



Cisco Nexus Dashboard Insights
Anomalies and Advisories, Release
6.3.1 - For Cisco NDFC

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New and Changed Information

The following table provides an overview of the significant changes up to the current release. The table does not provide an exhaustive list of all changes or the new features up to this release.

Table 1. New Features and Changed Behavior in the Cisco Nexus Dashboard Insights

Feature	Description	Release	Where Documented
Anomaly Search	You can perform a search for affected objects such as interface, VRF, EPG, BD and view the associated anomalies.	6.3.1	Anomaly Filters
Pin an anomaly	You can pin an anomaly to add a widget for that anomaly to your custom dashboard.	6.3.1	Analyze Anomalies

This document is available from your Cisco Nexus Dashboard Insights GUI as well as online at www.cisco.com. For the latest version of this document, visit [Cisco Nexus Dashboard Insights Documentation](#).

Anomalies

Anomalies

Nexus Dashboard Insights proactively detects different types of anomalies across the network, analyzes the anomalies, and identifies remediation methods.

Nexus Dashboard Insights monitors different sets of data from all nodes in the fabric and baselines the data to identify “normal” behavior. Any deviation is represented as an anomaly. Your time is better spent in resolving the issue instead of tracking the issue. Additionally, it can estimate the impact of the anomaly and generate a recommendation depending on the nature of the anomaly and thus reducing the Mean Time to Troubleshooting and Resolution (MTTR).

Anomalies allow you to:

- Shorten the mean time to resolution for troubleshooting.
- Increase operational efficiency and network availability with proactive monitoring.
- Remediate

The Anomalies displays the anomalies by Level and Category for a particular site based on the selected time range.

- The anomaly levels include Critical, Major, and Warning.
- Some of the categories include Hardware, Capacity, Connectivity, Configuration, Integrations, Active bugs.

Click a particular anomaly to view Information such as What’s wrong, What’s the impact, and How do I fix it.

- What’s wrong? provides problem description with the specific affected objects.
- What’s the impact? explains what will happen if the problem is not fixed.
- How do I fix it? provides prescriptive recommendations.

Anomalies are classified into 4 Levels: Critical, Major, and Warning.

- **Critical:** Anomalies are shown as critical when the network is down. Some of the examples include:
 - When connectivity to a given prefix or endpoint is lost
 - When a site or switch is not operational.
- **Major:** Anomalies are shown as major when connectivity to a given prefix or endpoint could be compromised. Some of the examples include:
 - Overlapping IP addresses or Subnets

- **Warning:** Anomalies are shown as warning when the network is impacted. Some of the examples include:
 - When connectivity to a given prefix or endpoint is degraded

Anomaly Properties

You can configure the following properties on an anomaly.

- Assign an user
- Add tags
- Add a comment
- Set verification status
- Acknowledge an anomaly so that the acknowledged anomalies are not displayed in the Anomalies Table.

To configure properties on an anomaly see [Configuring Anomaly Properties](#).

You can acknowledge anomalies in the following ways:

- Manually acknowledge an anomaly. See [Configuring Anomaly Properties](#).
- Manually acknowledge multiple anomalies. [Analyze Anomalies](#).
- Use alert rules to automatically acknowledge anomalies matching alert rules. See [Creating Anomaly Rules](#).

View Anomalies

In Nexus Dashboard Insights, you can view anomalies in the following ways:

1. Navigate to **Analyze > Anomalies**.

OR

1. Navigate to **Overview > Global View**.
2. Select online sites or snapshot sites from the drop-down menu.
3. Click **Anomalies Level** card.
4. In the Anomalies page, click **View all anomalies**.

OR

1. Navigate to **Operate > Sites**.
2. Select a site.
3. Click **Anomalies**.

OR

1. Navigate to **Operate > Inventory**.
2. Click **Controllers** or **Switches**.
3. Select a controller or switch.
4. Click **Anomalies**.

Analyze Anomalies

1. Navigate to **Analyze > Anomalies**.
2. Select Online sites or Snapshot sites from the drop-down menu.
3. From the Anomalies dropdown menu, select Grouped or Ungrouped.

- The Ungrouped view displays the individual anomalies raised for your sites.
- The Grouped view displays the aggregated view of the anomalies based on the anomaly title.

4. From the Date and Time selector, select the time range. By default, Active Now are displayed.

The Anomalies page displays the anomalies by Level and Category for your sites, based on the selected time range.

- The Level donut chart displays the total number of anomalies of Critical, Major, and Warning severity.
- The category donut chart displays the total number of anomalies by various categories, such as Hardware, Capacity, Connectivity, Configuration, Integrations, and Active bugs.
- For the anomalies displayed for a snapshot site, the anomaly levels are across all snapshots and not just the latest snapshot.

5. Use the search bar to filter the anomalies. You can also perform a search for affected objects such as interface, VRF, EPG, BD and view the associated anomalies. See [Anomaly Filters](#).
6. The Anomalies table displays the filtered anomalies. By default, the anomalies are sorted by Level . Click the column heading to sort the anomalies in the table.

The anomaly status include Active and Cleared. An active state indicates that the anomaly is present in your network. A cleared state indicates that the anomaly is not present in your network anymore and therefore the anomaly is marked cleared.

7. Click the gear icon to configure the columns in the Anomalies table.

By default, the columns Title, Level, Category, and Count are displayed for Grouped Anomalies.

By default, the columns What's wrong, Level, Category, Site, and Detection Time are displayed for Ungrouped Anomalies.

8. Click an anomaly to view additional details such as What's wrong?, What's the impact?, and How do I fix it?.

- What's wrong? provides problem description with the specific affected objects.
- What's the impact? explains what will happen if the problem is not fixed.
- How do I fix it? provides prescriptive recommendations.

9. From the Anomalies dropdown menu, select Ungrouped.
 - a. Select anomalies from the Anomalies table and click Acknowledge Anomalies to acknowledge anomalies.
 - b. You can also click an anomaly and in the Anomaly page select Acknowledge Anomaly from the Actions menu.
 - c. By default all the unacknowledged anomalies are displayed in the anomalies table. Once you acknowledge an anomaly, select Acknowledged from the drop-down list to view all the acknowledged anomalies.
10. Click an anomaly to view the Anomaly page. Click the bookmark icon to bookmark the anomaly.
11. Click an anomaly to view the Anomaly page. Click the pin icon to pin the anomaly. You can pin an anomaly to add a widget for that anomaly to your custom dashboard.

Guidelines and Limitations

- In the following scenarios, anomalies are not displayed in the Anomalies page.
 - Anomalies which belong to the category "System" are not displayed in the Anomalies page by default.
 - When there is any collection or login failure, in the **Admin > System Settings > System Status Details** page, Assurance status is displayed as Healthy. At the same time, in the **Admin > System Settings > System Issues** page, anomalies related to any collection or login failure are not displayed.

To view the anomalies, perform the following steps:

1. To view these anomalies, Navigate to **Analyze > Anomalies**.
 2. Select **Online Sites** from the drop-down list.
 3. Select **Ungrouped** from the All Anomalies drop-down list.
 4. Use the search bar to filter on category == system. All system anomalies are displayed in the anomalies table.
- For any site, the data is purged in either of the following scenarios:
 - After the thirty day retention period

- When the storage threshold is reached

As a result, the anomalies and advisories for that site are not displayed. You have to rerun the analysis to view the anomalies and advisories.

Configuring Anomaly Properties

Use the following procedure to configure properties on an anomaly.

1. Navigate to **Analyze > Anomalies**.
2. Select Online sites or Snapshot sites from the drop-down menu.
3. From the Anomalies dropdown menu, select **Ungrouped**.


The Ungrouped view displays the individual anomalies raised for your sites.

4. From the Date and Time selector, select the time range. By default, Active Now are displayed.
5. Click an anomaly from the table and then select a property from the **Actions** menu.
 - a. Select **Acknowledge** to acknowledge an anomaly. By default all the unacknowledged anomalies are displayed in the anomalies table. Once you acknowledge an anomaly, select Acknowledged from the drop-down list to view all the acknowledged anomalies.
 - b. Select **Verification Status** to set a user defined status such a New, In Progress, or Closed to an anomaly. Select a status from the drop-down list and click **Save**.
 - c. Select **Assigned To** to assign an anomaly to a user. Enter the username and click **Save**.
 - d. Select **Comment** to assign a comment to an anomaly. Enter a comment and click **Save**.
 - e. Select **Add Tags** to add user-defined tags to an anomaly. Enter the tag name and click **Save**. You can enter multiple tags. After entering the tag name, press Enter.

In the **Anomalies** table, the properties assigned to an anomaly are displayed in the User State column.

6. To acknowledge multiple anomalies, select anomalies. Click **Acknowledge anomalies**.

NOTE:

- When you acknowledge an anomaly using the **Actions** menu, it will override any of the properties you have configured on an individual anomaly using the  icon in the **Anomalies** table.
- You must refresh the timeline range to view the configured properties on an anomaly.
- All the properties configured on an anomaly are only applicable to future analysis.
- To view an active anomaly for Snapshot site analysis, you must select the time range when the analysis was created.

Anomaly Filters

The search bar allows you to filter the anomalies. In the Anomalies page, you can use the following filters in the ungrouped view to refine the displayed anomalies:

- Title - Display anomalies with a specific title.
- Level - Display anomalies of a specific level.
- Assigned To - Display anomalies assigned to a specific user.
- Site - Display anomalies for a specific site.
- Detection Time - Display anomalies with a specific detection time.
- Cleared Time - Display anomalies with a specific cleared time.
- Last Seen Time - Display anomalies with a specific last seen time. Last Seen Time indicates the time the anomaly was updated while under active status. If the status of the anomaly is not cleared, then the anomaly is active.
- Check code - Display anomalies with a specific check code.
- Category - Display anomalies from a specific category.
- Nodes - Display anomalies for specific nodes.
- What's Wrong - Displays anomalies of a specific affected object.
- Verification Status - Display anomalies with a specific verification status.
- IP address - Display anomalies with a specific IP address.
- MAC address - Display anomalies with a MAC address.
- Interface - Display anomalies with a specific interface.
- VPC - Display anomalies with a specific VPC.
- EPG - Display anomalies with a specific EPG.
- VRF - Display anomalies with a specific VRF.
- BD - Display anomalies with a specific BD.

As a secondary filter refinement, use the following operators:

- == - with the initial filter type, this operator, and a subsequent value, returns an exact match.
- != - with the initial filter type, this operator, and a subsequent value, returns all that do not have the same value.
- contains - with the initial filter type, this operator, and a subsequent value, returns all that contain the value.
- !contains - with the initial filter type, this operator, and a subsequent value, returns all that do not contain the value.



To search for anomalies using a combination of affected object filters (such as IP address, MAC address, interface, VPC, EPG, VRF), all the provided search objects should be a primary affected object for any given anomaly. The search will not return results if the query contains non primary affected objects.

1. To determine the primary affected object for a particular anomaly, navigate to **Analyze Anomalies**.
2. Select **Ungrouped** from the drop-down menu.
3. Select an anomaly from the the Anomalies table.
4. In the What's the impact? area, the primary affected objects are highlighted in bold.

Anomaly Rules

Anomaly Rules

Anomaly rules feature enables you to acknowledge all new detected anomalies that match the criteria and adjust the anomaly score accordingly. You can also match an alert against an anomaly rule using the match criteria.

It also allows you to customize an anomaly by adding a custom message that will be displayed when an anomaly is raised based on the anomaly rule.

- An anomaly rule contains the match criteria required to match an anomaly against the rule and the action that should be applied on the matched anomaly.
- An anomaly rule can contain multiple match criteria.
- You can use attributes such as severity, category, event name, and object match rule, to define the match criteria for the anomaly rule.
- A match criteria can contain one attribute or multiple attributes.
 - If a match criteria contains multiple attributes, then the anomalies containing all the attributes will be matched. The **AND** operator will apply to the attributes.
 - If a match criteria contains multiple affected object match rules, then the anomalies containing all of the affected object match rules will be matched.
- If an anomaly rule contains multiple match criteria, then the anomalies containing the union of the match criteria will be matched. Any anomalies that match any criteria will apply to the rule. The **OR** operator will apply to the criteria.
- Anomaly Rules using **Match Criteria** with **Object Match Rule** will only support the **Equals to** regex criteria.
- An Anomaly rule can be enabled only if it contains at least one match criteria.
- Anomaly rules are not supported for advisories.

Guidelines and Limitations

- Deleting or disabling an anomaly rule containing either **Acknowledge** or **Customize Anomaly** action will not delete or disable the anomaly rule from active anomalies. The anomaly rule will be not be applied to any new instance of the anomaly only.
- When you edit an anomaly rule containing either Acknowledge or Customize Anomaly action, the updates are not applied to active anomalies. The anomaly rule updates will be applied to any new instance of the anomaly only.
- If an anomaly rule contains both Acknowledge and Customize Anomaly action, and you edit the anomaly rule by removing either the Acknowledge and Customize Anomaly action, then the updates are not applied to active anomalies.
- When you delete or disable an anomaly rule containing **Customize Anomaly** action, the recommendations are still displayed in the **How do I fix it** area.

- You can only manually unacknowledge anomalies, including those that are automatically acknowledged by an anomaly rule. You cannot automatically unacknowledge these anomalies by disabling or deleting the anomaly rules.
- Maximum anomaly rules supported across all sites is 500.
- In the following scenario, you cannot use an alert rule to automatically acknowledge existing active anomalies matching the match criteria by selecting the **Apply to existing active anomalies** check-box in the **Create Anomaly Rule** page.
 - An anomaly is raised before the alert rule is created and there are no further updates to the anomaly after the alert rule is created.

In this scenario, you can manually acknowledge the anomalies. See [Configuring Anomaly Properties](#).

- After upgrading to this release, some anomaly rules may be updated or deleted. You can manually add these rules after the upgrade based on the new categories and severity.

Creating Anomaly Rules

1. Navigate to **Configure > Rules > Anomaly Rules**.
2. Click **Create Anomaly Rule**.
3. Complete the following fields for **General**.
 - a. In the **Name** field, enter the name.
 - b. In the **Description** field, enter the description.
 - c. Choose the state to enable the rule to be active.

If the state is enabled, the rule will be applied in the next analysis. If the state disabled, the rule will not be applied during the next analysis.

- d. Click **Next**.
4. Complete the following fields for **Settings**.
 - a. Click **Add Criteria** to define the match criteria for the anomaly rule.
 - b. From the **Site** drop-down list, select the site. Only the match criteria for the site running the analysis will be selected and matched with the alerts to perform the action.
 - c. Select the attributes for the match criteria. You can use category, event title, object match rule, code rule, and severity to define the attribute for the match criteria. Select category and event title from the drop-down list.
 - d. Click **Add Object Match Rule** to define the primary affected objects for the match criteria.

If multiple affected objects are included in the match criteria, then the anomalies containing all the affected objects will be matched. If an anomaly rule contains multiple match criteria, then the anomalies containing the union of the match criteria will be matched.

- e. Click **Add Code Rule** to define the check code for the match criteria.
 - f. Select severity from the drop-down list.
 - g. Click **Save**.
5. Complete the following fields for **Actions**.
- a. Use toggle to choose **Acknowledge**.

Acknowledge enables you to acknowledge all new detected anomalies that match the criteria and adjust the anomaly score accordingly.

- i. Check **Apply to existing active anomalies** check-box to apply the anomaly rule to existing instance of the anomalies matching the alert anomaly. Uncheck the check-box to apply the anomaly rule to match to new instance of anomalies.
- b. Use toggle to choose **Customize Anomaly**.


Customize Anomaly allows you to customize an anomaly by adding a custom message that will be displayed when an anomaly is raised based on the anomaly rule.

- i. Enter the recommendations to be displayed in the anomaly rule. You can create multiple rules based on different matching criteria to have more than one customized recommendation displayed in the anomaly rule. In the Anomaly page, the recommendations are displayed in the **How do I fix it?** area.
 - ii. Check **Apply to existing active anomalies** check-box to apply the anomaly rule to existing instance of the anomalies matching the anomaly rule. Uncheck the check-box to apply the anomaly rule to match to new instance of anomalies.
6. In the **Summary**, review your selections and click **Add Anomaly Rule**. The new anomaly rule is displayed in the **Anomaly Rule** table.


Managing Anomaly Rules

1. Navigate to **Configure > Rules > Anomaly Rules**. The anomaly rules are displayed in the **Anomaly Rule** table.
2. Use the search bar to filter the rules based on Name, Actions, and State.
3. Select an anomaly rule and click **Edit Rule** to edit.
4. Select an anomaly rule and click **Delete Rule** to delete the rule from the system.

5.

Select an anomaly rule and click  icon. Click **Enable** to enable the rule. If the state is enabled, the rule will be applied in the next analysis. Before enabling an anomaly rule make sure that at least one match criteria is present in the anomaly rule.

6.

Select an anomaly rule and click  icon. Click **Disable** to disable the rule. If the state disabled, the rule will not be applied during the next analysis.

Advisories

Advisories

Nexus Dashboard Insights identifies Field Notices, software and hardware End-of-Life and End-of-Sale announcements, as well as PSIRTs that can potentially impact the network sites that it is monitoring, and generate advisories. Advisories provides recommendations to keep your network under support and running in optimal conditions.

Advisories in Nexus Dashboard Insights provide details of relevant impact via Field Notices, PSIRTs, EoL/EoS of Hardware and Software, and Best Practices. You can view the advisories by Level and Category for a particular site based on the selected time range.

Click a particular advisory to view Information such as What's wrong, What's the impact, and How do I fix it.

- What's wrong? provides problem description with the specific affected objects.
- What's the impact? explains what will happen if the problem is not fixed and includes End-of-Sale key dates.
- How do I fix it? provides prescriptive recommendations.

Advisories enable you to stay current with,

- New software and hardware availability
- Hardware and software EoS and EoL announcements. You also get lead time for upgrades.
- PSIRTs and Field Notices. This helps you stay secure and compliant.
- Instant visibility into applicable bugs

Advisories are classified into 4 Levels: Critical, Major, and Warning.

- **Critical:** Advisories are shown as critical when there are unsupported infrastructure and the severity of the bugs associated with notices is Severity1. Some of the examples include:
 - When switches in a site are running under End-of-Life conditions. When a critical (Severity1) Field Notice or PSIRT has been issued for a switch or software version currently running in your network.
- **Major:** Advisories are shown as major when the severity of the bugs associated with notices is Severity2. Some of the examples include:
 - When a critical (Severity2) Field Notice or PSIRT has been issued for a switch or software version currently running in your network.
- **Warning:** Advisories are shown as warning when there is support for potentially at risk infrastructure and the severity of the bugs associated with notices is Severity3. Some of the examples include:
 - When switches in a site are approaching End-of-Life conditions. When a Severity3 Field

Notice or PSIRT has been issued for a switch or software version currently running in your network.

View Advisories

In Nexus Dashboard Insights, you can view advisories in the following ways:

1. Navigate to **Analyze > Advisories**.

OR

1. Navigate to **Overview > Global View**.
2. Select online sites or snapshot sites from the drop-down menu.
3. Click **Advisories Level** card.
4. In the Advisories page, click **View all advisories**.

OR

1. Navigate to **Operate > Sites**.
2. Select a site.
3. Click **Advisories**.

OR

1. Navigate to **Operate > Inventory**.
2. Click **Controllers** or **Switches**.
3. Select a controller or switch.
4. Click **Advisories**.

Analyze Advisories

1. Navigate to **Analyze > Advisories**.
2. Select Online sites or Snapshot sites from the drop-down menu.
3. Click the Date and Time selector to select the time range.

The Advisories page displays the advisories by Level and Category for your account based on the selected time range.

- The Level donut chart displays the total number of advisories of Critical, Major, and Warning severity.
- The category donut chart displays the total number of advisories by category such as PSIRT, Field Notice, HW EoL, SW EoL, and Best Practices.
- For the advisories displayed for a snapshot site, the advisory levels are across all snapshots and not just the latest snapshot.

4. Use the search bar to filter the advisories.
5. The Advisories table displays the filtered advisories. The advisories are sorted by Level by default. Click the column heading to sort the advisories in the table.

The advisory status include Active and Cleared. An active state indicates that the advisory is present on your network. A cleared state indicates that the advisory is not present on your network anymore and therefore the advisory is marked cleared.

6. Click the gear icon to configure the columns in the Advisories table. By default, the columns Title, Level, Category, Site, and What's Impacted, are displayed.
7. Click an advisory to view the additional details such as What's wrong?, What's the impact?, and How do I fix it?.

- What's wrong? provides problem description with the specific affected objects.
- What's the impact? explains what will happen if the problem is not fixed and includes End-of-Sale key dates.
- How do I fix it? provides prescriptive recommendations.

8. Select advisories from the Advisory table and click Acknowledge Advisories to acknowledge advisories.

- a. You can also click an advisory and in the Advisory page select **Acknowledge Advisory** from the Actions menu.

By default all the unacknowledged advisories are displayed in the advisories table. Once you acknowledge an advisory, select **Acknowledged** from the drop-down list to view all the acknowledged advisories.

9. Click an advisory to view the Advisory page. Click the bookmark icon to bookmark the advisory.
10. Click an advisory to view the Advisory page. Click the pin icon to pin the advisory.

Advisory Filters

The search bar allows you to filter the advisories. In the Advisories page, you can use the following filters to refine the displayed advisories:

- Title - Display advisories with a specific title.
- Level - Display advisories of a specific level.
- Detection Time - Display advisories with a specific detection time.
- Last Seen time - Display only advisories with a specific last seen time. Last Seen Time indicates the time advisory was updated while under active status. If the status of the advisory is not cleared, then the advisory is active.
- Category - Display advisories from a specific category.
- Site - Display advisories for a specific site.
- Nodes - Display advisories for specific nodes.
- What's wrong? - Display advisories of a specific affected object.

As a secondary filter refinement, use the following operators:

- **==** - with the initial filter type, this operator, and a subsequent value, returns an exact match.
- **!=** - with the initial filter type, this operator, and a subsequent value, returns all that do not have the same value.
- **contains** - with the initial filter type, this operator, and a subsequent value, returns all that contain the value.
- **!contains** - with the initial filter type, this operator, and a subsequent value, returns all that do not contain the value.

Metadata Support

Nexus Dashboard Insights uses metadata bundles to detect new bugs, PSIRTs, Field Notices, and End of Life Notices. Metadata packages are constantly updated by us and posted to the Cisco Intersight Cloud after validation. Nexus Dashboard Insights connects to the Cisco Intersight Cloud through a device connector that is embedded in the Nexus Dashboard platform and that pulls periodically updated metadata packages. With metadata support for air-gap environment, if Nexus Dashboard is not connected to Cisco Intersight Cloud, you can manually upload the latest metadata to Nexus Dashboard Insights in a secure and trusted way. You can download the bundle updates from the [Cisco DC App Center](#).

Navigate to **Admin > System Settings > Metadata** to view the metadata version.

- In the General area, the Metadata Version is displayed.
- In the Update Metadata Version area, you can upload metadata for air-gapped environments.

Metadata Support for Air-Gap Environment

With metadata support for air-gap environment, if Nexus Dashboard is not connected to Cisco secure cloud, you can upload the latest metadata to Nexus Dashboard Insights periodically in a secure and trusted way.

You can download the encrypted metadata file from the Cisco DC App Center and upload it to Nexus Dashboard Insights to get decrypted updates on exposure to Bugs, PSIRTs, Defects, Field Notices, and End of Life Notices.

Update Metadata Version

Use this procedure to update the latest metadata version in an Air-Gap or offline environment.

1. Log in to [Cisco DC App Center](#).
2. From the User drop-down menu, select **My Account**.
3. Click **Config Files Requests** tab.
4. Click **Request Config File**.
5. From the **Choose App ID** drop-down list, select Nexus Dashboard.

Request for Config File

Choose App Name:

Nexus Dashboard Insights

Min App Version Supported: 6.1.1

Cancel

Request

6. Verify the minimum supported app version and click **Request**.

It takes approximately 15 minutes for the request to be completed. In the Config Files Request page, the generated file is displayed in the table below.

7. Select the file and click **Download** to download the file locally.

Request Id	App Name	Created At	Last Update	Status	Version	Link
2	Nexus Dashboard Insights	2022-02-25 17:47:16	2022-02-25 17:48:26	Processed	22	Download

8. Log in to Cisco Nexus Dashboard Insights.
9. Navigate to **Admin > System Settings > Metadata** to view the metadata version.
10. In the Update Metadata Version area, upload the file you have downloaded from the Cisco DC App Center.
11. Click **Done** to upload the latest metadata.

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