

# IB4X-00 Driver for InfiniBand Release Notes

## Version Numbers B.11.31.0909/B 11.31.0909.1

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This document provides information about the B.11.31.0909 (AR0909) and the subsequent B.11.31.0909.1 (WR0909) releases of the HP IB4X-00 driver for InfiniBand.

## IB4X-00 Driver for InfiniBand Overview

Starting with the B.11.31.0909 release and the WR0906 release, the HP IB4X-00 Driver for InfiniBand supports Reliable Datagram Sockets (RDS) Protocol for the Oracle RAC environment.

## New and Changed Features in This Release

### New Features

The following feature is new with the B.11.31.0909 version of the IB4X-00 Driver for InfiniBand:

- Reliable Datagram Sockets Protocol for Oracle RAC environments.

### Changed Features

The following feature has been changed with the B.11.31.0909 version of the IB4X-00 Driver for InfiniBand:

- There are no changed features with this release.

## Known Problems Fixed in This Version

Table 1 lists the issues that have been fixed in the IB4X-00 Driver for InfiniBand HP-UX 11i v3 September 2009 WR0909 release. Table 2 lists the issues that have been fixed in the IB4X-00 Driver for InfiniBand HP-UX 11i v3 September 2009 AR0909 release. To view the entire details of each issue fix, refer to the HP IT Resource Center at: <http://forums1.itrc.hp.com/service/forums/home.do>

**Table 1 HP-UX September 2009 (WR0909) Fixes**

Defect ID	Description
QXCR1000940168	The DART81 BA929AA 11iv3 VSE OE software with InfiniBand adapter 448397-B21 failed to boot at the <code>ESWL_IGNITEUX</code> stage, due to timeout at <code>iux_monitor_reboot</code> . The driver code has been modified to resolve this issue.
QXCR1000946862	The new <code>itutil</code> command option, <code>x</code> , has been provided to display the link speed of an InfiniBand interface.
QXCR1000938720	In the cluster environment, where HP-UX and Linux nodes are connected to the switch, whenever the HP-UX node reboots, there is an LID change at the HP-UX node, which is non-compliant with InfiniBand subnet manager protocol.
QXCR1000938766	The PM subsystem in the InfiniBand driver is not responding to <code>ClassPortInfo</code> requests. For this reason, some of the Linux/OFED tools generate an error when there is an HP-UX host in the cluster. The tools affected are: <code>ibcheckerrs</code> <code>ibcheckerrors</code> <code>ibdatacounters</code> <code>ibclearcounters</code> <code>ibclearerrors</code>
QXCR1000962014	There is a shutdown error during CVA, due to an issue with the RDMA/InfiniBand Driver Control Script.

**Table 2 HP-UX September 2009 (AR0909) Fixes**

Defect ID	Description
QXCR1000914516	RDS: socket descriptor leak in <code>rdmad</code>
QXCR1000925537	RDS: application crash in <code>rds</code> user library

**Table 3 HP-UX March 2009 Fixes**

Defect ID	Description
N/A	There are no known problems fixed in this version of the IB4X-00 driver.

**Table 4 HP-UX September 2008 Fixes**

Defect ID	Description
QXCR1000811373	System panic on systems with low memory.
QXCR1000767358	InfiniBand reports erroneous timeout, when xntp changes system clock.

## Known Problems and Limitations

This section provides a list of known problems and limitations as known to HP at time of publication. If workarounds are available, they are included.

- **Installation of IB4X-00 Requires Reboot**

The IB4X-00 product bundle has four components:

1. IB subsystem (IB RDMA)
2. IPoIB
3. IB device driver (`ib_t`)
4. RDS driver

The `ib_t` driver is dynamically loadable via the DLKM, but the IB4X-00 bundle as a whole requires a reboot on install, due to the presence of other static drivers in the bundle.



**NOTE:** A complete DLKM infrastructure is required to enable the DLKM feature of the driver, which requires that you install the following three kernel patches:

1. PHKL\_36387
2. PHKL\_36332
3. PHCO\_36371

- **Use Consistent OS and Software Versions in the Fabric**

HP requires all systems in the fabric to use both the same HP-UX OS software version, and the same HP-UX Fabric Clustering System for InfiniBand software version, such as version B.11.31.0909 or B.11.31.0909.1.

HP requires all switches in the fabric to use the same firmware image version such as: HP-374305-001-Release-2.5.0hp-build014.img

Use the latest software and switch firmware available online at: <http://support.hp.com>.

1. Select *Software and Driver downloads*.
2. Enter your product name.
3. Click the double arrow.

Refer to the section "Configuration, Image, and Log Files" in the *HP Fabric Clustering System HP-UX Administrator's Guide* for details.

## Compatibility and Installation Requirements

For specific compatibility requirements and installation instructions, refer to the Installation Guide specific to your HBA, which can be found at <http://www.docs.hp.com> in the *I/O Cards and Networking Software* section, under *Fabric Clustering System for InfiniBand*.

## Operating System and Version Compatibility

This release is specific for HP-UX 11i v3.

## Hardware Requirements

This version of the HP IB4X-00 driver for InfiniBand runs on HP Integrity servers with the HP-UX 11i v3 (11.31) operating system. For a complete list of supported servers, see the *HP Fabric Clustering System for InfiniBand Support Matrix* at <http://www.docs.hp.com> in the *I/O Cards and Networking Software* section, under *Fabric Clustering System for InfiniBand*.

RDS is only supported on AH304A and 448262-B21 InfiniBand cards.

## Related Information

The latest documentation for the HP IB4X-00 driver for InfiniBand is available in English at <http://www.docs.hp.com> in the *I/O Cards and Networking Software* section, under *Fabric Clustering System for InfiniBand*. Available documents include a Support Matrix and two White Papers:

- *HP Fabric Clustering System for InfiniBand Support Matrix*
- *HP Fabric Cluster Interconnect Performance on HP-UX*
- *HP Fabric Clustering Topologies*

## Software Availability in Native Languages

The HP IB4X-00 driver for InfiniBand product is available only in the English language.