



Managing Reports

This chapter explains how to manage the Cisco CNS Network Registrar address space reporting tool, which is available from a regional cluster using the Web UI. Before you proceed with this chapter, become familiar with the concepts in the previous chapters of this part of the *User's Guide*.

ARIN Reports and Allocation Reports

Using the Network Registrar Web UI, you can generate:

- American Registry of Internet Numbers (ARIN) reports, including:
 - Organization and point of contact (POC) reports
 - IPv4 address space utilization reports
 - Shared WHOIS project (SWIP) allocation and assignment reports
- Allocation reports that show how addresses are deployed across the routers and router interfaces of your network, including:
 - Allocation by owner reports
 - Allocation by router interface or by network reports

Managing ARIN Reports

ARIN, which is one of several regional Internet Registries (IRs), manages IP resources in North America, parts of the Caribbean, and subequatorial Africa.

ARIN allocates blocks of IP addresses to Internet Service Providers (ISPs), which, in turn, reassign blocks of address space to their customers. ARIN distinguishes between *allocating* IP address space and *assigning* IP address space. It allocates address space to smaller IRs for subsequent distribution to the IRs' members and customers. It assigns address space to an ISP, or other organization, for use only within that organization's network and only for the purposes documented in its requests and reports to ARIN.



Note

ARIN manages IP address resources under the auspices of the Internet Corporation for Assigned Names and Numbers (ICANN). In other geographies, ICANN has delegated authority for IP resources to different regional Internet Registries. Network Registrar does not currently support the reports that these registries might require, nor does it now support IPv6 reports or autonomous system (AS) numbers.

ARIN maintains detailed documentation about its policies and guidelines on its web site.

<http://www.arin.net>

Be sure that you are familiar with these policies and guidelines before proceeding with ARIN reports.

The three options that you can specify for ARIN reports are:

- **New**—For a newly added POC or organization.
- **Modify**—Includes changed POC or organization data, such as phone numbers and addresses.
- **Remove**—Signals that you want to remove the POC or organization from the ARIN database.

Managing Point of Contact and Organization Reports

Network Registrar provides reports that can submit Points of Contact (POC) and organizational information to ARIN. Once you fill in these reports, you need to e-mail the information to ARIN. Submit the POC report (also called a template) to ARIN before preparing other reports.

Each POC is uniquely identified by a name called a POC handle and is associated with one or more Organization Identifiers (Org IDs) or resource delegations, such as an IP address space allocation or assignment. A POC handle, which ARIN assigns, can represent either an individual or a role.

The Organization report creates an Org ID and associates POC records with it. Create the Organization report after you create the POC report.

To manage POC and organization reports, log in to the Network Registrar regional Web UI as a member of an administrator group assigned to the regional-addr-admin role.

Creating a Point of Contact Report

You create POCs so that managers can interact with ARIN to request and administer IP resources and so that network professionals can manage network operation issues.

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- Step 1** In the regional cluster Web UI, click **Reports**, then **Contacts** to open the List Points of Contact page.
 - Step 2** Click **Add Point of Contact** to open the Add Point of Contact page (see [Figure 12-1](#) for a partial view).

Figure 12-1 Add Point of Contact Page (Regional)

Attribute	Value		
Name*	<input type="text"/>		
First Name*	<input type="text"/>		
Middle Name	<input type="text"/>		
Last Name*	<input type="text"/>		
Type	Role <input type="button" value="v"/>		
Description	<input type="text"/>		
<input type="checkbox"/> Poc Emails			
Email Address	<input type="text"/> <input type="button" value="Add Email Address"/>		
<input type="checkbox"/> Poc Phones			
Phone Number	<input type="text"/>		
Phone Extension	<input type="text"/>		
Phone Type	[none] <input type="button" value="Add Phone"/>		
<input type="checkbox"/> Miscellaneous Settings			
Attribute	Value	Data Type	Default
company-name	<input type="text"/>	string	
address	<input type="text"/>	string	

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Step 3 Enter data in the fields on the page:

- Name—A unique identifier for the POC (required).
- First Name—The first name of the point of contact (required).
- Middle Name—The middle name of the point of contact (optional).
- Last Name—The last name of the point of contact (required).
- Type—From the drop-down list, choose Person or Role (optional, with default Person).
- Description—A text description for the POC (optional).

Step 4 To expand the optional Poc Emails field, click the plus (+) sign.

- Enter the e-mail address for the POC.
- Click **Add Email Address** to add additional e-mail addresses.

Step 5 To expand the optional Poc Phones field, click the plus (+) sign.

Step 6 Enter a phone number and extension, if applicable, then choose a type (Office, Mobile, Fax, or Pager) from the drop-down list, then click **Add Phone** to add additional telephones. This is an optional field.

Step 7 Miscellaneous Settings—Add these additional attributes as strings or lists of text (optional).

Step 8 When you are finished, click **Add Point of Contact**. The browser displays the List Points of Contact page.

Registering a Point of Contact

You must register the POC with ARIN to receive a POC handle.


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- Step 1** In the regional cluster Web UI, click **Reports**, then **Contacts** to open the List Points of Contact page.
 - Step 2** In the Register Report column on the List Points of Contact page, click the Report icon () next to the report you want to register. The browser displays an ARIN template file, as shown in [Figure 12-2](#).

Figure 12-2 ARIN POC Template Report (Regional)

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Template: ARIN-POC-3.2.1
1. Registration Action: N
2. Handle:
3. Contact Type: P
4. Last Name Or Role Account: Last
5. First Name: First
6. Middle Name:
7. Additional Information:
8. Company Name: Company B
9a. Address: Main St.
9b. Address:
10. City: Anytown
11. State/Province: AK
12. Postal Code:
13. Country Code: US
14. Phone Type:
15. Phone Number:
16. Phone Extension:
17. E-mail Address: person@example.com
18. Public Comments:

END OF TEMPLATE
  
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- Step 3** Copy and paste the template file into an e-mail and send the file to ARIN.
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Editing a Point of Contact Report

Edit a POC report after ARIN returns a POC handle to your organization or if your POC has changed.

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- Step 1** In the regional cluster Web UI, click **Reports**, then **Contacts** to open the List Points of Contact page.
 - Step 2** Click the POC that you want to edit. The browser displays the Edit Point of Contact page.
 - Step 3** Enter data in the fields, according to whether you are adding a POC handle or changing your POC.
 - Step 4** When you are finished, click **Modify Point of Contact**.
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Creating an Organization Report

Each organization is represented in the ARIN WHOIS database by a unique Org ID, consisting of an organization name, its postal address, and its POCs. While organizations may have more than one Org ID, ARIN recommends consolidating IP address resources under a single Org ID.

If you do not have an Org ID with ARIN, or you are establishing an additional Org ID, you must first create and submit a POC report. When ARIN confirms it has received your POC information, use Network Registrar to complete an Organization form and submit that information.

- Step 1** In the regional cluster Web UI, click **Reports**, then **Organization** to open the List Organizations page.
- Step 2** Click **Add Organization**. The browser displays the Add Organization page (see [Figure 12-3](#)).

Figure 12-3 Add Organization Page (Regional)

The screenshot shows the 'Add Organization' page with the following structure:

- Navigation Bar:** Home | Administration | Servers | Clusters | Routers | Replica Data | DHCP | DNS | Hosts | Address Space | Reports | Address Space | Contacts | Organizations
- Section: Add Organization**
- Form Fields:**
 - Organization Name* (text input)
 - Description (text input)
 - Organization Admin POC* (dropdown menu)
 - Organization Technical Points Of Contact*** (dropdown menu) with an **Add Point Of Contact** button.
 - Miscellaneous Settings** (expandable section):


Attribute	Value	Data Type	Default
address	<input type="text"/>	string	
city	<input type="text"/>	string	
state	<input type="text"/>	string	
postal-code	<input type="text"/>	string	
country-code	<input type="text"/>	string	
referral-server	<input type="text"/>	string	
additional-information	<input type="text"/>	string	
 - Organization Abuse Points Of Contact** (dropdown menu) with an **Add Point Of Contact** button.
 - Organization NOC Points Of Contact** (dropdown menu) with an **Add Point Of Contact** button.
 - Buttons:** Add Organization, Cancel

- Step 3** Enter data in the fields on the page:
- Organization Name—Name of the organization that you want to register with ARIN.
 - Description—A text description of the organization.
 - Organization Admin POC—From the drop-down list, choose the POC who administers IP resources from the drop-down list.
 - Organization Technical Points Of Contact—From the drop-down list, choose one or more POCs who manage network operations, or click **Add Point of Contact** to add new contact information.
 - Miscellaneous Settings—Add these additional attributes as strings or lists of text.
 - Organization Abuse Points of Contact—From the drop-down list, choose one or more POCs who handle network abuse complaints, or click **Add Point of Contact** to add new contact information.
 - Organization NOC Points of Contact—From the drop-down list, choose one or more POCs in network operations centers, or click **Add Point of Contact** to add new contact information.
- Step 4** When you are finished, click **Add Organization**. The browser displays the List Organizations page.

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Registering an Organization

You must register your Organization with ARIN to receive an Organization ID.

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- Step 1** In the regional cluster Web UI, click **Reports**, then **Organization** to open the Organizations page.
 - Step 2** In the Register Report column of the List Organizations page, click the Report icon () next to the report you want to register. The browser displays an ARIN template file.
 - Step 3** Copy and paste the template file into an e-mail and send the file to ARIN.
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Editing an Organization Report

You might need to change organizational information that you have registered with ARIN.

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- Step 1** In the regional cluster Web UI, click **Reports**, then **Organization** to open the List Organizations page.
 - Step 2** Click the organization that you want to edit. The browser displays the Edit Organization page.
 - Step 3** Enter or change data in the fields.
 - Step 4** When you are finished, click **Modify Organization**.
 - Step 5** Submit the updated report to ARIN as described in the [“Registering an Organization”](#) procedure.
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Managing IPv4 Address Space Utilization Reports

Address space utilization reports serve two purposes:

- To make an initial request for IPv4 address space after you receive a POC handle and an Org ID.
- To support a request for an additional allocation of IPv4 addresses when your business projections show that you are running out of IP addresses.



Note

The ARIN website contains extensive information about how it initially allocates address space and its threshold criteria for requesting additional address space. In general, for a single-homed organization, the minimum allocation from ARIN is a /20 block of addresses. For a multihomed organization, the minimum allocation is a /22 block of addresses. ARIN recommends that an organization requiring a smaller block of addresses contact an upstream ISP to obtain addresses.

The Network Registrar utilization report corresponds to the ARIN ISP Network Request template (ARIN-NET-ISP-3.2.2).

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- Step 1** In the regional cluster Web UI, click **Reports**, then **Address Space** to open the Select Address Space Report page (see [Figure 12-4](#)).

Figure 12-4 Select Address Space Report Page (Regional)

- Step 2** In the Select the Report Type field, choose Utilization from the drop-down list and click **Select Report Type**.
- Step 3** In the Select the Filter Type field, choose by-owner from the drop-down list and click **Select Filter Type**. The browser redisplay the Select Address Space Report page with two new fields: Network Name and Network Prefix Length.
- Step 4** In the Select Owner field, choose the owner of this address block from the drop-down list.
- Step 5** Enter the network name and select the network prefix length from the drop-down list.
- Step 6** Click **Generate Report**. The browser displays an ARIN template file (ARIN-NET-ISP-3.2.2). Several sections of the report require that you manually enter data because the information is generated and maintained outside the Network Registrar application.
- Step 7** Click **Save Report**. The browser displays the Address Space Utilization Report as an unformatted text file.
- Step 8** Copy the Address Space Utilization Report to a text editor to manually enter the data that Network Registrar does not generate.
- Step 9** Copy and paste the edited report into an e-mail and send the file to ARIN.

Managing Shared WHOIS Project Allocation and Assignment Reports

The ARIN shared WHOIS project (SWIP) provides a mechanism for finding contact and registration information for resources registered with ARIN. The ARIN database contains IP addresses, autonomous system numbers, organizations or customers that are associated with these resources, and related POCs.

ARIN's WHOIS does not locate any domain- or military-related information. Use whois.internic.net to locate domain information, and whois.nic.mil for military network information.

