



78-6469-02 11/19/99

Cisco 6400 Service Connection Manager V1.2 - Engineering Release Note

November 19, 1999

Revision	Date	Author	Comments
Issue 1	10th September, 1999	Jenny Smith	First issue
Issue 2	19th November, 1999	Jenny Smith	Second issue

Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA

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1. Contents

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2. Scope and Purpose

This document forms the release notes for the Cisco 6400 Service Connection Manager V1.2 Release (Part Number 030-005802-011). In accordance with the Atlantech TickIT Quality Procedure QR511 it describes the following :

- Configuration Control
- Master records information
- Outstanding Problems
- Changes since last release

2.1 Intended Audience

This document is intended for reading by personnel of Atlantech Technologies Ltd.

3. Configuration Management

3.1 Platform Build

The Cisco 6400 Service Connection Manager V1.2 software release is built from the following components:

- Access Vision
Label - AV_2.1.4-1
- Access Vision Patch
Label - AV_2.1.4-P1
- AVMT
Label - AVMT_1.0.9_16
Element -
/vobs/AV2/commonEM/imp/src/DialogBackend/libGraphicHandler/macAddressHandler.cc,
Label - AV_2.1.3-11

Note the Element used ensured that the AVMT package used (AVMT_1.0.9.2-Internal) did not pick up the Bug Fix for AT Luk09792 - Ethernet physical address is displayed in reverse order.

- Cisco 6400 Service Connection Manager

Imp Vob - /vobs/AV2/Cisco/6400/imp, Label - SCM_V1.2_preD

Note The label used to release SCM V1.2 is SCM_V1.2_preD. The final engineering test run used the label SCM_V1.2_preC. As the changes between the 2 versions are minor, there has been no formal testing on the label SCM_V1.2_preD. Testing carried out on the fixes in SCM_V1.2_preD has been specified within the bug reports for AT Luk10746 and AT Luk10747.

3.2 SCM Packages

The Cisco 6400 Service Connection Manager V1.2 software consists of the following packages :

- Cisco 6400 SCM Element Manager GUI - Manager and Client Package V1.2
- Cisco 6400 SCM Service\Subscriber GUI - Manager and Client Package V1.2
- Cisco 6400 SCM Controllers - Manager and Client Package V1.2

3.3 AVMT Package

The packages which the Cisco 6400 Service Connection Manager V1.2 software release depends on are as follows :

- Access Vision Management Toolkit (AVMT) AVMT_1.0.9.2-Internal

3.4 AV Dependancies

The Cisco 6400 Service Connection Manager V1.2 Software has been tested against and is therefore compatible with the 'Access Vision V2.1.4' package and the Access Vision 'Patch AV2.1.4 Patch 1'.

The installation mechanism will prevent the Cisco 6400 Service Connection Manager V1.2 being installed on any release of Access Vision prior to 'Access Vision 2.1.4). However, the installation mechanism will not prevent the installation of the Cisco 6400 Service Connection Manager V1.2 on any release of Access Vision made after Access Vision 2.1.4.

The Cisco 6400 Service Connection Manager V1.2 has not be fully tested with any release of Access Vision made after Access Vision 2.1.4.

4. IOS Version Compatibility

The Cisco 6400 Service Conntection Manager has been tested with the following IOS versions:

Engineering Testing:

- NSP IOS Version 12.0(.3) DB

- NRP IOS Version 11.3(8) DB

System Testing:

- NSP IOS Version 12.0(.4) DB
- NRP IOS Version 12.0(.3) DB

5. Changes Since Last Release

The following describes the changes made since the V1.1 release of the 6400 SCM :

- Refer to the Product Requirements Specification: PS016 - Cisco 6400 Service Connection Manager V1.2 Requirements Specification, Issue 1., for detail of new functionality and proposed bug fixes for V1.2.

6. Known Defects

6.1 Published SCM Defects

The following list represents the known published defects associated with the Cisco 6400 Service Connection Manager Component of this release :

- AT Luk06185 - The Sonet APS Screen when opened displays ERROR for all fields if Redundancy has not been configured. This is not a major problem as if Redundancy has not been configured then this screen is not relevant anyway.
- AT Luk06237 - In some circumstances a user will be unable to save fields on the More Config tab of the NLC ATM Port Config screen. This is in fact correct behaviour as the Line Coding and Line Buildout are only relevant for certain framing modes. Hence if the Framing Mode is not relevant to these fields then they should not save. However, the fields should be greyed out when they are not relevant to prevent confusion for the user. The correct behaviour of these fields is documented in the user guide.
- AT Luk06238 - There can be blank fields on the More Config tab of the NLC ATM Port Config screen. These fields appear blank because they return nothing when the Framing Mode is not relevant. The DS1/E1/DS3/E3 Phy Layer Configuration variables are completely blank. Refer to the Evaluation of AT Luk06237.
- AT Luk06329 - There is a need to produce a unique icons for the Object Manager representation of NRPs, NLCs and NSPs.
- AT Luk06378 - When the AutoDiscovery Application is used the Network node on the Map representing the first Network discovered overlaps the "Top Site" icon. The workaround is to use Map Build mode to simply move the icons around so they do not overlap.
- AT Luk06383 - The User Manual PDF files should be installed onto disk as part of installation. Currently the user will have to manually copy them off the CD into a directory of their choice.
- AT Luk06395 - Action buttons e.g. Commission, Decommission do not currently have tool tips.
- AT Luk06398 - The LHS navigation on maps not displaying full name. When navigating using the LHS on map viewer it does not display more than 16 characters e.g. "te-194.131.185.1". This will present a problem when you have many auto discovered chassis'. i.e delta between site 194.131.185.131.122 "te-194.131.185.1" & site 194.131.185.133 "te-194.131.185.1" cannot be determined

- ATLuk06401 - The NRP Management Screen shows the wrong containment path in the title. The NRP Management Screen shows its port in the containment path in the window title.
- ATLuk06402 - Removing green labelling from chassis results in stripes. Unable to remove labelling from gifs to leave gif only on chassis. Entering an empty string results in a thin green stripe being left on the gif.
- ATLuk06428 - Errored fields on Port Dialog if redundant secondary slot or sub-slot. If slots or sub-slots are configured redundant then the primary (sub-)slot will retain their port ifIndex. However, the port IfIndex of the secondary (sub-)slot are set to zero by the 6400. This results in the port dialog for the secondary (sub-)slot being Errored. Possible solutions are:
 - Prevent the dialog of the secondary port from being launched
 - Set the ifIndex of the secondary port to that of the primary port so that both reference the same data.
 - Get Cisco to do 2) internally on the 6400.
- ATLuk09788 The attribute 'Chassis System Type' is wrong. There is an incompatibility between the latest Cisco-Rhino mib and the old Cisco-Rhino mib. This results in the following: Chassis System Type shows c8510 on the Chassi Management Dialogue instead of c6400. Also when running SCM against 12.0(4) a number of attributes on the same tab have errors.
- ATLuk10163 Monitored attributes can disappear from performance manager. The workaround is to stop the system and move the monitored attribute file up to /opt/AV/config/monitoredAttributes/. Then restart the system.
- ATLuk10002 & ATLuk100027 NRP when manually deployed shows as Commissioned. When an NRP card is deployed its card state will be queried. If the card is present then it will be transitioned into the commissioned state followed by the Normal state. The workaround is to decommission the card after it has transitioned into the Normal state.
- ATLuk10084 Odd objectlist behaviour when connections are deleted. On occasions If the disconnect subscribers is launched from a connection object, when a connection is deleted the NSP objectlist can be wrongly populated. This can result in no more disconnections from this dialogue working. A workaround is to close and relaunch the dialogue.
- ATLuk09016 Select all fails on clicking right mouse button. Select all menu option not multi selecting.
- ATLuk 09228 Notes in top site Shows error.
- ATLuk09232 Site Info shows error.
- ATLuk9020: Clicking the previous and next button (quickly) on the chassis management screen cause window to have watch symbol displayed. Workaround is to close the window and relaunch.
- ATLuk10113: In Disconnect Dialog Service Instance VPI/VCI values are incorrect.
- ATLuk10538: Option not given when installing Access Vision or SCM on to a dual hosted machine. Workaround: if installing on a dual hosted machine and the network card to be used does not have it's details presented by default in the machine setup section; when prompted for "Is this Correct?" enter "n" for no and then enter the correct details.
- ATLuk10619: Can delete a site with a commissioned NSP below it.
- ATLuk10622: Alarm for description NRP EHSA Slot x is not translated to an AV alarm.
- ATLuk10625: NRP IP Address can be set to 0.0.0.0 unnecessarily when the NSP is stimulated into the discover state. The NSP can be stimulated into discover state by:

commissioning
chassis change trap
chassis fail trap
exiting the errored state

Workaround is to set the NRP IP Address to the correct value using the NRP Management Dialog.

- ATLuk10654: Predploying a DS3 card into a slot which actually contains an OC3 card can cause a core. - This has only been seen to happen from a newly installed system with no existing databases.
- ATLuk10866: IOS Download from a remote TFTP Server - the action report gives an error message but action completes successfully.

6.2 Unpublished Defects V1.2

The following list represents the known unpublished defects associated with the Cisco 6400 Service Connection Manager Component of this :

- ATLuk10473 Multiple selection of NSPs not possible
- ATLuk10821 Subscriber Policy enhancement - setting default values.

6.3 Unpublished Defects V1.1

The following list represents the known unpublished defects associated with the Cisco 6400 Service Connection Manager Component of the V1.1 release :

- ATLuk10075 Deployment of DSLAM under NSP
- ATLuk10110 Not able to commission Service When Qos Category is vbr-nrt
- ATLuk09999 NSP Logs Screen doesn't show containment initially
- ATLuk10006 MAC address in Service Instance configuration accepts alphanumeric input
- ATLuk10013 PPP-IP user name and password are editable in subscriber config mgmt
- ATLuk10014 VPI and VCI fields in the SS Connection Screen accept alphanumeric I/P
- ATLuk10089 When Subscriber Qos (PCR) is not set,connecting gives bad errmsg
- ATLuk10090 Disconnect Dialog has subscriber name editable has no effect
- ATLuk10112 Able to enter characters in Qos parameters
- ATLuk07055 Maximum Vpcs failed

6.4 Unpublished Defects V1.0.1

The following list represents the known unpublished defects associated with the Cisco 6400 Service Connection Manager Component of release V1.0.1 :

- ATLuk05972 - Unable to select multiple NRP's
- ATLuk06111 - Typo in template
- ATLuk06112 - Object details for NSP allows SNMP v3 to be selected
- ATLuk06114 - NSP Mgmt: Status config 'operational status'

- AT Luk06115 - NSP Conf Commission/Deommission buttons are hidden
- AT Luk06120 - Subscriber Containment screen is too small
- AT Luk06178 - Can we move to consistent package names
- AT Luk06212 - The NSP/NRP logs can take 3 mins to load
- AT Luk06219 - Many screens are still showing ERROR
- AT Luk06293 - Inject alarms through alarm parser
- AT Luk06342 - Alarm Pr Propagation of alarm in LC/ports not reflect
- AT Luk06367 - Some tooltips still refer to service INSTANC
- AT Luk06389 - No power shown on chassis
- AT Luk06390 - Text on Gifs for cards is unreadable at any zoom level
- AT Luk06391 - Chassis gif does not print out.
- AT Luk06392 - Rename object is confusing
- AT Luk06393 - Object name is editable but cannot be changed
- AT Luk06394 - Up arrow indicate previous log screen when no entries left
- AT Luk06424 - Tooltips need to be added to the AVMT package
- AT Luk06425 - Some traps not supported on the SCM
- AT Luk06426 - Need to decode traps to provide more information
- AT Luk06427 - Cannot launch Performance Manager from a Line Card
- AT Luk06442 - Subscriber Name attribute should be read only
- AT Luk06445 - Applied PPP-IP service profile, subnet mask not set

6.5 6400 Defects

The following list represents the known defects with the Cisco 6400 UAC itself which have knock on effects in the 6400 SCM Software :

- AT Luk05975 - Fields cannot be saved on the NRP ATM Port "Configuration Tab. Before anything will be saved the SNMP write community must be setup correctly. There are however 3 attributes which will not save even if the SNMP write community is setup correctly:
 - ILMI VCI Value
 - ILMI VPI Value
 - ILMI Keepalive Time
- This is a problem within the 6400 Embedded Software.
- AT Luk06294 and AT Luk06405 - On the Syslog tab of the NRP Logs screen, no data is displayed on the screen. On checking this table via CLI, there is data in the syslog table. However, when this table was checked using HP Openview, no data was returned. It looks as if the NRP does not populate the Syslog SNMP table "NRP Logs / sysLog tab is not populating".
- AT Luk06407 - The following lists the current problems with the Redundancy Configuration screen (Note : Most of these problems can be attributed to the appropriate MIB tables and attributes not working correctly on the NSP) :
 - NSP Redundancy Tab

The "Force Over" button does not work - The MIB attribute "c64MainCPUSwitchOver" does not work.

The "Auto Sync Configuration" does not reflect the configuration read/set by CLI. Using the HP Openview MIB Browser The MIB attribute "c64MainCPUConfigAutoSync" can only be set a value of 1 (standard) or 2(startup config). If it is set to 2 then the NSP performs a switch-over and reboots the NRPs in the Chassis.

— Slot Redundancy Tab

The slots cannot be configured to be redundant - The MIB table that supports slot redundancy cannot be read or written, therefore slots cannot be configured to be redundant

— Subslot Redundancy Tab

The sub-slot preference selector does not work - The MIB attribute for this does not work

- AT Luk06542 - When a query is performed on the c64ChassisAlarmTable an Alarm Type of 0 is returned for some of the alarms (i.e. any NRP alarms). The MIB does not seem to contain any Alarm Type enumerations for any 6400 specific alarms.
- AT Luk06545 - If the ciscoAtmIfTable is queried using a MIB Browser then the NSP returns the following entries:
 - CiscoAtmIfEntry.34.<ifIndex>
 - CiscoAtmIfEntry.35.<ifIndex>
 - CiscoAtmIfEntry.36.<ifIndex>
 - CiscoAtmIfEntry.37.<ifIndex>
 - CiscoAtmIfEntry.38.<ifIndex>

These entries are not defined in the MIB.

- AT Luk06543 - The command "show nrp-ip-address slot x" which the SCM uses on the NSP in order to determine the IP Addresses of the NRPs co-located with the NSP on occasion returns blank fields even though in previous invocations it returned the correct IP Addresses. This problem can be solved by rebooting the NSP.
- AT Luk06544 - The MIB attribute c64ChassisTempThresholdAdmin can only be set to Disabled not Enabled.
- AT Luk10158 - 6400 UAC does not support write functionality of Admin Status through SNMP
- AT Luk07047, 07048, 07054, 07055, 07056. Can't set Neighbor Interface name, Neighbour IP address, Maximum VCCs, Maximum VPCs, Max active VCI bits.

7. Controlled Documents

The following documents are related to this release :

- PS016 - Cisco 6400 Service Connection Manager V1.2 Requirements Specification, Issue 1.
- AD334 - Cisco 6400 Element and Service Management Design Specification, Issue 1.
- TS178 - Cisco 6400 Engineering Test Specification, Issue 3.
- AD388 - Cisco 6400 Engineering Test Results, Issue 3.
- TS167 - Cisco 6400 Service Connection Manager SI&T Test Strategy, Issue 1.
- TS174 - Cisco 6400 Service Connection Manager Subsystem Test Spec, Issue 03.