

# HP Scalable Visualization Array

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## Interconnect Cabling Procedure and Tables

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This manual provides the point-to-point cabling tables and cabling procedures for the HP Scalable Visualization Array (SVA) solutions built on HP Cluster Platform technology. Use this document to perform cabling tasks on SVA clusters.

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# Procedure for Cabling the SVA

This document describes the cabling procedures for the HP Scalable Visualization Array (SVA). Refer to the HP Cluster Platform documentation for information on safety and general cabling procedures. In particular, ensure that you review the following manuals:

- *HP Cluster Platform – Release Notes*, which provides information not available at the time of publication.
- *HP Cluster Platform – Cluster Platform Overview*, which provides an overview of the HP Cluster Platform and SVA system architecture.
- *HP Cluster Platform – Server and Workstation Overview*, which describes the servers and workstations used in an SVA and identifies the physical location of ports.
- You should also refer to the cabling tables and installation guide for the type of interconnect used in the cluster, such as InfiniBand or Gigabit Ethernet.

These documents are provided on a CD-ROM that ships with your SVA cluster. You can download the latest variants from the following URL:  
<http://www.docs.hp.com>

## 1.1 Port Identification and Cabling Procedure

A unique port identifier is assigned to each component port according to its position in the topology of the cluster. Although ports might not always be physically labeled, a unique port identifier ensures that you can identify the location of a specific port and make the correct cabling connections between ports.

The identifiers described in this chapter are used in the cabling chapters of this guide. The cabling chapters contain tables that identify the **origin** port of a link, and its corresponding **destination** port.

Different cabling and port identifier strategies are used for the following cluster components.

- Section 1.3 describes the port identifiers in the SVA.
- Section 1.2 describes the interconnect port identifiers.

Chapter 3 specifies the Ethernet connections that you must make between the cluster components and the Ethernet switches. This procedure creates the administration and (if applicable) console networks for the cluster.

## 1.2 SVA Port Identifiers

HP Scalable Visualization Arrays consist of components organized into racks that are identified as follows:

- UVB = Utility visualization block.
- VBB = Visualization building block.

Port identifiers for the UVB and VBB have the following syntax:

**UVB#|-y#|-P#**

**VBB#|-y#|-P#**

The character *x* indicates an integer, such as UVB01-N01-IB1 for utility visualization block 1, node 1, InfiniBand port in the HCA installed in the PCI bus.

Each element in the identifier string is defined in Table 1-1.

**Table 1-1: UVB and VBB Port Identifiers**

Identifier Element	Definition
y	N = Node C = Control Node AES = Administrative ProCurve Ethernet switch
P	Port
NIC	Embedded Ethernet port (eth0)
IB	InfiniBand port

### 1.3 Interconnect Port Identifiers

Interconnect port identifiers have the following syntax:

**I | Rx | Lxx/Sxx | -Pxx**

The character *x* indicates an integer, such as IROL00-P00 for InfiniBand Rail 0, Leaf interconnect 0, Slot 0, Port 00.

Each element in the identifier string is defined in Table 1-2. Refer to the *HP Cluster Platform Overview and Site Preparation Guide* for definitions of the terminology used in this table.

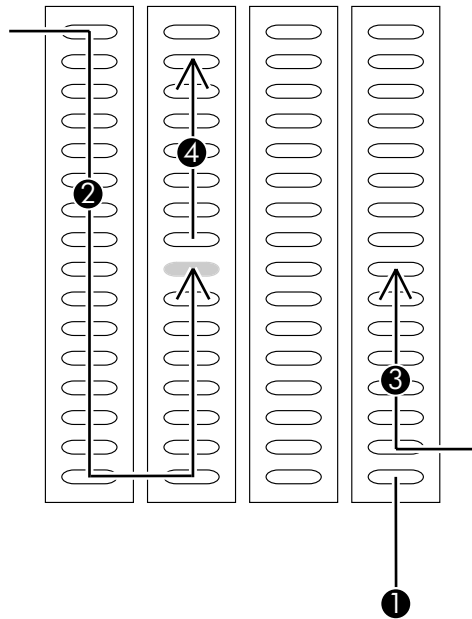
**Table 1-2: Interconnect Port Identifiers (Origin Ports)**

Identifier Element	Definition
I	InfiniBand
Rx	Rail number. The first PCI host-bus adapter in the node is Rail 0. In dual rail configurations, the rails are designated R0 and R1.
Lxx	Leaf interconnect Number
Sxx	Spine interconnect Number
Pxx	Port Number

### 1.4 Cabling Procedure

Figure 1-1 illustrates the cabling sequence that you use when integrating an SVA cluster into a Cluster Platform. The figure shows a generic model of a system interconnect, not specific to any interconnect architecture. In this instance the architecture is modular, comprised of modules (or switch cards) in a chassis and typical of larger interconnects. Smaller interconnects might consist of a single board, with a single row of ports. However, the cabling procedure is the same for all interconnect architectures.

**Figure 1-1: Cabling Sequence**



The callouts in Figure 1-1 correspond to the following cabling procedure steps:

1. Connect the control node to the last port on the last card in the interconnect. This will be the highest numbered port on the highest numbered module or switch card. Port 16, module 4 in this example.
2. Connect the compute nodes in the cluster platform CBBs to the first available port on the first switch card. (Switch cards are present only if the interconnect has a modular architecture.)  
(If you are integrating an SVA cluster into a cluster platform, these connections are probably already in place.)
3. Connect the utility nodes in the cluster platform starting at the first available port above the control node.
4. Connect the SVA nodes beginning with the first unused port immediately following the final CBB compute node. (The gray port on Figure 1-1.)



## Interconnect Cabling

This chapter provides cabling tables for the InfiniBand and Gigabit Ethernet interconnects. For Quadrics and Myrinet, refer to the relevant cabling table guides in the Cluster Platform information set.

The following table provides the point-to-point cabling tables for the Voltaire ISR9024 InfiniBand interconnect.

Port	Name (From)	Origin (Label)	Connection To	Destination (Label)
1	InfiniBand-Port01	IR0L00-P01	Workstation #1 InfiniBand HCA	UVB01-N01-IB1
2	InfiniBand-Port02	IR0L00-P02	Workstation #2 InfiniBand HCA	UVB01-N02-IB1
3	InfiniBand-Port03	IR0L00-P03	Workstation #3 InfiniBand HCA	UVB01-N03-IB1
4	InfiniBand-Port04	IR0L00-P04	Workstation #4 InfiniBand HCA	UVB01-N04-IB1
5	InfiniBand-Port05	IR0L00-P05	Workstation #5 InfiniBand HCA	UVB01-N05-IB1
6	InfiniBand-Port06	IR0L00-P06	Workstation #6 InfiniBand HCA	UVB01-N06-IB1
7	InfiniBand-Port07	IR0L00-P07	Workstation #7 InfiniBand HCA	VBB01-N07-IB1
8	InfiniBand-Port08	IR0L00-P08	Workstation #8 InfiniBand HCA	VBB01-N08-IB1
9	InfiniBand-Port09	IR0L00-P09	Workstation #9 InfiniBand HCA	VBB01-N09-IB1
10	InfiniBand-Port10	IR0L00-P10	Workstation #10 InfiniBand HCA	VBB01-N10-IB1
11	InfiniBand-Port11	IR0L00-P11	Workstation #11 InfiniBand HCA	VBB01-N11-IB1
12	InfiniBand-Port12	IR0L00-P12	Workstation #12 InfiniBand HCA	VBB01-N12-IB1
13	InfiniBand-Port13	IR0L00-P13	Workstation #13 InfiniBand HCA	VBB01-N13-IB1
14	InfiniBand-Port14	IR0L00-P14	Workstation #14 InfiniBand HCA	VBB01-N14-IB1
15	InfiniBand-Port15	IR0L00-P15	Workstation #15 InfiniBand HCA	VBB02-N15-IB1
16	InfiniBand-Port16	IR0L00-P16	Workstation #16 InfiniBand HCA	VBB02-N16-IB1
17	InfiniBand-Port17	IR0L00-P17	Workstation #17 InfiniBand HCA	VBB02-N17-IB1
18	InfiniBand-Port18	IR0L00-P18	Workstation #18 InfiniBand HCA	VBB02-N18-IB1
19	InfiniBand-Port19	IR0L00-P19	Workstation #19 InfiniBand HCA	VBB02-N19-IB1
20	InfiniBand-Port20	IR0L00-P20	Not Connected	Not Connected
21	InfiniBand-Port21	IR0L00-P21	Not Connected	Not Connected
22	InfiniBand-Port22	IR0L00-P22	Not Connected	Not Connected
23	InfiniBand-Port23	IR0L00-P23	Not Connected	Not Connected
24	InfiniBand-Port24	IR0L00-P24	Control Node InfiniBand HCA	UVB01-C01-IB1

The following table provides the point-to-point cabling tables for the ProCurve 2824 Gigabit Ethernet switch.

Port	Name (From)	Origin (Label)	Connection To	Destination (Label)
1	ProCurve-Port01	PCR0L00-P01	Workstation #1 PCI NIC Module (NIC2)	UVB01-N01-NIC2
2	ProCurve-Port02	PCR0L00-P02	Workstation #2 PCI NIC Module (NIC2)	UVB01-N02-NIC2
3	ProCurve-Port03	PCR0L00-P03	Workstation #3 PCI NIC Module (NIC2)	UVB01-N03-NIC2
4	ProCurve-Port04	PCR0L00-P04	Workstation #4 PCI NIC Module (NIC2)	UVB01-N04-NIC2
5	ProCurve-Port05	PCR0L00-P05	Workstation #5 PCI NIC Module (NIC2)	UVB01-N05-NIC2
6	ProCurve-Port06	PCR0L00-P06	Workstation #6 PCI NIC Module (NIC2)	UVB01-N06-NIC2
7	ProCurve-Port07	PCR0L00-P07	Workstation #7 PCI NIC Module (NIC2)	VBB01-N07-NIC2
8	ProCurve-Port08	PCR0L00-P08	Workstation #8 PCI NIC Module (NIC2)	VBB01-N08-NIC2
9	ProCurve-Port09	PCR0L00-P09	Workstation #9 PCI NIC Module (NIC2)	VBB01-N09-NIC2
10	ProCurve-Port10	PCR0L00-P10	Workstation #10 PCI NIC Module (NIC2)	VBB01-N10-NIC2
11	ProCurve-Port11	PCR0L00-P11	Workstation #11 PCI NIC Module (NIC2)	VBB01-N11-NIC2
12	ProCurve-Port12	PCR0L00-P12	Workstation #12 PCI NIC Module (NIC2)	VBB01-N12-NIC2
13	ProCurve-Port13	PCR0L00-P13	Workstation #13 PCI NIC Module (NIC2)	VBB01-N13-NIC2
14	ProCurve-Port14	PCR0L00-P14	Workstation #14 PCI NIC Module (NIC2)	VBB01-N14-NIC2
15	ProCurve-Port15	PCR0L00-P15	Workstation #15 PCI NIC Module (NIC2)	VBB02-N15-NIC2
16	ProCurve-Port16	PCR0L00-P16	Workstation #16 PCI NIC Module (NIC2)	VBB02-N16-NIC2
17	ProCurve-Port17	PCR0L00-P17	Workstation #17 PCI NIC Module (NIC2)	VBB02-N17-NIC2
18	ProCurve-Port18	PCR0L00-P18	Workstation #18 PCI NIC Module (NIC2)	VBB02-N18-NIC2
19	ProCurve-Port19	PCR0L00-P19	Workstation #19 PCI NIC Module (NIC2)	VBB02-N19-NIC2
20	ProCurve-Port20	PCR0L00-P20	not connected	not connected
21	ProCurve-Port21	PCR0L00-P21	not connected	not connected
22	ProCurve-Port22	PCR0L00-P22	not connected	not connected
23	ProCurve-Port23	PCR0L00-P23	not connected	not connected
24	ProCurve-Port24	PCR0L00-P24	Control Node NIC2 Port <sup>a</sup>	UVB01-C01-NIC2

<sup>a</sup> NIC2 on the control node is either the embedded NIC2 port on the DL380 or DL385 server, or the PCI NIC card inserted into the workstation.

## ProCurve Ethernet Cabling Tables

### 3.1 ProCurve Root Switch

The following table provides the cabling information for the ProCurve switch that is used as the root network switch in the UVB. This device is a ProCurve 2824 Gigabit Ethernet switch.

Port	Origin	Label	Connection To	Name (To)	Destination
1	ProCurve-AES1-P01	UVB1-AES1-P01	Node 19 In-Band NIC1 (eth0)	Workstation19-NIC1	VBB01-N01-NIC1
2	ProCurve-AES1-P02	UVB1-AES1-P02	Node 18 In-Band NIC1 (eth0)	Workstation18-NIC1	VBB01-N02-NIC1
3	ProCurve-AES1-P03	UVB1-AES1-P03	Node 17 In-Band NIC1 (eth0)	Workstation17-NIC1	VBB01-N03-NIC1
4	ProCurve-AES1-P04	UVB1-AES1-P04	Node 16 In-Band NIC1 (eth0)	Workstation16-NIC1	VBB01-N04-NIC1
5	ProCurve-AES1-P05	UVB1-AES1-P05	Node 15 In-Band NIC1 (eth0)	Workstation15-NIC1	VBB01-N05-NIC1
6	ProCurve-AES1-P06	UVB1-AES1-P06	Node 14 In-Band NIC1 (eth0)	Workstation14-NIC1	VBB01-N06-NIC1
7	ProCurve-AES1-P07	UVB1-AES1-P07	Node 13 In-Band NIC1 (eth0)	Workstation13-NIC1	VBB01-N07-NIC1
8	ProCurve-AES1-P08	UVB1-AES1-P08	Node 12 In-Band NIC1 (eth0)	Workstation12-NIC1	VBB01-N08-NIC1
9	ProCurve-AES1-P09	UVB1-AES1-P09	Node 11 In-Band NIC1 (eth0)	Workstation11-NIC1	VBB02-N01-NIC1
10	ProCurve-AES1-P10	UVB1-AES1-P10	Node 10 In-Band NIC1 (eth0)	Workstation10-NIC1	VBB02-N02-NIC1
11 <sup>a</sup>	ProCurve-AES1-P11	UVB1-AES1-P11	Not Connected	Not Connected	Not Connected
12 <sup>a</sup>	ProCurve-AES1-P12	UVB1-AES1-P12	Not Connected	Not Connected	Not Connected
13	ProCurve-AES1-P13	UVB1-AES1-P13	Node 09 In-Band NIC1 (eth0)	Workstation09-NIC1	VBB02-N03-NIC0
14	ProCurve-AES1-P14	UVB1-AES1-P14	Node 08 In-Band NIC1 (eth0)	Workstation08-NIC1	VBB02-N04-NIC1
15	ProCurve-AES1-P15	UVB1-AES1-P15	Node 07 In-Band NIC1 (eth0)	Workstation07-NIC1	VBB02-N05-NIC1
16	ProCurve-AES1-P16	UVB1-AES1-P16	Node 06 In-Band NIC1 (eth0)	Workstation06-NIC1	VBB02-N06-NIC1
17	ProCurve-AES1-P17	UVB1-AES1-P17	Node 05 In-Band NIC1 (eth0)	Workstation05-NIC1	UVB-N05-NIC1
18	ProCurve-AES1-P18	UVB1-AES1-P18	Node 04 In-Band NIC1 (eth0)	Workstation04-NIC1	UVB-N04-NIC1
19	ProCurve-AES1-P19	UVB1-AES1-P19	Node 03 In-Band NIC1 (eth0)	Workstation03-NIC1	UVB-N03-NIC1
20	ProCurve-AES1-P20	UVB1-AES1-P20	Node 02 In-Band NIC1 (eth0)	Workstation02-NIC1	UVB-N02-NIC1
21	ProCurve-AES1-P21	UVB1-AES1-P21	Node 01 In-Band NIC1 (eth0)	Workstation01-NIC1	UVB-N01-NIC1
22	ProCurve-AES1-P22	UVB1-AES1-P22	Control Node In-Band NIC1 (eth0)	Control01-NIC1	UVB-C01-NIC1
23 <sup>b</sup>	ProCurve-AES1-P23	UVB1-AES1-P23	InfiniBand Management Port	IB-Switch-MP	Interconnect Switch
24	ProCurve-AES1-P24	UVB1-AES1-P24	Not Connected	Not Connected	Not Connected

<sup>a</sup> Reserved

<sup>b</sup> Optional

## 3.2 ProCurve Branch Switch

The following table provides the cabling information for the ProCurve switch that is used as an in-band branch network switch in the VBB. This device is a ProCurve 2824 gigabit Ethernet switch. This ProCurve switch is mounted in the cabinet labeled VBBa or VBB(a). The second cabinet (and subsequent even-numbered cabinets) do not contain ProCurve switches.

Port	Origin	Label	Connection To	Destination
1	ProCurve-AES1-P01	VBB <sub>Axx</sub> -AES1-P01	VBB(a)# Node 01 In-Band NIC1 (eth0)	VBB <sub>Axx</sub> -N01-NIC1
2	ProCurve-AES1-P02	VBB <sub>Axx</sub> -AES1-P02	VBB(a)# Node 02 In-Band NIC1 (eth0)	VBB <sub>Axx</sub> -N02-NIC1
3	ProCurve-AES1-P03	VBB <sub>Axx</sub> -AES1-P03	VBB(a)# Node 03 In-Band NIC1 (eth0)	VBB <sub>Axx</sub> -N03-NIC1
4	ProCurve-AES1-P04	VBB <sub>Axx</sub> -AES1-P04	VBB(a)# Node 04 In-Band NIC1 (eth0)	VBB <sub>Axx</sub> -N04-NIC1
5	ProCurve-AES1-P05	VBB <sub>Axx</sub> -AES1-P05	VBB(a)# Node 05 In-Band NIC1 (eth0)	VBB <sub>Axx</sub> -N05-NIC1
6	ProCurve-AES1-P06	VBB <sub>Axx</sub> -AES1-P06	VBB(a)# Node 06 In-Band NIC1 (eth0)	VBB <sub>Axx</sub> -N06-NIC1
7	ProCurve-AES1-P07	VBB <sub>Axx</sub> -AES1-P07	VBB(a)# Node 07 In-Band NIC1 (eth0)	VBB <sub>Axx</sub> -N07-NIC1
8	ProCurve-AES1-P08	VBB <sub>Axx</sub> -AES1-P08	VBB(a)# Node 08 In-Band NIC1 (eth0)	VBB <sub>Axx</sub> -N08-NIC1
9	ProCurve-AES1-P09	VBB <sub>Axx</sub> -AES1-P09	VBB(b)# Node 01 In-Band NIC1 (eth0)	VBB <sub>xx</sub> -N01-NIC1
10	ProCurve-AES1-P10	VBB <sub>Axx</sub> -AES1-P10	VBB(b)# Node 02 In-Band NIC1 (eth0)	VBB <sub>xx</sub> -N02-NIC1
11 <sup>a</sup>	ProCurve-AES1-P11	VBB <sub>Axx</sub> -AES1-P11	Not Connected	Not Connected
12 <sup>a</sup>	ProCurve-AES1-P12	VBB <sub>Axx</sub> -AES1-P12	Not Connected	Not Connected
13	ProCurve-AES1-P13	VBB <sub>Axx</sub> -AES1-P13	VBB(b)# Node 03 In-Band NIC1 (eth0)	VBB <sub>xx</sub> -N03-NIC1
14	ProCurve-AES1-P14	VBB <sub>Axx</sub> -AES1-P14	VBB(b)# Node 04 In-Band NIC1 (eth0)	VBB <sub>xx</sub> -N04-NIC1
15	ProCurve-AES1-P15	VBB <sub>Axx</sub> -AES1-P15	VBB(b)# Node 05 In-Band NIC1 (eth0)	VBB <sub>xx</sub> -N05-NIC1
16	ProCurve-AES1-P16	VBB <sub>Axx</sub> -AES1-P16	VBB(b)# Node 06 In-Band NIC1 (eth0)	VBB <sub>xx</sub> -N06-NIC1
17	ProCurve-AES1-P17	VBB <sub>Axx</sub> -AES1-P17	VBB(b)# Node 07 In-Band NIC1 (eth0)	VBB <sub>xx</sub> -N07-NIC1
18	ProCurve-AES1-P18	VBB <sub>Axx</sub> -AES1-P18	VBB(b)# Node 08 In-Band NIC1 (eth0)	VBB <sub>xx</sub> -N08-NIC1
19	ProCurve-AES1-P19	VBB <sub>Axx</sub> -AES1-P19	Not Connected	Not Connected
20	ProCurve-AES1-P20	VBB <sub>Axx</sub> -AES1-P20	Not Connected	Not Connected
21	ProCurve-AES1-P21	VBB <sub>Axx</sub> -AES1-P21	Not Connected	Not Connected
22 <sup>b</sup>	ProCurve-AES1-P22	VBB <sub>Axx</sub> -AES1-P22	Root Admin Network Switch	UBB1-AES1-Pxx
23 <sup>a</sup>	ProCurve-AES1-P23	VBB <sub>Axx</sub> -AES1-P23	Not Connected	Not Connected
24 <sup>a</sup>	ProCurve-AES1-P24	VBB <sub>Axx</sub> -AES1-P24	Not Connected	Not Connected

<sup>a</sup> Reserved

<sup>b</sup> Uplink to Cluster Platform Root Switch

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## Component Packaging

An HP Scalable Visualization Array might be shipped integrated with an HP Cluster Platform (as the compute cluster) or as a standalone visualization array. The racks of components that form a visualization array are organized and named as follows:

- UVB – Utility Visualization Block
- VBB – Visualization Building Block

## A.1 Standalone SVA Packaging

The following table describes how components are organized in a standalone SVA. In such clusters, the interconnect is integrated into the packaging.

Standalone Bounded UVB		Standalone Bounded VBB		Standalone Bounded VBB	
U42	Node 06	U42	Node 1	U42	Available
U41		U41		U41	
U40		U40		U40	
U39		U39		U39	
U38		U38		U38	
U37	Node 05	U37	Node 2	U37	Available
U36		U36		U36	
U35		U35		U35	
U34		U34		U34	
U33		U33		U33	
U32	Node 04	U32	Node 3	U32	Available
U31		U31		U31	
U30		U30		U30	
U29		U29		U29	
U28		U28		U28	
U27	Control Node DL380G4 or Workstation	U27	Node 4	U27	Node 19
U26		U26		U26	
U25		U25		U25	
U24		U24		U24	
U23		U23		U23	
U22	TFT5600 & Optional KVM	U22	Node 5	U22	Node 18
U21	Blank Panel	U21		U21	
U20	Admin Root - ProCurve 2824	U20		U20	
U19	Blank Panel	U19		U19	
U18	Node 03	U18		U18	
U17		Node 6	U17	Node 17	
U16			U16		
U15			U15		
U14			U14		
U13	Node 02		U13		U13
U12		Node 7	U12	Node 16	
U11			U11		
U10			U10		
U9			U9		
U8	Node 01		U8		Node 8
U7		U7			
U6		U6			
U5		U5			
U4		U4			
U3	Interconnect (24 Port)	U3	Reserved	U3	Reserved
U2	Reserved	U2	Reserved	U2	Reserved
U1	Reserved	U1	Reserved	U1	Reserved

## A.2 Cluster Platform SVA Packaging

The following table shows the U location (rack mount position) of all components in a visualization array that is connected to an HP Cluster Platform compute cluster. In such SVA solutions, the interconnect is located in the Cluster.

Modular VBB (a) #1		Modular Bounded VBB (b) #1		Modular VBB (a) #2		Modular Bounded VBB (b) #2		Modular VBB (a) #2		Modular Bounded VBB (b) #2	
U42	Node 08	U42	Node 16	U42	Node 24	U42	Node 32	U42	Node 40	U42	Node 48
U41		U41		U41		U41		U41		U41	
U40		U40		U40		U40		U40		U40	
U39		U39		U39		U39		U39		U39	
U38		U38		U38		U38		U38		U38	
U37	Node 07	U37	Node 15	U37	Node 23	U37	Node 31	U37	Node 39	U37	Node 47
U36		U36		U36		U36		U36		U36	
U35		U35		U35		U35		U35		U35	
U34		U34		U34		U34		U34		U34	
U33		U33		U33		U33		U33		U33	
U32	Node 06	U32	Node 14	U32	Node 22	U32	Node 30	U32	Node 38	U32	Node 46
U31		U31		U31		U31		U31		U31	
U30		U30		U30		U30		U30		U30	
U29		U29		U29		U29		U29		U29	
U28		U28		U28		U28		U28		U28	
U27	Node 05	U27	Node 13	U27	Node 21	U27	Node 29	U27	Node 37	U27	Node 45
U26		U26		U26		U26		U26		U26	
U25		U25		U25		U25		U25		U25	
U24		U24		U24		U24		U24		U24	
U23		U23		U23		U23		U23		U23	
U22	Node 04	U22	Node 12	U22	Node 20	U22	Node 28	U22	Node 36	U22	Node 44
U21		U21		U21		U21		U21		U21	
U20		U20		U20		U20		U20		U20	
U19		U19		U19		U19		U19		U19	
U18		U18		U18		U18		U18		U18	
U17	Node 03	U17	Node 11	U17	Node 19	U17	Node 27	U17	Node 35	U17	Node 43
U16		U16		U16		U16		U16		U16	
U15		U15		U15		U15		U15		U15	
U14		U14		U14		U14		U14		U14	
U13		U13		U13		U13		U13		U13	
U12	Node 02	U12	Node 10	U12	Node 18	U12	Node 26	U12	Node 34	U12	Node 42
U11		U11		U11		U11		U11		U11	
U10		U10		U10		U10		U10		U10	
U9		U9		U9		U9		U9		U9	
U8		U8		U8		U8		U8		U8	
U7	Node 01	U7	Node 09	U7	Node 17	U7	Node 25	U7	Node 33	U7	Node 41
U6		U6		U6		U6		U6		U6	
U5		U5		U5		U5		U5		U5	
U4		U4		U4		U4		U4		U4	
U3		U3		U3		U3		U3		U3	
U2	<sup>a</sup>	U2	Reserved	U2	<sup>a</sup>	U2	Reserved	U2	<sup>a</sup>	U2	Reserved
U1	Reserved	U1	Reserved	U1	Reserved	U1	Reserved	U1	Reserved	U1	Reserved

<sup>a</sup> Admin Branch #1 - ProCurve 2824