Release Notes for Cisco Crosswork Planning, Release 7.2.0

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Cisco Crosswork Planning, Release 7.2.0

This document provides information about Cisco Crosswork Planning 7.2.0, including product overview, new features and functionality, known issues and limitations, compatibility information and further release details.

Overview

Cisco Crosswork Planning provides tools to create and maintain a model of the current network through the continuous monitoring and analysis of the network, and the traffic demands that are placed on it. At a given time, this network model contains all relevant information about a network, including topology, configuration, and traffic information. You can use this information as a basis for analyzing the impact on the network due to changes in traffic demands, paths, node and link failures, network optimizations, or other changes.

Components

Cisco Crosswork Planning comprises these two components:

- **Cisco Crosswork Planning Collector**: This component consists of a set of services that create, maintain, and archive a model of the current network. It achieves this through continual monitoring and analysis of the network and the traffic demands placed on it.
- **Cisco Crosswork Planning Design**: This component helps network engineers and operators predict growth in their network, simulate failures, and optimize the network design to meet performance objectives while minimizing cost.

New software features

This section provides a brief description of the new software features introduced in this release.

Table 1. New software features for Cisco Crosswork Planning, Release 7.2.0

Product impact	Feature	Description
Ease of use	Add-ons support	Cisco Crosswork Planning now supports add-ons, which are customizable components designed to extend the functionality of the Cisco Crosswork Planning Design UI. Add-ons enable you to address specific requirements by providing additional features and integrations beyond the base installation. Key features include: • The ability to run scripts in the same manner as other tools, with generated output plan files and reports available for review. • Invocation of Python executable scripts that can modify network models. These scripts are executed as asynchronous jobs, with results viewable within the Cisco Crosswork Planning Design interface. For more information on configuring add-ons, see the *"Manage Add-ons" chapter in the "Cisco Crosswork Planning Design 7.2.x User Guide".*
	Support for importing .db plan files	You can now import plan files with a .db extension into user space.

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Product impact	Feature	Description
	Topology view enhancements	• **Utilization color profiles**: Crosswork Planning now allows you to edit link colors for different traffic utilization ranges. You can now define multiple link utilization coloring threshold profiles. For more information, see the *"Utilization color profiles" section in the "Cisco Crosswork Planning Design 7.2.x User Guide"*. • **Enhanced topology plot visualization**: You now have the option to bring the selected objects to the foreground in the topology plot, making it easier to view while de-emphasizing other objects. Additionally, you now have the option to completely hide unselected items for a clearer and more focused visualization.
	Network Design page enhancements	• **Filter to selection**: This feature enables you to display only the selected objects within the network summary tables. • **Bulk action enhancements**: You can now select multiple objects simultaneously and apply a range of actions to all selected items at once. You can perform actions such as Edit, Delete, Fail, and Recover, with no limit on the number of entities selected. • **Cross table filters**: Multiple cross table filters have been added in Cisco Crosswork Planning 7.2.0. For a complete list of cross table filters supported in Cisco Crosswork Planning, see the *"Cross Table Filters" appendix in the "Cisco Crosswork Planning Design 7.2.x User Guide"*. • **User-defined columns**: Cisco Crosswork Planning now allows you to add custom columns to standard plan tables. Each user-defined column provides an efficient way to group columns under a single identifier and prevents conflicts with existing plan table names or columns. For more information, see the *"User-defined columns" section in the "Cisco Crosswork Planning Design 7.2.x User Guide"*. • **Traffic display standardization**: Traffic, Capacity, and Bandwidth units are now consistently displayed as (Mbps) in table header tooltips across all relevant network summary tables for improved clarity.
	Cisco Crosswork Planning Collector component enhancements	• **Startup script support**: You can now configure an external script as a first step in the collection configuration chain instead of the existing mandatory IGP/SRPCE collectors. For more information, see the *"Run an external script as a startup script" section in the "Cisco Crosswork Planning 7.2.x Collection Setup and Administration" document.* • **Dynamic data file access at external script**: You can now upload data files directly to the Cisco Crosswork Planning Collector. External scripts can access these files at run time, without requiring script repackaging or redeployment. This enables scripts in the Cisco Crosswork Planning Collector to use up-to-date, user-uploaded files during execution, supporting more efficient customization. • **Node filter enhancement**: You can now upload a CSV file in the node filter configuration with the list of nodes to be filtered. • **Enable password support**: Cisco Crosswork Planning now includes the **Enable password** field on the device authentication credentials configuration page. • **Download collector logs and record files**: You can now download the logs and record files specific for a collector. For more information, see the *"Download data, logs, and record files" section in the "Cisco Crosswork Planning 7.2.x Collection Setup and Administration" document*.

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Product impact	Feature	Description
	Access to plan table schema	All aspects of a plan file are defined using a collection of tables. You can now access all the plan tables from the **Schema Definition** page in the Cisco Crosswork Planning UI. For more information, see the *"Plan tables" section in the "Cisco Crosswork Planning Design 7.2.x User Guide"*.
	Dark mode support	Cisco Crosswork Planning now offers a dark theme option alongside the default light theme. The dark mode is designed to reduce eye strain and enhance comfort in low-light environments by minimizing glare and blue light exposure. Additionally, dark mode may help conserve battery life on compatible devices. For more information, see the *"Enable dark mode" section in the "Cisco Crosswork Planning Design 7.2.x User Guide"*.
	In-product listening for Customer Satisfaction (CSAT) surveys	Cisco products now feature integrated CSAT survey functionality. This allows users to provide immediate feedback via short surveys presented directly within the product interface. All input is delivered straight to Cisco teams, which helps accelerate improvements and streamlines the feedback process compared to previous methods like email and web surveys.
Ease of setup	AWS EC2 support	You can now deploy Cisco Crosswork Planning on the AWS EC2 platform. For information on deploying Cisco Crosswork Planning on AWS EC2, see the *"Installing Cisco Crosswork Planning on Amazon EC2" section in the "Cisco Crosswork Planning 7.2.x Installation Guide"*.
Software reliability	ASLA delay and ASLA TE metrics	Cisco Crosswork Planning now supports Application-Specific Link Attribute (ASLA) delay and ASLA TE metrics in the FlexAlgo calculation. For more information, see the *"Application-Specific Link Attribute (ASLA)" section in the "Cisco Crosswork Planning Design 7.2.x User Guide"*.
	Asymmetric delay support	Each interface in a circuit can now have its own delay metric instead of there being a single delay value for the circuit as a whole.
	Representative plan file creation	Cisco Crosswork Planning now includes the **Create representative plan** tool which allows you to generate a representative plan file. Representative plan files are network plans that better reflects the overall network state by combining multiple snapshots from an archive. Each representative plan includes multiple traffic levels, each corresponding to a specific time interval, offering a more accurate basis for long-term design and planning. This approach is particularly valuable for analyzing networks where peak utilization occurs at varying times across different interfaces. The topology is derived from a chosen base plan, and you can specify the desired time intervals for traffic levels, such as hourly segments. For more information, see the *"Representative plan files" section in the "Cisco Crosswork Planning 7.2.x Collection Setup and Administration" document*.

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Product impact	Feature	Description
	Global traffic level and QoS selection	You can now create and manage several traffic levels that are globally available for each opened plan file. The selected traffic level determines the information displayed in the topology graph and network summary table calculations. Additionally, you can select QoS settings globally for each opened plan file. You can configure service classes, interface queues, and undifferentiated traffic, as well as add or edit service classes, assign service classes to queues, and add or edit service policies. For more information on how to apply QoS settings globally for an opened plan file, see the *"Apply QoS settings globally" section in the "Cisco Crosswork Planning Design 7.2.x User Guide"*.
API experience	L1-related tools and API usage	Cisco Crosswork Planning now supports the execution of L1-related tools and initializers directly from the Job Manager page as CLI jobs. It also supports the execution of L1-related RPC and OPM APIs as scripts.

Resolved issues

This table lists the resolved issues in this specific software release.

Note: This software release may contain bug fixes first introduced in other releases. To see additional information, click the bug ID to access the Cisco Bug Search Tool.

Table 2. Resolved issues for Cisco Crosswork Planning, Release 7.2.0

Bug ID	Description
CSCwp21367	Unable to edit the IP address in the Interfaces table because of a UI issue
CSCwq23198	The CS RSVP Optimizer API is not exposed to end users
CSCws33050	Links with zero utilization show in grey, making it hard to see on the geographical view

Open issues

This table lists the open issues in this specific software release.

Note: This software release may contain open bugs first identified in other releases. To see additional information, click the bug ID to access the Cisco Bug Search Tool.

Table 3. Open issues for Cisco Crosswork Planning 7.2.0

Bug ID	Description
CSCwk83659	External Collector Collection configuration should support enabling and disabling
CSCws84455	Cross-table filter from Nodes to Flex Algorithms and vice versa is inconsistent with Node-FlexAlgo mappings
CSCws98272	IGP Metric is set to 0 and IPv6 IGP Metric value is set to null when the field is left blank in GUI

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Bug ID	Description
CSCws98252	The interface's Edit IP Address functionality becomes unresponsive in a rare scenario during editing and saving

Known issues

This section describes the known issues and limitations that should be considered before starting to work with Cisco Crosswork Planning 7.2.0.

Table 4. Known issues in Cisco Crosswork Planning Collector

Issue	Description
Plan file download format	The Cisco Crosswork Planning Collector application allows you to download plan files only in the .db format. Downloading plan files in the .txt format is not supported.
Archiving and aggregation	You can configure the archiving or aggregation of plan files only by running a collection. It is not possible to set up archive or aggregation of plan files independently.
Chart readability	When a large number of collectors are included in a configuration, the chart content displayed on the Preview page becomes difficult to read.

Table 5. Known issues in Cisco Crosswork Planning Design

Issue	Description
Table export options	Some CLI tools have the option to select specific tables (for example, <Nodes> table, <Interfaces> table, and so on). You cannot use this option because there is no option to export these tables from the Network Summary tables.
Distinguishing link types	There is no way to easily distinguish between Inter-AS and Intra-AS links in the network plot, as both are displayed similarly.
No alert when closing modified plan files	When closing a plan file after modifying certain network model objects (such as P2MP LSPs, SRLGs, External Endpoints, Interface Queues, and so on), the application does not prompt to save the changes. You must manually save any configuration changes before closing the plan file by navigating to **Network Design > Actions > File > Save**.

Table 6. Other known issues in Cisco Crosswork Planning

Issue	Description
Report log page	Cisco Crosswork Planning does not have a report log page which can assist in identifying basic errors.
Alarms and events	The alarms and events associated with the Cisco Crosswork Planning applications are not supported in Cisco Crosswork Planning.

Compatibility

Supported software versions

Table 7. Supported software versions

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Software	Supported version
Operating system	• Cisco IOS XR: 25.4.1, 25.3.2, 25.2.2 • Cisco IOS XE: 17.16.2
Hypervisor and vCenter	• VMware vCenter Server 8.0 (U2c or later) and ESXi 8.0 (U2b or later) • VMware vCenter Server 7.0 (U3p or later) and ESXi 7.0 (U3p or later) • Red Hat Enterprise Linux 8.10 KVM
Cisco Segment Routing Path Computation Element (SR-PCE)	Cisco IOS XR: 25.4.1

Browser compatibility

Table 8. Supported browser versions

Browser	Supported version
Google Chrome	131 or later
Mozilla Firefox	136 or later

Related resources

Documentation

A User Content Collection Page is available for Cisco Crosswork Planning 7.2.x. Information is categorized per functional area, making it easy to find and easy to access.

You can also access the most current Cisco Crosswork Planning documentation, including these release notes, online at https://www.cisco.com/c/en/us/support/routers/crosswork-planning-7/model.html.

These documents are provided for Cisco Crosswork Planning 7.2.x.

Table 9. Cisco Crosswork Planning 7.2.x documentation

Document	Description
Cisco Crosswork Planning 7.2.0 Release Notes	This document
Cisco Crosswork Planning 7.2.x Installation Guide	• System requirements • Installation instructions • Migrate configurations
Cisco Crosswork Planning 7.2.x Collection Setup and Administration	Using Cisco Crosswork Planning Collector application to: • Configure collections • Configure network models • Configure various collectors for discovery and collection • Install licenses • Manage administrative tasks

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Document	Description
Cisco Crosswork Planning Design 7.2.x User Guide	Using Cisco Crosswork Planning Design application to: • Visualize your network • Model, simulate, and analyze failures, design changes, and impact of traffic growth • Optimize your network for maximum efficiency • Generate reports that compare traffic
Open Source Documentation	List of licenses and notices for open-source software used in Cisco Crosswork Planning 7.2.0.

Cisco Bug Search Tool

You can use the Cisco Bug Search Tool to search for bugs.

1. Go to the Cisco Bug Search Tool.
2. Enter your registered Cisco.com username and password, and click **Log In**.

   The Bug Search page opens.

   Note: If you do not have a Cisco.com username and password, you can register on the registration page.
3. From the **Product** drop-down list, select **Series/Model**.
4. Click **Select from List** and select **Routers** > **Service Provider Infrastructure Software** > **Cisco Crosswork Planning** > **Cisco Crosswork Planning 7** and click **Select**.
5. From the **Release** drop-down list, choose the appropriate filter as, Affecting or Fixed in Releases, Affecting Releases, or Fixed in Releases and enter the release version in the search field.
6. (Optional) You can enter additional criteria (such as bug ID, problem description, a feature, or a product name) in the search field.
7. Click **Search**. When the search results are displayed, use the filter tools to narrow the results. You can filter the bugs by status, severity, and so on.
8. To export the results to a spreadsheet, click **Export Results to Excel**.

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