



Runtime Dashboard

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About Runtime Dashboard

The **Runtime Dashboard** provides you with a quick review of the following summaries:

- **API Summary:** Summary of recent API calls, results, and performances. Click **View Details** to open a slide-in pane with information about individual API call counts and call durations.

The **Runtime Dashboard** only displays data from a Cisco DNA Center-to-ServiceNow API integration.

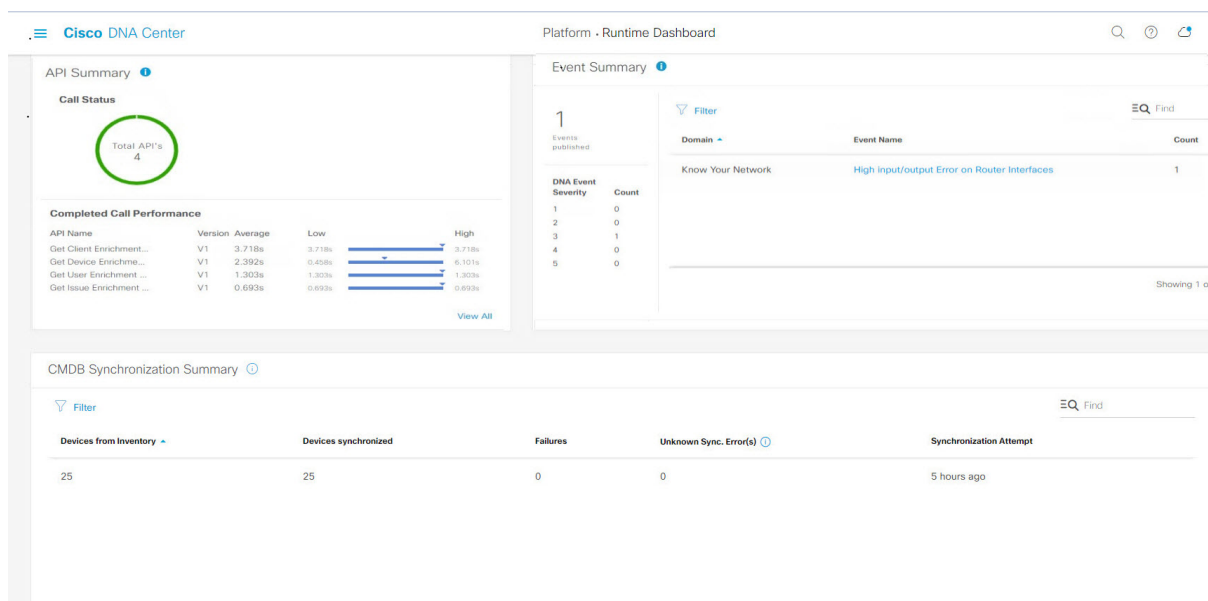
- **Event Summary:** Cisco DNA Center events involving REST endpoints or integration flows. Click an event name (link) to open a slide-in pane with additional detailed event information.
- **CMDB Synchronization Summary:** Summary that displays the Configuration Management Database (CMDB) synchronization status of devices selected from **Inventory**.
- **Integration Flow Summary:** Summary of integration flow instances, results, and performances. Click the appropriate tab to view additional detailed information about either the REST-based or schedule-based integration flows.

Review the Event Summary

Perform this procedure to review the Cisco DNA Center platform **Event Summary**. The **Event Summary** displays the total number of events published to external systems, based on the type of event. You can use the **Event Summary** to assist in monitoring and troubleshooting the Cisco DNA Center platform and its integration with other systems.

You review the **Event Summary** in the **Runtime Dashboard** window in the Cisco DNA Center GUI.

Figure 1: Cisco DNA Center Platform Runtime Dashboard Window

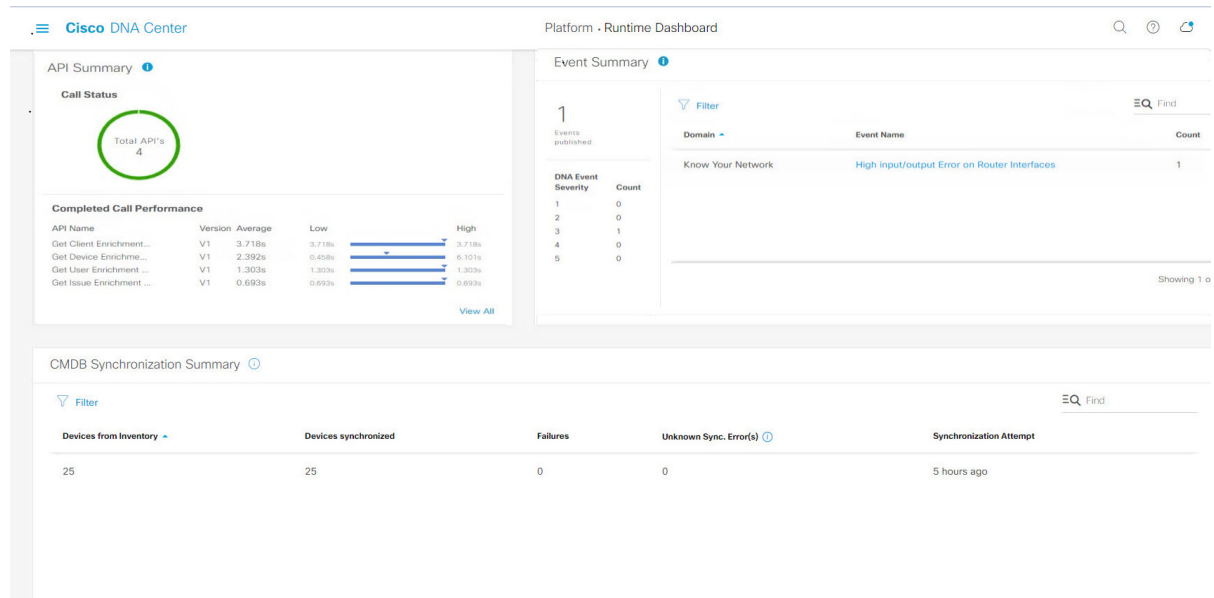


Before you begin

For the **Event Summary** field to display events, you need to enable, configure, and activate the bundles in **Bundles**. Additionally, you need to enable associated event notifications for the bundles in **Event Settings**. For information about **Bundles**, see [Bundle Features](#). For information about **Event Settings**, see [Configure Event Settings](#).

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- Step 1** Click the menu icon (☰) and choose **Platform > Runtime Dashboard**.
- Step 2** Choose a time interval for the event summary by clicking **Last 1 Week** at the upper right side of the GUI menu bar. You can view the event summary for the last 6, 12, and 24 hour period or for the week.
- Step 3** Review the **Event Summary** field in the **Runtime Dashboard** window.

Figure 2: Events Summary Field



The following information is displayed for any current events:

- **Events Published:** Total number of events that are captured and published (displayed in the GUI) by the Cisco DNA Center platform.
- **Event Severity:** Event totals by severity number (1 through 5).
- **Count:** Number of events.
- **Events:** List of events by domain (category), event name (links), and count (number of events).

Note Scroll down to view the entire list by using the scroll bar at the right of the field.

Step 4 Click an event name (link) to view additional detailed data.

As an example, if the events **Router Unreachable** or **BGP Tunnel Connectivity** exist in your GUI window click the link.

After clicking an event name (link), a slide-in pane opens.

Step 5 Review a list of this type of event (history) in the slide-in pane.

Figure 3: Event History

The screenshot shows the Cisco DNA Center interface. On the left, there is a sidebar with sections for 'API Summary' (showing 'Total APIs: 2') and 'Integration Flow Summary' (showing 'REST-Based (0) | 0 Failed' and 'Schedule-Based (0)'). The main content area is titled 'BGP Tunnel Connectivity (1)' and displays a table of events. The table has columns for Event ID, Source, Destination, ITSM Workflow, ITSM Status, ITSM ID, ITSM Link, ITSM Last UpdatedTime, and ITSM. A single event is listed with the following details:

Event ID	Source	Destination	ITSM Workflow	ITSM Status	ITSM ID	ITSM Link	ITSM Last UpdatedTime	ITSM
2c15ca52-f7cc-40ae-b673-3ae14c3be440	ServiceNow	Cisco DNA Center	Incident	Resolved	INC0011958	https://serv03100.servicenow.com/new_to.do?uri=incident.do?sys_id=50baad57dba78410b5a41fa5689619cc	March 19th 2020, 9:55:00 pm	5 - 1

Individual events are listed displaying the following information:

- **Event ID:** Cisco DNA Center event identification number generated by Cisco DNA Center .
- **Source:** Location from where event originated. For example, the Cisco DNA Center platform (DNACP) or an ITSM system (ServiceNow).
- **Destination:** Location for where the event was directed to. For example, the Cisco DNA Center platform (Cisco DNA Center) or an ITSM system (ServiceNow).
- **ITSM Workflow:** Type of ITSM workflow (for example, an **Incident** or **Problem**).
- **ITSM Status:** Current status of the event. For example, an event can have a status of **Open**, **New**, **Closed**, or **N/A**.
- **ITSM ID:** ITSM event identification number generated by the ITSM (ServiceNow).
- **ITSM Link:** Link to ITSM server for the ITSM event.
- **ITSM Last Updated Time:** Last date and time of event update.
- **ITSM Entity Severity/Priority:** ITSM severity or priority assigned to the event.
- **Event Severity:** Cisco DNA Center severity assigned to the event (1 through 5).

You can adjust the events that are displayed in the table by clicking the **Filter** icon and using the filter, or by entering a keyword in the **Find** field.

Step 6 Click an event ID number (link) to view only data associated with that specific event.

After clicking an event ID number (link), a slide-in pane opens.

Step 7 Review the event ID data in the slide-in pane.

Figure 4: Event ID Data

The screenshot displays the Cisco DNA Center Event History interface. On the left, a slide-in pane shows the 'API Summary' with a 'Total APIs' gauge set to 2. Below this, 'Completed Call Performance' is shown with a table of API metrics. The main area is titled 'Event History' and contains a table of event records. The table has the following columns: Source, Destination, ITSM Workflow, ITSM Status, ITSM ID, ITSM Link, ITSM Last Updated Time, ITSM Entity Severity/Priority, and DNA Event Severity. There are four records listed, showing events between Cisco DNA Center and ServiceNow.

Source	Destination	ITSM Workflow	ITSM Status	ITSM ID	ITSM Link	ITSM Last Updated Time	ITSM Entity Severity/Priority	DNA Event Severity
ServiceNow	Cisco DNA Center	Incident	Resolved	INC0011958	https://ven03180.service-now.com/new_to.do?uri=incident.do?sys_id=b0badf57dba78410bd9a41f6e69619cc	March 19th 2020, 9:55:00 pm	5 - Planning	2
Cisco DNA Center	ServiceNow	Incident	New	NA	NA	March 19th 2020, 9:53:59 pm	NA	2
ServiceNow	Cisco DNA Center	Incident	New	INC0011958	https://ven03180.service-now.com/new_to.do?uri=incident.do?sys_id=b0badf57dba78410bd9a41f6e69619cc	March 19th 2020, 9:53:59 pm	5 - Planning	2
Cisco DNA Center	ServiceNow	Incident	NA	NA	NA	March 19th 2020, 9:50:27 pm	NA	2

The following information is displayed about that single event:

- **Source:** Location from where event originated (for example, the Cisco DNA Center platform or DNACP).
- **Destination:** Location for where the event was directed to. For example, the REST Endpoint.
- **ITSM Workflow:** Type of ITSM workflow (for example, an **Incident** or **Problem**).
- **ITSM Status:** Current status of the event. For example, an event can have a status of **Open**, **New**, or **Resolved**.
- **ITSM ID:** ITSM event identification number.
- **ITSM Link:** Link to the ITSM (ServiceNow).
- **ITSM Last Updated Time:** Last date and time of event update.
- **ITSM Entity Severity/Priority:** ITSM severity or priority assigned to the event.
- **Event Severity:** Cisco DNA Center severity assigned to the event (1 through 5).

To close the slide-in pane and return to the previous window, click the event link at the top left of the window.

To close the slide-in pane in the new window and return to the **Runtime Dashboard**, click the link at the top left again.

Step 8

(Optional) Click the **ITSM Link** to open up and access the ITSM program (ServiceNow Service Management GUI) and specific incident.

Figure 5: ServiceNow Incident

The screenshot shows the ServiceNow Incident form for incident INCO011945. The form includes the following fields and values:

- Number: INCO011945
- Caller: Cisco Employee 1001
- Category: Inquiry / Help
- Subcategory: -- None --
- Business service: (empty)
- Configuration item: (empty)
- Contact type: -- None --
- State: In Progress
- Impact: 4
- Urgency: 4
- Priority: 5 - Planning
- Assignment group: (empty)
- Assigned to: (empty)
- Short description: Device name:'CSR_REG_4.cisco.com' at site:'Global/Bangalore/Electronic city' - BGP peering with neighbor '1.1.1.1' failed due to Autonomous System (AS) Number m
- Description: (empty)

Below the form, there are tabs for Notes, Related Records, Closure Information, and Cisco DNA. The Cisco DNA tab is currently selected, showing a Watch list and Work notes list.

Note For the **Runtime** event link to ITSM program to be operational, you must follow the procedures to set up the Cisco DNA Center platform to ServiceNow integration as described in the *Cisco DNA Center ITSM Integration Guide*.

Step 9 (Optional) Click the **Cisco DNA** tab in the ServiceNow Service Management GUI to review details about the event.

Figure 6: Cisco DNA Tab

The screenshot shows the ServiceNow Incident form for incident INCO011945, with the Cisco DNA tab selected. The Cisco DNA tab displays the following information:

- Cisco DNA Network UserID: (empty)
- Cisco DNA Event Domain: -- None --
- Cisco 360 View: <https://xxxxxx.cisco.com/dna/assurance/home/networkDevice/bcc81f6-f1ac-4f71-9b7c-413aa2e056d8>

The following information is available from the **Cisco DNA** tab:

- **Cisco DNA Network UserID**
- **Cisco 360 View**
- **Cisco DNA Network Details**

- Cisco DNA Event Domain
- Cisco DNA Event Details and Suggested Actions
- Cisco DNA Event ID
- Approval Status

What to do next

Review the additional Cisco DNA Center platform data displayed in the **Runtime Dashboard**.

Retry an ITSM Event

You can retry (resend and reprocess) an ITSM event from the Cisco DNA Center platform to an ITSM (ServiceNow). You retry an individual ITSM event in the **Event Summary** fields of the Cisco DNA Center GUI.

Figure 7: Retry Icon Within ITSM Event

The screenshot shows the Cisco DNA Center interface. On the left, there's a sidebar with 'API Summary' and 'Integration Flow Summary'. The main area displays 'BGP Tunnel Connectivity (1)' with a 'Last 1 week' filter. A table of events is shown, with one event selected. A 'Retry' icon is visible above the table. The event details are as follows:

Event Id	Source	Destination	ITSM Workflow	ITSM Status	ITSM Id	ITSM Link	ITSM Last UpdatedTime	ITSM
2c15ca52-7f0c-42ae-b673-3ae1a27be440	ServiceNow	Cisco DNA Center	Incident	Resolved	INC0011958	https://serv03180.servicenow.com/nav_to.do?uri=incident.do?sys_id=85baed57dba78410b0a411fa6d9619cc	March 19th 2020, 9:55:00 pm	5 - 1

The **Event Summary** window in **Runtime Dashboard** displays the total number of events that are published to external systems, based on the type of event. You use the **Event Summary** to help monitoring and troubleshooting the Cisco DNA Center platform and its integration with other systems.

Before you begin

For the **Event Summary** field to display events, you must enable, configure, and activate the bundles in **Bundles**. Also, you must enable associated event notifications for the bundles in **Event Settings**.

Step 1 Click the menu icon (☰) and choose **Platform** > **Runtime Dashboard**.

Step 2 Choose a time interval for the event summary by clicking **Last 1 Week** at the upper right side of the GUI menu bar.

You can view the event summary for the last 6, 12, and 24-hour period or for the week.

Step 3 Review the **Event Summary** field in the **Runtime Dashboard** window.

The following information is displayed for any current events:

- **Events Published:** Total number of events that are captured and published (displayed in the GUI) by the Cisco DNA Center platform.
- **Event Severity:** Event totals by severity number (1–5).
- **Count:** Number of events.
- **Events:** List of events by domain (category), event name (links), and count (number of events).

Note Scroll down to view the entire list by using the scroll bar at the right of the field.

Step 4 Click an ITSM event name (link) to view more detailed data.

As an example, if the ITSM event **SWIM Upgrade Request Creation Image Activation** exists in your GUI window click the link.

After clicking an event name (link), a slide-in pane opens.

Step 5 Review a list of this type of event (history) in the slide-in pane.

Figure 8: Event History

Event Id	Source	Destination	ITSM Workflow	ITSM Status	ITSM Id	ITSM Link	ITSM Last UpdatedTime	ITSM
2c15cd27-f7cc-40ae-be73-3ae1a27be440	ServiceNow	Cisco DNA Center	Incident	Resolved	INC0011958	https://ven03180.service-now.com/inc_30.do?sysparmincident_id=7496_42-b05aed97-dba754110b5a41f6689619cc	March 19th 2020, 9:55:00 pm	5 - I

Individual events are listed displaying the following information:

- **Event ID:** Cisco DNA Center event identification number generated by Cisco DNA Center .
- **Source:** Location from where event originated. For example, the Cisco DNA Center platform (DNACP) or an ITSM system (ServiceNow).
- **Destination:** Location for where the event was directed to. For example, the Cisco DNA Center platform (Cisco DNA Center) or an ITSM system (ServiceNow).
- **ITSM Workflow:** Type of ITSM workflow (for example, an **Incident** or **Problem**).

- **ITSM Status:** Current status of the event. For example, an event can have a status of **Open**, **New**, **Closed**, **N/A** or, **Resolved**.
- **ITSM ID:** ITSM event identification number generated by the ITSM (ServiceNow).
- **ITSM Link:** Link to ITSM server for the ITSM event.
- **ITSM Last Updated Time:** Last date and time of event update.
- **ITSM Entity Severity/Priority:** ITSM severity or priority that is assigned to the event.
- **Event Severity:** Cisco DNA Center severity that is assigned to the event (1–5).

You can adjust the events that are displayed in the table by clicking the **Filter** icon and using the filter, or by entering a keyword in the **Find** field.

Step 6 Determine what ITSM events must be resent and reprocessed.

If an ITSM event displays **N/A** as a value for **ITSM Workflow**, **ITSM Status**, or **ITSM ID** (and the source of the event is ServiceNow and the destination of the event is Cisco DNA Center), this indicates an issue that would require a retry attempt. Also, a check box appears under the **Filter** column for an ITSM event that requires a retry attempt.

Step 7 Check the check box in the **Filter** column to select an ITSM event and enable the **Retry** button.

Step 8 Click **Retry**.

Figure 9: Retry ITSM Event Icon

Event Id	Source	Destination	ITSM Workflow	ITSM Status	ITSM Id	ITSM Link	ITSM Last UpdatedTime	ITSM
2c15ca82-f7cc-40ae-ba73-3ae1a2ba440	ServiceNow	Cisco DNA Center	Incident	Resolved	INC0011958	https://www03180.service-now.com/new_to.do?uri=incident.do?sys_id=b0baed57dba78410b5e41fa689613cc	March 19th 2020, 9:55:00 pm	5 - 1

After the event is resent to the ITSM destination, one of the following occurs:

- **Retry Success:** Appropriate values display in the **ITSM Workflow**, **ITSM Status**, and **ITSM ID** columns for the event. For example, *RFC* in the **ITSM Workflow** column, *New* in the **ITSM Status** column, and an alphanumeric ID for the **ITSM ID**.
- **Retry Failure:** If the event retry fails, then the ITSM event will still display **N/A** as a value for **ITSM Workflow**, **ITSM Status**, or **ITSM ID**. See the following step for working with a second retry failure.

Step 9 (Optional) After another retry failure, in the Cisco DNA Center GUI, click the menu icon (☰) and choose **Platform > Developer Toolkit > APIs > Ecosystem Integrations > ITSM > Get Failed ITSM Events**.

Access this API method to retrieve information about the ITSM integration failure.

Step 10 Click **Try It** and enter the instance ID (**instanceId**) of the failed event from the **Runtime Dashboard**.

Step 11 Click **Run**.

The following response data can be retrieved using this API:

- **eventStatus**: ITSM (ServiceNow) event status
- **errorCode**: ITSM (ServiceNow) event error code
- **errorDescription**: Description of the ITSM (ServiceNow) event error
- **responseReceivedFromITSMSystem**: ITSM (ServiceNow) response

Use the information retrieved by the API to understand and correct the event failure.

What to do next

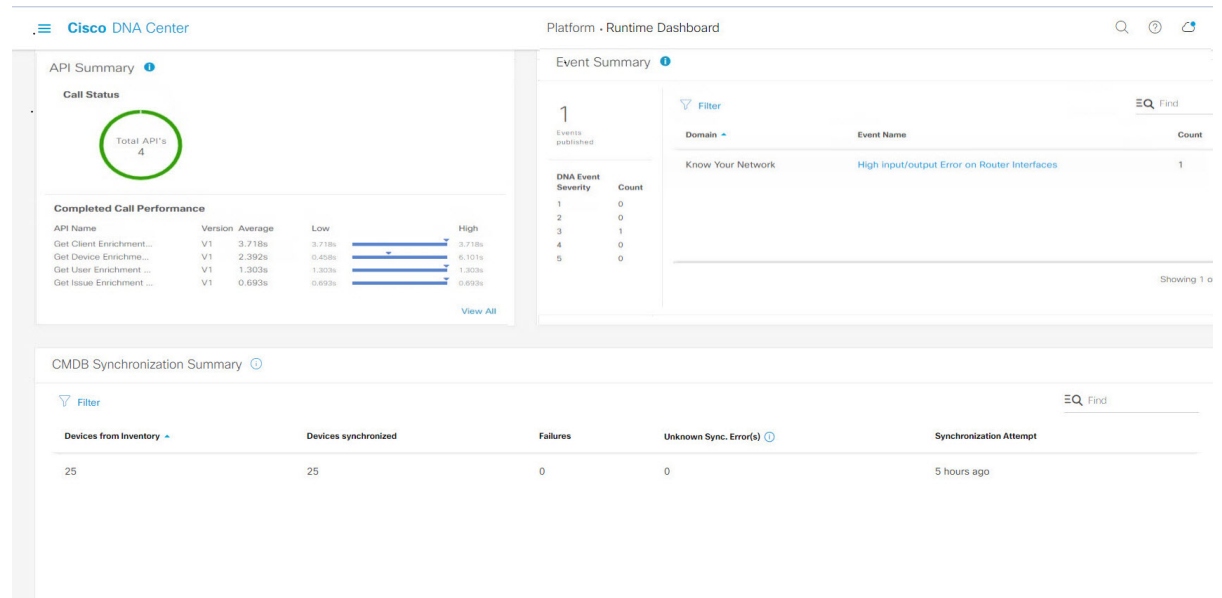
Retry (resend and reprocess) any other ITSM events, if necessary.

Review the API Summary

Perform this procedure to review the Cisco DNA Center platform **API Summary**. The **API Summary** displays the total number of API calls, API call duration, and API call status. You can use this data to assist in monitoring performance of the Cisco DNA Center platform APIs. This information can be helpful when monitoring or troubleshooting Cisco DNA Center platform and its integration with other systems.

You review the **API Summary** using the **Runtime Dashboard** window in the Cisco DNA Center GUI.

Figure 10: Cisco DNA Center Platform Runtime Dashboard Window



Before you begin

For the **API Summary** field to display events, you need to enable, configure, and activate the bundles that provide the events to monitor in **Bundles**. For information about **Bundles** see [Bundle Features](#).

- Step 1** Click the menu icon (☰) and choose **Platform > Runtime Dashboard**.
- Step 2** Choose a time interval for the API summary by clicking **Last 1 Week** at the upper right side of the GUI menu bar. You can view the API summary for the last 6, 12, and 24 hour period or for the week.
- Step 3** Review the **API Summary** field.
- The **API Summary** field displays the following information:
- **Call Status:** Total number of API calls and status display. The color green represents the successful API calls and the color red represents the unsuccessful API calls.
 - **Completed Call Performance:** List of API calls in alphabetical order with completed call performance in seconds (Low, Average, High).
 - **View Details:** Link to view additional API details.
- Step 4** Click **View Details** to review additional details about the APIs.
- The **All APIs calls** slide-in pane opens.
- Step 5** Review the information in the **All APIs calls** slide-in pane.
- The following information is displayed:
- API by name.
 - API version.

- API call count table, that includes the total number of API calls, number of successful API calls (green icon), and number of unsuccessful API calls (red icon).
- API call duration table that includes minimum, maximum, and average duration.

You can adjust the APIs that are displayed in the tables by clicking the **Filter** icon and using the filter, or by entering a keyword in the **Find** field.

What to do next

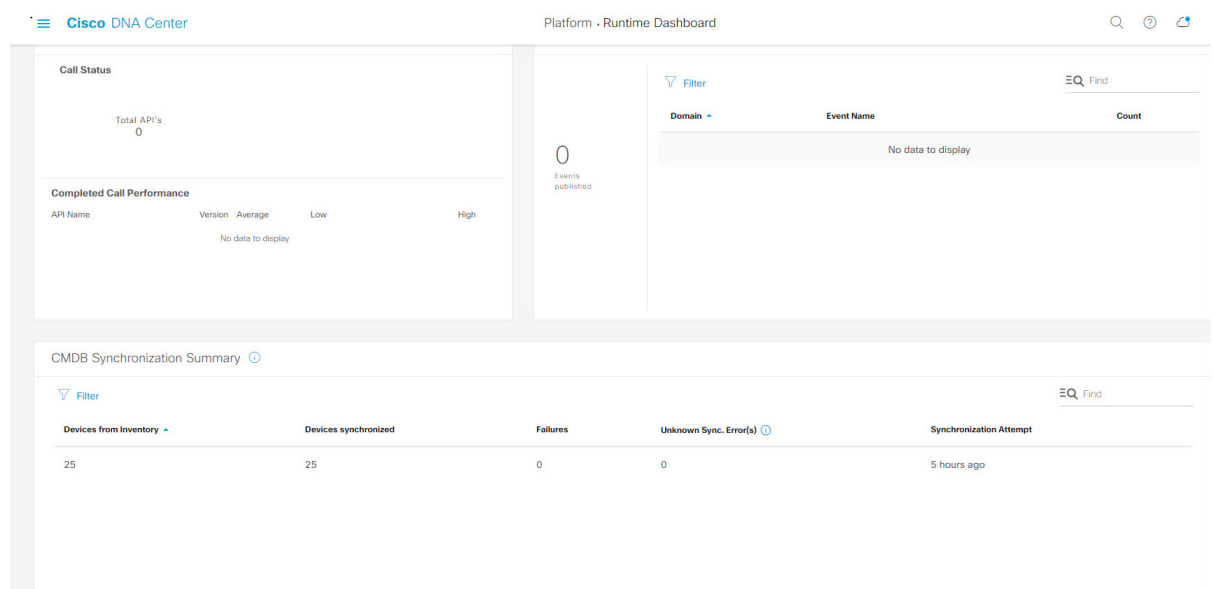
Review the additional Cisco DNA Center platform data displayed in the **Runtime Dashboard**.

Review the CMDB Synchronization Summary

Perform this procedure to review the Cisco DNA Center platform **CMDB Synchronization Summary**. The **CMDB Synchronization Summary** displays the synchronization status of inventory device data to ServiceNow. You can use the summary to help monitor and troubleshoot device data synchronization with ServiceNow.

You review the **CMDB Synchronization Summary** using the **Runtime Dashboard** window in the Cisco DNA Center GUI.

Figure 11: Cisco DNA Center Platform Runtime Window



Before you begin

For the **CMDB Synchronization Summary** field to display events, you must enable, configure, and activate the bundles in **Bundles**. Additionally, you must enable associated event notifications for the bundles in **Event Settings**. For information about **Bundles**, see [Bundle Features](#). For information about **Event Settings**, see [Configure Event Settings](#).

Step 1 Click the menu icon (☰) and choose **Platform > Runtime Dashboard**.

Step 2 Review the **CMDB Synchronization Summary** field, which displays the following information:

- **Devices from inventory:** Total number of devices from **Inventory** collected from Cisco DNA Center.
- **Devices synchronized:** List of devices that were successful synchronized with ServiceNow.
- **Failures:** Number of failed synchronization attempts between Cisco DNA Center and ServiceNow.

Click **Learn More...** for additional information.

- **Unknown Synth Errors:** Number of partially successful synchronization attempts between Cisco DNA Center and ServiceNow

Click **Learn More...** for additional information.

- **Synchronization Attempt:** When the last synchronization attempt was made between Cisco DNA Center and ServiceNow.

Step 3 (Optional) Click the **Learn More** link for any synchronization failure.

Step 4 Review the displayed data about the synchronization failure for the device.

The following information is displayed in a table:

- **Device ID:** Device identification number.
- **Host Name:** Name of the host to which the device is connected to.
- **Device Type:** Type of device, such as a switch, router, or AP.
- **MAC Address:** MAC address of the device.
- **Management IP Address:** Device's management address that can be used to access and troubleshoot the device.
- **Serial Number:** Serial number of the device.

Step 5 Click the **DeviceID** link to review additional information about the device in the **Inventory** window.

What to do next

Review the data displayed by Cisco DNA Center to troubleshoot any synchronization issues between the device and ServiceNow.

Review the additional Cisco DNA Center platform data displayed in the **Runtime Dashboard**.

Review the Integration Flow Summary

Perform this procedure to review the Cisco DNA Center platform **Integration Flow Summary**. You can use the **Integration Flow Summary** to assist in monitoring performance of the Cisco DNA Center platform integration flows. This information can be helpful when monitoring or troubleshooting Cisco DNA Center platform and its integration with other systems.

You review the **Integration Flow Summary** using the **Runtime Dashboard** window in the Cisco DNA Center GUI.

Figure 12: Cisco DNA Center Platform Runtime Dashboard Window

The screenshot displays the Cisco DNA Center Platform Runtime Dashboard. At the top, it shows 'Total API's: 0' and 'Completed Call Performance' with a table that has columns for API Name, Version, Average, Low, and High, but contains no data. Below this is a 'CMDB Synchronization Summary' section with an error message: 'Error occurred while getting CMDB summary.' The main section is the 'Integration Flow Summary', which has two tabs: 'REST-Based (1) | 0 Failed' and 'Schedule-Based (1) | 0 Failed'. The 'REST-Based' tab is selected, showing a table with columns for Domain, Name, Version, Instances (All (#), Success, Fail, In Progress), and Performance (Minimum, Maximum, Average). The table contains one row for 'Integrations' with the name 'Get Asset from DNAC', version 'V1', 9 instances, 0 successful, 0 failed, and 9 in progress. Performance metrics are 0.02s minimum, 0.977s maximum, and 0.143s average.

Before you begin

For the **Integration Flow Summary** fields (two tabs) to display data, you need to enable, configure, and activate the bundles that provide the events to monitor in **Bundles**. For information about **Bundles**, see [Bundle Features](#).

- Step 1** Click the menu icon (☰) and choose **Platform > Runtime Dashboard**.
- Step 2** Choose a time interval for the integration flow summary by clicking **Last 1 Week** at the upper right side of the GUI menu bar.
- You can view the integration flow summary for the last 6, 12, 24 hour period or for the week.
- Step 3** Review the **Integration Flow Summary** field, which displays the following information:
- **REST-Based:** Domain, integration flow name and link, version, instance totals, instance status (successful [green], fail [red], in progress [blue]), and performances (minimum, maximum, and average call performance times, in milliseconds).
 - **Schedule-Based:** Domain, integration flow name and link, version, instance totals, instance status (successful [green], fail [red], in progress [blue]), and performances (minimum, maximum, and average call performance times, in milliseconds).
- Step 4** For a summary of the data generated by REST-based integration flows, click the **REST-Based** tab.
- Step 5** Review the **REST-Based** data.
- Click an integration flow name (link) to view additional information about the instances. The following additional information appears in a slide-in pane:

- **Instance ID:** Identification number (and link) of the instance to the integration flow. You can configure an instance to more than one integration flow.
- **Status:** Status of the instance (success or fail).
- **Start Time:** Start date and time of the instance call.
- **End Time:** End date and time of the instance call.
- **Duration:** Duration of call, in seconds.

Step 6 Click an individual instance ID (link) to view detailed information about it.

The following additional information appears in a slide-in pane:

- **RUN SUMMARY:** Start and end times and dates, time taken, status.
- **ERRORS:** Error responses (if any).
- **LOGS:** Log entries (if available).

Click the **X** icon to close the slide-in pane and return to the previous window.

Step 7 For a summary of the data generated by schedule-based integration flows, click the **Schedule-Based** tab.

Step 8 Review the **Schedule-Based** data.

Click an integration flow name (link) to view additional information about the instances. The following additional information appears in a slide-in pane:

- **Instance ID:** Identification number of the instance within the integration flow.
- **Status:** Status of the instance (success or fail).
- **Start Time:** Start date and time of the instance call.
- **End Time:** End date and time of the instance call.
- **Duration:** Duration of call, in seconds.

Step 9 Click an individual instance ID (link) to view detailed information about it.

The following additional information appears in a slide-in pane:

- **RUN SUMMARY:** Start and end times and dates, time taken, status.
- **ERRORS:** Error responses (if any).
- **LOGS:** Log entries (if available).

Click the **X** icon to close the slide-in pane and return to the previous window.

What to do next

Review the additional Cisco DNA Center platform data displayed in the **Runtime Dashboard**.

