

VitalQIP®

Infrastructure setup

To set up the initial infrastructure of the VitalQIP® Management system after VitalQIP has been installed, perform the following basic functions in the order shown. You can refine the steps later or configure them to manage any size network.

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

Step 1: Log into VitalQIP

- a. Open a web browser and enter the VitalQIP web client URL in the following format:

– For a nonsecure Tomcat server:

`http://<machine name or IP address>:<Tomcat web server port>/qip`

– For a secure Tomcat server:

`https://<machine name or IP address>:<secure Tomcat web server port>/qip`

Note: If the VitalQIP web client was installed with the nonsecure Tomcat web server port assigned to the default port 80, the URL format is `http://<machine name or IP address>/qip`. The default secure port is 743.

- b. Enter a **User ID** and **Password** and click **Login**. The MyView Hierarchy opens.

Note: If you are logging in for the first time and **Require New Admin Password** is enabled, the **Change Password** screen opens, where you can enter a new password. Then repeat Step 1b.

Step 2: (Optional) Define the organization

Note: VitalQIP has a default organization already defined called "VitalQIP Organization". Follow this step if you wish to add an additional organization to your infrastructure.

- a. Click the **Manage Organization** link.
- b. Mouse over the **Actions** menu and select **Add Organization**.

- c. Enter a name (such as the company name) in the **Organization Name** field and click **Submit**.
- d. Click **OK** when informed that the organization is successfully added.
- e. Click **Switch Organization** to select the organization you just created.
- f. Click **OK** when informed that the organization is successfully switched.

Step 3: Define a domain

- a. Select **DNS ► Zone**. The Zone Hierarchy opens.
- b. Mouse over the **Actions** menu and select **Add Zone**.
- c. Enter a domain name in the **Zone Name** field.
Note the domain name for reuse later.
- d. Enter an email address in the **Email Address** field. This address is entered in the Start of Authority (SOA) record. *Note the email address for reuse later.*
- e. Leave the time settings at their default values and click **Submit**.
- f. Click **OK** when informed that the zone is saved.

Step 4: Create a DNS server

- a. Select **DNS ► DNS Server**. The DNS Server Hierarchy opens.
- b. Mouse over the **Actions** menu and select **Add Server**.
- c. Select a server type, such as **Lucent DNS 4.X**, from the **Server Type** list. A set of parameters opens.
- d. Enter a name (of up to 63 alphanumeric characters) for the DNS server in the **Host Name** field. *Note the host name for reuse later.*
- e. Enter the domain you entered in Step 3c, or click ... to use Domain Search. Click **Search**, select the domain from the search results, and click **Select**.

- f. Required server parameters appear in *italics*. Select the parameter and enter values as follows:
 - **Default Directory**. Enter either **QIPHOME\named** on Windows, or **QIPHOME/named** on UNIX.
 - **Email address for local and reverse zones**. Enter the same address you entered in Step 3d.
 - **RNDC Key**. **BIND-9.X and LUCENT DNS 4.X only**. Enter the value of the key to be placed in *named.conf*.
- g. Click **Submit** to save the DNS Server, and click **OK** in response to the confirmation message.

Step 5: Assign primary DNS server to zone

- a. Select **DNS ▶ Zone**. The Zone Hierarchy opens.
- b. Expand the **.root** hierarchy and select the domain you created in Step 3. The Zone Properties screen opens.
- c. Click **Add Primary Server**. The Add Primary Server screen opens.
- d. Click the **Search** button next to the **Server** field. Available servers appear in the **Select Server** list.
- e. Select the server you added in Step 4.
- f. Click **Submit** and click **OK** in response to the confirmation 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 6: Define a network and subnet

- a. Select **Address Management ▶ IPv4**. The IPv4 Hierarchy opens.
- b. Mouse over the **Actions** menu and select **Add Network**.
- c. In the **Network Address** field, enter the address of the network. 0, 127 and greater than 239 are not allowed in the first octet since these numbers are reserved.
- d. Enter a name for the network in the **Network Name** field.
- e. Click ... next to the **Reverse Zone Server** field. The Reverse Zone Server Search screen opens.
- f. Click **Search**. The server you defined in Step 4 appears in the **Existing List**.
- g. Select the server and click **OK**. The **Contact Email** field is automatically populated with the value defined in Step 4f.
- h. Click **Submit** and click **OK** in response to the confirmation message.
- i. In the Network Properties screen, click **Add Subnet**.
- j. Select a subnet length from the **Length** field (the network size is the default).
- k. Click the ... button beside the **Domain Name** field.

- l. Click **Search**, select the domain you created in Step 3 from the **Existing List**, and click **Add=>** so it appears in the **Selected List**.
- m. Click **OK** and verify that the managed domain appears in the **Domain Name** field.
- n. Select **Ping** in the **Check Before Assign** field. VitalQIP will later ping the address when each object is created.
- o. Click **Calculate**. The **Search Results** list is populated with a foldered list of all possible subnets for the network and length/mask.
- p. Expand a folder and place a checkmark beside the subnet you want to create.
- q. Click **Submit** and click **OK** in response to the confirmation message. The Subnet Properties page opens.

Step 7: Assign the DNS server an address

- a. Click **Manage Objects**. The Manage Objects screen opens.
- b. In the **IP Address** column, double-click an unused IP address. The Add Object Profile screen opens.
- c. Select **Server** from the **Object Class** list.
- d. Enter the same DNS server name as you entered in Step 4d in the **Object Name** field.
- e. Click **Submit** and click **OK** in response to the confirmation message.

Step 8: Define the DHCP server

- a. Select **DHCP ▶ DHCP Server**. The DHCP Servers Hierarchy opens.
- b. Mouse over the **Actions** menu and select **Add Server**. The Add Server screen opens.
- c. Select a server type, such as **Lucent DHCP 5.5**, from the **Server Type** list. A set of parameters opens.
- d. To install the DHCP Server software on the same server as the DNS server, enter the host name you entered in Step 4d in the **Host Name** field. Otherwise, enter a different host name and add an object for it (as described in “Step 7: Assign the DNS server an address”).
- e. Enter the domain you entered in Step 3c, or click ... to use Domain Search. Click **Search**, select the domain from the search results, and click **Select**.
- f. Required server parameters appear in *italics*. Select the parameter and enter values (if necessary) as follows:
 - **Default Directory**. Enter either **c:\QIPHOME\dhcp** on Windows, or **QIPHOME/dhcp** on UNIX.
 - **DHCP Template**. Select **general**.

- g. Click **Submit** and click **OK** in response to the confirmation message.

Step 9: Verify the subnet profile

- a. Select **Address Management ▶ IPv4**. The IPv4 Hierarchy opens.
- b. Mouse over the **Actions** menu and select **View Subnets**.
- c. Expand the subnet hierarchy and select the subnet you created in Step 6. The Subnet Properties screen opens.
- d. Click **Modify**. The Subnet Profile screen opens.
- e. Enter a name in the **Subnet Name** field.
- f. Ensure the domain is correct.
- g. In the **Preferred DNS Server** field, select the DNS server defined in Step 4.
- h. Click the ... button beside the **DHCP Server Name** field.
- i. Click **Search**, select the DHCP server you created in Step 8 from the **Existing List**, and click **OK**.
- j. Click the ... button beside the **DHCP Option Template** field.
- k. Click **Search**, select **general** from the **Existing List**, and click **OK**.
- l. Click **Submit** and click **OK** in response to the confirmation message.

Step 10: Test the environment

- a. To test the environment, create three dynamic objects. Click **Managed Objects**.
- b. Select three unused IP addresses and click **Define Scope**. The Define Scope/Range screen opens with the range added to the scope list.
- c. Select **Workstation** from the **Object Class** field. Note that the Other required fields already display the default values you want.
- d. Click **Submit** and click **OK** in response to the confirmation message. The Subnet Properties screen opens.
- e. Select **DNS ▶ DNS Generation**. The DNS Generation Hierarchy opens.
- f. Expand DNS Generation in the hierarchy and select the DNS server you added in Step 4. The DNS Properties screen opens.
- g. Click **Perform DNS Generation**. The DNS Generation screen opens.
- h. In the **Type** field, select the **Configuration and Data** option.
- i. In the **Generate To** field, select the **Preview** option.
- j. Click **Submit** and click **OK** in response to the **Job is scheduled. Job ID is: nnn. Continue to the job scheduler page?** message. The Job Scheduler screen opens.

- k. Click the **Completed** link for the job when the **Status** shows it has finished. The QIP DNS Generation screen opens.
- l. Click **Select All** followed by **View Selected**. Check the DNS configuration files on the screen and check that the infrastructure is configured as intended.
- m. Click the **Return to file list** link. To download files so you can review and/or print them, select them again and choose one of the download functions.
- n. Click **Close** and click **Yes** in response to the confirmation message.
- o. Click **Cancel** to close the DNS Generation window.

Step 11: 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 12: Initialize the DHCP server

- a. Select **DHCP ▶ DHCP Server**. The DHCP Servers Hierarchy opens.
- b. Expand **Standalone/Primary** and select the DHCP server you added in Step 8. The DHCP Properties screen opens.
- c. Click **Perform DHCP Generation**. The Generate DHCP Configuration File screen opens.
- d. Check that the **Type** field is set to **Server** and that the **Generate to Directory** field is correct.
- e. Click **Submit** and click **OK** in response to the confirmation message.

Step 13: Initialize the DNS Server

- a. Select **DNS ► DNS Generation**. The DNS Generation Hierarchy opens.
- b. Expand DNS Generation in the hierarchy and select the DNS server you added in Step 4. The DNS Properties screen opens.
- c. Click **Perform DNS Generation**. The DNS Generation screen opens.
- d. Check that the **Type** field is set to **Update** and that the **Generate To** field is set to **Server**.
- e. Click **Submit** and click **OK** in response to the confirmation message.

Step 14: 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. Select **Address Management ► IPv4**. The IPv4 Hierarchy opens.
- d. Mouse over the **Actions** menu and select **View Subnets**.
- e. Expand the subnet hierarchy and select the subnet you created in Step 6. The Subnet Properties screen opens.
- f. Click **Manage Objects**. The address assignment list for the subnet opens.
- g. Double-click on the IP address of the PC and check the information in the Modify Object Profile screen.

Contacting Technical Support

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

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