

Broadcom Limited
Broadcom Ethernet Controllers Software Kit
BCM5741x/5750x/57608 Release
RELEASE 238.1.138.6a

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Summary

- This is a Gold Release of 57608 (Thor 2), 5750x (Thor) and 5741x (Whitney+) Ethernet adapters.
- This release is based on SIT build 238.1.138.6a
- Certified EFI, Windows, SUSE and VMWare ESX drivers are marked with an asterisk in the 'Release Version Information' Table.
 - SUSE signed packages are available in '**Driver**' → 'Broadcom NetXtreme-E Linux Installer' under 'drivers_linux/bundle/sles_signed' folder
 - ESXi signed drivers are available in '**Driver**' → 'Broadcom NetXtreme-E ESXi Drivers'
Note: ESXi signed drivers until 230 release are to be downloaded from VMware.com
 - Windows signed drivers are available in '**Driver**' → 'Broadcom NetXtreme-E Windows Drivers'

Supported Devices

This release of software supports:

- Broadcom BCM57412 NetXtreme-E 10Gb Ethernet Controller
- Broadcom BCM57414 NetXtreme-E 10/25/50Gb Ethernet Controller
- Broadcom BCM57416 NetXtreme-E 10GBASE-T Ethernet Controller
- Broadcom BCM57502 NetXtreme-E 10/25/40/50Gb Ethernet Controller
- Broadcom BCM57504 NetXtreme-E 10/25/40/50/100Gb Ethernet Controller
- Broadcom BCM57508 NetXtreme-E 10/25/40/50/100/200Gb Ethernet Controller
- Broadcom BCM57608 NetXtreme-E 25/50/100/200/400Gb Ethernet Controller

User Guide

Please refer to the following user guide for configuring Broadcom Ethernet Adapters:

[Broadcom Ethernet Network Adapter User Guide](#)

Supported Operating Systems

Please refer to the following guide for the list of supported Operating Systems:

[Supported Operating Systems for Ethernet Network Adapters](#)

DOCA and MOFED Support

Please refer to the following section in the user guide for the supported versions:

[Supported DOCA and MOFED versions](#)

Supported Cables

Please refer to the following guide for the list of supported cables and transceivers:

[Supported Cables for Broadcom Ethernet Network Adapters](#)

These cables and transceivers were tested and deemed interoperable with Broadcom's Ethernet network adapters. Note this list does not imply full qualification of the cables.

Common Feature Support

Common support for 57608 (Thor 2), 5750x (Thor) and 5741x (Whitney+).

The features below are supported in this release along with new features and enhancements listed in the “Features and Enhancements” section.

Core Support

- Base Ethernet Functionality (L2 drivers)
- Link Establishment & Maintenance: Auto Negotiation, Auto Detect, Link Training
- Pre-Boot: uEFI, iPXE, uEFI iSCSI stack

CPU Support

- Intel x86
- AMD x86
- ARM

GPU Support

- Nvidia GPUs
- AMD GPUs

Poll Mode Drivers

- DPDK support

Management

- NC-SI 1.2
 - RBT/RMII
 - MCTP/SMBus or I2C
 - MCTP/PCIe VDM
 - Control Path

- Passthrough (SH and MH)
- SMBus Discovery
- MCTP Discovery
- PCIe
- PLDM/MCTP
- LLDP/DCBX
- Firmware based DCBX

Reliability, Accessibility, Serviceability (RAS)

- Health check
- Coredump and Crashdump
- Firmware Logging in Host
- Error recovery Support
- Monitoring (ethtool, RoCE stats)

Security

- Secure boot
- SPD 1.2, 1.1, 1.0 - Attestation
 - MCTP over SMBus and PCIe VDM
- CNSA 1.0
- Anti-Rollback
- FW Key Revocation
- Secure firmware updates

AI Libraries (Thor and Thor2)

- ROCm Support
- Communication and Collectives Libraries
- Open MPI
- Generic UCX Support
- rdma-core
- MVAPICH
- libfabric

Thor 2 Feature Support

The features below are supported in this release along with new features and enhancements listed in the “Features and Enhancements” section.

Core support

- Multi-root and Multi-host GA support
- Flow-redirect
- SR-IOV
 - Max VFs = 128
- NPAR
 - Max total NPAR endpoints = 16
 - Max per port: Dual Port = 8, Quad Port = 4
- TruFlow Generic Application
 - Multi-root, multi-card support
 - Hot upgrade/Shared session
 - Socket Direct
 - Generic flow query
 - LAG
 - Interface handling
 - HW LAG with Global table scope support
 - RoCE Tx ring pairing with HW LAG support
- OvS offload (kernel and DPDK)
 - OvS DPDK and TC GA
 - SRV6 encap/decap support
 - MPLS encap/decap for TC support
- DOCA support
- MOFED support

RoCE

- Supports RoCEv2 (v1 is deprecated)
- LAG
- RTT
- Programmable UDP Source Port
- Adaptive Routing (DLB)
- RoCE/SRIOV
- tcpdump direct capture of RoCE traffic
- RoCE support in NPAR for Linux
- RoCE Tx Pairing
- FreeBSD support
- RoCE Tx ring pairing with Multi Lossless support
- Minimum of 64 VF support
- HW retransmit support
- VF RDMA on ESXi host support
- GPUDirect Async (GDA) support

Miscellaneous

- PTP
- Transmit Pacing
- Allow HW DCQCN and UDCC to coexist
- PCIe Trace Analyzer support
- Linux kTLS offload support
- FreeBSD kTLS offload support
- NIC Telemetry Agent
- Geneve encap/decap support
- Reset firmware using devlink reload command
- Port breakout support on single and dual port Thor2 adapters
- FW update activation without reboot
- UDP GSO general segmentation offload in Linux
- LEDs toggle support
- PPP over GRE Support
- Secure ATS Solution

Thor and Whitney+ Feature Support

The features listed below may not be supported for both 5750x (Thor) and 5741x (Whitney+). Please contact the local Broadcom support team if additional clarification is needed.

The features below are supported in this release along with new features and enhancements listed in the “Features and Enhancements” section.

RoCE (Thor)

- RoCE drivers
- RoCE Mirroring
- RoCE performance profiles
- Windows user mode RDMA support - NDSPI
- Guest Mode RDMA support (Linux and Windows only)
- VSAN over RDMA
- Multi-Root RoCE
- RoCE SR-IOV
- Error Recovery for RoCE
- RoCE Performance tuning
- RoCE Userlib Performance Optimization
- FreeBSD RoCE v2 support
- Co-existence with MLNX IB/RoCE NIC
- tcpdump direct capture of RoCE traffic support
- VF RDMA on ESXi host support

RoCE (Whitney+)

- RoCE drivers
- VSAN over RDMA
- RoCE performance profiles
- Windows user mode RDMA support - NDSPI

Miscellaneous

- Network Partitioning NPAR 1.2
- PTP
- NVMe/TCP Support (VMWare cert)
- NIC thermal threshold and shutdown logging and handling by host driver
- PLDM FW Update 1.3.0 Support for multiple PCIe Rev IDs and embedded FW measurement (Thor)
- Adaptive QoS (Thor)
- Hot-Plug support for OCP 3.0 (Thor)
- PAM4 speeds are enabled by default (Thor)
- Kubernetes SR-IOV Network Device Plugin support with RoCE (Thor)
- Thor Quality Improvements with MPS and TI VR support for various SKU
- Local node memory allocation - Page pool per NUMA node support
- ADQ (Application Device Queues) Support (Thor)
- QP Scanning Performance Improvement for up to 64K QPs (Thor)
- Adapter Discovery Support (Thor)
- AMD SDCI No ST Mode and Interrupt Vector Mode Support (Thor)
- Support dynamic port breakout to 2-ports or 4-ports (Thor)

NIC Utilities

Common utilities for 57608 (Thor 2), 5750x (Thor) and 5741x (Whitney+)

Please refer to the following link for detailed descriptions of all the tools:

[Ethernet Network Adapter Utilities](#)

Features and Enhancements

The following features and enhancements are added in this release.

RoCE & RDMA enhancement

JIRA/Adapter	Feature Description
DCSG-100267 Thor2	RDMA Write with Immediate operation Enhancement.
DCSG-54687 Thor/Thor2	Core Thor firmware is updated so RoCE link aggregation (LAG) is allowed when NPAR is enabled and the function layout has more PCI physical functions (PFs) than physical ports. Previous firmware enforced restrictions (partition count / NPAR interaction) that prevented this combination from being configured.
DCSG-71061 Thor	Thor/Thor2 allow the user to control congestion control settings via a preset config file, specifying lists of “congestion control table parameters” entries, each corresponding to a unique set of input combinations of factors such as link speed, port RoCE MTU and numbers of QPs.
DCSG-71062 Thor2	Dynamically apply congestion control parameters from the preset configuration. Preset configuration can be defined based on the number of active RoCE Queue pair count. NIC device will apply the settings dynamically by monitoring the active RoCE Queue paircount.
DCSG-73784 Thor2	Adds support for bifurcation mode to RoCE driver that enables DPDK application to create resources like QP, CQ etc via RoCE Direct Verb. This new interface enables DPDK and L2 driver to co-exist so that customers can use the NIC interface for network applications as well as DPDK applications.
DCSG-76307 Thor	Adds support for NVM configured RoCE MSIX limit in the RoCE driver. This new feature enables support for up to 256 MSIX vectors which were earlier hard-coded to 64.
DCSG-84558 Thor2	Validates L2 and RoCE driver support across multiple DOCA releases on Debian OS with various kernel configurations.
DCSG-85380 Thor2	The feature provides hypervisors and host administrators with granular control, allowing them to explicitly configure custom resource limits —

such as MSI-X vectors and RoCE contexts —on a strict per-VF basis before attaching the VFs to Virtual Machines (VMs).

DCSG-87028 Thor2	Supports upstream rdma-core inbox library to work with out of box driver.
DCSG-95473 Thor	The RoCE driver now trusts and uses the same DSCP and SL (service level) values passed by the application without any validation or fall-back to the default values. And service level is also handled by the RoCE driver only for VLAN interface.

AI/ML & GPU Direct

JIRA/Adapter	Feature Description
DCSG-82028 Thor2	DKMS deb packages now install <code>bnxt_en</code> / <code>bnxt_re</code> (and related) modules under <code>updates</code> instead of <code>extra</code> . This change ensures the <code>peer_mem</code> DKMS package is compatible with newer OS versions.

L2 Networking, Virtualization & Performance

JIRA/Adapter	Feature Description
DCSG-70955 Thor2	This feature introduces a mitigation strategy for unexpected Transmit Priority Flow Control (Tx PFC) events and high PCIe read latencies observed on systems with Turin CPUs.

FreeBSD Driver Enhancements

JIRA/Adapter	Feature Description
DCSG-96797 Thor2	Improvements to FreeBSD driver debuggability.
DCSG-96798 Thor2	Improvements to FreeBSD counters and statistics.

DPDK Enhancements

JIRA/Adapter	Feature Description
DCSG-56470 Thor2	Supports handling of PTP frames in the packet receive path.
DCSG-62439 Thor2	Timestamp Support in DPDK for Thor2 implements Timestamp Support in DPDK for Thor2. Added reporting timestamps by parsing TX completions.
DCSG-69066 Thor	Adds support for querying link statistics even if the link is down.

NIC Wizard & Installer

JIRA/Adapter	Feature Description
DCSG-71326 Thor2	Comprehensive solution for deploying Broadcom NetXtreme-E network adapter drivers,libraries, and tools to multiple remote servers simultaneously.
DCSG-82465 Thor2	Integrates the existing ATS host scripts into the NIC_Wizard framework with a consistent user-facing interface and updated documentation.
DCSG-82475 Thor	This feature introduces an interface change for verification of L2 and RoCE parameters.Enhanced syscheck RoCE verification to support configurable parameters viaoceConfigFile. Introduces a tabular reporting format (Category, Message,Recommendation) for clearer presentation of system misconfigurations.
DCSG-84271 Thor2	This feature introduces a unified error and warning management system to summarize all errors and warnings generated by a nic_wizard command upon its completion. The primary goal is to replace fragmented inline logging, which often causes users to miss critical failures that scroll off-screen, with a consolidated, actionable summary.
DCSG-84317 Thor2	This feature enables the configuration of Layer 2 (L2) and RoCE bond interfaces (LinkAggregation Groups or LAGs) using the nic_wizard installer tool. The purpose of link aggregation is to provide high availability and increased aggregate bandwidth by balancing traffic across multiple physical interfaces.

DCSG-84320 Thor2	The Broadcom NIC Wizard is enhanced to support performance testing on bond interfaces (Link Aggregation Groups or LAGs) for Linux operating systems (RHEL, Debian,SLES). This functionality is delivered through Nictune for Layer 2 (L2) performance tests and RoCE Analyzer for RDMA performance tests.
DCSG-89232 Thor2	Adds graph option for runtime monitoring attributes. The NIC Monitor Graph Featureprovides real-time ASCII-based graphical visualization of device monitoring data. This feature enables users to visualize temperature, error counts, and other metrics over time using text-based graphs displayed directly in the terminal.
DCSG-89233 Thor2	The NIC Monitor provides real-time ASCII-based graphical visualization of device monitoring data

NICCLI & Diagnostics

JIRA/Adapter	Feature Description
DCSG-71082 Thor2	Adds support for cable, dscdump and nvm read/write commands in UEFI niccli.
DCSG-71793 Thor2	Adds local module control cmd: ; Power up/down ; Tx Disable ; Disable FEC.
DCSG-71794 Thor2	To show a descriptive error message to the user, for invalid or unsupported commands are given.
DCSG-72343 Thor2	A "restore link defaults" option is being added to specifically reset link-related NVMparameters (such as speed, FEC, and auto-negotiation) to their factory or onboard defaults without affecting other customer configurations in the system config.
DCSG-80476 Thor2	When link settings are changed by third-party tools (including niccli), the driver will correctly be able to detect these changes. If ethtool (or another tool) is used to query the link parameters, the driver will send the correct link information.
DCSG-80650 Thor2	Added a command in niccli to list peer memory mapping details.
DCSG-83217 Wh+	Adds support for firmware upgrade on multiple adapters simultaneously without requiring an individual adapter identifier. Supports concurrent

firmware flashing across multi-NIC systems to reduce deployment downtime, including a `--parallel` flag for use with native upgrade mode.

Firmware & Debugging

JIRA/Adapter	Feature Description
DCSG-43797 Thor2	Allows XDP_REDIRECT and XDP_TX actions to work on the same netdev.
DCSG-52115 (Thor) DCSG-52116 (Thor2)	Adds firmware support for fixed-regions NVM layout programming. The NVM may be in one of the two layouts: (1) the legacy layout where the binaries are dynamically allocated, or (2) the fixed-regions layout where specific binaries are assigned to specific offsets with pre-allocated, reserved sizes to accommodate binary size growth.
DCSG-60481 Thor2	Improves packet receive performance on systems with NPS (NUMA Nodes Per Socket) set to 4 by increasing the number of default receive rings to cover beyond the NUMA node closest to the NIC.
DCSG-62858 Wh+	Plot eye diagram on both PCIe and Ethernet side for Wh+.
DCSG-62907 Thor2	Improves CMIS v4 and later compliant module handling in general.
DCSG-63563 Wh+	Adds support Thermal Reporting keyword in PCIe VPD.
DCSG-63564 Thor2	Enables support for allowing Host to get Thermal reporting information from the board. The values of AFI Level, MaxTherm, DTherm, and MaxAmbient as defined in Chapter 12 of the PCIe CEM spec will be reported to the host.
DCSG-71480 Thor	Gray out HII option "Permit Total Port Shutdown" when NPAR is enabled.

DCSG-71481 Wh+	"Permit Total Port Shutdown" operation is not supported from HII pages when NPAR is enabled.
DCSG-73069 (Wh+) DCSG-73083 (Thor)	When firmware is in non-operational state, firmware copies the crash dump data into the DDR. Where user can retrieve the crashdump from the user space in the same state.
DCSG-74550 Thor2	Adds support for coredump to DDR and FW logging to backing store in host memory.
DCSG-76654 Wh+	Added the NC-SI package_ID field in the attribute information. Updated get_adapter_attribute command to show package id value along with assigning method.
DCSG-78130 Thor2	Adds support for Hierarchical ETS using Scheduler Groups(SGs) to enable bandwidth partitioning on the port for VMs. This covers the Phase 1 requirements for a single-VM configuration, including new HWRM APIs for SG allocation, configuration, and free operations.
DCSG-81341 Thor2	Ability to enable te_bypass feature at runtime by setting ENABLE_ROCE_OPTIMIZED_TRANSMIT NVM option.
DCSG-83210 Thor	Adds PCIe FLR support. Add reset_prepare and reset_done callbacks to support sysfs-triggered PCIe Function Level Reset (FLR).
DCSG-84853 Thor	Provides a cable self-qualification kit for validating optic transceivers on Thor adapters.
DCSG-93039 (Thor) DCSG-93040 (Thor2)	Updates the execution module to support rebootless firmware activation.
DCSG-93776 Thor2	Operate NIC in a lower power mode when configured. The NIC must be configured at the factory with a one-time-programmable speed limit of either 100Gbps or 200Gbps in order to enable the power save mode. The NVM configuration option enable_power_reduction must also be set to true. This is not an option that is configurable using niccli.

BMC, NCSI & Platform Management

JIRA/Adapter	Feature Description
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DCSG-59534 Thor	NC-SI OEM Commands support for LLDP forwarding This change adds support for 4 new NC-SI Broadcom OEM commands, defined to facilitate LLDP packet forwarding to BMC on BCM5750X and BCM5760X through NC-SI over MCTP over PCIe Vendor Defined Messages / SMBus.
DCSG-60564 Thor2	Adds support to new NC-SI OEM commands to forward LLDP packets to and from BMC on NC-SI over MCTP over SMBus or PCIe This change adds support for 4 new NC-SI Broadcom OEM commands, defined to facilitate LLDP packet forwarding to BMC on BCM5750X and BCM5760X through NC-SI over MCTP over PCIe Vendor Defined Messages / SMBus.
DCSG-63562 Wh+	Introduces support for NCSI 1.2 command, Set Module Mgmt Data.
DCSG-75216 Thor2	Added support for the "Entity Auxiliary Names PDR type in the GetPDR PLDM command for Thor2 firmware.
DCSG-75582 Thor	Correct IANA ID in response from MCTP Over VDM.

Defects Fixed

The following defects are fixed in this release.

RoCE & RDMA

JIRA/Adapter	Defect Description
DCSG-120978 Thor2	Fix incorrect calculation of QP occupancy count.

L2 Networking, Virtualization & Performance

JIRA/Adapter	Defect Description
DCSG-168072 Thor	Reject ntuple/tunnel/QUIC filter alloc when caller does not own the referenced L2 context or destination VNIC.

DCSG-112744 Thor2	Correct RSS TCAM profile ID in 2 entries.
DCSG-120700 Thor	AFM: Fix all-multicast flow free and stale xcast AR pointer.
DCSG-113257 Thor	VxLAN-GPE inner checksum offload fails for non-NSH encapsulated traffic.

PHY, Link & Transceiver

JIRA/Adapter	Defect Description
DCSG-126883 Thor2	Re-probe SerDes after runtime core reset to restore REFCLK_SEL.
DCSG-121622 Thor2	Reduce time to read CMIS VDM data after module insertion.

Pre-boot & UEFI

JIRA/Adapter	Defect Description
DCSG-136777 Thor2	NVM: Fix vfs_per_pf configuration failure from UEFI.

Firmware & Debugging

JIRA/Adapter	Defect Description
DCSG-111194 Thor2	Restore factory defaults of link options fails.

BMC, NCSI & Platform Management

JIRA/Adapter	Defect Description
DCSG-122079 Thor	Bad port speed in MCTP VDM Get PCIe Adapter Attributes response.
DCSG-134638 Thor2	Coredump collection failure via MCTP over SMBus.

Notes

RoCE Related:

- The default RoCE congestion control algorithm is DCQCN-P.
- The IPv4 RoCE v2 GID index for a typical case is 3. Please refer to the User guide for best practices in determining GID type using the Linux sysfs interface.
- ETS has limitations in the RoCE LAG environment in port toggle scenarios

Generic UCX Support for Single Host non-virtualized environments:

- OpenMPI with UCX PML
- OSU microbenchmarks with OpenMPI/UCX
- UCX perf test
- RDMA Transport
- Atomic operations with UCX are not supported

RoCE and NPAR:

- If NPAR is enabled, RoCE and ENS cannot be used together

Usage and Release folder structure

Firmware NVRAM Images:

- Pre-built NVRAM package files are available in the 'board_sku_files' folder under '**Driver**' → 'Broadcom NetXtreme-E Linux Installer'
- NVRAM package files are also available in the '**Firmware**' tab on the respective Ethernet Adapter product page.

Linux:

- There are several Linux related drivers/packages in the 'drivers_linux' folder under '**Driver**' → 'Broadcom NetXtreme-E Linux Installer'
 - bundle: Bundle for L2 and RoCE drivers source and DKMS packages. This also contains SUSE signed driver packages

- bnxt_en: L2 driver source and DKMS packages
 - bnxt_re: RoCE driver DKMS packages
 - bnxt_rocelib: RoCE library source and RPM
 - peer_mem: GPU Direct driver
- DCSG00411462.self.cert.der: Secure boot openssl certificate
 - readme_secure_boot.txt: Secure boot readme
 - There are 2 tarballs in the drivers_linux folder, the "bnxt_en-x.x.xx.tar.gz" is the L2 driver only and the "netxtreme-bnxt_en-x.xx tar.gz" file is the combined package with L2 and RoCE drivers.
 - For the Linux driver included as part of the SW package please refer to the "Readme.txt" file included in the driver tarball for commands, driver settings and other important information.

Tools:

- NIC Wizard:
 - Unified interface for integrating and running different NIC scripts/tools.
 - This tool is available in the 'utils/nic_wizard' folder under '**Driver**' → 'Broadcom NetXtreme-E Linux Installer'.
- niccli:
 - Tool used for updating NVRAM, including firmware updates and configuration parameters.
 - This tool is available in the 'utils/niccli' folder under '**Driver**' → 'Broadcom NetXtreme-E Linux Installer' for Linux OS.
 - The tool for different OSes is available under the '**Firmware**' tab.
- Broadcom Containers:
 - Broadcom RoCE Docker container.
 - This tool is available in the 'utils/bcm_containers' folder under '**Driver**' → 'Broadcom NetXtreme-E Linux Installer'.

FreeBSD: FreeBSD drivers are available under '**Driver**' → 'Broadcom NetXtreme-E FreeBSD Driver'

VMware: ESXi signed drivers are available under '**Driver**' → 'Broadcom NetXtreme-E ESXi Drivers'

Windows: Windows signed drivers are available under '**Driver**' → 'Broadcom NetXtreme-E Windows Drivers'

Release Version Information Table

Product	Version	Previous Version
Firmware NVM Package	238.1.138.6	<< 237.1.148.0
Linux L2 Driver	1.10.3-238.1.138.5	<< 1.10.3-237.1.137.0
Linux RoCE Driver	238.1.138.5	<< 237.1.137.0
Linux RoCE Library	238.1.138.5	<< 237.1.137.0
Linux GPU Driver	238.1.138.5	<< 237.1.137.0
Win Srv 2022 x64 Driver	238.1.110.0*	<< 237.1.124.0*
Win Srv 2025 x64 Driver	238.1.110.0*	<< 237.1.124.0*
Win 11 x64 Driver	238.1.110.0*	<< 237.1.124.0*
VMware ESX8.0 L2/RoCE Driver	238.1.122.0*	<< 237.1.132.0*
VMware ESX9.0 L2/RoCE Driver	238.1.122.0*	<< 237.1.132.0*
FreeBSD BNXT Driver	238.1.136.0	<< 237.1.126.0
Nic Wizard	238.1.138.3	<< 237.1.146.0
Niccli	238.1.138.6	<< 237.1.145.0
Broadcom Container	238.1.138.5	<< 237.1.137.0
**** 57608/5750x (Thor 2 / Thor) NVM component version ****		
Boot Code	238.1.138.6	<< 237.1.148.0
MBA Driver	238.1.138.5	<< 237.1.142.0
UEFI UNDI	238.1.138.5*	<< 237.1.142.0*
**** 5741x (Whitney+) NVM component version ****		
Boot Code	238.1.138.6	<< 237.1.141.0
NCSI	238.1.138.6	<< 237.1.141.0
RoCE Firmware	238.1.138.6	<< 237.1.141.0
MBA Driver	238.1.138.5	<< 237.1.142.0
UEFI UNDI	238.1.138.5 *	<< 237.1.142.0*

Note: An asterisk (*) following a version number represents a certified driver.
Arrows (<<) between versions indicate the component has been updated from the previously released software kit.