Alcatel·Lucent

VitalQIP®

Setting up the infrastructure

This Quick Start card is intended to assist in setting up the initial infrastructure of the VitalQIP® Management system. It consists of performing the following basic functions in the order shown. The steps shown can be refined later or configured to manage any size network.

This Quick Start Guide assumes VitalQIP is installed and configured. For information about installing and configuring VitalQIP, refer to the *VitalQIP Installation Guide*.

Note: The variable QIPHOME is used throughout this document as shorthand for the path you set in the Directory Name window during installation.

Step 1: Log into VitalQIP

a. To begin:

– On Windows, select **Start | Programs | VitalQIP | VitalQIP**.

– On UNIX, set and export the display (if you are not on the system console), source the environment (enter **. QIPHOME/etc/shrc**), and enter **ip-manage&**. The VitalQIP login window opens.

b. If prompted, select a database

c. Enter the **User Name** and press **Tab**.

d. Enter your password and press **Enter**. The VitalQIP Management System window opens.

*Note: If this is the first time you have used VitalQIP and **Require New Admin Password** is enabled, the Change Password window opens, where you may enter a new password. After you have created a new password, repeat Step 1d.*

Step 2: (Optional) Define the organization

Note: VitalQIP has a default organization already defined called "VitalQIP". Follow this step if you wish to add additional organizations to your infra-structure.

a. Select **Infrastructure|Organization**.

b. Select **Add New Organization** and click **OK**.

c. Enter the company name in the **Organization Name** field and click **OK**.

d. Click **OK** when informed that the organization is added.

e. Right-click on the white space area to the right of the Hierarchy and select **Refresh** to update the window with the organization.

f. Expand (+) the organization to show the organization's hierarchy.

Step 3: Define a domain name and create a DNS server

a. In the Hierarchy, highlight the **Domains** entry under the organization.

b. Right-click and select **Add**.

c. Enter a domain name in the **Domain Name** field.

d. Enter an email address in the **Zone E-mail Address** field. This address is entered in the Start of Authority (SOA) record.

e. Leave the time settings at their default values and click the **Primary/Secondary Servers** tab.

f. Click **Create DNS Server**. Answer **Yes** to the **Domain does not exist. Would you like to create it?** prompt, and click **OK** when the confirmation window appears. The Server Profile: Add window opens.

g. Verify that the **Server Class** field is set to **DNS** and enter a name (of up to 63 alphanumeric characters) for the DNS server in the **Host Name** field.

h. Select a **Server Type**, such as **Lucent DNS 4.X** from the list.

i. In the server parameter list, select **Default Directory**. In the **Parameter/Value(s)** field, enter either **QIPHOME\named** on Windows, or **QIPHOME/named** on UNIX.

j. Enter an e-mail address again in the **E-mail Address for local and reverse zones** field.

k. Click **OK** to save the DNS Server Profile, and click **OK** in response to the **DNS server added** message.

l. Highlight the DNS server in the **Existing DNS Server(s) List** and click **Add Primary**. The DNS server now appears in the **Selected DNS Server(s) List**.

m. Click **OK** to save the domain, and click **OK** again in response to the **Domain "xxxx.xxx" added** message. The DNS server is now set up, but an address must be assigned later after a network and a subnet are set up.

Step 4: Define a network and subnet

a. In the Hierarchy, highlight **Networks** under the organization.

b. Right-click and select **Add**.

c. In the **Network Address** field, enter the network address of the network where VitalQIP will be running. Enter it as a Class A, B, or C network unless CIDR is supported.

d. Enter a name for the network in the **Network Name** field.

e. In the **Reverse Zone Server** field, select the DNS server defined in "Step 3: Define a domain name and create a DNS server".

f. The **Contact E-mail Address** field is automatically filled in based on the value defined in the Server Profile for that DNS server.

g. Click **Apply**.

h. Click **OK** in response to the **Network added** message.

i. In the Network Profile: Modify window, click **Add**.

j. Use the subnet mask slider to define the mask of the subnet where VitalQIP is running.

k. Click the **...** button beside the **Domains** field.

l. Highlight the domain created in the **Existing Domain List** and click **Add** so it appears in the **Managed Domain List**.

m. Click **OK** and verify that the managed domain appears in the **Default Domain** field.

n. Click the drop-down icon in the **Check Before Assign** field and select **Ping**.

o. Click **Calculate**.

p. When the subnet where VitalQIP is running appears in the **Available Subnet** list, ensure that it is highlighted and click **Apply**.

q. Click **OK** in response to the New Subnets Added message. The subnet address now appears in the **Managed Subnets** list.

r. Click **OK** twice to close the Network Profile window.

Step 5: Assign the DNS server an address

a. Select **Object Management | All Subnets** from the **Management** menu.

b. Highlight the subnet just defined.

c. Highlight the address to assign to the DNS Server and click **Select**.

d. Right-click and select **Add | Static**. The Object Profile:Add window opens.

e. Select **Server** from the **Object Class** drop-down list.

f. Add the DNS server name in the **Object Name** field and click **OK**. Ensure that the name exactly matches the host name entered in Step 3g.

g. Click **OK** in response to the **Object Added** message.

h. Click **Exit** in both the Objects and Subnet Selection windows.

Step 6: Define the DHCP server

a. Select **Server** from the **Infrastructure** menu.

b. Click **OK** to add a server.

c. Select **DHCP** from the **Server Class** drop-down list.

d. If the DHCP Server is installed on the same server as the DNS server, select the DNS server name from the **Host Name** drop-down list. Otherwise, enter a different host name and add an object for it (as described in "Step 5: Assign the DNS server an address").

e. Select a DHCP server type from the **Server Type** drop-down list (for example, Lucent DHCP 5.4).

f. In **Domain Name**, click the **...** button and double-click a domain on the **Existing Domain List**.

g. In the **Parameters/Values** list, select **Default Directory** and either enter **c:\QIPHOME\dhcp** on Windows, or **QIPHOME/dhcp** on UNIX.

h. Select **DHCP Template** and choose **general** in the **Available Values** list. Specify PingDelay server policy if the server type is Lucent DHCP 5.4.

i. Click **OK** to save the server definition.

j. Click **OK** in response to the **Server added** message.

Step 7: Verify the subnet profile

a. Select **Object Management | All Subnets** from the **Management** menu.

b. Expand the network address and highlight the subnet.

c. Select **Edit | Subnet Profile**.

d. Enter a name in the **Subnet Name** field.

e. Ensure the domain is correct.

f. In the **Primary DNS Server** field, select the DNS server defined in "Step 3: Define a domain name and create a DNS server".

g. In the **DHCP Server Name** field, select the DHCP server defined in "Step 6: Define the DHCP server".

h. In the **DHCP Option Template** field, select **general**.

i. Click **OK** to close the profile.

j. Click **OK** in response to the **Subnet profile modified** message.

Step 8: Test the environment

a. Select the subnet just named and click **Select** to open the Object Management window.

b. Highlight 3 addresses and right-click on **Add|Dynamic**.

 – In the **Dynamic Configuration** field, select **Dynamic DHCP**.

 – Specify a DHCP server.

c. Click **OK**.

d. Click **OK** to close the Dynamic Allocation window.

e. Click **OK** in response to the **3 Dynamic objects added** message.

f. Click **Exit** in the Objects and Subnet Selection windows to close the windows.

g. Select **DNS Generation** from the **Network Services** menu.

h. Select the **Configuration & Data** type and the **Screen** destination.

i. Select the DNS server from the **DNS Server** list and click **OK**.

j. Check the results in the DNS Generation Results window. Print the report if required and check that the infrastructure is configured as intended.

k. Click **Exit** to close the DNS Generation Results window.

l. Click **Cancel** to close the DNS Generation window.

Step 9: Verify services are started

a. Verify that all services are started:

 – On Windows, click **Start** and select **Programs | VitalQIP | VitalQIP Service Controller**.

 – On UNIX, list all currently running VitalQIP processes by running **ps -ef | grep qip**.

b. If the services are not running, start the VitalQIP Services. See "VitalQIP services on Windows" or "VitalQIP services on UNIX" in Chapter 2 of the *VitalQIP Administrator Reference Manual* for information on starting services.

Note: *You can find additional help troubleshooting VitalQIP services in Chapter 19 of the VitalQIP Administrator Reference Manual.*

c. If any services cannot be started:

 – For Windows, select the **Event Viewer** tab in the Service Controller to see if there are any error messages.

 – For UNIX, refer to "Troubleshooting services/daemons on UNIX" in Chapter 19 of the *VitalQIP Administrator Reference Manual* for information on troubleshooting services.

Step 10: Initialize the DHCP server

a. Select **DHCP Generation** from the **Network Services** menu.

b. Click the **Server** destination.

c. Highlight the DHCP server in the list and click **OK**.

d. Verify that the DHCP directory is correct.

e. Click **OK** to push to the server.

f. Click **OK**.

g. Click **Cancel** to exit the DHCP Generation window.

Step 11: Initialize the DNS Server

a. Select **DNS Generation** from the **Network Services** menu.

b. Select the **Update** type and the **Server** destination.

c. Select the DNS server from the **DNS Server** list and verify that the **Default Directory** field is correct.

d. Click **OK**.

e. Click **Cancel** to exit the DNS Generation window.

Step 12: Final test

a. Turn on a PC on the subnet that is configured to obtain an address from a DHCP server (DHCP compliant).

b. The PC will broadcast and receive one of the addresses created from the VitalQIP server. The PC name (Host name) will be registered in DNS. The VitalQIP database will be updated with the PC name and its MAC address.

c. Verify by selecting **Object Management | All Subnets** from the **Management menu**, and selecting the subnet and viewing the **Object Properties**.

Contacting Technical Support

If you need assistance with VitalQIP, you can contact Technical Support via phone or e-mail address.

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For other local CALA numbers, consult the web site or contact your local sales representative

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