



SL1 Optimization Assessment Service SaaS User Guide

SL1 OAS SaaS PowerPack version 1.6.3

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1. Revision History

Version Number	Revision Date	Notes
1.6.3	April 9, 2025	Bug Fixes
1.4	Feb 25, 2025	Bug Fixes
1.3	Feb 13, 2025	Bug Fixes
1.2	Feb 11, 2025	Bug Fixes
1.1	Feb 10, 2025	Added the ability to send the report via email.
1.1	Feb 03, 2025	Bug Fixes
1.0	Jan 24, 2025	Added the ability to store the data in the database to be used for trending.
0.60	Nov 4, 2024	Added two new checks: 1. Check Additional Foundation PowerPacks. 2. Collector Capacity Check.
0.50	Sept 24, 2024	Action Code optimized for improved efficiency.
0.40	July 22, 2024	Initial release

2. Introduction

This document provides installation steps and detailed instruction on how to use SL1 – OAS SaaS PowerPack.

The SL1 – OAS SaaS PowerPack has Automations, that collect all necessary data for performing OAS on SaaS systems. It generates a fully completed spreadsheet, which is then used to create the final PowerPoint presentation for the customer.

3. PowerPack Contents

Content Type	Count
Credentials	1
Run Book Actions	4
Run Book Automations	2
Dynamic Application	1
AP2 Dashboard	1

4. Pre-requisites & PowerPack Installation

Pre-requisites

Pre-requisite item	Minimum required Version / Notes
SL1 platform	12.1.1
User	An administrator level user account details are needed.
Device for Automation Alignment	SL1 Stats device should be present on the system. If SL1 Stats device is not present, then create a new virtual Device and name is “SL1 Stats”: - Go to Registry > Devices > Device Manager - Click on Actions > Create Virtual Device - Enter the following information: - Device Name: SL1 Stats - Organization: System - Device Class: Virtual Device Dynamic App Emissary - Collector: if present select “Self-Monitoring CUG”, else select any available CUG.
Operational Insights PowerPack	Latest version of Operational Insights PowerPack installed.

Installation

To install the new PowerPack:

1. Go to System > Manage > PowerPacks.
2. Select Actions > Import PowerPack.
3. Select the PowerPack file and import.
4. Once imported, click on the Install button.

The PowerPack should now be installed on the system.

5. Credential Configuration

Credential Configuration

1. Go to System > Manage > Credentials
2. Search for “OAS SaaS” in the Profile Name.
3. Edit credential named “SL1 - OAS SaaS Cred”
4. Update the credential with the following:
 - **Profile Name** – Give e new name for the credential (example: OAS SaaS Cred – XYZ)
 - **HTTP Auth User** – enter the administrator user that will be used for collecting data.
 - **HTTP Auth Password** – enter the administrator user that will be used for collecting data.
5. Optional changes:
 - **Embed Value %1** – If customer has approved the changes that the Automation makes to the system, then change the value to “MAKE_CHANGE=YES”, if no changes are approved then leave the value as “MAKE_CHANGE=NO”.
 - **Embed Value %2** – If Debug needs to be turned on for troubleshooting purpose, then change the value to “DEBUG=TRUE” else leave the value as “DEBUG=FALSE”
 - **Embed Value %3** – This is the location of the log file. This need not be changed.
 - **Embed Value %4** – This field provides the option to send the final assessment report in an email.
 - If you want to the system to send the email with the assessment report, then set this field’s value to “SEND_EMAIL=YES”
 - If you want to the system to send the email with the assessment report, then set this field’s value to “SEND_EMAIL=NO”
 - Default value is “SEND_EMAIL=NO”
 - **HTTP Headers** – The HTTP Headers section contains the comma (,) separated list of email addresses. If the Embed Value %4 is populated with “SEND_EMAIL=YES” then this header should be updated with the comma separated list of email addresses to whom you want the system to email the assessment results. If Embed Value %4 is populated with “SEND_EMAIL=NO” then do not edit or delete this header.
6. Click on **Save As**. This will create a new credential.

Credential Editor [65]

Edit SOAP/XML Credential #65

Basic Settings

Profile Name: SL1 - OAS SaaS Cred

Content Encoding: [text/xml]

Method: [POST]

HTTP Version: [HTTP/1.1]

URL [http(s)://Host:Port/Path | %D = Aligned Device Address | %N = Aligned Device Host Name]

https://127.0.0.1

HTTP Auth User: em7admin

HTTP Auth Password: [masked]

Timeout (seconds): 2

Soap Options

Embedded Password [%P]:

Embed Value [%1]: MAKE_CHANGE=NO

Embed Value [%2]: DEBUG=FALSE

Embed Value [%3]: /dev/shm/

Embed Value [%4]: SEND_EMAIL=NO

Proxy Settings

Hostname/IP:

Port: 0

User:

Password:

CURL Options

CAINFO

CAPATH

CLOSEPOLICY

CONNECTTIMEOUT

COOKIE

COOKIEFILE

COOKIEJAR

COOKIELIST

CRLF

CUSTOMREQUEST

DNSCACHETIMEOUT

HTTP Headers

+ Add a header

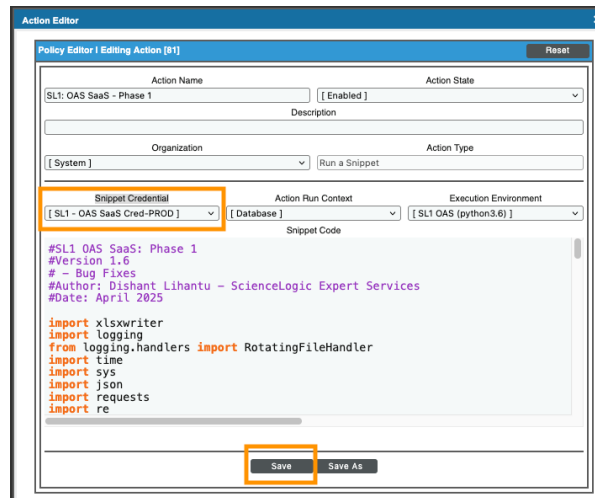
example@company.com

Save Save As

6. RunBook Actions Configuration & Execution

To configure the Action:

1. Go to Registry > Run Book > Automation.
2. Search for “SL1: OAS SaaS”.
3. Perform steps 4 -6 to update the credential for the following OAS Actions:
 - a. SL1: OAS SaaS - Phase 1
 - b. SL1: OAS SaaS - Phase 2
 - c. SL1: OAS SaaS - Phase 3
 - d. SL1: OAS SaaS - Send Report Email
4. Edit the Action by clicking on the “wrench” icon.
5. From the Snippet Credential dropdown, select the newly created credential from previous section (5.6)
6. Click Save and exit.



7. RunBook Automations Configuration & Execution

To configure the Automations:

1. Go to Registry > Run Book > Automation.
2. Search for “SL1: OAS SaaS”.
3. Edit the Automation.
4. Align the right device to the Automation:
 - a. Search for ‘SL1 Stats’ in the Available Devices.
 - b. If SL1 Stats device is not present on the system, then use “SL1 OAS” device (see pre-requisites section for details).
5. Move the device from 4.a or 4.b to ‘Aligned Devices’.
6. Click Save and exit.
7. Perform steps 2-6 for “SL1: OAS SaaS – Send Report Email” Automation as well.

Following Automations are provided with the PowerPack:

- **SL1: OAS SaaS:** This automation handles collecting the data needed for performing OAS.

The Automation is configured to trigger once a day.

The Automation triggers three separate Actions that handle collecting data and creating the final spreadsheet.

1. SL1: OAS SaaS - Phase 1: This action is used to collect data for the following OAS Sections:
 - a. Self-Monitoring
 - b. Platform
 - c. Capacity Management
 2. SL1: OAS SaaS - Phase 2: This action is used to collect data for the following OAS Sections:
 - a. Device Management
 - b. System Administration
 3. SL1: OAS SaaS - Phase 3: This action is used to create the final spreadsheet and to collect data for the following OAS Sections:
 - a. Informational
- **SL1: OAS On-Premises – Send Report Email:** This automation handles sending emails to the users after the Report has been created.

The Automation is configured to trigger once a month.

The Automation triggers one Action that sends out an email, with the Assessment Report as an attachment, to the email addresses specified in the credential. The email is only sent out if the **Embed Value %4** option in the credential is set to “SEND_EMAIL=YES”

Manual Automation Execution

If you need the automation process to run immediately rather than at its next scheduled interval, you have the option to manually trigger it. This means you can bypass the pre-set schedule and start the process at any moment you choose, allowing for more flexible execution when necessary.

To execute the automation, perform the following steps:

1. Go to Registry > Run Book > Automation
2. Search for Automation Policy Name “SL1: OAS SaaS”.
3. Click on the lightning bolt icon for policy named “SL1: OAS SaaS”.

Automation Policy Manager | Automation Policies Found [1]

	ID	Policy State	Policy Priority	Organization	Devices	Events	Actions	Edited By	Last Edited	
SL1: OAS SaaS	1	Enabled	Default	System	1	All	3	em7admin	2024-07-22 13:47:51	

8. OAS Results

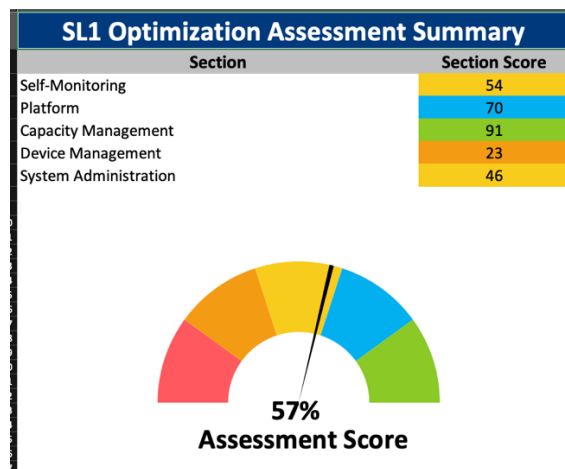
Once the Automation has been executed the results will be available on the device aligned to the automation.

To download the results of the OAS:

1. Go to Registry > Devices > Device Manager.
2. Search for “SL1 Stats” in Device Name.
3. Edit the device and Navigate to the Notes Tab.
4. The latest output of the OAS will be saved in the device note, if there are multiple notes then the latest one will be at the bottom of the list.
5. Click on the attachment icon and download the spreadsheet called “sl1_oas_checklist.xlsx”.

The finished OAS checklist spreadsheet has the following five tabs:

1. Assessment Summary – This tab has the score summary for every section and the overall score for OAS.



2. Informational – This tab has all the informational checks that do not impact the overall score of the assessment.
3. Self-Monitoring – This tab has all the Self-Monitoring checks along with the overall section score.
4. Platform – This tab has all the Platform checks along with the overall section score.
5. Capacity Management – This tab has all the Capacity Management checks along with the overall section score.
6. Device Management – This tab has all the Device Management checks along with the overall section score.
7. System Administration – This tab has all the System Administration checks along with the overall section score.

8. OAS Score Trends Dashboard

The PowerPack contains a Dynamic Application that collects scores, which can be displayed and trended on a Dashboard (also included in the PowerPack).

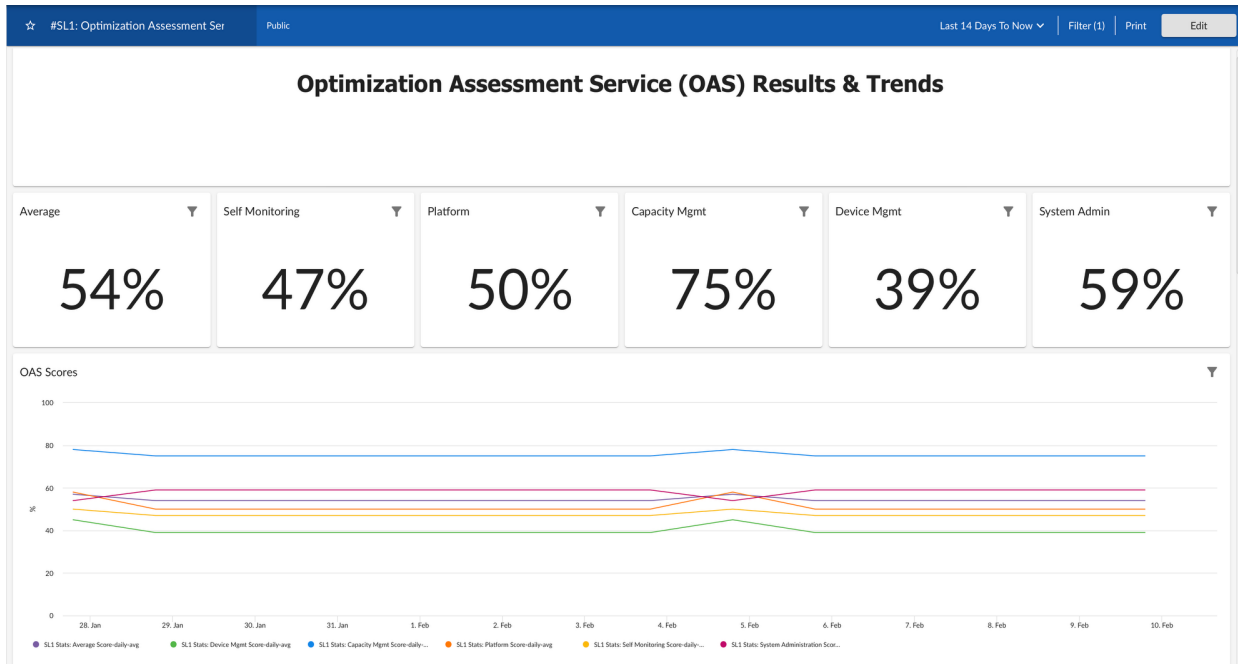
Dynamic App Setup

To display score trends on the Dashboard, the accompanying Dynamic Application must be aligned with the SL1 Stats device. Follow these steps to complete the alignment:

1. Navigate to the Devices Page.
2. Search for device name “SL1 Stats”
3. Click on the Device Name
4. In the Device Navigator screen, navigate to the Collections tab
5. Click on “Edit” button located in the top right of the screen
6. Click on “Align Dynamic Application”
7. Click “Choose Dynamic Application”
8. Search for Name “OAS”
9. Select “SL1: OAS Assessment Scores - SaaS” Dynamic Application
10. Uncheck “Use Device SNMP Credential”
11. Select Choose Credential and select the database Credential for the system.
 - a. If a credential doesn’t exist, then a new Database credential must be created with login credentials for the SL1 Database.
12. Click Align Dynamic Application.
13. Perform steps 1-12 selecting “SL1: OAS Corrective Actions – SaaS” Dynamic Application.

Once the Dynamic Application is aligned and collecting data the **#SL1: Optimization Assessment Service (OAS) Score Trends – SaaS** Dashboard will show the latest Assessment scores along with a graph with the trended values.

Since the Dynamic Application is configured to trigger once in 12 hours, it will take at least 12 hours for the dashboard to show any data.



☆ #SL1: Optimization Assessment Ser

Public

Last 14 Days To Now ▾

Filter (1)

Print

Edit

Below is a summary of the checks that did not pass, along with brief corrective actions. For more details, go to the SL1 Stats device's Notes tab and download the latest Assessment Report.

Self Monitoring ▾

Check ID	Check	Corrective Action
3	Discovery - Are all SL1 Collectors discovered for Self-Monitoring?	Discover all SL1 Collectors for Self-Monitoring.
5	Dynamic Applications - Do the SL1 Collectors have all of the expected dynamic applications aligned?	Align all relevant Dynamic Apps to the SL1 Collectors.
6	Dynamic Applications - Is the Support: Maintenance Tracking Dynamic Application configured with alerts and events?	Update SL1: Support Maintenance Dynamic Application.
9	System organization - Are all SL1 appliances located in the System organization or a dedicated organization?	All SL1 Appliances should be aligned with the System Organization.
11	Device Templates - Has the SL1 Collector device template been applied to all SL1 collectors?	SL1 Collector Device Template should be applied to the SL1 Collector D
13	Run Book - Is the Support: Notify SL1 Administrators Automation Policy enabled and aligned to a Run Book Action?	Enable Notify SL1 Administrators RunBook and insure that it inclu

Platform ▾

Check ID	Check	Corrective Action
2	Version - Is the SL1 version and MariaDB version consistent across all SL1 Appliances?	Best Practice is for all SL1 appliances to be on the same SL1 and MariaDB ve
3	Subscription Usage - Is each SL1 DB/DE configured to send Subscription License Usage Data to the SL1 License Usage Server?	Populate the [SUBSCRIBER] section on each SL1 DB/DE in the silo.conf file
6	Vitals - What is the CPU health for the SL1 Collectors?	Best Practice is for all SL1 Collectors to have an average CPU utilization und
7	Vitals - What is the Memory health for the SL1 Collectors?	Best Practice is for all SL1 Collectors to have an average Memory utilization un
8	Vitals - What is the Swap health for the SL1 Collectors?	Best Practice is for all SL1 Collectors to have an average Swap utilization un
9	Vitals - What is the Disk health for the SL1 Collectors?	Best Practice is for all SL1 Collectors to have an average disk utilization und

Appendix A – Automation Credential

The PowerPack comes with a credential (SL1 - OAS SaaS Cred) which is used by the Automation. Below are the main components to the credential:

1. **User / Password** – This is the information about the admin user that will be used to collect data from the system
2. **Make Changes** – This is optional field, when enabled the OAS Automation can make the following changes to the system:
 - Rename device category from System.EM7 to System.SL1
 - Rename category EM7 Administration to SL1 Administration.
 - Rename device classes with description EM7 to SL1.
 - In System > Manage > Applications - rename any dynamic applications that reference EM7 with SL1
 - In Registry > Events > Event Manager - rename any events that reference EM7 with SL1
 - In System > Manage > Credentials - rename any credentials that reference EM7 with SL1
3. **DEBUG** – This is an optional field used only when debug logs are to be collected for troubleshooting purposes. This requires ssh access to the primary Database /Data Engine.



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