# **RIR Integration: SWIP-RPSL**

# **Overview**

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

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## **<u>RIR Integration</u>**

## 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.

<b>F</b> 10	\$
Edit	
Split	*
Merge	¢
Assign	\$
Move	\$
Unassign	¢
Unassign, Skip Hold	¢
RIR Integration	ø
IP Rules	*
Templates	¥
Logs	¢
Email	¢

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	<b>/24</b> (10.0.0.0 - 10.0.0	0.255)				
Select Lir	÷ • • • • • • • • • • • • • • • • • • •					e
Registrar Public Name (S By default, when ARIN blocks are	imple Reassign only):	me in the WHOIS da	tabase will be set to the a	ssigned resource name.	To override this, enter a p	ublic
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.

6co	nnect	\$				
		Net Name:	6CONN-10-0-0-24			
	Registrar Public I	Name (Simple Reassign only):				
By de name	fault, when ARIN blo to use in this field.	cks are SWIPed the customer	r name in the WHOIS data	abase will be set to the assi	gned resource name. To override	e this, enter a public
By de name	fault, when ARIN blo to use in this field. Org Handle	cks are SWIPed the customer	name in the WHOIS data	abase will be set to the assi Abuse POC	gned resource name. To override Net Name Prefix	e this, enter a public API Key
By de name	fault, when ARIN blo to use in this field. Org Handle CONNE-81	cks are SWIPed the customer Admin POC 6CONN-ARIN	Net POC 6CONN-ARIN	Abuse POC 6CONN-ARIN	gned resource name. To override Net Name Prefix 6CONN	e this, enter a public API Key
By de name	fault, when ARIN blo to use in this field. Org Handle CONNE-81	Admin POC 6CONN-ARIN	Net POC 6CONN-ARIN	Abuse POC 6CONN-ARIN	gned resource name. To override Net Name Prefix 6CONN	e this, enter a public API Key

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	ee
	Create Inetnum Close

### Select Data Set / Create Inetnum

Identify which LIR data you want to use for the netnum 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)			
6con	nnect TEST 😫				
	mnt-by		admin-c	tech-c	API Key
•	MNT-SIXCONNECT-TESTING		LJ1-TEST	LJ1-TEST	
$\circ$	MNT-SIXCONNECT-TESTING-SHARED		LJ1-TEST	LJ1-TEST	
0	TEST-DBM-MNT		LJ1-TEST	LJ1-TEST	
				Cre	eate Inetnum Close

For detailed step by step instructions, see:

RIPE LIR Setup and Use

## **<u>RIR Audit</u>**

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.

Settings	IPAM Admin - Data Import	Users 🗸
	Edit Tags	
	Edit Regions	
	Edit IPAM Columns	
	Edit VLAN Columns	
	IPv4 Subnets	
	IPv6 Subnets	
	IPAM Rules	
	Numbering Authority	
	Manage LIRs	
	Smart Assign Templates	
	IPAM Configuration	
	Process Holding Tank	
	Alerts Management	
	RIR Audit	

Enable the SWIP Auditor by clicking the enable button.

Settings	IPAM Admin 👻	Data Import	Users 🗸	API 🗸	Scheduler	Scanning <del>-</del>	Log	Approvals 👻	Constraints	Exit Admin	Search	۹ 1
S	WIP Auditor											
s	WIP Auditor - S	Status										
					Current	ly SWIP Audi nable SW	tor is n P Au	ot enabled. ditor				

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

	- Status									
	Status			Enabled						
ı	.ast Scan		2024-01-11 05:43:04							
o	Idest Scan		2024-01-09 20:27:11							
Scann	ed Percentage		100 %							
Scanned E	locks at least once			271						
Blocks left 1	o scan at least onc	e		0						
WIP Auditor Last scan Time	- Issues (796) CIDR	Туре		Message	Search	for CIDR Audit again				
VIP Auditor Last scan Time 2024-01-09 20:27:11	- Issues 795	Type Type 4: ProVision has customer data, but the data on the PIR does not		Message RIR	Search	for CIDR Audit again				
Last scan Time 2024-01-09 20:27:11	- Issues 795 CIDR 67.221.240.0/24	Type Type 4: ProVision has customer data, but the data on the RIR does not match.	NET HANDLE	Message RIR NET-67-221-240-0-1	ProVision	for CIDR Audit again C Audit again				
Last scan Time 2024-01-09 20:27:11	- Issues 795	Type Type 4: ProVision has customer data, but the data on the RIR does not match.	NET HANDLE ORG HANDLE	Message RIR NET-67-221-240-0-1 CONNE-81	ProVision WRONG-ORG	for CIDR Audit again C Audit agair				
Last scan Time 2024-01-09 20:27:11	- Issues 795	Type Type 4: ProVision has customer data, but the data on the RIR does not match.	NET HANDLE ORG HANDLE ORG NAME	Message RIR NET-67-221-240-0-1 CONNE-81 6connect, Inc.	ProVision WRONG-ORG	for CIDR Audit again C Audit agair				

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

Tasks				
Took Dotoi	I Now Took			
Task Delai	II - New Task			
Name	New Task			
		~		
Task		$\odot$		
1	Approvals - Process subscription events	-		
Settings	Backup - Backup the database			
	Backup - Delete old archived data and logs Contacts - GeoIP Exporter	_		
Start	DHCP - Leases Monitor			
E. d	DHCP - Server Push			
End	DNS - ERROR Monitor DNS - Queue Push			
	DNS - Resource Monitor Task			
Schedule/	DNS - S64 Pull Stats			
	DNS - Zones Backup Removal			
Repeat Settin	IPAM - Alerts Task			
Repeat Type 💿 I	IPAM - Process Holding Tank			
	IPAM - SWIP Auditor			
Every 💿 5 min	LDAP - Sync Users			
	Logs - Rotate Logs Peering - Sync local database			
Add +	Test Task	-		
Repeat Setting	gs For This Task:			
• No repeat iter	ms set for this task			
no repeat iter	no oction and table			
				Save Task Cancel

# **Additional Information**

For additional detail, continue on to:

ARIN LIR Setup and Use

RIPE LIR Setup and Use

Scheduler Tab