwarded unchanged. Only collected Windows event log data is converted to the specified format.

## Filtering Specifics

- Repository Viewer searches support grouping and sorting, but these settings have no meaning for message forwarding and will be ignored.
- If you edit a search that is already used as a filter, your changes will affect the filtering. Consider making dedicated searches for filtering purposes.
- If a filtering search is deleted, filtering is turned off for the repository that used it.
- If you use predefined searches as a filters, note that changes made to them in Repository Viewer are not applied.
- Be careful when specifying the time range for the searches that will be used as filters. If you set the wrong type of range, this can effectively turn off message forwarding. For example, if you set a time range based on the “Last” keyword, no matches will ever occur. You should not specify a time range for a filtering search.

## Data Conversion Formats

SIEM appliances expect data in a specific format. For forwarding to be useful, InTrust must convert the contents of the repository to that format before passing them on.

The following output formats are supported:

- Dell SecureWorks  
For details, see [Example: Set Up Forwarding to SecureWorks](#).
- IBM QRadar
- Tibco LogLogic
- Splunk (JSON)  
For details, see [Example: Set Up Forwarding to Splunk](#).

You can add support for other formats by providing custom format definition scripts.

To specify a different format, select the **Custom Format** item in the **Message format** drop-down list, click **Edit**, and use the editor that opens.

Note the following specifics:

1. Your custom formatting code must implement the **Transform()** function. This function will be used as the entry point by the event forwarding engine. It takes an event object and its sequential number as

arguments, and it returns a string.

2. The custom message format will be applied only to the repository you are working with, and will not be replicated to other repositories.
3. Switching from the custom format to the predefined format resets the custom format script to its default state. Back up your custom format script in a file.

For more details about formatting custom messages, study the default formatting script provided in the built-in editor. This is a valid script that replicates the functionality of the predefined SecureWorks forwarding component in InTrust. To change the message format, either edit the **Format** variable or write your own custom script using this default script as an example. In the **Format** string, event field names enclosed in percent signs (%) will be replaced by their values.

For details about event objects and the InTrust object model in general, see [Customization Kit](#).

## Recommended Event Forwarding Scenario

For best results, consider using a dedicated repository for event forwarding. You can create the repository in advance in the Storage view of InTrust Deployment Manager. Alternatively, you can select to create a new repository when you create your new forwarding-oriented collection in the Collections view.

To make sure your repository doesn't waste disk space, set up daily cleanup for it. Cleanup is configured in the repository properties in the Storage view.

## Example: Set Up Forwarding to SecureWorks

Suppose SecureWorks is already in place in your environment and is used for tracking the operation of Syslog-enabled systems. For Windows network auditing, you use InTrust and Change Auditor. You would like to extend the scope of your SecureWorks coverage to include suspicious user activity in the Windows network.

### Make Sure You Have the Data

To capture suspicious administrative activity, you would need to look at the following:

- User session events provided by InTrust  
These events provide a deep insight into user logons, logoffs and sessions.
- Change Auditor for Active Directory log  
This log provides fine-grained information about all changes to Active Directory.

Confirm that these data sources are used by the collections that work with your repository.

### Configure the Forwarding

You need to enable forwarding for the repository that you have chosen for this purpose. Go to the properties of the repository and, on the **Forwarding** tab, select **Enable forwarding** and specify where the messages should

go.

After you have completed the collection setup, confirm that the forwarding is really working. Wait a few minutes for the new settings to take effect. After that, log on to some of the computers that InTrust is watching, and try to make Active Directory changes. Then check on the SecureWorks appliance whether it has registered your activity.

## Example: Set Up Forwarding to Splunk

Suppose Splunk is deployed in your environment for analyzing Windows security events. You would like to use InTrust as the forwarding mechanism. The data you need goes to a repository that is set aside specifically for forwarding purposes. The repository has only Windows Security log data.

### Get Splunk Ready

**! CAUTION:** For the sake of speed, the Splunk forwarding component of InTrust uses the UDP protocol, so successful delivery of forwarded data is not guaranteed.

You need to perform two procedures in Splunk (and maybe restart it), as described below.

#### Step 1: Define a Source Type

To make sure that event fields are recognized correctly, make a specialized source type for incoming InTrust data. If you want to use the Splunk UI for this, configure the options as follows (the last three options are set up in the **Advanced** group):

Option	Value
Category	Structured
Indexed extractions	json
NO_BINARY_CHECK	true
SHOULD_LINEMERGE	false
pulldown_type	1

If you want to skip configuration through the Splunk UI, include the following snippet in the `<Splunk_installation_folder>\etc\apps\search\local\props.conf` file:

```
[InTrust]
DATETIME_CONFIG =
INDEXED_EXTRactions = json
NO_BINARY_CHECK = true
SHOULD_LINEMERGE = false
category = Structured
pulldown_type = 1
```

## Step 2: Configure a Network Input

In Splunk, add a new UDP network input and apply your new source type to it. Configure the network input as necessary, but make sure you set up the following:

1. It must use the UDP protocol.
2. Specify the source type you defined earlier; in this example, it is **InTrust**.

Make a note of the port number where Splunk will listen for forwarded UDP traffic. You are going to need it for InTrust forwarding configuration.

If you want to skip configuration through the Splunk UI, include the following snippet in the `<Splunk_installation_folder>\etc\apps\search\local\inputs.conf` file:

```
[udp://514]
connection_host = ip
index = main
sourcetype = InTrust
```

For details about the various ways that you can add network inputs in Splunk, see the "Get data from TCP and UDP ports" article in the documentation of your version of Splunk.

## Step 3 (Conditional): Restart Splunk

If you made your changes by editing configuration files, restart Splunk to apply them; use either the **splunk stop** and **splunk start** commands or the **Restart** action in the Splunk UI. For details, see the Splunk documentation.

## Configure the Forwarding

To send data to Splunk, enable forwarding for the repository with the necessary data. Go to the properties of the repository and, on the **Forwarding** tab, select **Enable forwarding** and specify where the data should go.

Select **Splunk (JSON)** as the message format, and specify the correct Splunk host name and the UDP port where the forwarded data is expected.

After you have completed the collection setup, confirm that the forwarding is really working. Wait a few minutes for the new settings to take effect. After that, log on to some of the computers that InTrust is watching, and try to make Active Directory changes. Then open Splunk and check whether your activity has registered.



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