

RIR Integration: SWIP-RPSL

Overview

ProVision supports updating SWIP/RPSL functions for ARIN and RIPE blocks through simple reassigns using the RIR Integration action.

- RIR Integration
 - When do I use RIR Integration and Why?
 - What is Simple Re-assign?
- Workflow
 - 1) LIR Setup
 - 2) Assign IP blocks to the ARIN or RIPE RIRs
 - 3) RIR Integration
 - ARIN / Update SWIP
 - RIPE / Update RPSL
- RIR Audit
- Additional Information

RIR Integration

When do I use RIR Integration and Why?

From ARIN.net:

Organizations that receive space allocations from ARIN, either directly or as a downstream customer, must provide reassignment information back to ARIN. This information must be sent within seven days of the reassignment so that the WHOIS database may be maintained. ARIN also uses utilization history, projected requirements, and other information in order to make future space allocations.

From RIPE.net:

All RIPE assignments and allocations must be registered in the RIPE Database. This is necessary to ensure uniqueness and to support network operations.

Only allocations and assignments registered in the RIPE Database are considered valid. Registration of objects in the database is the final step in making an allocation or assignment. Registration data (range, contact information, status etc.) must be correct at all times (i.e. they have to be maintained). The RIPE community's policies require LIRs to register an inetnum object in the RIPE Database for their own infrastructure and customers' networks. LIRs must ensure registration information is correct and up to date at all times.

RIPE Integration

You must be using an MD5 password to update RIPE objects from ProVision! Please refer to RIPE's authentication page for additional details:

<https://www.ripe.net/manage-ips-and-asns/db/support/security/protecting-data#solving-authentication-problems>

What is Simple Re-assign?

From ARIN.net:

Used to subdelegate IP addresses to a customer that does not need to:

- subdelegate the addresses to their own customers
- maintain their own in-addr.arpa delegation
- display their own point of contact (POC) information.

It can also be used to change the customer name and address information (but not the range) on an existing simple reassignment and to remove simple reassignments. It is submitted by an ARIN Online user account linked to the parent organization's Admin or Tech POC, or the Tech POC for the resource.

Workflow

1) LIR Setup

ProVision supports multiple LIRs (Local Internet Registries) in a single instance. This means that you have the ability to update SWIP/RPSL functions for a given allocation with the LIR information that you wish. LIRs are set up and managed from the IPAM Admin area, and thus require Admin level permissions to set up.

While setting up the LIR, the POCs / Contact fields that are filled in will later be used for the RIR Integration.

For detailed step by step instructions, see:

[LIR Management and Use](#)

[ARIN LIR Setup and Use](#)

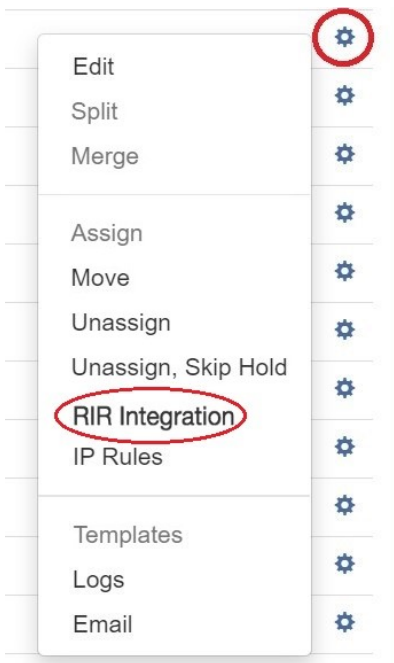
[RIPE LIR Setup and Use](#)

2) Assign IP blocks to the ARIN or RIPE RIRs

Assign an IP block to a Resource using the [IPAM Gadget](#) or the Assign function from the IPAM Manage screen. See [Working with IP Blocks](#) for additional detail.

3) RIR Integration

Once LIRs have been configured, and blocks assigned under the applicable RIR, you will be able to use the **RIR integration** feature from the Action Menu on the IPAM Manage screen or IPAM Gadget.



Depending on the RIR associated with the block, either an ARIN or RIPE Integration box will pop up.

ARIN / Update SWIP

Select LIR:

Select the desired LIR, and verify the Net Name / Public Name if desired.

ARIN Integration 10.0.0.0/24 (10.0.0.0 - 10.0.0.255)

Select Lir...

Net Name:

Registrar Public Name (Simple Reassign only):

By default, when ARIN blocks are SWIPed the customer name in the WHOIS database will be set to the assigned resource name. To override this, enter a public name to use in this field.

Simple Reassign Detailed Reassign Close

Reassign:

Once the LIR and Handle is selected, you can click either "Simple Reassign", "Detailed Reassign" or "Close" to exit.

ARIN Integration 10.0.0.0/24 (10.0.0.0 - 10.0.0.255)

6connect

Net Name: 6CONN-10-0-0-0-24

Registrar Public Name (Simple Reassign only):

By default, when ARIN blocks are SWIPed the customer name in the WHOIS database will be set to the assigned resource name. To override this, enter a public name to use in this field.

Org Handle	Admin POC	Net POC	Abuse POC	Net Name Prefix	API Key
CONNE-81	6CONN-ARIN	6CONN-ARIN	6CONN-ARIN	6CONN	*****

Simple Reassign Detailed Reassign Close

For detailed step by step instructions, see:

[ARIN LIR Setup and Use](#)

RIPE / Update RPSL

Select LIR:

RIPE Integration 2.2.2.64/26 (2.2.2.64 - 2.2.2.127)

Select Lir...

Create Inetnum Close

Select Data Set / Create Inetnum

Identify which LIR data you want to use for the inetnum update, and select either "Create Inetnum" or "Close" to exit.

RIPE Integration 2.2.2.64/26 (2.2.2.64 - 2.2.2.127)

6connect TEST

mnt-by	admin-c	tech-c	API Key
<input checked="" type="radio"/> MNT-SIXCONNECT-TESTING	LJ1-TEST	LJ1-TEST	
<input type="radio"/> MNT-SIXCONNECT-TESTING-SHARED	LJ1-TEST	LJ1-TEST	
<input type="radio"/> TEST-DBM-MNT	LJ1-TEST	LJ1-TEST	

Create Inetnum Close

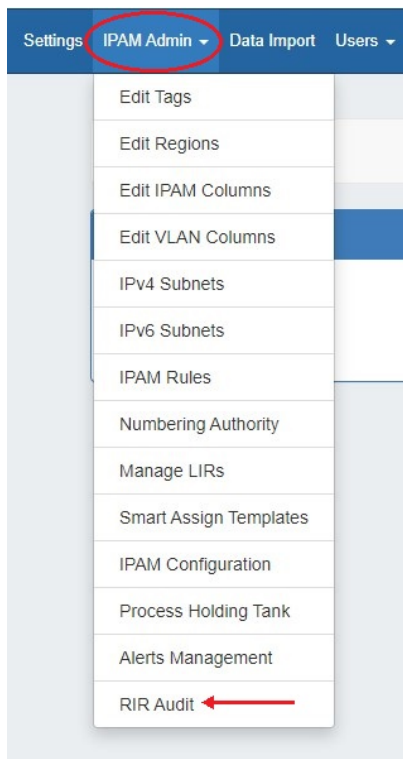
For detailed step by step instructions, see:

[RIPE LIR Setup and Use](#)

RIR Audit

Users often have data in ProVision that does not match the RIR database. SWIP Auditor helps solve this issue by making the user aware of the mismatch. Located in the IPAM Admin section, the Auditor also includes a Scheduler task.

To access, select "RIR Audit" from the Admin IPAM Admin dropdown menu.



Enable the SWIP Auditor by clicking the enable button.

SettingsIPAM AdminData ImportUsersAPISchedulerScanningLogApprovalsConstraintsExit Admin

Search...Q

SWIP Auditor

SWIP Auditor - Status

Currently SWIP Auditor is not enabled.

Enable SWIP Auditor

Once enabled the audit results will be visible. Users can choose to audit a CIDR again or sync data to ProVision.

SWIP Auditor - Status

Status	Enabled
Last Scan	2024-01-11 05:43:04
Oldest Scan	2024-01-09 20:27:11
Scanned Percentage	100 %
Scanned Blocks at least once	271
Blocks left to scan at least once	0

Disable SWIP Auditor

SWIP Auditor - Issues796

Search for CIDR...

Last scan Time	CIDR	Type	Message	Audit again												
2024-01-09 20:27:11	67.221.240.0/24	Type 4: ProVision has customer data, but the data on the RIR does not match.	<table><tr><th></th><th>RIR</th><th>ProVision</th></tr><tr><td>NET HANDLE</td><td>NET-67-221-240-0-1</td><td></td></tr><tr><td>ORG HANDLE</td><td>CONN-81</td><td>WRONG-ORG</td></tr><tr><td>ORG NAME</td><td>6connect, Inc.</td><td></td></tr></table> <div>Sync data to ProVision</div> <div>ARIN DATA: {"net_handle":"NET-67-221-240-0-1","org_handle":"CONN-81","org_name":"6connect, Inc.,"netblock_type":"DA"}</div>		RIR	ProVision	NET HANDLE	NET-67-221-240-0-1		ORG HANDLE	CONN-81	WRONG-ORG	ORG NAME	6connect, Inc.		<div><div>Audit again</div></div>
	RIR	ProVision														
NET HANDLE	NET-67-221-240-0-1															
ORG HANDLE	CONN-81	WRONG-ORG														
ORG NAME	6connect, Inc.															

To run the RIR Audit on a schedule, use the Scheduler Tab task in the New Task dropdown.

Tasks

Task Detail - New Task

Name

New Task

Task

Settings

Start

End

Schedule/

Repeat Setting

Repeat Type

Every

5 min

Add +

Approvals - Process subscription events

Backup - Backup the database

Backup - Delete old archived data and logs

Contacts - GeoIP Exporter

DHCP - Leases Monitor

DHCP - Server Push

DNS - ERROR Monitor

DNS - Queue Push

DNS - Resource Monitor Task

DNS - S64 Pull Stats

DNS - Zone Transfer

DNS - Zones Backup Removal

IPAM - Alerts Task

IPAM - Process Holding Tank

IPAM - Rotate Dynamic IPs

IPAM - SWIP Auditor

LDAP - Sync Users

Logs - Rotate Logs

Peering - Sync local database

Test Task

Repeat Settings For This Task:

No repeat items set for this task

Save Task

Cancel

Additional Information

For additional detail, continue on to:

[ARIN LIR Setup and Use](#)

[RIPE LIR Setup and Use](#)

[Scheduler Tab](#)