



Cisco Application Analysis Solution Readme

Release 2.1

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Cisco Application Analysis Solution *Readme*
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Cisco Application Analysis Solution 2.1 Readme

This document summarizes the differences between Cisco Application Analysis Solution (Cisco AAS) Release 2.1 and Release 2.0.1. Release 2.1 is a full release that replaces existing 2.0 installations. If you are updating to Release 2.1, you should review this document.

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Installing Cisco Application Analysis Solution 2.1

For detailed instructions on how to install the Release 2.1 software, refer to the instructions in the *Installation Guide for Cisco Application Analysis Solution*. You can view an online version of this document at Cisco.com:

http://www.cisco.com/en/US/products/ps6362/prod_installation_guides_list.html

WARNING—If you are using Release 1.1 software or earlier, you must update to Release 2.0 before you update to Release 2.1. For details on updating from Release 1.1, see the *Installation Guide for Cisco Application Analysis Solution* for Release 2.0 at the above URL.

Release 2.1 Description

Release 2.1 provides enhancements to the existing capabilities of Cisco Application Analysis Solution. It also implements suggestions and fixes to software problems reported in earlier releases.

The following sections highlight the changes to Cisco Application Analysis Solution that were introduced in Release 2.1.

Installation and License Enhancements

The following enhancements are available in 2.1:

- [License File Format Change](#) on page 3
- [Installation Utility Change](#) on page 3
- [Migration of Preference Values](#) on page 4

License File Format Change

The format of the license file has been changed to hold additional information about each license. This change has the following effects:

- The 2.1 license server automatically converts pre-2.1 license files to the new format when it reads them. A 2.1 license server can serve licenses to any release of Cisco Application Analysis Solution.
- After a pre-2.1 license file has been converted, pre-2.1 license servers cannot use it and should be replaced with 2.1 license servers.

If you need to run a mix of 2.1 and pre-2.1 applications, install a 2.1 license server (using the “Floating—serve licenses from this computer” option) and configure the applications to contact it.

Installation Utility Change

Cisco Application Analysis Solution is now installed using the InstallAnywhere installation technology, which provides a Java-based graphical installer.

Note—Because these installers use a different technology, they generally take longer and require slightly more disk space during installation than installers from previous releases.

For more information, see the installation instructions.

Migration of Preference Values

When upgrading, your preference values are migrated to ensure a smooth transition.

The migration process occurs when Cisco Application Analysis Solution is started for the first time. When the migration is complete, a dialog box informs you of the migration. Click the Show Details... button to view a detailed log of the migrated preferences. If the dialog box indicates, you may have to restart Cisco Application Analysis Solution for the migrated preferences to become effective.

Note the following:

- The migration of preference values occurs when *all* of the following conditions are true:
 - No preference file exists. (This is always true when Cisco Application Analysis Solution is started for the first time after installation.)
 - A previous release of Cisco Application Analysis Solution is already installed.
- If more than one previous release is already installed, the migration process uses the most recent release.
- To bypass the migration process, use the “-skip_preferences_migration” command-line option when starting Cisco Application Analysis Solution.

Application Analysis Enhancements

The following enhancements are available in 2.1:

- [Capture Agent Enhancements](#) on page 5
- [Opening Cisco AAS-Related Files Directly in Windows](#) on page 6
- [Web Report Enhancements](#) on page 7
- [User Think Time](#) on page 7
- [Modeling Web Services in Cisco AAS Whiteboard](#) on page 8
- [Modeling UDP-Based Applications in Cisco AAS Whiteboard](#) on page 8
- [Cisco AAS Decodes Module Enhancements](#) on page 9
 - [Wireshark 0.99.5 Support](#) on page 9
 - [DB2 Decodes and Transaction Analysis](#) on page 10
 - [IPv6 Support](#) on page 10
 - [File-Transfer Analysis for SMB/CIFS, FTP, and NFS](#) on page 10

Capture Agent Enhancements

The 3.6 version of the Cisco AAS Capture Agent has the following enhancements:

- Support on Windows hosts that have the following chip sets:
 - 64-bit86-64
 - x64
 - Opteron
 - AMD64
 - Intel 64
 - EM64T

Note—Itanium chip sets are not supported by the 3.6 capture agents.
- Support on Windows Vista hosts
- Windows capture agents now use WinPcap version 4.0.1.

The 3.6 capture agents are supported on all of the following Windows platforms:

- Windows 2000 (x86)
- Windows Server 2003 (x86)
- Windows XP (x86)

- Windows Vista (x86)
- Windows Server 2003 (x64)
- Windows XP (x64)
- Windows Vista (x64)

Opening Cisco AAS-Related Files Directly in Windows

The software installer gives you the option to create file associations automatically for Cisco AAS-related files on Windows. If you select this option, you can then double-click on a Cisco Application Analysis Solution-related file in a Windows file browser and open the file directly.

The software installer can associate the following file types with Cisco Application Analysis Solution:

- Cisco Application Analysis Solution (.atc.m)—Opens in main Cisco Application Analysis Solution window
- Cisco AAS Whiteboard (.aed.m)—Opens in Cisco AAS Whiteboard
- Cisco application capture (.appcapture) and other common capture formats (.enc, .cap, .prn, etc.)—Opens in Cisco AAS QuickView
- Project (.prj)—Opens in Project Editor

Web Report Enhancements

Web Reports have been significantly enhanced for this release. Enhancements include:

- Expanded content—A web report can include all the elements that are available in an MS Word report: Executive Summary, statistic graphs, customized Tier Pair Circle graphics, and so on.
- Customization—You can now specify the name of a web report and the type of content to include.
- Updated “look and feel” of web reports

User Think Time

Cisco Application Analysis Solution can now consider the presence of human think time at a client tier, and separate this time from application processing time. In the context of Cisco Application Analysis Solution, *user think time* refers to the delay incurred whenever a client-side application waits for user input before it can proceed. For example, an application might need to wait for a user to click OK to confirm a request before it sends the request to a server. Previously, any captured think time was considered part of tier processing delay.

You can configure how Cisco Application Analysis Solution detects user think time automatically. You can also specify whether the tier delay in a dependency is due to think time or application processing.

This change provides two major benefits:

- Analyses of client-side applications are more accurate, because user think time is considered as a separate category of delay from tier processing.
- It is easier to capture and analyze applications that consist of multiple user-level transactions that are separated by think time.

Modeling Web Services in Cisco AAS Whiteboard

This release has the following new features for modeling web services:

- Import operation, message, and argument definitions directly from WSDL (Web Service Definition Language) files
- WSDL Operations Palette that uses a treeview to show all defined operations, messages, and arguments
- Ability to perform “drag-and-drop” operations from the WSDL Operations Palette
- Customize attributes such as operation processing time, SOAP/HTTP overhead, and message/argument size

Modeling UDP-Based Applications in Cisco AAS Whiteboard

You can now simulate UDP-based Cisco Application Analysis Solution and Cisco AAS Whiteboard files in QuickPredict and discrete event simulations.

Cisco AAS Decodes Module Enhancements

The enhancements are

- [Wireshark 0.99.5 Support](#) on page 9
- [DB2 Decodes and Transaction Analysis](#) on page 10
- [IPv6 Support](#) on page 10
- [File-Transfer Analysis for SMB/CIFS, FTP, and NFS](#) on page 10

Wireshark 0.99.5 Support

Wireshark is now the supported external decoder for Cisco AAS Decodes Module. Ethereal is no longer supported.

Note the following:

- As of this documentation release, Cisco AAS supports Wireshark 0.99.5.
- Cisco recommends that you install Wireshark on your local computer before you run the 2.1 release for the first time. This will ensure that Cisco AAS sets the External Decoder Program preference automatically for Wireshark.

If you install Wireshark after you run the 2.1 release, you must set the External Decoder Program preference manually. To do this:

- Choose Edit > Preferences.
- Set the ACE > Decodes > External Decoder Program preference to specify the full path and file name (for example, C:\Program Files\Wireshark\tshark.exe).

For more information, see the 2.1 Installation Instructions.

- You can use the Wireshark decoder with Cisco Application Analysis Solution files that were created with Ethereal. However, a Cisco Application Analysis Solution file retains decodes from the decoder that was installed when the file was created. To use Wireshark decodes, do one of the following:
 - Recreate the Cisco Application Analysis Solution file (*recommended*)
 - Redecode some or all of the traffic.

You can redecode traffic in the Tree View and the Tier Pair Circle. Select the tier pair or transaction of interest, right-click, and choose Redecode As. (For more information about this operation, see the following section of the product documentation: Application Analysis > Protocol Decodes > Redecoding Traffic.)

DB2 Decodes and Transaction Analysis

This release supports decodes of DB2 versions 8.1, 8.2, and 9.0. You can use the following features to analyze DB2 applications:

- Tree View tabbed page—When you set the “View by” pull-down menu to Application Transactions, the treeview organizes the Cisco Application Analysis Solution file into separate DB2 transactions. This is helpful for identifying problematic SQL statements.
- Protocol Decodes Viewer—This window shows details of SQL operations and DRDA commands. DB2 decodes appear under “DRDA” in the Protocol Decodes Viewer.

For more information, see [DB2 Decodes and Transaction Analysis](#).

IPv6 Support

You can now import capture files that contain IPv6 data. You can also view IPv6 decode information in Cisco AAS QuickView and in the Protocol Decodes Viewer.

File-Transfer Analysis for SMB/CIFS, FTP, and NFS

This release supports enhanced decoding and transaction analysis for NFS versions 3 and 4, SMB (Server Message Block) (NTLM 0.12), and CIFS (Common Internet File System) version 1.0. The following features are available for analyzing these protocols:

- Enhanced decodes in the Protocol Decodes Viewer
- Grouping of application messages into transactions in the Tree View (select View by: Application Transactions)
- File Transfers tabbed page in Cisco AAS AppDoctor—This page shows summary information and statistics for the file transfers. You can also include this information in web and RTF reports.
- Application Message Chart visualization—To color messages by transaction type, choose View > Visualization > File Transfer Operations.

Note—Due to known performance issues, the NFS analysis is turned off by default. To enable the NFS analysis, set the "Enable NFS Decoder" preference to true before you import capture data into Cisco Application Analysis Solution.

Discrete Event Simulation Enhancements

The following discrete event simulation (DES) enhancements are available in 2.1:

- [Enhanced Support for Importing and Analyzing Cisco IOS XR Devices](#) on page 11
- [Module-Centric Reports on Global Packet Statistics](#) on page 12
- [HAIZE Model Enhancements](#) on page 12
- [Circuit-Switched Model No Longer Included in Model Library](#) on page 12
- [Global Packet Statistics](#) on page 12
- [Compilation Behavior](#) on page 13
- [Time-Precision Preference](#) on page 14
- [Compilation and Linking Preferences](#) on page 14

Note—Cisco AAS-Advanced Capture Module is needed to use the discrete event simulation features in Cisco AAS.

Enhanced Support for Importing and Analyzing Cisco IOS XR Devices

Cisco AAS now supports version 3.4.1 of Cisco IOS XR. This change adds support for many of the new features that were added to Cisco IOS XR since version 3.2, which was the highest supported version of Cisco IOS XR in previous releases.

The Cisco IOS XR enhancements add support for the following:

- Routing protocols: BGP, ISIS, OSPF, RPL, and static routing
- MPLS: LDP, RSVP, traffic engineering, VPN
- Quality of service
- IP addressing and services: access lists, ARP, HSRP, network stack IPv4, prefix lists

Module-Centric Reports on Global Packet Statistics

The global packet statistics feature now has module-centric views in addition to the original node-centric views. The module-centric approach is useful for performing packet throughput analysis of a simulation. With it, you can easily determine which module is dropping the most packets, then examine the nodes containing a given module to see which ones are major contributors to the problem.

HAIPE Model Enhancements

The HAIPE (High Assurance Internet Protocol Encryptor) model has been enhanced to support the following:

- Dynamic security associations using HAIPE IKE
- Orphan SA Recovery using HAIPE IKE
- Transport mode transforms
- SA based statistics (provides the ability to view statistics on a per-SA basis and at the node level)
- Ability to configure a security association to be used by multiple security policies
- Ability to configure a manual peer enclave prefix table entry using the peer HAIPE device's name rather than the CT (cipher text) IP address. As part of this enhancement, the HAIPE Parameters > Manual Peer Enclave Prefix Table (PEPT) > Peer CT Address attribute has been replaced by the HAIPE Parameters > Manual Peer Enclave Prefix Table (PEPT) > Peer HAIPE.

Circuit-Switched Model No Longer Included in Model Library

The circuit-switched model is no longer shipped as part of the model library. Although it is no longer maintained or supported, the model can be obtained from the Cisco Technical Assistance Center.

Global Packet Statistics

Global packet statistics represent an expansion of the Packet Info report formerly available in the simulation console and DES log. These statistics provide a “high-level” view of simulation behavior, letting you quickly get a sense of whether a simulation is performing as expected. You can use this information as a first step in debugging a model.

The global packet statistics feature introduces the following changes to the Packet Info report:

- The number of packets created, copied, and destroyed during the simulation are reported per packet format and per node.

- The checkbox used to control collection of these statistics has moved from the Execution > Advanced > Kernel Reports page of the Configure/Run DES dialog box to the new Outputs > Global Packet Statistics page.
- Statistic collection is enabled by default (but continues to be available only for sequential development kernels).
- The collected statistics are saved in an output table file with a name of the form <project_name>-<scenario_name>-DES-<run_number>.ot.
- The collected statistics can be viewed in the Results Browser under a tab corresponding to the output file name; for example, “DES Run (<run_number>) Tables”.

Figure 2.1-1 Packet Statistics in Results Browser

Object Name	Total	ams_aa15_cpcs_pdu	ams_atm_call_pro...	ams_atn...
Total	1156335	86950	11	424208
SEATTLE.TR-16 1	2812	0	0	0
SEATTLE.TR-16 2	2437	0	0	0
SEATTLE.ROUTER	7832	465	0	2505
SEATTLE.TR-16 3	2450	0	0	0
LOS ANGELES.R...	60	0	0	0
MIAMI.10-T	3502	0	0	0
MIAMI.BRIDGE	4	0	0	0
MINNEAPOLIS.R...	15387	1358	0	6511
CHICAGO.ROUTER	6015	511	0	2702
EAST COAST.WA...	1538	0	0	0
EAST COAST.PHI...	1635	0	0	0
EAST COAST.NE...	56224	5491	0	23843
EAST COAST.NE...	650	142	11	153
MIAMI.ROUTER	86150	6826	0	39161
OTTAWA.FDDI	2830	0	0	0
OTTAWA.ROUTER	16110	1502	0	6909
WESTERN EURO...	1647	0	0	0
WESTERN EURO...	2573	0	0	0

Note—When the Packet Data Sharing Mode (`sim_packet_sharing`) preference is set to conservative or full, the content of “copied” packets is shared unless changes are needed. Regardless of this preference, the packet statistics count all packets that were copied or destroyed, as well as those that would have been copied or destroyed if the packet sharing optimization was disabled.

Compilation Behavior

When preparing for a discrete event simulation, Cisco Application Analysis Solution programs that compile files (such as `op_mkso`, `op_mkstim`, and `op_runsim`) now systematically keep compiling files instead of stopping at the first error. You can kill the build process if needed; otherwise, all of the specified models are compiled to provide a general report of missing models, conflicting models, and so on.

Time-Precision Preference

The following DES-related preference has been added:

- [log_time_precision](#)—Specifies the number of decimal places recorded for simulation times in the DES log (the default is 12).

Compilation and Linking Preferences

New preferences let you define flags and libraries specific to 32-bit and 64-bit architectures. These preferences are:

- [comp_flags_32bit](#)
- [bind_shobj_flags_32bit](#)
- [bind_shobj_flags_64bit](#)
- [bind_shobj_libs_32bit](#)
- [bind_shobj_libs_64bit](#)
- [bind_static_flags_32bit](#)
- [bind_static_flags_64bit](#)
- [bind_static_libs_32bit](#)
- [bind_static_libs_64bit](#)

General GUI Enhancements

The following enhancements are available in 2.1:

- [Visualization Enhancement](#) on page 15
- [Treeview Enhancements](#) on page 15

Visualization Enhancement

The GUI now supports anti-aliasing, which *softens* edges, thus providing a smoother and sharper look.

Treeview Enhancements

Treeviews have been enhanced with new functionality and an updated look. The treeview enhancements include the following features:

- **Keyboard Shortcuts for Treeviews**

Use the following shortcut keys to quickly navigate through a treeview.

Shortcut Key	Description
+ (plus)	Expands a treeview node.
- (minus)	Collapses a treeview node.
<Right Arrow>	Expands the treeview node and selects the first child node.
<Left Arrow>	Collapses the treeview node and selects the parent node.
<Backspace>	Selects the parent node

- **Type Ahead Searching**—You can now easily locate items in a treeview by typing the first one or more characters of the name. Type ahead searching starts with the selected item. If you repeat the same characters, the search cycles through the treeview. Note that the type ahead searching feature considers displayed (non-hidden) items only.
- **Treeview Appearance**—The enhanced treeviews have an updated three-dimensional look. Additionally, there are new preferences to define the font and the lines between treeview nodes.
 - [treeview_font](#)—Specifies the default font used for treeviews.
 - [treeview_connector_style](#)—Specifies the line style used in a treeview to show connections between nodes. Select from Dotted Lines, Solid Lines, or No Lines.

Project Editor Enhancements

The following enhancements are available in 2.1:

- [Adding Ports to Existing Devices](#) on page 16
- [Easier Statistic Selection in Results Browser](#) on page 17
- [Edit Attribute Dialog Box Enhancements](#) on page 18
- [Enhanced Usability of Compound Attribute Table Dialog Box](#) on page 19
- [Subnet Enhancements](#) on page 19
- [Logical Object Selection Enhancements](#) on page 20
- [Zooming/Panning Enhancements](#) on page 20
- [Map Improvements](#) on page 21
- [Embedded Bird's-eye Viewer](#) on page 22
- [Toggle Display of Links](#) on page 22

Adding Ports to Existing Devices

You can now add ports to an existing device so that it accommodates new links. This makes it much easier to upgrade nodes and to add or upgrade links manually. Two modes of operation are supported:

- Automatic upgrade—If you connect one or more links to a node manually, and that node does not have enough ports, Cisco Application Analysis Solution will add the necessary ports to support the new links.
- Manual upgrade—To add ports to a device manually, right-click on it and choose Add Ports. A wizard prompts you for the number and type of ports to add.

This feature has the following constraints:

- You can add new ports to switches, routers, router/switches, firewalls, clouds, and hubs only. You cannot add ports to traffic source/destination nodes such as workstations, servers, and LANs.
- Cisco Application Analysis Solution upgrades nodes automatically only when you add or upgrade links manually in the Project Editor. This functionality is not invoked by operations that can make comprehensive changes to the network topology (for example, running a link-dimensioning design action).

- Cisco Application Analysis Solution upgrades a node automatically only if the upgrade will have no effect on any other links that are already connected to that node.
- If the node does not support the required port type already, a dialog box might prompt you to confirm the proposed upgrade.

Easier Statistic Selection in Results Browser

You now can change the order in which results are listed in the results treeview of graph and parametric studies pages in the Results Browser. This lets you arrange the tree to group results by their parent objects, by name, by specific tags (which identify related statistics), or any other way that provides convenient access to the results in which you are interested. These arrangements can be saved and reused.

For more details, see [Defining an Arrangement for the Results Browser](#) on page 7.

Edit Attribute Dialog Box Enhancements

The Edit Attribute dialog box enhancements are:

- [Filtered Search Feature](#) on page 18
- [Display of Compound Attributes](#) on page 18

Filtered Search Feature

The search feature on the Edit Attributes dialog box has been enhanced so that you can more easily locate attributes. In previous releases, the search feature cycled through the Edit Attributes dialog box with the next attribute or value that matched the search criteria. In release 2.1, the search feature filters the attribute display.

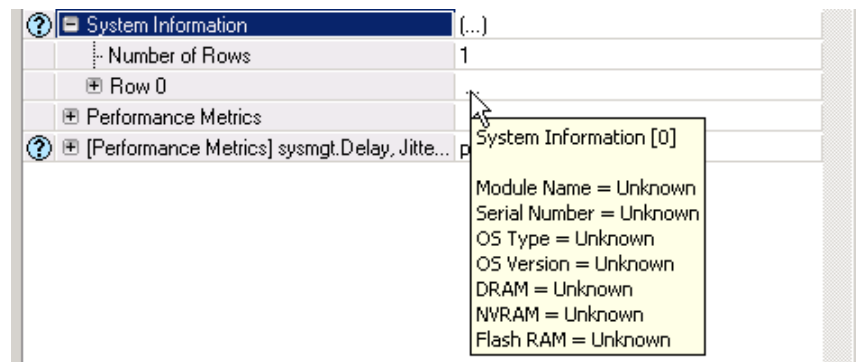
When performing a filtered search from the Edit Attributes (Advanced) dialog box, you can specify whether filter criteria is a substring, an exact match, or a regular expression. Additionally, you can filter more precisely by specifying the items to compare against the filter criteria. Choose from attribute name, value, possible value (a value that you can choose from a pull-down menu), or tag. (A tag is a keyword that is associated with a model attribute, such as an interface type, vendor, or CLI command.) The results of a filtered search include built-in, hierarchical, and matching attributes/values.

For more information, see [Filtering Attributes](#) on page 7.

Display of Compound Attributes

To make the display of compound attributes more friendly, the “row” attribute has been changed to “Number of Rows”. Additionally, when a compound attribute is collapsed, the defined values no longer appear in the values column. Instead, you can view the defined values in a tooltip by holding the mouse pointer over “...” in the Value column.

Figure 2.1-1 Compound Attribute Display in Attributes Dialog Box



For more information, see [Compound Attributes](#) on page 40

Enhanced Usability of Compound Attribute Table Dialog Box

The Compound Attribute Table dialog box has been enhanced with the following new features:

- **Row Number Display**—In previous releases, the row number column would slide out of view as you moved the slider to view columns. In 2.1, when the new “Show row labels” checkbox is selected, the row number column is frozen as you move the slider bar to view additional columns.
- **Column Sorting**—You can sort the table by a column by clicking the column header. Click the column header again to reverse the sort order. Click the column header a third time to turn off the sort feature.

For more information, see [Compound Attributes](#) on page 40.

Subnet Enhancements

The following functionality and behavior enhancements have been made to subnets:

- **Create Subnets**—In addition to creating subnets from the Object Palette, you can now quickly and easily create subnets from the Topology menu.
For more information, see [Creating a Subnetwork from the Topology Menu](#) on page 25.
- **Create and Populate Geographic Subnets**—The “Create and Populate Geographic Subnets” feature allows you to quickly create and populate subnets at specific geographic locations. This feature uses the latitude/longitude information stored in the default maps to create a tree of geographic regions (i.e., continents, countries, states/provinces, and cities).
The “Create and Populate Geographic Subnets” feature is especially useful when you want to organize a large set of imported nodes into a geographic subnet hierarchy. After creating and populating the geographic subnets, you can save the subnet hierarchy to a model assistant file that can be re-applied the next time the nodes are imported.
For more information, see [Creating and Populating Geographic Subnets](#) on page 73.
- **Cut, Copy, and Delete Links connected to Nodes in Other Subnets**—You can now cut, copy, and delete links that are attached to nodes in another subnet. However, before performing a cut, copy, or delete operation, be sure to select only the links on which you want to perform the operation.

Logical Object Selection Enhancements

The Logical Object Selection dialog box has been replaced by a new user interface and functionality. The new Define Selection dialog box enables you to:

- Find/select objects based on object type (such as mobile nodes or duplex links)
- Find/select objects that contain specific attributes (simple, top-level, or nested)
- Find/select objects based on specific attribute settings
 - String-based criteria include "Contains sub-string", "Matches string", and "Matches regular expression"
 - Numerical criteria include "=", "!=", "<", "<=", ">", and ">="
- Combine search criteria using AND, OR, and NOT operators
- Create composite search definitions based on previously defined definitions
- Categorize and save, and re-use search definition files for object searches and User-Defined Reports.

The new functionality provides much better support for nested attributes. You can create search definitions based on any attribute, in any network object in a scenario.

For more information, see [Logical Object Selection](#) on page 20.

Zooming/Panning Enhancements

Zooming and panning in the Project Editor have been greatly enhanced.

- Zooming can now be performed with the scroll wheel on your mouse:
 - To zoom in, turn the scroll wheel forward or use the Page Down button.
 - To zoom out, push the scroll wheel backward or use the Page Up button.
- Panning can now be performed with the scroll wheel on your mouse
 - To pan, hold down the scroll wheel and drag the mouse pointer. Optionally, hold down the right and left mouse buttons and drag the mouse pointer.

Note that in previous releases, using the scroll wheel on your mouse moved the view up/down. In 2.1, to move the view up/down, hold down the Control key and turn the scroll wheel.

Map Improvements

The background maps have been replaced with maps that are easier to view, display more information, and include additional behavior.

- The default map colors have been changed to maximize visualization of objects and to be more aesthetically pleasing.
- Maps now display cities by population.

The following preferences define the appearance of the new maps:

- [network_world_map.default_cities_style](#)—Specifies the cities (by population size) to display on background maps.
 - [network_world_map.default_ocean_style](#)—Specifies whether to display bodies of water in blue on background maps.
 - [network_world_map.default_region_style](#)—Specifies whether to display land (with country, state, province borders) on background maps.
- Because the new maps replace old maps, some of the old maps are deprecated. The maps that are deprecated are the border maps (also known as the CDS maps) and a subset of the MIF maps. The deprecated MIF maps are: asia, australia, canada, europe, france, germany, italy, japan, mexico, ocean_background, south_korea, usa, world, and world_bright.

The following preferences control the migration from the old *deprecated* maps to the *new* maps.

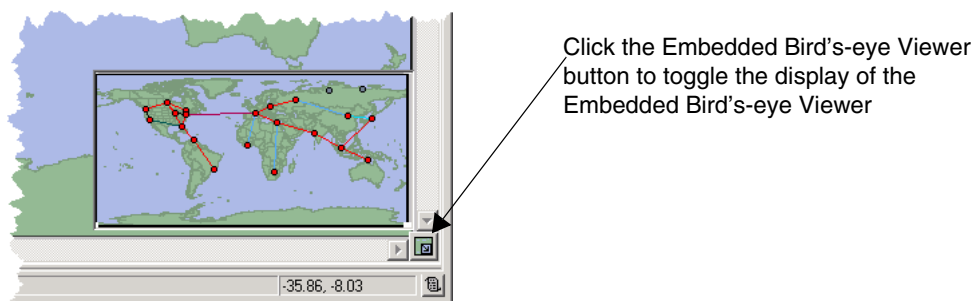
- [network_world_map.deprecated_border_map_behavior](#)—Specifies whether to suppress deprecated border maps in subnets.
- [network_world_map.deprecated_mif_map_behavior](#)—Specifies whether to show deprecated MIP maps in subnets.
- [network_world_map.update_behavior](#)—Specifies whether to replace deprecated maps with new maps. Replaced maps are retained, but they are not displayed.

Embedded Bird's-eye Viewer

The Bird's-eye Viewer is now embedded in the Project Editor workspace. An embedded viewer is easier to use than the floating viewer.

To toggle the display of the embedded bird's-eye viewer, click the Embedded Bird's-eye Viewer button. The button is located in the lower-right corner of the Project Editor, as shown in the following figure.

Figure 2.1-2 Embedded Bird's-eye Viewer



The embedded bird's-eye view includes the same functionality as the bird's-eye view displayed from the View menu. Use the Bird's-eye Viewer to zoom, pan, and locate items of interest.

For more information, see [Zoom Operations](#) on page 64.

Toggle Display of Links

Frequently, after an import, there is a need to move nodes/subnets in the workspace. However, if there are numerous links, the links may interfere with the dragging and repositioning of the network objects.

Starting in release 2.1, you can toggle the display of links in the Project Editor. When links are hidden, it is much easier to reposition nodes/subnets. When satisfied with the node layout, you can show the links.

- To hide the links, choose View > Links > Hide All
- To display the links, choose View > Links > Show All

Hiding and showing links does not change the link bundling display or settings.

When links are hidden, links are not listed in the Network Browser (unless you choose to display hidden objects), and links do not display in the Bird's-eye view. However, links do display in the Network Showcase between featured network objects.

Resolved Problems

Release 2.1 includes enhancements that address the following software problem reports (SPRs) from previous releases:

Table 1 SPRs Fixed in Cisco AAS Release 2.1

SPR ID	Problem Description
103789	Cisco AAS Quickview: Program abort when trying to view decodes of very large packets.
102014	Upgrade Cisco AAS Capture Agents to use WinPcap 4.0.1.
107556	To start Cisco AAS on a 64-bit Linux machine, you need to start Cisco AAS with the "-32bit" flag.
101538	Direction of retransmitted packet is wrong.
100791	Cisco AAS project closes when an MS Word report is generated.
98767	When installing Cisco AAS agent without first removing the previous agent installation, the installer succeeds but the version of WinPcap is not upgraded from 3.0 to 3.1.
95395	Cisco AAS Capture Manager incorrectly loads an agent list where the "maximum number of packets to capture" is specified as -1.
94763	Unable to start Cisco AAS beta agent on HP-UX (related to libstdc++.sl.6).
93783	Continuous capture rolling buffer computations have rounding errors resulting in the maximum size being exceeded.
93612	Cisco AAS Batch Import may not import all traces.
92588	Cisco AAS AppDoctor does not detect the correct setting for SpeedScreen Latency Reduction in a CITRIX trace.
91043	Continuous capture exceeds rolling buffer size when the agent is stopped and restarted.
51973	The HTTP tab is empty for HTTP applications.
End of Table 1	

Known Issues

This release contains the known issues listed in [Table 2](#).

Table 2 Known Issues in Cisco AAS Release 2.1

SPR ID	Problem Description
103083	Cisco AAS ACE and Cisco AAS ACE QuickView: Certain .pcap files fail to import. Workaround: Use a file format conversion utility to convert the files to .enc format.
105903	Unable to run the product on Solaris machines that do not have libgcc.
End of Table 2	