

xMatters SyncPack

Version 1.0.0

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Chapter

1

Introduction to the xMatters SyncPack

Overview

This chapter describes how you can use the "xMatters" SyncPack to automatically trigger, acknowledge, and resolve SL1 events and xMatters incidents between xMatters and SL1. The integration is bidirectional and synchronizes SL1 and xMatters.

This SyncPack uses the "xMatters Incident Integration" PowerPack.

This chapter covers the following topics:

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What Can I Do with this SyncPack?

The "xMatters" SyncPack lets you automatically trigger, acknowledge, and resolve SL1 events and xMatters incidents between xMatters and SL1. The integration is bidirectional and synchronizes SL1 and xMatters.

This SyncPack includes the following integrations:

- Collect acknowledged or resolved incident data from xMatters, and then acknowledge or clear the corresponding SL1 events.
- Collect acknowledged or resolved event data from SL1, and then acknowledge or clear the corresponding xMatters incidents.
- Collect event details from SL1 and create a new incident in xMatters, and optionally populate the External Ticket ID field with a link to the xMatters incident.
- Collect xMatters on-call details and populate the corresponding SL1 event notes with on-call details.

Contents of the SyncPack

This section lists the contents of the "xMatters" SyncPack.

PowerFlow Applications

- **Bulk Resolve SL1 Events**. This application collects resolved incident data from xMatters and clears the corresponding SL1 event. To use this application, the incident description must include the event ID.
- Get Acknowledged Incidents and Post Data to SL1. This application collects acknowledged incident data from xMatters and acknowledges the corresponding SL1 event. To use this application, the incident description must include the event ID and you must run the "Save Accounts To Cache" application.
- Get Event Details and Post Incident URL to SL1. This application collects event details from SL1 and creates a new incident in xMatters. This application can optionally populate the External Ticket ID field with a link to the xMattersincident.
- Get Oncall Details and Post Oncall List to SL1. This application collects xMatters oncall details and populates the corresponding SL1 event notes with oncall details.
- Pass Acknowledgment details from SL1 to xMatters. This application collects acknowledged event data from SL1 and updates the corresponding xMatters incident. To use this application, the incident description must include the event ID.
- Pass Resolution to xMatters from RBA. This application collects resolved event data from SL1 and updates
 the corresponding xMatters incident. To use this application, the incident description must include the event
 ID.
- Save Accounts to Cache. This application collects user details from SL1. The user's email address is used by the "Pass Acknowledgment details from xMatters to SL1" application to match the acknowledging user in xMatters to the SL1 user.

For more information about how to configure these applications, see **Configuring Applications for the xMatters**.

Configuration Object

- **Xmatters Config Template**. This configuration object can be used as a template after the SyncPack is installed on the PowerFlow system. The configuration object includes the following:
 - o Details for connecting to the SL1 API, including the URL, username, and password
 - Details for connecting to the xMatters API, including the API webhook, instance URL, group ID, username, and password.
 - Details for connecting to an HTTP Proxy when communicating with xMatters, including the hostname or IP address, username, and password
 - Mapping between SL1 events and xMatters incidents including, the default acknowledged user, whether an xMatters link should be added to the SL1 event, and whether an event should be resolved from xMatters.

Steps

The following steps are included in this SyncPack:

- Accounts to URI Mapping
- Create Bulk SL1 Payloads
- Converting Xmatters Incident Response into SL1 Payload
- Post Event Details To Xmatters
- Get Acknowledger Details From XM
- Get Acknowledgment From SL1 And Pass to Xmatters
- Get Acknowledged Incidents
- Get Event Details from SL1 Create Xmatters Alert
- Get Resolved Incidents And Pass To SL1
- Get Oncall Details from Xmatters

Chapter

2

Installing the xMatters SyncPack

Overview

This chapter describes how to install the "xMatters" SyncPack, and how to install the "xMatters Incident Integration" PowerPack.

This chapter covers the following topics:

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Prerequisites for the SyncPack

This SyncPack requires the following:

- The latest "xMatters Incident Integration" PowerPack
- Administrator access to SL1
- xMatters administrator access

For the latest System Requirements, see the SL1 PowerFlow SyncPack Release Notes.

The following table lists the port access required by PowerFlow and this SyncPack:

Source IP	PowerFlow Destination	PowerFlow Source Port	Destination Port	Requirement
PowerFlow	SL1 API	Any	TCP 443	SL1 API Access
PowerFlow	xMatters API	Any	TCP 443	xMatters API Access

Downloading and Installing the xMatters SyncPack

A SyncPack file has the .whl file extension type. You can download the SyncPack file from the ScienceLogic Support site.

Downloading the SyncPack

NOTE: If you are installing or upgrading to the latest version of this SyncPack in an offline deployment, see *Installing or Upgrading in an Offline Environment* to ensure you install any external dependencies.

To locate and download the SyncPack:

- 1. Go to the ScienceLogic Support Site at https://support.sciencelogic.com/s/.
- 2. Click the [Product Downloads] tab and select PowerPacks & SyncPacks.
- 3. In the **Search** field, search for the SyncPack and select it from the search results. The **Release Version** page appears.
- 4. On the [Files] tab, click the down arrow next to the SyncPack version that you want to install, and select Show File Details. The Release File Details page appears.
- 5. Click the [Download File] button to download the SyncPack.

After you download the SyncPack, you can import it to your PowerFlow system using the PowerFlow user interface.

Importing the SyncPack

To import a SyncPack in the PowerFlow user interface:

- 1. On the **SyncPacks** page (ⓐ) of the PowerFlow user interface, click **[Import SyncPack]**. The **Import SyncPack** page appears.
- 2. Click [Browse] and select the .whl file for the SyncPack you want to install. You can also drag and drop a .whl file to the Import SyncPack page.
- 3. Click [Import]. PowerFlow registers and uploads the SyncPack. The SyncPack is added to the SyncPacks page.
- 4. You will need to activate and install the SyncPack in PowerFlow. For more information, see the following topic.

NOTE: You cannot edit the content package in a SyncPack published by ScienceLogic. You must make a copy of a ScienceLogic SyncPack and save your changes to the new SyncPack to prevent overwriting any information in the original SyncPack when upgrading.

Installing the SyncPack

To activate and install a SyncPack in the PowerFlow user interface:

1. On the **SyncPacks** page of the PowerFlow user interface, click the **[Actions]** button () for the SyncPack you want to install and select *Activate & Install*. The **Activate & Install SyncPack** modal appears.

NOTE: If you try to activate and install a SyncPack that is already activated and installed, you can choose to "force" installation across all the nodes in the PowerFlow system.

TIP: If you do not see the PowerPack that you want to install, click the Filter icon (=) on the **SyncPacks** page and select *Toggle Inactive SyncPacks* to see a list of the imported PowerPacks.

- 3. For more information about the activation and installation process, click the check mark icon (♥) or the exclamation mark icon (♥) in the **Activated** column for that SyncPack. For a successful installation, the "Activate & Install SyncPack" application appears, and you can view the Step Log for the steps. For a failed installation, the **Error Logs** window appears.
- 4. If you have other versions of the same SyncPack on your PowerFlow system, you can click the [Actions] button () for that SyncPack and select Change active version to activate a different version other than the version that is currently running.

Installing the xMatters Incident Integration PowerPack

The "xMatters Incident Integration" PowerPack includes automation policies and actions that bidirectionally align alerts and incidents triggered and updated in xMatters and SL1.

NOTE: The "xMatters Incident Integration" PowerPack requires SL1 version 10.1.0 or later. For details on upgrading SL1, see the *SL1 Platform Release Notes*.

TIP: By default, installing a new version of a PowerPack overwrites all content from a previous version of that PowerPack that has already been installed on the target system. You can use the *Enable Selective PowerPack Field Protection* setting in the *Behavior Settings* page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields. (For more information, see the *System Administration* manual.)

To download and install the PowerPack:

- Search for and download the PowerPack from the PowerPacks page (Product Downloads > PowerPacks & SyncPacks) at the <u>ScienceLogic Support Site</u>.
- 2. In SL1, go to the **PowerPacks** page (System > Manage > PowerPacks).
- 3. Click the [Actions] button and choose Import PowerPack. The Import PowerPack dialog box appears.
- 4. Click [Browse] and navigate to the PowerPack file from step 1.
- 5. Select the PowerPack file and click [Import]. The PowerPack Installer modal displays a list of the PowerPack contents.
- 6. Click [Install]. The PowerPack is added to the PowerPacks page.

NOTE: If you exit the PowerPack Installer modal without installing the imported PowerPack, the imported PowerPack will not appear in the PowerPacks page. However, the imported PowerPack will appear in the Imported PowerPacks modal. This page appears when you click the [Actions] menu and select Install PowerPack.

Chapter

3

Configuring PowerFlow Applications for the xMatters SyncPack

Overview

This chapter describes how to set up the run book automations in SL1 and how to configure the PowerFlow applications in the "xMatters" SyncPack.

This chapter covers the following topics:

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Workflow for Configuring the SyncPack

The following workflows describe how to configure SL1 and PowerFlow to work with the "xMatters" SyncPack.

Configuring SL1

- 1. Create a SOAP/XML credential to access PowerFlow
- 2. Edit the xMatters run book actions
- 3. Enable the xMatters run book automations

Configuring PowerFlow

- 1. Create a configuration object
- 2. Align the configuration object and configure the xMatters PowerFlow applications
- 3. Schedule the PowerFlow applications

Configuring SL1

The following topics cover how to set up your SL1 instance to work with the "xMatters" SyncPack.

Creating a SOAP/XML Credential to Access SL1 PowerFlow

You will need to create a SOAP/XML credential so that the run book actions included in the "xMatters Incident Integration" PowerPack can access your PowerFlow system. The "xMatters Incident Integration" PowerPack includes the "PowerFlow xMatters" credential, which you can use as a template for the SOAP/XML credential.

To define a SOAP/XML credential using the example credential:

- 1. In SL1, go to the **Credentials** page (Manage > Credentials).
- 2. Click the wrench icon () for the "PowerFlow xMatters" credential. The **Credential Editor** modal window appears.
- 3. Complete the following fields:
 - Name. Type a new name for the credential.
 - All Organizations. Toggle on (blue) to align the credential to all organizations, or toggle off (gray)
 and then select one or more specific organizations from the What organization manages this
 service? drop-down field to align the credential with those specific organizations.
 - URL. Type the URL for your PowerFlow system.
 - HTTP Auth User. Type the username for your PowerFlow system.
 - HTTP Auth Password. Type the password for your PowerFlow system.

- 4. Click [Save & Close].
- 5. Take note of the SL1-assigned ID number for the new credential on the **Credentials** page, in the **ID** column. You will need the ID number when editing the input parameters of the run book actions included in the PowerPack, below.

Editing the xMatters Run Book Actions

The "xMatters Incident Integration" PowerPack includes four run book actions that you will need to enable.

These actions use the "Run Integration Service Application" action type to trigger the PowerFlow applications that send and receive data to and from xMatters. You can specify the credential ID in a JSON structure that you enter in the *Input Parameters* field in the *Action Policy Editor* modal.

To edit the run book actions included in the PowerPack:

- 1. In SL1, go to the **Actions** page (Registry > Run Book > Actions).
- 2. Locate the xMatters run book action that you want to use, and then click its wrench icon (). The **Editing**Action page appears.
- 3. In the *Input Parameters* field, change the values of the following parameters:
 - **credential_id**. Change the value to the credential ID that you noted earlier when creating a credential for your PowerFlow system in the previous procedure. This parameter is required.
 - include event. Leave the value as "true".
 - application_name. Leave the default application value.
 - params. Leave the default parameter value.
- 4. Make sure the **Action State** is set to *Enabled*, and then click **[Save]**.

Enabling the xMatters Run Book Automations

The "xMatters Incident Integration" PowerPack includes four run book automation policies that you will need to enable.

These policies update the xMatters alert or SL1 events with the state of the associated event or alert or populates SL1 with on-call details. When the event is first detected in SL1 or xMatters, the "triggered" state is sent. When the event is acknowledged in SL1 or xMatters, the "acknowledged" state is sent. When the event is cleared in SL1 or xMatters, the "resolved" state is sent. When on-call is triggered, the on-call details are added to the SL1 event notes.

NOTE: If you enable the "xMatters: Acknowledge Event", "xMatters: Resolve", and "xMatters: Trigger" automation policies, it is best practice to align the same devices for all three policies.

The following table shows the automation policy, its aligned events, and the run book action that runs in response to the events.

Configuring SL1

Automation Policy Name	Aligned Events	Run Book Action
xMatters: Acknowledge Event	All events	xMatters: Acknowledgment
xMatters: Oncall	All events	xMatters: Resolve
xMatters: Resolve	All events	xMatters: Resolve
xMatters: Trigger	All events	xMatters: Trigger

To enable the run book automations:

- 1. In SL1, go to the **Automation** page (Registry > Run Book > Automation).
- 2. Locate the xMatters run book automation policy and click its wrench icon (🎤). The Automation Policy Editor page appears.
- 3. Update the following fields:
 - Policy State. Select Enabled.
 - **Policy Priority**. Select High to ensure that this PowerFlow automation policy is added to the top of the queue.
 - Available Actions. If it is not already selected, select the "Run Integration Service Application:
 - action that corresponds with the xMatters run book automation policy that you selected in step 2, and click the arrows to move it to Aligned Actions.

WARNING: ScienceLogic highly recommends that you do not make changes to the **Policy Type**, **Repeat Time**, or **Align With** fields or the And event is NOT acknowledged setting.

- 4. Click [Save].
- 5. Repeat steps 2-4 for the remaining xMatters run book automation policies.

Configuring PowerFlow

The following topics cover how to set up your PowerFlow instance to work with the "xMatters" SyncPack.

Creating a Configuration Object

A *configuration object* supplies the login credentials and other required information needed to execute the steps for a PowerFlow application. The *Configurations* page () of the PowerFlow user interface lists all available configuration objects for that system.

You can create as many configuration objects as you need. A PowerFlow application can only use one configuration object at a time, but you can use (or "align") the same configuration object with multiple applications.

For this SyncPack, you can make a copy of the "Xmatters Config Template" configuration object, which is the sample configuration file that was installed with the "xMatters" SyncPack. Next, you need to align that configuration object to the relevant applications.

TIP: The "Xmatters Config Template" configuration object contains all of the required variables. Simply update the variables from that object to match your SL1 and xMatters settings.

To create a configuration object based on the "Xmatters Config Template" configuration object:

- 1. In the PowerFlow user interface, go to the **Configurations** page ().
- 2. Click the [Actions] button () for the "Xmatters Config Template" configuration object and select *Edit*. The Configuration pane appears.
- 3. Click [Copy as]. The Create Configuration pane appears.
- 4. Complete the following fields:
 - Friendly Name. Name of the configuration object that will display on the Configurations page.
 - **Description**. A brief description of the configuration object.
 - Author. User or organization that created the configuration object.
 - Version. Version of the configuration object.
- 5. In the **Configuration Data** field, update the default variable definitions to match your PowerFlow configuration:
 - sl1 host. The hostname or IP address of the SL1 system the alerts will synchronize to.
 - sl1 user. The username for your SL1 system.
 - xmatters_alert_api_webhook. To send events to xMatters, you must configure a generic webhook workflow in xMatters. Enter the integration URL for that workflow.
 - xmatters_instance_url. The URL to use for links to the xMatters user interface. Enter the base
 URL you navigate to. This URL will be displayed in SL1 and will open your xMatters instance in a
 browser.
 - sl1 password. The password for your SL1 system.
 - proxy_host. The hostname or IP address of the HTTP proxy that will be used when making an API request to xMatters.
 - proxy_user. The username for your associated HTTP proxy.
 - proxy_password. The password for your associated HTTP proxy.
 - xm_user. The username for your xMatters system.
 - xm_password. The password for your xMatters system.
 - xm group id. The xMatters group ID you want to use.
 - resolve from xm. The option to resolve events from xMatters.
 - populate external url. The option to add an xMatters incident URL to the corresponding SL1 event.
 - default ack user. The default user to acknowledge events in SL1.
- 6. Click [Save]. You can now align this configuration object with one or more applications.

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Aligning a Configuration Object and Configuring PowerFlow Applications

With this SyncPack, any status changes made to an SL1 event is sent to xMatters to update the corresponding incident. Any status changes to the xMatters incident are synced back to the corresponding SL1 event. You will need to align the xMatters applications with the relevant configuration object in PowerFlow, and, if needed, update any other fields on the **Configuration** pane for the applications.

To run this SyncPack, you must "align" the configuration object to run with the following PowerFlow applications:

- "Bulk Resolve SL1 Events"
- "Get Acknowledged Incidents And Post Data To SL1"
- "Get Oncall Details And Post Oncall List To SL1"
- "Pass Acknowledgment details from SL1 to Xmatters"
- "Pass Resolution to Xmatters from RBA"
- "Save Accounts to Cache"
- "Get Event Details And Post Incident URL to SL1"

To align the configuration object with the relevant PowerFlow applications:

- 1. On the **Applications** page of the PowerFlow user interface, open one of the PowerFlow applications listed above and click **[Configure]**. The **Configurations** pane for that application appears.
- 2. From the **Configurations** drop-down, select the configuration object you want to use.

NOTE: The values for proxy_host and the other parameters that appear in the Configuration pane with a padlock icon () are populated either by the configuration object you aligned with the application or by the Run Book Action. Do not modify these values. If you encounter an error, make sure your Run Book Action is configured properly.

- 3. Update any of the remaining fields on the **Configurations** pane as needed.
- 4. Click [Save].
- 5. Repeat this process for the other PowerFlow applications.

Scheduling PowerFlow Applications

To trigger some applications in this SyncPack, you must schedule the application. You must schedule the following applications if you want to trigger them:

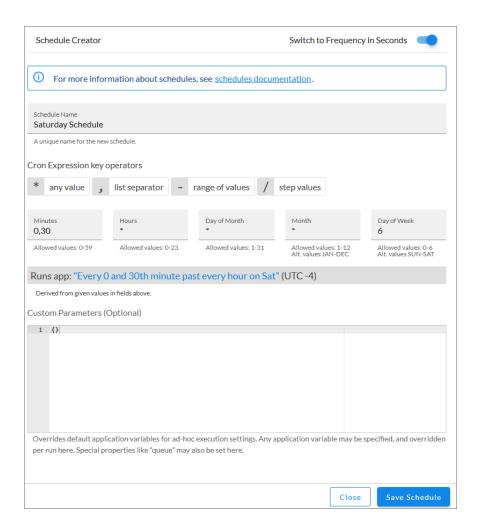
- ∘ "Bulk Resolve SL1 Events"
- o "Get Acknowledged Incidents and Post Data to SL1"

"Save Accounts To Cache"

You can create one or more schedules for a single application in the PowerFlow user interface. When creating each schedule, you can specify the queue and the configuration file for that application.

To create a schedule:

- 1. On the **Applications** page (), click the **[Schedule]** button for the application you want to schedule. The **Scheduler** window appears.
- 2. In the **Schedule List** pane, click the down arrow icon (\checkmark) next to an existing schedule to view the details for that schedule.
- 3. In the **Schedule Creator** pane, complete the following fields for the default **Frequency** setting:
 - Schedule Name. Type a name for the schedule.
 - Frequency in seconds. Type the number of seconds per interval that you want to run the application.
 - **Custom Parameters**. Type any JSON parameters you want to use for this schedule, such as information about a configuration file or mappings.
- 4. To use a cron expression, click the **Switch to Cron Expression** toggle to turn it blue. If you select this option, you can create complicated schedules based on minutes, hours, the day of the month, the month, and the day of the week:



As you update the cron expression, the **Schedule** window displays the results of the expression in more readable language, such as *Runs app*: "Every 0 and 30th minute past every hour on Sat", based on 0,30 in the **Minutes** field and 6 in the **Day of Week** field.

5. Click [Save Schedule]. The schedule is added to the Schedule List pane. Also, on the Applications page, the [Schedule] button now displays with a dark blue background:



NOTE: After you create a schedule, it continues to run until you delete it. Also, you cannot edit an existing schedule, but you can delete it and create a similar schedule if needed.

To view or delete an existing schedule:

1. On the **Applications** page, click the **[Schedule]** button for the application that contains a schedule you want to delete. The **Scheduler** window appears.

- 2. Click the down arrow icon (\checkmark) to view the details of an existing schedule.
- 3. To delete the selected schedule, click the Actions icon () and select[**Delete**].

TIP: On the **Scheduler** window for a PowerFlow application, you can click the **[Copy as]** button from the **Schedule List** pane to make a copy of an existing schedule.

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