



Release Notes for the Cisco Application Networking Manager 2.0

March 18, 2009

This release note applies to the Cisco Application Networking Manager (ANM) 2.0 release.

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Caution

Because the ANM 2.0 image does not support upgrading from Beta or pre-FCS ANM versions, when you install the ANM 2.0 image, you will lose all current Beta or pre-FCS ANM data. You will need to reimport all devices and modules that you previously imported.



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New Features and Support

ANM 2.0 provides the following new features and enhanced hardware support as noted:

- Support for Cisco ACE appliance software release version 3.1—Support for Cisco ACE 4710 device running software release 3.1.
- Support for Cisco ACE Global Site Selector (GSS) version 3.0 (2) including the following:
 - Support beginning with software release version 3.0 (2).
 - GSSM discovery for answers, answer groups, and DNS rules.
 - Activate/suspend answers and DNS rules.
 - On demand retrieval and display of answer operational status and hit information.
 - On demand retrieval and display of DNS hit information.
- SSL Enhancements including the following:
 - Provisioning workflow to set up keys, certificates, proxy, and generate certificate signing requests (CSRs).
 - Track and notification of SSL certificate expiration including threshold settings and alarm notification.
 - Certificate/Key association view across managed devices as permitted by ANM role based access control (RBAC).
 - Option to import certificate/key on HA pair.
 - Appropriate error messaging when imported certificate/key is invalid or certificate is imported as a key and vice versa.
- ACL Enhancements including the following:
 - Enhanced user-friendly view to manage ACLs or individual entries within ACL tables.
 - ACL/interface association view.
- Support for Cisco VFrame Data Center including the following:
 - Device management including chassis/ACE module discovery, and credential management.
 - Virtual context setup and administration.
 - Configuration support including server load balancing, SSL, security, NAT, and chassis features to set up ACE module.
 - Monitoring including ACE HA status, and real server statistics collected by ANM.
- Audit Trail Log Support—Event viewer and export capability to capture key ANM user activities including:
 - Device configuration, staging, deployment, and operational changes.
 - Device management and synchronization operations.
 - ANM RBAC, device group and threshold management.
 - User session management.

- Configuration Auto-Synchronization—Auto-synchronization from ACE to ANM for device configuration changes made out-of-band (by any means other than through the ANM user interface).
- Administrative enhancements including the following:
 - Expanded presentation of default values on configuration screens.
 - Visual and user interface enhancements for improved clarity and consistency.

Supported Devices and Software

For information on Cisco devices supported by ANM 2.0, refer to the *Supported Devices Table for the Cisco Application Networking Manager 2.0* located at:

http://www.cisco.com/en/US/products/ps6904/products_device_support_tables_list.html

ANM Product Documentation Set

In addition to this release note, the Cisco Application Networking Manager (ANM) documentation set includes the following publications. You can access the ANM documentation on www.cisco.com at:

http://www.cisco.com/en/US/products/ps6904/tsd_products_support_series_home.html

- *Installation Guide for the Cisco Application Networking Manager 2.0*—Includes complete installation and configuration information for the ANM 2.0 software.
- *User Guide for the Cisco Application Networking Manager 2.0*—Includes complete information about ANM functionality and detailed procedures for its use. Contains all of the information found in online help.

Available either on [cisco.com](http://www.cisco.com) or from the ANM online help.

- Context-sensitive online help—Help topics for all pages in the UI (also provides access to PDFs of the user guide). Select an option from the ANM GUI, then click **Help**.
- *Supported Devices Table for the Cisco Application Networking Manager 2.0*—Includes complete supported device and firmware versions for ANM.
- *Supplemental License Agreement for the Cisco Application Networking Manager*—Description of licensing limitations and restrictions.

Resolved Caveats in Software Version 2.0

Table 1 describes the resolved caveats in ANM 2.0.

Table 1 *Resolved Caveats in Software Version 2.0*

| Bug ID | Summary | Explanation |
|------------|---|--|
| CSCsj13528 | Device name shows up as <i>rmoid</i> in the Alarm Notifications and Events screens. | In the Alarms Notifications page, in the Source ID field, an internal ID is displayed instead of the correct name. For ACE virtual contexts, the source ID displayed is a combination of the display name of the device, the serial number, and the virtual context. For CSS and CSM devices, the source ID displayed is a combination of the device names and the serial number for ACE, and it contains the device name for the CSS or CSM device. |
| CSCsk09390 | On the ACE appliance Import screen, the Next button should be changed to Import . | You can only import one ACE appliance at a time because there is no Next button on the Import screen. |
| CSCsk31533 | Cannot create new probes, class maps, or policy maps after 200 entries with Internet Explorer. | When the number of rows in the table exceeds 200, which is the default page size, if you click the Add (+) button to add a new probe or real server or policy map or class map, instead of displaying the screen to add the new entry, the last page of the list appears instead. |
| CSCsu91526 | Unable to able to recognize radius-auth protocol and hence causing sync failure. | If the CLI encounters the radius-auth protocol in match conditions, ANM is not able to perform discovery or sync of the contexts. |

Open Caveats in Software Version 2.0

Table 2 describes the open caveats in software version 2.0:

Table 2 *Open Caveats in Software Version 2.0*

| Bug ID | Summary | Explanation and Workarounds |
|-------------------------------------|---|---|
| CSCsr69490 | ANM is unable to send configurations or perform monitoring on the device, and reports incorrect credentials error. The password on the ACE has likely been changed directly from the ACE CLI. | <p>After importing the ACE successfully in ANM, if the user-name/password on the ACE is changed, such that the credentials provided to ANM are no longer valid, then ANM cannot continue to either sync, deploy, or monitor that ACE device.</p> <p>If the password change is performed on the ACE using ANM, then ANM credential repository is updated, however if it is performed directly on the ACE from the CLI, then ANM will have no way of knowing the changed credentials.</p> <p>Workaround: Do either of the following, according to whether you are having the issue on a module or appliance:</p> <ul style="list-style-type: none"> ACE module—Choose Devices > Modules > Do not Manage and then reimport the ACE module using the new/updated credentials. ACE appliance—Delete the ACE appliance and re-import. |
| CSCsr75526 (device bug: CSCsu51832) | Config: Cannot edit Expect Status code for health probe. | <p>In the ACE HA Management section of the ANM HA Setup page, the peer ACE name is missing even though the HA has been setup properly and both ACE devices are already imported into ANM.</p> <p>The problem only happens when the two HA peers are not completely compatible. For example, two ACE appliances each running a different OS version.</p> <p>Workaround: On the context listing page, customize the column display by adding “ACE HA Peer” to the listing (click on Configure by moving mouse over to a small button at upper right corner), and apply. The column “ACE HA Peer” shows the peer context name.</p> |
| CSCsu22694 | Editing a “layer-4-payload” sticky configuration reports exceptions. | <p>When a layer-4-payload sticky configuration is edited within ANM, if the “response sticky” option is removed from that sticky configuration, then removing some other sticky options like offset/length/timeout and so on, could report exceptions. This problem in ANM stems from Known Problem CSCsv35266 on the ACE that causes the configuration for the layer-4-payload options like length/offset/begin pattern/end pattern, and so on to be removed when the no response sticky option is sent. This should not occur and as a result, when it does happen ANM becomes out-of-sync with the CLI and you will need to do a manual sync to recover.</p> <p>Workaround: Sync the context in which this exception occurs so that ANM has the updated CLI from the device context, and then proceed with the edits.</p> |

Table 2 **Open Caveats in Software Version 2.0 (continued)**

| Bug ID | Summary | Explanation and Workarounds |
|--|---|--|
| CSCsu22739 | Sticky Group: Question mark character in static value not accepted. | <p>When you add an RTSP/SIP Header Sticky Group, ANM allows you to enter “???” in the Static Value field, but the device drops the question marks from the value. However, despite this, ANM still displays the question characters in the Static Value field.</p> <p>Workaround: Ensure you do not enter “?” in the Static Value field.</p> |
| CSCsu46598 (device bug: CSCsu67729 | Modifying port for backup server adds new instances of the backup server. | <p>Each you modify the port for the backup server under Server Farm, ANM creates a new instance of the backup server instead of the updating the existing one. Furthermore, these instances do not show up in the Real Server table under the server farm. This causes ANM to go out of sync with the device configuration. In addition, if you delete the primary server from the server farm, the backup servers do not get deleted. This is caused by ACE known problem CSCsu67729.</p> <p>Workaround: Do a CLI Sync on the virtual context. Before editing the port for the backup server, delete the backup server under Server Farm.</p> |
| CSCsu51106 | Real server and backup server port for server farm should have default value. | <p>The real server and backup server port fields under the server farm should be initialized with default values for the correct server farm type. Currently, only the primary real server port is initialized with a default value of 0. According to the CLI, the minimum is 1. In addition, if the server farm type is Redirect, both the primary and backup server ports must be 0.</p> <p>There is no workaround available for this. However, Port 0 on ANM indicates that the real server is configured to take “any” port, and ANM will not send data port 0 while generating the CLI.</p> |
| CSCsu76450 | Action list name field allows special characters. | <p>The Action list name filed on the ACE allows special characters, for example, “(!!, @@@@)” but ANM does not allow them. If special characters have been used in the CLI, ANM will discover them, but you cannot create them within ANM.</p> <p>Workaround: Do not use the special characters in the Action list name.</p> |
| CSCsu77474 | The RBAC Create domain page is not displaying on Internet Explorer (IE).L | <p>The Create Domain page and the Create Role page present under Admin > Role-Based Access Control > Domains > Add, and Admin > Role-Based Access Control > Roles > Add respectively do not display the tables on IE browsers. They work fine on Firefox.</p> <p>Workaround: Clear the temporary internet files found in the Tools > Internet Options menu in IE. Reload the Create Domains or Create Roles page. The tables should display normally.</p> |
| CSCsu85936 | UI does not refresh to display new class map from reference table. | <p>When you do the following: add a Virtual Server with HTTP as its protocol, select L7 Load Balancing, add a new rule with the match condition type “class-map”, click on the “+” icon to add a new class map, and click the Close button in the Class Map window, the virtual server screen does not refresh to display the new class map.</p> <p>Workaround: Exit out of the Edit screen and return.</p> |

Table 2 **Open Caveats in Software Version 2.0 (continued)**

| Bug ID | Summary | Explanation and Workarounds |
|------------|--|--|
| CSCsv04557 | Unable to delete an RBAC user if the name has a space. | When you enter the name of a user, device, building block or global resource class with a space present the UI will issue a warning, but will not block the creation of the object if the creator ignores the warning. |
| CSCsv25150 | VS: View HTTP/HTTPS probe missing some attribute values | You may find that after you modify one or more fields for a server farm and create a new HTTP or HTTPS probe in a virtual server (Load Balancing > Virtual Servers), when you click View to display the probe attributes, several probe attributes are missing. The missing probe attribute include the Port, Password, Request Method Type, and Request HTTP URL values. Workaround: View the HTTP or HTTPS probe attributes from the Health Monitoring screen rather than from the virtual server. |
| CSCsv39249 | ACL: Not able to select Object Groups for the first ACL of a VC. | If there is no ACL on a context, then when you try to add a new “extended” ACL, both Network and Service Object Groups are not displayed under the drop down menu although they are available and can be found under Object Groups. Workaround: Create an ACL without any object groups first and then Edit the ACL to add the association with the object groups. |
| CSCsv40484 | Restore: Restoring data on ANM 2.0 shows operations state column as blank. | The CSM and CSS Polling is not automatically restarting after an ANM stop/start. This happens after ANM Restart. Workaround: Sync from CLI for each device which isn't polling. |
| CSCsv40714 | CSS/CSM: operations state column of VIP on CSS and CSM should be N/A. | The CSS and CSM Virtual Server Operational state should appear as “N/A” since this column does not apply for these devices. Instead it is empty. This happens each time. Workaround: None. |
| CSCsv40734 | Message should be refined so that it doesn't look like an exception. | Errors on the Operations pages have the string “Exception” even when errors from the device are being presented to the user. This might give the user the impression that the issue is more severe than it is. This occurs whenever an error occurs. For example when a device is unreachable, or active CSS Content Rules is being activated. Workaround: None. |
| CSCsv43603 | ANM cannot import GSS if a user with a different password is in the GSS GUI and the GSS CLI. | ANM will not be able to import a GSS if a GSS user configured with different password is in both the GSS GUI and the GSS CLI. Workaround: The GSS user should be configured with the same password in both the GSS GUI and GSS CLI. |
| CSCsv95845 | GSS background polling does not work at random times. | At random times, the GSS background polling process is not able to get the data from GSS devices. When this happens, the PGSSM Operational State for the Answer VIP on the ANM Operations page will not get updated. Workaround: Do either of the following: <ol style="list-style-type: none"> 1. Select VIP Answers from the Operations page, and click the Poll Now button to get the most recent states. 2. Wait for the next background polling cycle, and check at that time. |

Table 2 **Open Caveats in Software Version 2.0 (continued)**

| Bug ID | Summary | Explanation and Workarounds |
|------------|--|--|
| CSCsv95867 | Enable polling does not work for GSS devices. | <p>Once you disable the background polling for a selected GSS device from Monitor > Devices > Polling Settings, and then enable it, the background polling does not re-start. The GSS polling status displayed in Config > Devices will read “Not Polled”. If you double click the status hyperlink, you will get a popup that reads “Unsupported command:restart_monitoring”.</p> <p>Workaround: Go to Config > Devices, select the GSS device and then click the CLI Sync button.</p> |
| CSCsx99945 | RTSP: Probe header field should be replaced with Expect status field | <p>When you create or edit an RTSP probe for a virtual server, there is no Expect status field. The Probe Header field should be replaced with the Expect status field. Workaround: Access the Config > Load Balancing > Health Monitoring page, select the RTSP probe, and add the Expect Status.</p> |
| CSCsy06259 | Virtual Server field under Operations page of Rserver not showing values (when backup serverfarm is set) | <p>In some instances, virtual server values on the Config > Operations > Real Servers page are empty. This occurs for a virtual server that contains a backup server farm. Workaround: None.</p> |
| CSCsy06642 | ACE Activate/Suspend Rserver and Virtual server not reflecting immediately | <p>The Admin State for ACE real and virtual servers may not update immediately on the Operations pages after you make operation changes. This behavior may occur only with small configurations. Workaround: Use the Reload icon on the page.</p> <p>Note It may take multiple reloads to update the Admin state for ACE real and virtual servers.</p> |
| CSCsy09765 | On-demand polling shows polling incomplete message even when it is complete | <p>In some cases, the on-demand polling request shows the pop-up message “On-demand polling request is still not completed. Exiting and showing the currently available data.”, even though the polling has been completed successfully. This behavior occurs when the on-demand polling operation takes longer than what ANM expects. Workaround: Click OK when the pop-up message appears. The updated data will be shown on the ANM GUI screen the next time that the page auto-refreshes.</p> |
| CSCsy48343 | Operations: CSM timeout if enable password is not set | <p>You may encounter a CSM timeout if you do not have an enable password configured for the Catalyst 6500 series chassis. When the timeout occurs, you will receive a timeout message on the Operations page and you will then be unable to activate or suspend the CSM. Workaround: Specify a user who requires an enable password for the discovery of the Catalyst 6500 Series chassis into ANM.</p> |

Table 2 **Open Caveats in Software Version 2.0 (continued)**

| Bug ID | Summary | Explanation and Workarounds |
|------------|--|---|
| CSCsy90018 | Deploy ACL on ACE cause “ip df allow” & “fragment chain” configuration | When you add or edit an ACL, and the ACL is associated with one or more VLAN interfaces, ANM generates “ip df allow” and “fragment chain 112” on the VLAN interfaces. “ip df allow” is the default on ACE. However, the “fragment chain” default value “112” ANM current set is different than the default value “24” on ACE. This behavior can occur when the Max. Fragment Chains Allowed and Action For DF Bit parameters on the ANM VLAN Interfaces are with default values, and the VLAN interfaces have not been edited after the context has been imported and synchronized to the ANM. Workaround: “ip df allow” is the default on ACE; however, you must access Config > Devices > Network > VLAN Interfaces to edit the “Max. Fragment Chains Allowed” field for the VLAN interfaces. |
| CSCsy90541 | When Add/Edit ACL ANM/DM reset the Fragment Timeout for all the VLANs | <p>If you perform one of the following actions:</p> <ul style="list-style-type: none"> Create one or more VLANs from ANM and you use a nondefault Reassembly Timeout value and then synchronize the context. Create one or more VLANs through the ACE CLI with a Reassembly Timeout value, and then import this configuration to the ANM. <p>When you access the Security > ACLs screen to create or edit an ACL, and then assign that ACL to one or multiple VLANs, the ANM generates “no fragment timeout” commands for all VLANs that contain the specified Reassembly Timeout values in the context. Workaround: Access the VLAN Interfaces screen and change the Reassembly Timeout back to original value for the VLANs.</p> |
| CSCsy98121 | Parsing a “?” in ANM for a url redirection | <p>For example, if the following redirection statement within ANM is configured:</p> <p>https://xxx?refId=CONNECT</p> <p>ANM pushes only the following statement to the CLI:</p> <p>"https://xxx"</p> <p>The remaining information, starting with the “?” character, would be removed from the statement.</p> |

Table 2 **Open Caveats in Software Version 2.0 (continued)**

| Bug ID | Summary | Explanation and Workarounds |
|------------|--|--|
| CSCsy98856 | Edit ACL where ACE's have src/dest object group cause delete/re-add of ACE | From the Config > Devices > Security > ACLs screen, if you add an ACL entry to an Extended ACL which has one or more ACL entries where the source IP address, destination IP address, or both addresses are configured with a Network Object Group, the ANM removes those entries configured with Network Object Group and then adds them back. This behavior occurs typically after device import or when any CLI synchronization (auto or manual) operation has occurred on the context. Workaround: None. |
| CSCsy98915 | The ACL display for an ACE in ANM is incomplete in expanded view | From the Devices > Security > ACLs main page, for some ACL entries the Network Object Group name is not displayed in the Destination column although the destination network object group is configured. This behavior can occur happens when an ACL entry has both a source network address and a destination network address configured with Network Object Groups, and the Destination Network Object has a longer name than the Source Network Object Group. Workaround: None. |

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