

HP-UX SNAplus2 Release Notes

Version R6.11.11.100

HP 9000 Systems



Manufacturing Part Number: J2745-90013

E0603

U.S.A.

© Copyright 2003, Hewlett-Packard Company. All rights reserved.

Legal Notices

The information in this document is subject to change without notice.

Hewlett-Packard makes no warranty of any kind with regard to this manual, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Hewlett-Packard shall not be held liable for errors contained herein or direct, indirect, special, incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Warranty

A copy of the specific warranty terms applicable to your Hewlett-Packard product and replacement parts can be obtained from your local Sales and Service Office.

Restricted Rights Legend

Use, duplication or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 for DOD agencies, and subparagraphs (c) (1) and (c) (2) of the Commercial Computer Software Restricted Rights clause at FAR 52.227-19 for other agencies.

HEWLETT-PACKARD DEVELOPMENT COMPANY L.P.
20555 S.H. 249
Houston, Texas 77070
U.S.A.

Use of this document and any supporting software media supplied for this pack is restricted to this product only. Additional copies of the programs may be made for security and back-up purposes only. Resale of the programs, in their present form or with alterations, is expressly prohibited.

Copyright Notice

Copyright © 1997-2003 Hewlett-Packard Development Company L.P. All rights reserved. Reproduction, adaptation, or translation of this document without prior written permission is prohibited, except as allowed under the copyright laws.

Trademark Notices

Java™ and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. Hewlett-Packard is independent of Sun Microsystems.

MS-DOS® and Microsoft® are U.S. registered trademarks of Microsoft Corporation.

OpenGL ® is a registered trademark of Silicon Graphics, Inc.

UNIX® is a registered trademark in the United States and other countries, licensed exclusively through The Open Group.

1 HP-UX SNAplus2 R6.11.11.100 Release Notes

Announcement

This version of SNAplus2 (R6.11.11.100) is supported on machines running HP-UX 11i operating systems. SNAplus2 adds two new features with this release— Configuring PCI Token Ring for SNA and support for Euro currency symbol. Customers who want to take advantage of these features must upgrade their operating systems to HP-UX 11i.

What's in This Version

This version of SNAplus2 is R6.11.11.100 and is referred to in this document as SNAplus2 R6.1. This version supports the HP-UX 11i operating system and introduces OLAR and Java CPI-C. Also, the list of hardware is updated to include additional supported servers.

Benefits and Features

- Configuring PCI Token Ring for SNA

SAM can be used to configure a PCI Token Ring adapter for use by SNA. When asked for an IP address, enter any dummy IP address value from the private address space (for example, 192.168.0.1) or any address in the following range can be used:

- 10.0.0.0 to 10.255.255.255
- 172.16.0.0 to 172.31.255.255
- 192.168.0.0 to 192.168.255.255

In future releases of SNAplus2, SAM may eliminate the need for entering these dummy addresses while configuring the Token Ring card on the system.

To remove the IP address configured on the Token Ring card, if necessary, edit the `/etc/rc.config.d/netconf` file and comment out the section related to the lan interface corresponding to the Token Ring adapter.

For example, if `lan5` is the Token Ring adapter configured for SNA, edit the `/etc/rc.config.d/netconf` file to comment out all entries related to `lan5` as follows:

```
# IP_ADDRESS[5]=192.168.0.1
# SUBNET_MASK[5]=255.255.255.0
# INTERFACE_NAME[5]=lan5
# BROADCAST_ADDRESS[5]=192.168.0.255
# INTERFACE_STATE[5]=up
```

Then, as root, execute run the following command at the command line ensure that no IP address is configured on Token Ring adapter used for SNAplus2:

```
# /usr/sbin/ifconfig lan<n> unplumb
```

where `lan<n>` is the Token Ring interface.

For more information, see SNAplus2 documentation available at <http://docs.hp.com/hpux/netcom/index.html>.

- OLAR

The letters O, L, A and R stand for Online Addition [and] Replacement. This term refers to the ability of a PCI I/O card to be replaced (removed and/or added) to an HP-UX computer system designed to support this feature without the need for completely shutting down, then re-booting the system or adversely affecting other system components. The system hardware uses the per-slot power control combined with operating system support to enable this feature.

Not all add-in cards have this capability, but over time many cards will be adding this capability. Currently, this card must be a PCI card.

For detailed information about the use of this procedure, you should refer to the *Configuring HP-UX For Peripherals* manual, HP Part Number B2355-90698. This document is available on HP's documentation web site, <http://www.docs.hp.com>.

- Java CPI-C

Java CPI-C supports the development of Java application programs that use Common Programming Interface for Communications (CPI-C) to exchange data in an SNA environment. A sample Java CPI-C program is provided. See the *HP-UX SNAplus2 CPI-C Programmers Guide*, J2744-90015 for information on compiling, linking and running the program.

Documentation

The following manuals have been revised for this release of SNAplus2:

- HP-UX SNAplus2 Administration Command Reference, J2740-90018
- HP-UX SNAplus2 Installation Guide, J2740-90022
- HP-UX SNAplus2 Upgrade Guide, J2740-90023
- HP-UX SNAplus2 Diagnostics Guide, J2740-90020
- HP-UX SNAplus2 CPI-C Programmers Guide, J2744-90015
- HP-UX SNAplus2 APPC Programmers Guide, J2744-90014
- HP-UX SNAplus2 NOF Programmers Guide, J2744-90016
- HP-UX SNAplus2 and TN3270 HLLAPI Programmers Guide, J2656-90038
- HP-UX SNAplus2 and TN3270 Glossary, J2740-90017

Known Problems and Workarounds

The following are known problems in this version:

- If you plan to use SNAplus2 on HP-UX 11i to control a large number of resources (hundreds of sessions or conversations), we recommend that you install the following O/S patch: PHKL_23445. This patch is available to download at <http://www.software.hp.com>.
- You cannot use SDLC with this release of SNAplus2 if an ACC card is installed in the system. The only way to add an ACC port using this release is to allow a machine running SNAplus2 R6.1 to manage ACC port functionality on a machine running R6.0 in a client/server environment only. No physical SNAplus2 SDLC ACC links can exist on a machine running SNAplus2 R6.1.
- Coexistence problems between SNAplus2 Release 5.x and SNAplus2 Release 6.x may occur in a mixed Client/Server environment because SNAplus2 Release 5.x servers do not support Release 6.x systems.

If you are running an SNAplus2 Release 5.x Client/Server environment, and you install a new system with SNAplus2 Release 6.x software, you must upgrade all of the SNAplus2 Release 5 systems to SNAplus2 R6.x to maintain compatibility:

For details on restrictions, refer to the *HP-UX SNAplus2 Upgrade Guide* (J2740-90023).

The following patch is available to correct a problem with the FDDI EISA driver:

- PHNE_22353 (HP-UX 11.00 for servers and workstations)

NOTE This is the latest patch as of this printing.

Compatibility Information and Installation Requirements

The following sections list the hardware and software requirements for the SNAplus2 Link product. For the hardware and software requirements for SNAplus2 User Applications, see the *HP-UX SNAplus2 Installation Guide, J2740-90024*.

HP 9000 Hardware

SNAplus2 Link requires the following HP 9000 hardware:

- An HP 9000 computer system (D, E, F, G, H, I, K, T, R, L, N, V-class or Superdome server, or B, C, or J-class workstation) *Note that Superdome systems require the HP-UX 11i and later operating system.*
- 18.9 MB of disk space
- A physical link to the SNA remote system, such as a pair of compatible modems, a modem eliminator, or a LAN connection.
- A PSI card and available slot if using SDLC. *Note that for workstations, an EISA PSI upgrade kit might also be needed.*
- A 2-port PCI Eicon card (J3525A) and available slot if using PCI SDLC. *Note that PCI SDLC is supported only on the HP 9000 L, N, V-class and Superdome servers, and the J-class workstations.*

Running SNAplus2 Link in a client/server environment requires additional LAN/9000 Link hardware components for servers or workstations, including the LAN interface card.

Running SNAplus2 Link using QLLC requires X.25 hardware and software.

Running SNAplus2 Link using Token Ring, 802.3/Ethernet, or FDDI requires hardware for each link type.

HP 9000 Software

This version of SNAplus2 Link requires the HP-UX 11i operating system and the June 2001 Support Plus Software bundle.

Running SNAplus2 Link in a client/server environment requires additional LAN/9000 Link software components for servers and workstations, including ARPA/Berkeley Sockets.

Running SNAplus2 Link using QLLC requires X.25 software.

Running SNAplus2 Link using Token Ring, 802.3/Ethernet, or FDDI requires software for each link type.

Optional

Running `xsnapadmin`, the configuration and management GUI, requires the following:

- Motif interface software
- bit-mapped display to run X11

SNAplus2 APPN End Node

The SNAplus2 APPN End Node requires the same hardware and software as the SNAplus2 Link.

Installation Requirements

After you determine that you have the hardware and software required for the SNAplus2 products you are installing, you can begin loading the product files. Be sure to have a CD-ROM drive attached to your system to read the product media. This drive should be configured on your system with an entry in the `/dev` directory.

To load the product files into the appropriate directories on your system, use the `/usr/sbin/swinstall` program. For specific instructions on using `swinstall`, refer to the *HP Software Distribution Utilities (SD) User's Guide*.

To add the SNAplus2 Environment and Link components, run the SAM SNAplus2 Installation Program on the SAM "Networking and Communications" screen.

Patches and Fixes in This Version

This section describes the patches, software and document fixes included in this version of SNAplus2.

Software Fixes

If you are upgrading from an earlier version of SNAplus2 to R6.11.11.100, here is a list of known critical and serious problems from the earlier versions that have been fixed and included in this release.

Table 1-1 Software Fixes

SR Number	Problem
8606284767	Panic from nba_mm_free/nlu_remove_partner_lu.
8606292248	ms_support parameter no more available under node definition.
8606291438	Hang in vpr_stream_uw_input_msg
8606207227	SNAplus2 panic at nba_mm_free+68 vpr_create_entity+1F8.
8606202416	t1_timeout value in xsnapadmin not used by LLC2.
8606264930	Background snap3270 for sna printing is core dumping (sigsegv).
8606221357	CPI-C application fails with CMETPN call using latest libcpic.1.
8606214345	Additional Line feeds added to the RJE job output.
8606236273	Error 16389-254 (error issuing chmod) when processing punch data.
8606242140	SNAplus2 API intermittent thread hang with Encina PPC gateway.
8606195995	Data page panic in wait_for_lock.
8606202100	SNA Process hang.
8606208520	Data Page Faults: libsixs.a nms_nah_process_mu_rsp+0x100: reg19 bad.
8606218168	System crash in SNAPPLUS2 code at nrm_bld_and_send_deact_sess+0x.
8606221968	Problem with BEA Elink product after installing PHNE_21336/20916.
8606227887	Hang with processors running v0_get_rw_lock.

Table 1-1 Software Fixes (Continued)

SR Number	Problem
8606266999	TM NMVT sent prior to UNBIND in LUA.
8606267173	RUI WRITE not completing : IPR issues in SNA.
8606268352	Critical buffer congestion detected.
8606204681	C++ CPI-C application core dumps from cmallc.
8606289627	Assert in nlu.c.
8606300552	SG TOC due to hang in sna_pcisdlc_v0_get_rw_lock.
1653299685	snap2adm: modification of LS changes adj_cp_type to END_NODE.
8606234789	Enhancement to provide the collector tool snapgetpd.
8606137427	snapsysinfo should also collect sync_wan version info.
8606289124	Change file permissions under /var/opt/sna.
8606254191	Assignment and session state bugs in lsample.c.
8606237823	CSV define_trace verb - symbolic const. incorrect.
5003393819	Request for syncpoint support for control point LU for node.
8606250478	JAVA CPI-C run-time error java.lang.UnsatisfiedLinkError.
8606295730	SNAplus2 R6.1 installation fails on DART 59 or later.
8606199884	swverify errors on /usr/share/man/man1.Z/sna.1 with SNAplus2-Common.
1653301333	R6.1020 Invalid header created in trace files prevents formatting.
1653301382	R6.1020 snapcfgdae dies when launching xsnapadmin.
1653305284	R6 11.00 SNAplus2 SAM fails to build kernel after installing PHCO_17631.
1653305805	R6: snapdaemon hangs in v0_get_rw_lock while shutting down.
1653307231	R6.1/11.0 SNAplus2 3270 cannot print whole page output with SNAPRMPL=127.

Table 1-1 Software Fixes (Continued)

SR Number	Problem
1653311605	R6:RUI_TERM fails if RUI_INIT not completed.
4701424812	Viewing config with snap2adm results in config changes.
4701425355	R6: ACC system hang when using QLLC.
4701425561	R6 SNAplus2 11.00 Dynamic tp load fails after 2 hrs under load.
4701428094	R6.10.20 SNAplus2 Link - EISA PSI link fails to start without DSR.
4701429621	R6.10.20 SNAplus2 LINK -Dep. APPC LU, no BIND from host following outage.
4701431064	R6.11.00 SNAplus2 panic at streams_uninput+0x88 sixr mux unlink panic.
5003455253	Sending SIGTERM to HLLAPI library causes core dump.
5003462630	R5.1 SNAplus2 3270 printers report prog. chk 442 after system outage.
5003465237	R6: Snap3270 status line not displayed when in DO NOT ENTER condition.
5003466367	R6.11.00 SNAplus2 3270 system hang (looping) at nch_ssc_receive+0x9b8.
5003467290	R5.1 SNAplus2 does not adjust max BTU for largest frame size on tr rout.
5003469213	R5.1 SNAplus2 3270 printer hangs with send/rec RU 0 bytes in BIND.
8606101513	R6:CMRCV should return status CM_SECURITY_NOT_VALID.
8606102608	R6.11: str_info flags field does not have MGR_IS_MP flag set in router.
8606102678	R6 snap3270 printer tail +2 lp -dxxxx does not print to spooler.
8606104367	SNAplus+2 R6.11.00 Panic in svphpoll+0x44 using EISA ACC sdlc.
8606105164	Link Down after a HMOD assert message printed on sna.err.
8606105839	R5.1 LUA receives UNBIND ind. when DACLU/UNBIND processed by the node.

Table 1-1 Software Fixes (Continued)

SR Number	Problem
8606106196	SNAplus2 R6.10.20 - Unable to add SDLC on T500 system - SAM core dumps.
8606106251	SNAplus2 R5.1 API PHNE_14874 incorrectly refs ../../o/lib/libnof.sl.
8606106291	R6.11.00.201 NIO PSI panic at sdl_reset_port+0x13c with SDLC L2 tracing.
8606106415	SNAplus2 R6.10.20 System panic when starting SDLC Link with PHNE_19407.
8606106417	R6.11.200 snap3270 error msg "Unable to open the configuration file".
8606107303	SNA SAM should not install sixw on machines with no PCI bus.
8606110474	R5 Snapadmin - deactivate_session for 3270 is not supported in SNAplus2.
8606110538	Enhance Snapplus2 xsnap3270 so title changes are immediate.
8606110894	R5 snap3270 is stopped and restarted, then HA_CONNECT_PS returns RC=9.
8606111714	R6.11.00 snamsfg fails with "Unable to open catalog file ./vsnamsg.cat".
8606111815	R6.1029 SID's ABM bit error on starting a QLLC connection.
8606112613	R6 SNAplus2 CICS for HP-UX fails to run after installing PHNE_17820/19071.
8606127677	SNAplus2 R6.11.00 - sdlc & link port remain in stopping state.
8606128040	R6.11.64 bit system panic in nba_mm_free/nlu_remove_mode.
8606128605	3270 LUs show inactive on HP system, while IBM system shows them as active.
8606134781	SAM/ SNA: Cannot find tunable parameter - num_boards_3525.
8606135068	SNAplus2 R6.11.00 reboot required to activate sdlc LS once deactivated.
8606144341	R6.11.00: SNAplus2 support needed on ACC SDLC PCI interface.
8606144657	R6,10.20: system panic in ncs_destroy_an_cv_if_required (libsixr.a).

Table 1-1 Software Fixes (Continued)

SR Number	Problem
8606151854	SNAplus2 R6.11.00.BB panicked in function nrm_process_cnos_reply+270.
8606158330	R6.10.20 APPC UNKNOWN VERB returned after RECEIVE_ALLOCATE_EX issued.
8606164859	Autodial not working on EISA SNAplus2 migration.
8606166322	R6.11 64-bit: LUA gets invalid data when received RU is segmented.
8606172744	query_available_tp gives wrong information after multiple copies of TP run.
8606173811	Crash in qenable from vpr_timer_tick during san stop.
8606179959	HLLAPI PAUSE does not work after pipe rework.
8606184850	HLLAPI verbs rejected with rc of 9 during initialization race.

Documentation Fixes

The following changes have been made to the documentation and will become effective with this release.

Table 1-2 Documentation Fixes

SR Number	Problem
1653245936	SNAplus2 Internal Trace not clear. (Corrected in Diagnostics Guide).
1653298133	Missing parameters in the SNAplus2 Admin. Command Reference.
4701430256	Device file information is misleading in the SNAplus2 Installation Guide.
5003392456	query_conversation command needs documenting in Admin Command Reference and NOF Programmers Guide.
8606102735	APPC Programmers Guide incorrectly describes the Attach_id parameter.
8606109564	Critical information omitted for Start Host Notification function in HLLAPI Programmers Guide.

Table 1-2 Documentation Fixes (Continued)

SR Number	Problem
8606110474	deactivate_lu_0_to_3 not currently documented in NOF Programmers Guide.
8606110597	Incorrect parameter (card_type) listed for define_tr_dlc, define_ethernet_dlc and define_fddi_dlc commands in the SNAplus2 Admin. Command Reference.
8606131734	define_qllc_port address documentation is incorrect in the Admin Command Reference.
8606180348	AP_UNEXPECTED_SYSTEM_ERROR documented incorrectly in the APPC Programmers Guide.

Patches

This release of SNAplus2 contains PHNE_26062.

Software Availability in Native Languages

This version of SNAplus2 is available only in English.