

Chapter 11

Configuring NIC on a Solaris Platform

This chapter describes how to configure operating parameters for the network information collector (NIC) and manage the NIC on a Solaris platform using the SRC configuration applications that run only on Solaris platforms.

You can also use the SRC CLI to configure operating properties. Use the SRC CLI to configure NIC configuration scenarios. See *Chapter 10, Configuring NIC with the SRC CLI*.

Topics in this chapter include:

- Configuring Operating Parameters for NIC Hosts on a Solaris Platform on page 181
- Starting NIC on a Solaris Platform on page 185
- Stopping a NIC Host on a Solaris Platform on page 186
- Monitoring NIC Hosts on a Solaris Platform on page 186

See *Chapter 12, Obtaining Interface Configuration for OnePopStaticRouteIp on Solaris Platforms*.

Configuring Operating Parameters for NIC Hosts on a Solaris Platform

The operating parameters define how the NIC host interacts with other SRC components, such as the directory.

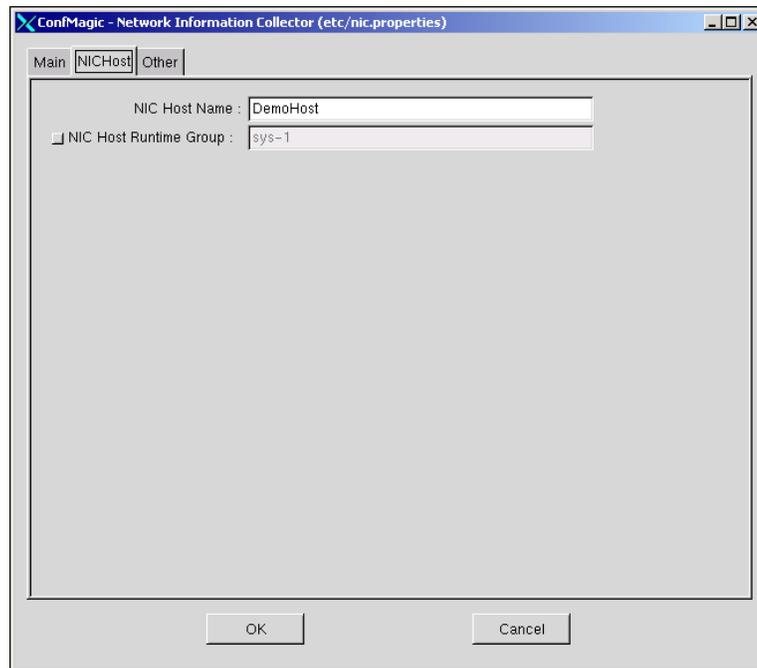
You can also configure NIC operating parameters from the SRC CLI, see *Chapter 10, Configuring NIC with the SRC CLI*.

To configure the operating parameters:

1. Log in as root.
2. Start the local configuration tool in the directory where you installed the NIC.

`/opt/UMC/nic/etc/config`

The Network Information Collector window appears.



3. Configure the fields in each tab of this window. The following sections describe the properties on each tab:
 - Directory Connection Properties for NIC Hosts on page 182
 - NIC Host Properties on page 184
 - Additional Properties for NIC Hosts on page 184
4. Click OK.



NOTE: If you change any of the NIC operating parameters, restart NIC for the changes to take effect.

Directory Connection Properties for NIC Hosts

In the Main tab of the Network Information Collector window of the local configuration tool, you can modify the following fields to configure directory connection properties.

Primary Directory Server

- Location of the directory server in URL string format.
- Value—URL in the format [ldap | ldaps]:// { <host > } : <portNumber >
 - ldap—LDAP connection (not secure)
 - ldaps—Secure LDAP connection
 - <host > —Name or IP address of the host that supports the directory
 - <portNumber > —Number of the TCP/IP port

- Default— `ldap://127.0.0.1:389/`
- Example— `ldaps://192.0.2.10:389/`

Backup Directory Servers

- List of redundant directories.
- Value—List of URLs separated by semicolons.
For format of the URL, see the field Primary Directory Server on page 182.
- Example— `ldaps://192.0.2.10:389/`

Base DN

- Location in the directory in which the SRC data is stored.
- Value—DN
- Example— `o = UMC`

Bind DN

- DN that contains the username that the directory server uses to authenticate the NIC host.
- Value— `< DN > , < base >`
- Example— `cn = nic, ou = Components, o = Operators, < base >`

Bind Password

- Password that the directory server uses to authenticate the NIC host.
- Value—Text string or Base64 string
- Example— `nic`

Static Configuration DN

- DN of the location in which the NIC configuration is stored.
- Value—DN
- Example— `l = OnePop, l = NIC, ou = staticConfiguration, ou = Configuration, o = Management, o = umc`

Dynamic Configuration DN

- DN of the location in which data that the NIC automatically generates is stored.
- Value—DN
- Example— `ou = dynamicConfiguration, ou = Configuration, o = Management, o = umc`

Connect Timeout(s)

- Time that the NIC waits for the directory server to respond when it tries to connect to the directory.
- Value—Number of seconds in the range 1–2147483647
- Example—10

NIC Host Properties

In the NIC Host tab of the Network Information Collector window of the local configuration tool, you can modify the following fields.

NIC Host Name

- Name of the NIC host that you configured.
- Value—Text string
- Guidelines—Use the name DemoHost. The configuration scenarios all use DemoHost as the NIC hostname.
- Default—No value
- Example—DemoHost

NIC Host Runtime Group

- Group to which this NIC host belongs if you configure NIC replication.
- Value—Text string
- Default—No value
- Example—ontarioHosts

Additional Properties for NIC Hosts

In the Other tab of the Network Information Collector window of the local configuration tool, you can modify the following fields.

NIC Host Java

- Path to the JRE.
- Value—Path (absolute or relative) to the directory that contains the JRE
- Example—`../jre/bin`

JVM Max Heap

- Maximum memory size available to the JRE.
- Value—Capacity in megabytes

- Guidelines—By default, the JRE can allocate 128 MB. Change this value if you have problems because of lack of memory. Set to a value lower than the available physical memory to avoid low performance because of disk swapping. If you use an SAE plug-in agent, we recommend that you increase the JVM max heap to a value in the range 400–500 MB.
- Default—128 MB

Enable Sysman Clients

- Specifies whether or not there is support for viewing SNMP counters with an SNMP browser.
- Value
 - Yes—Enabled
 - No—Disabled
- Default—No

Sysman IOR

- Folder that contains the IOR file for the NIC. The NIC writes its object references to this folder, and the SNMP agent discovers NIC components by monitoring the NIC IOR file in this folder.
- Value—Path to the folder that contains the IOR
- Guidelines—By default, the NIC IOR file is in the *var* folder, which is relative to the SNMP agent installation folder (*/opt/UMC/agent*). You need to change this property only if you installed the SNMP agent in a folder other than the default folder, or if you previously changed this property and now need it to point to the folder where the IOR file currently resides.
- Default—*/opt/UMC/agent/var*

Starting NIC on a Solaris Platform

If you run NIC in client/server mode, after you configure operating parameters for a NIC host and modify basic configuration for a NIC host, start the NIC host.

To start a NIC host:

1. On the machine on which the NIC host is installed, log in as `root` or as an authorized nonroot admin user.
2. Start the NIC host from its installation directory.

`/opt/UMC/nic/etc/nichost start`

Stopping a NIC Host on a Solaris Platform

If you run NIC in client/server mode, you can stop the NIC host independently of the NIC proxy.

To stop a NIC host:

1. On the machine on which the NIC host is installed, log in as `root` or as an authorized nonroot admin user.
2. Stop the NIC host from its installation directory.

```
/opt/UMC/nic/etc/nichost stop
```

Monitoring NIC Hosts on a Solaris Platform

To verify that a NIC host is running:

1. On the machine on which the NIC host is installed, log in as `root` or as an authorized nonroot admin user.
2. Verify the status of the NIC host from its installation directory.

```
/opt/UMC/nic/etc/nichost status
```