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# AP2 Croissant Release Notes

Version 8.5.7

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## SL1 AP2 Croissant version 8.5.7 Release

**NOTE:** AP2 Croissant version 8.5.7 is no longer available for download on the ScienceLogic Support site. For more information, contact ScienceLogic Support.

The Croissant release for AP2 version 8.5.7 includes feature enhancements to the **Device Investigator**, **Events**, and **Dashboards** pages, new ways to manage your business services, and GraphQL updates to support the enhancements to **Device Investigator** layouts.

**IMPORTANT:** AP2 releases are separate from SL1 platform releases to provide updates and improvements more frequently.

This release includes the following new features and enhancements:

- [Several updates to the Device Investigator](#), including a new **Relationships** widget and enhancements to custom investigator layouts
- [A new Masked Events modal](#) that can be accessed from the **Events** page
- [Feature enhancements](#) to the **Dashboards** page, including a new **Custom** widget, and a new toggle that provides integration into other third-party tools with external linking
- Plus [several additional new features and enhancements](#)

These release notes provide a comprehensive list of the features, enhancements, and addressed issues that are included in this release.

This document covers the following topics:

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## Before You Install or Upgrade

Ensure you are running version 12.1.1 or later on an Oracle Linux 8 (OL8) instance of SL1 before installing AP2 Croissant.

**NOTE:** For details on upgrading SL1, see the appropriate [SL1 platform release notes](#).

**IMPORTANT:** This update is available only to cloud-based (SaaS) SL1 systems. The AP2 Croissant update must be administered to systems that host AP2. All SL1 systems must be on the same AP2 version.

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## Installing or Uninstalling AP2 Croissant

**NOTE:** AP2 Croissant version 8.5.7 is no longer available for download on the ScienceLogic Support site. For more information, contact ScienceLogic Support.

To install AP2 Croissant version 8.5.7:

1. If you have not already done so, upgrade your SL1 system to either the 12.1.1 Oracle Linux 8 (OL8) release or the 12.2.0 release. For more information, about upgrading to those releases, see the appropriate [SL1 platform release notes](#).
  - If you are installing AP2 Croissant version 8.5.7 on SL1 version 12.1.1, proceed to step 2.
  - If you are installing AP2 Croissant version 8.5.7 on SL1 12.2.0, you can skip to step 5.
2. If you are installing AP2 Croissant on SL1 version 12.1.1, you must download the `libem7` RPM file locally to your machine from the ScienceLogic Support site: <https://support.sciencelogic.com/s/release-file/aBt4z000000GsHACA0/libem7>
3. Either go to the console of the SL1 Database Server or use SSH to access the Database Server.
4. At the shell prompt, copy the RPM file to your SL1 system by running the following command:

```
scp -i <aws-system-pem>.pem -o StrictHostKeyChecking=no libem7-ipcserver-0.2.0-1.el8.x86_64.rpm em7admin@<system-ip-address>:/home/em7admin/
```

where:

- `aws-system-pem` is the PEM file for the AWS system.
  - `system-ip-address` is the IP address of your SL1 system.
5. Download the AP2 Croissant RPM file locally from the ScienceLogic Support site: <https://support.sciencelogic.com/s/release-file/aBtVL00000002530AA/croissant>
  6. Either go to the console of the SL1 Database Server or use SSH to access the Database Server.
  7. At the shell prompt, copy the RPM file to the AWS system by running the following command:

```
scp -i <aws-system-pem>.pem -o StrictHostKeyChecking=no nextui-  
<croissant-release-ap2-version>.rpm em7admin@<system-ip-  
address>:/home/em7admin/
```

where:

- `aws-system-pem` is the PEM file for the AWS system.
- `croissant-release-ap2-version` is the AP2 Croissant release version.
- `system-ip-address` is the IP address of your SL1 system.

8. Install the AP2 RPM file on your system by running the following command:

```
sudo yum install nextui-<croissant-release-ap2-version>.rpm
```

where `croissant-release-ap2-version` is the AP2 Croissant release version.

9. Enter `y` to confirm the installation of the AP2 RPM file.
10. Install the `libem7` RPM file on your system by running the following command:

```
sudo yum install libem7-ipserver-0.2.0-1.el8.x86_64.rpm
```

11. Enter `y` to confirm the installation of the `libem7` RPM file.
12. After the installation of both RPM files is complete, run the following commands to reload the daemon service:

```
sudo systemctl enable libem7.socket
```

```
sudo systemctl start libem7
```

```
sudo systemctl daemon-reload
```

13. Restart the NextUI service by running the following command:

```
sudo systemctl restart nextui.service
```

**NOTE:** AP2 will be inaccessible for a few minutes after restarting the NextUI service.

14. To confirm that AP2 Croissant version 8.5.7 has been properly installed on your SL1 system, log in to SL1, click your username in the upper right corner of the page, select *About* from the drop-down field, and then confirm that the **ap2** field starts with 8.5.7.

To uninstall the Croissant release features for AP2 version 8.5.7:

1. If you are uninstalling AP2 Croissant version 8.5.7 from SL1 version 12.1.1, proceed to step 2. If you are uninstalling AP2 Croissant version 8.5.7 from SL1 12.2.0, you can skip to step 5.
2. If you are uninstalling AP2 Croissant on SL1 version 12.1.1, you must download the 12.1.1 AP2 RPM file locally to your machine.

**NOTE:** To download the rollback RPM file for this release, contact ScienceLogic Support.

3. Either go to the console of the SL1 Database Server or use SSH to access the Database Server.
4. At the shell prompt, copy the RPM file to the AWS system by running the following command:

```
scp -i <aws-system-pem>.pem -o StrictHostKeyChecking=no nextui-  
<rollback-ap2-version>.rpm em7admin@<system-ip-  
address>:/home/em7admin/
```

where:

- *aws-system-pem* is the PEM file for the AWS system.
  - *rollback-ap2-version* is the Rollback AP2 Croissant version.
  - *system-ip-address* is the IP address of your SL1 system.
5. If you are uninstalling AP2 Croissant on SL1 version 12.2.0, you must download the AP2 Biscotti RPM file locally to your machine.

**NOTE:** To download the rollback RPM file for this release, contact ScienceLogic Support.

6. Either go to the console of the SL1 Database Server or use SSH to access the Database Server.
7. At the shell prompt, copy the RPM file to the AWS system by running the following command:

```
scp -i <aws-system-pem>.pem -o StrictHostKeyChecking=no nextui-  
<rollback-ap2-version>.rpm em7admin@<system-ip-  
address>:/home/em7admin/
```

where:

- *aws-system-pem* is the PEM file for the AWS system.
  - *rollback-ap2-version* is the Rollback AP2 Croissant version.
  - *system-ip-address* is the IP address of your SL1 system.
8. Install the RPM file on your device by running the following command:

```
sudo rpm -U --force --replacefiles <ga-ap2-releaseVersion>.rpm
```

where *ga-ap2-releaseVersion* is the AP2 Biscotti release version.

9. After the installation is complete, run the following commands to reload the daemon service:

```
sudo systemctl disable libem7.socket
```

```
sudo systemctl stop libem7
```

```
sudo systemctl daemon-reload
```

10. Restart the NextUI service by running the following command:

```
sudo systemctl restart nextui.service
```

## Important Upgrade Notes for AP2 Croissant 8.5.7

### Global Manager Deployment



When deploying or upgrading Global Manager systems, the Global Manager stack and all of its child stacks must run on the same SL1 build version, as well as the same versions of AP2 and Oracle Linux.

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## New Features and Enhancements in AP2 Croissant version 8.5.7

This section describes the features and enhancements that are included in SL1 AP2 Croissant version 8.5.7.

### Dashboards

- **What's new: Added new Custom widget** . Added a new **Custom** widget on the **Create Widget** page. This widget provides a user-interface-only visualization, and allows you to select the type of visualization you want to use under the **Visualizations** drop-down field. The title of your **Custom** widget will correspond to the name of the visualization option you have selected. The **Custom** widget currently only has the new *HTML Widget* visualization option. This visualization allows you to preview the widget on the right-hand side of **Create Widget** page, and then also make changes through the newly added text editor component. The following additional changes were made to support this new feature:
  - View or edit HTML content directly in the text editor, either in the **[Basic]** tab, which allows you to update the widget by editing plain text directly, or the **[Advanced]** tab, which allows you to view and edit the raw, HTML content.
  - **Custom** widgets that are using the *HTML Widget* visualization, can render any rich content or HTML that you input. To do so, click the **[Advanced]** tab, which subsequently opens the code view by default. Alternatively, you can click the ellipses button (  ) on the top-right corner of the **Preview** pane, then select **Code View** ().

#### **Additional Dashboards Updates**

- Added a new *Last 2 days* option to the **Time span filter** drop-down field on the **Dashboards** page.
- You can now integrate third-party tools into SL1 with external linking. To do so, toggle on **Items link to another page** when creating widgets. When you do so, two additional fields will appear, **Link base URL** and **Link Tooltip**. This new feature supports the following widgets and their corresponding visualization options:

- **Device** widgets that have *Leaderboard* or *Table* visualizations.
- **Interface** widgets that have *Leaderboard* or *Table* visualizations.

## Devices

- **What's new: The Relationships widget.** Added a new **Relationships** widget to the **Device Investigator** that displays details about the other devices and services that have relationships to the selected device. The **Relationships** widget, which appears in the **Device Investigator** by default, includes the following columns:
  - **Health**, which displays the current condition of the related device or service, based upon events generated by the device or service.
  - **Name**, which displays the name of the related device or service. You can click the name to view the investigator page for that device or service.
  - **Relationship**, which indicates the type of relationship the device or service has with the selected device. You can filter the list of devices and services that appear in the widget by selecting one or more relationship types from this drop-down field.
  - **Type**, which indicates whether the relationship is a device or a service.
- **What's new: Custom Device Investigator layouts and alignments.** Added the ability to view details about custom **Device Investigator** layouts, as well as the ability to bulk align layouts that you own to specific device categories, device classes, and devices.

**NOTE:** Layouts and layout alignments can be private, which are owned by a specific user, or public, which are available to everyone.

The following updates were made to support this enhancement:

- Added a **[Choose Layout]** tab when you click the **[Edit]** (layout) button from the **Device Investigator**. This tab includes a list of existing **Device Investigator** layouts that you own or have access to. You can change the **Device Investigator** layout that is currently aligned to that device by clicking the radio button for a different layout.

- Added a new **Device Investigator Layouts** page (Devices > Device Investigator Layouts), where you can view a list of the existing **Device Investigator** layouts that you own or have access to. You can also access this page from within the **Device Investigator** by clicking **[Edit] (layout) > Choose Layout > Manage Layouts**. This page includes the following information about each layout:
  - Layout name, ID, and owner
  - The number of device categories, device classes, and devices aligned to each layout
  - The date and time the layout was last edited, as well as the user responsible


**NOTE:** To view this page, you must have an Administrator user account type with an access key that includes the DEV\_VIEW access hook aligned to your user account.

- From the **Device Investigator Layouts** page, you can click the **Layout Name** link for a particular layout to view or filter the list of specific device categories, device classes, and devices that are aligned to that layout. If you are the layout owner, you can also edit the layout name or its alignments.

### **Additional Devices Updates**

- Added a new **ID** column to the **[Collections]** tab of the **Device Investigator** that displays the ID number of each Dynamic Application listed on the page.
- Updated the table that appears on the **[Events]** tab of the **Device Investigator**. As part of this update, the following changes were made:
  - The **ID** column is now labeled **Event ID**.
  - Columns were added for **Masked Events** and **Automated Actions**.

## **Events**

- **What's new: The Masked Events modal.** Added a new **Masked Events** modal that you can access from the **Events** page. On the **Events** page, any event that contains masked events includes an icon () that you can click under the **Masked Events** column. You can click this icon to open the new **Masked Events** modal.

The following updates were made to support this enhancement:

- The **Masked Events** modal displays the same events table from the **Masked Events** widget on the **Event Investigator** page. This modal also contains an event overview, which you can still access from the **Event Overview** widget on the **Event Investigator** page. You can perform all the same functions in this modal as you would be able to in the **Masked Events** widget, and the **Event Overview** widget on the **Event Investigator** page.
- You can access the **Masked Events** modal in SL1 global manager for business services.

### **Additional Events Updates**



- You can now add color-coded highlights to rows on the events inventory table that correspond to the severity color of the event. To do so, go to the **Events** page, click the **[View]** drop-down field, then switch the toggle on for *Highlight rows by severity* option.
- You can now perform a bulk action for editing event notes on the **Events** page.

## Additional New Features and Enhancements for Croissant

### Business Services

- When creating status policies for your business services, *Percent* will now appear under the *Aggregate* drop-down field. For instance, if one or more devices in your service are unavailable, SL1 will display the number of unavailable devices as a percentage of the total number of devices for that particular service.
- The following inventory pages and tabs in the SL1 user interface have been updated to use a new set of filters for the columns in the list. You can start typing filter text or select filter options in one or more of these filters to narrow down the list to just the items you want to view:
  - **Service Templates page** (Business Services > Templates)
  - **Policy Editor page** (Enhances Service Investigator > Status Policy)
  - **Maps page** (The **[Maps]** tab on the left-side navigation menu)
  - **Maps window** (Maps > Create Maps)
  - **Add Node window** (Maps > Add Node)

### GraphQL

- Added GraphQL support for a "run-as" header, `x-sl-run-as`, that enables administrators to run queries and mutations as a different, non-privileged user. This header is available for use to administrators only; any other users who attempt to use it will receive a 401 error.
- Made the following GraphQL updates to support the enhancements to **Device Investigator** layouts:
  - Added an `alignedDeviceInvestigatorLayouts` field to the `device`, `deviceClass`, and `deviceCategory` objects.
  - Enhanced `DeviceSearch`, `DeviceClassSearch`, and `DeviceCategorySearch` with a new `alignedDeviceInvestigatorLayout` field.
  - Added a new `deviceInvestigatorLayoutAlignment` node that includes fields such as `id`, `parentType`, `parentId`, `user`, `layoutId`, `editedBy`, and `editedDate`.
- To support the new **Relationships** widget for the **Device Investigator**, added a new `DeviceInvestigatorLayoutRelationshipInput` field that can be included in layout arguments for the `createDeviceInvestigatorLayout` and `updateDeviceInvestigatorLayout` mutations.

- Added a new `statistics` category to the `aiMachineLearningMetricAnomalies` node to improve the performance of AI/ML prediction metric GQL queries. This category includes two new fields, `anomalyCount` and `maxAnomalyScore`, which are calculated over a provided `timeSpan` input.
- Added a `LinkedMetric` GraphQL node for events.

## User Interface

- Added a new *Density* setting to the gear icon and ellipses drop-down field that appear at the top of all inventory pages. This setting enables you to switch between two settings:
  - **Compact**, which uses less padding between rows and a smaller font size.
  - **Comfortable**, which uses more padding between rows and a larger font size.

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## Issues Addressed in SL1 AP2 Croissant version 8.5.7

This section describes the issues that were addressed in SL1 AP2 Croissant version 8.5.7.

### Authentication

- Made updates to ensure that, if you are on a specific page in SL1 and have to log back in using the single sign-on login page, SL1 returns you to the page you had previously been on rather than your default landing page. (Cases: 00291753, 00415130)

### Business Services

- Resolved an issue where the **Health**, **Availability**, and **Risk** field values were displaying as "Unknown" due to gaps in the data sets across business services, and timeouts in GraphQL requests. (Case: 00382593)

### Dashboards

- Addressed an issue where **Device** widgets with *Table* visualizations on the **Dashboards** page for the "Cisco: Meraki [API]" PowerPack was not displaying data. (Case: 00396156)
- Addressed an issue where log files from the **SL1 Developer Logs** page (System > Tools > SL1 Developer Logs) did not include debug logs in the report. (Case: 00353242)

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## Known Issues

The following known issues affect version 8.5.7 of the AP2 Croissant release:

- Organizations must have at least one or more accounts assigned to them to ensure the relevant services are saved.
- Services that are added or created to the N-tier hierarchy have their **RCA Options** field set to *Disabled* by default.

**IMPORTANT:** The current solution to this issue is to edit the service you wish to configure by manually updating the **RCA Options** field to *RCA Enabled (contributors only)*.

- For services that have their **RCA Options** field enabled, and has had a child service removed, SL1 will not compute the health, availability, and risk values until the Service Topology Engine returns an updated topology, which occurs every 5 minutes by default.

**IMPORTANT:** Before deleting child services in a 3-tier hierarchy, check if the parent service has the **RCA Options** field *Enabled*, then set this field to *Disabled* if it is not already.

- When creating a template from a Business Service, you might receive an error if the number of constituents and maximum constituents are greater than the maximum number of policies, which has a default value of 100. To work around this issue, you must increase the maximum number of policies using a GraphQL mutation, replacing *<increased value>* with a larger numerical value such as "1000":

```
mutation updateMaxValue{  
  
  updateFeatureToggle(id: "system:BUSINESS_SERVICES_MAX_POLICIES",  
    value: "<increased value>") {  
  
    id  
  
    value  
  
  }  
  
}
```

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