Broadcom - QLogic CNA Rebranding

April 2015

Broadcom Acquisition

- **On February 18th, 2014 QLogic announced a definitive agreement to acquire "certain" Broadcom Ethernet Assets**
  - Acquisition closed on March 14, 2014. Broadcom NetXtreme II team is now QLogic
- **With the acquisition –**
  - QLogic acquires Broadcom's NetXtreme II 10, 40 and 100Gb Ethernet controller business
- **QLogic owns *all product/program management, engineering and support* for installed base and future of acquired adapters**

What Stays the Same?

- Model Numbers
- PCI Device IDs
- OEM Part Numbers
- Labels on packaging and PCB
- Brackets

- Silkscreens
- Manufacturing facilities

What Changes?
Rebranding / Software Split

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Component	Rebrand	Remove NX1 Support	Impact
Rebranding			
Drivers (Windows, Linux, ESX, Solaris, FreeBSD)	Yes	NA	Replace "Broadcom" with "QLogic" in all applicable locations
Boot code/UEFI/PXE	Yes	NA	Replace "Broadcom" with "QLogic" in all applicable locations
Rebranding and Split			***Split** (for tools that were common to NX1 and NX2, QLogic will remove support for NX1 as well as rename)*
BMAPI	Yes	Yes	New API, New name (QLMAPI)
CIM Providers (Windows, Linux, VMware)	Yes	Yes	New namespace, New classes, New binaries
BACS GUI (Windows, Linux) BACS Cli (Windows, Linux)	Yes	Yes	New Names (QCS/QCSCli) New installers/paths/Windows registry key location
Firmware Upgrade tools(Windows, ESX, Linux)	Yes	Yes	New Names
Umbrella Installers	Yes	Yes	New QLogic Windows/Linux SuperInstaller
BASP (Windows only)	Yes	Yes	New Name (QLASP), Teaming Service, Registry keys

Rebranding Scope Change : Shipping Controllers

NX2 1GbE	NX2 10GbE
BCM5706	BCM57710 (E1)
BCM5708	BCM57711 (E1.5)
BCM5709	BCM57712 (E2)
BCM5716	BCM57800 (E3)
	BCM57810 (E3)
	BCM57811 (E3)
	BCM57840 (E3)

BMAPI

- **Changes:**
  - **Broadcom and QLogic split the existing BMAPI into two separate APIs**
  - **Broadcom retains the same binary and API names**
    - Remove NX2 support
  - **QLogic releases new API called QLMAPI**
    - New header file QLMAPI.H
    - Change all functions' prefix from Bmapi to Qlmapi
    - Support only NX2 adapters
- **Impacts:**
  - **Applications that calls BMAPI functions directly needs to:**
    - **Add QLMAPI library for NX2 support**
      - New header file and API names.
      - Re-complied/linked with the new BMAPI and QLMAPI libraries.

CIM Providers

- ## Changes:
  - ### Broadcom and QLogic split the existing CIM Providers into two separate components
  - ### Broadcom retains the same binary names (BnxWmiProvider/BnxCmpiProvider)
    - Same namespace and class names
    - Remove all NX2 classes
  - ### QLogic releases new providers (QnxWmiProvider/QnxCmpiProvider)
    - New namespace: "root/QLGCNxNs"
    - All classes starts with QLGC_
- ## Impacts:
  - Client application needs to add support for the new namespace and classes for NX2 adapters.
  - Client application needs to include the new CIM Providers from Broadcom that only support only NX1 adapters

Management Installer

- **Changes:**
  - **Broadcom and QLogic splits the current management installer into two separate ones.**
  - **Split Broadcom management installer includes the following components:**
    - Broadcom split teaming driver (BASP*)
    - Broadcom split BACS* (CLI and GUI with NX2 treated as non-Broadcom adapter) (* here just denotes a newer version of the same components with modified behavior)
    - Split WMI Provider (removing NX2 Support)

  - **Split QLogic management installer includes the following components:**
    - Rebranded NX2 Driver
    - QLogic split teaming driver (QLASP)
    - QLogic rebranded and split QCS (CLI and GUI with NX1 treated as non-QLogic adapter)
    - QLogic split WMI Provider (New namespace, class names and removing NX1 support)

- **Impacts:**
  - Need to release two separate installers instead of a single one

BACS (CLI and GUI)

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- ## Changes:
  - ### Broadcom post-split BACS* only support NX1 adapters:
    - Treats NX2 as non-Broadcom adapters
    - Requires at least one NX1 adapter for team creation
  - ### QLogic releases new QCS
    - Has QLogic brand
    - Has equivalent features as BACS/BACS*
    - Treats NX1 as non-QLogic adapter
    - Requires at least one NX2 adapter for team creation

- ## Impacts:
  - Customers need to use two applications to manage NX1 and NX2 adapters instead of one before.
  - Broadcom and QLogic umbrella installers handle the install and upgrade of existing BACS to BACS* and QCS

- **Broadcom continues to support the current BASP with post-split BASP***
  - Handle existing teams and teams created by BACS*
- **QLogic releases a new teaming driver (QLASP)**
  - Handle new teams created by QCS and NX2-only teams migrated by the QLogic migration tool.
- **Impacts:**
  - Customers need to use two applications to create and manage NX1 and NX2 teams.
  - Broadcom management installer handles the upgrade of existing BASP to BASP* and QLogic management installer installs the new QLASP.
  - Existing teams continue to work as before.
  - NX2-only team created previously by BACS needs to be migrated for QCS to discover and manage that team.

Firmware Upgrade Tools

- ## **Changes:**
  - Broadcom continues to provide NX1 tools as is today
  - QLogic will rename the existing NX2 tools to new QLogic names where applicable:
    - **VMWare:**
      - Executable Name: Change from **brcm_fwupgnx2** to **qlgc_fwupgnx2**
      - Package Name: Change from **vmware-esx-brcm_fwupgnx2.vib** to **vmware-esx-qlgc_fwupgnx2.vib**
      - Installed Directory: Change from **/opt/broadcom/bin/fwupgnx2** to **/opt/qlogic/bin/fwupgnx2**
    - **Linux:**
      - Package name: No change as it is already named specifically for NX2 (**lnxfwnx2-x86_64.sdk.tgz** and **lnxfwnx2-i386.sdk.tgz**)
      - Executable name: No change as it is already named specifically for NX2 (**lnxfwnx2**)
    - **Windows:**
      - Executable Name: No change as it is already named specifically for NX2 (**WinFwNx2.exe**)

- ## **Impacts:**
  - **Scripts that invokes the existing tool names need to change to the new names in VMWare**