

API Module - IPAM

IP Address Management (IPv4 and IPv6)

ProVision's APIv1 system has been replaced by APIv2, and is now considered deprecated.

- IP Address Management (IPv4 and IPv6)
 - IP Block Management
 - Get
 - Add
 - Update
 - Delete
 - Add Tag
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 - Smart Assign
 - Direct Assign
 - Unassign
 - Aggregate
 - Split
 - Scan Block
 - Get Scan Results
 - Get Options
 - Get VLAN
 - Get Resource Hierarchy
 - IP Subnets List
 - Get Subnet List
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 - Get Tags List
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 - Get Utilization
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 - Holding Tank
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 - Reports
 - Mask Report
- IPAM SWIP Calls:
 - Deassign
 - Get RIR List
 - Simple Reassign
- IPAM API Calls Subject to Change:
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IP Block Management

Get

URL	/api/v1/api.php?target=ipam&action=get
Description	Returns a list of IP blocks. Use optional parameters to filter the list. If multiple parameters are specified, only blocks matching all parameters will be returned.

Returns	Examples:																																																																																			
	SUCCESSFUL	{ "success": 1, "message": "1 blocks found. ", "data": [{ "id": 5890, "type": "ipv4", "top_aggregate": null, "cidr": "192.168.0.0V24", "formatted_ip": "192.168.0.0V24", "address": "3232235520", "end_address": "3232235775", "mask": 24, "child1": null, "child2": null, "is_assigned": 0, "is_swipped": 0, "is_aggregate": 1, "custid": 81, "resource_id": 81, "resource_name": "Available", "last_updated_time": null, "description": null, "parent": null, "rir": "1918", "lir_id": null, "notes": null, "generic_code": null, "code": null, "region": "SFO", "vlan": 100, "arin_net_id": null, "arin_cust_id": null, "org_id": null, "arin_swip_time": null, "assigned_time": null, "asn": null, "allowSubAssignments": false, "permissions": { "permissionIPAMRead": "1", "permissionIPAMUpdate": "1", "permissionIPAMCreate": "1", "permissionSWIP": "1", "permissionAdmin": "1" }, "range": "192.168.0.0 - 192.168.0.255", "tags": ["Customer", "PTP"] }] }																																																																																		
	ERROR	{ 'success':0, 'message':'error message' }																																																																																		
Required Parameters	None																																																																																			
Optional Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>address</td><td>INTEGER</td><td>1125449728</td><td>IP address of the block in decimal format</td></tr><tr><td>asn</td><td>INTEGER</td><td>1000</td><td>Filters blocks based on their ASN</td></tr><tr><td>allowSubAssignments</td><td>BOOL</td><td>true</td><td>Filters blocks based on whether they allow sub-assignments or not. Acceptable values: "true" or "false"</td></tr><tr><td>block</td><td>STRING</td><td>213.37.29.0 /24</td><td>CIDR block description</td></tr><tr><td>code</td><td>STRING</td><td>Code X</td><td>User-defined block code as defined in Admin-IPAM settings: Generic Code Per Block Name</td></tr><tr><td>endAddress</td><td>INTEGER</td><td>1125453823</td><td>End IP address of the block in decimal format</td></tr><tr><td>id</td><td>INTEGER</td><td>1234</td><td>The ID of the block</td></tr><tr><td>includeAttributes</td><td>BOOL</td><td>true</td><td>Allows loading and display of the attributes for all of the blocks in the collection.</td></tr><tr><td>isAggregate</td><td>BOOL</td><td>true</td><td>Indicates if the block has been split into children or not. A value of 'true' will return blocks with no children.</td></tr><tr><td>isAssigned</td><td>BOOL</td><td>true</td><td>Acceptable values: "true" or "false"</td></tr><tr><td>isSwipped</td><td>BOOL</td><td>true</td><td>Acceptable values: "true" or "false"</td></tr><tr><td>lastUpdateTime</td><td>DATETIME</td><td>=2015-8-19 21:08:54</td><td>SQL Datetime format, prefaced by an "=" for exact time updated, ">" for blocks updated after the given time, or "<" for blocks updated before the given time.</td></tr><tr><td>lirId</td><td>INTEGER</td><td>101</td><td>The numeric ID of an LIR resource the block should be linked to</td></tr><tr><td>mask</td><td>INTEGER</td><td>24</td><td>Integer bitmask</td></tr><tr><td>notes</td><td>STRING</td><td>note123</td><td>Returns blocks with exact matches in the notes field against the provided "notes" string.</td></tr><tr><td>region</td><td>STRING</td><td>SFO</td><td>The value from the list of name/value pairs which make up the list of available regions</td></tr><tr><td>resourceHolderId</td><td>STRING</td><td>cust -001</td><td>(Deprecated): Use resourceQuery instead) A custom ID which can be used to link resources in the 6Connect database back to your organization.</td></tr><tr><td>resourceId</td><td>INTEGER</td><td>1234</td><td>The ID of the resource the block is assigned to</td></tr><tr><td>resourceQuery</td><td>JSON</td><td>{ "parent_id": 15 }</td><td>A JSON object representing a valid resource query. Any parameters that can be used for a Resource GET API call can be used. Use of the resourceQuery parameter will return blocks assigned to any of the resources returned by that query.</td></tr></table>				Name	Type	Example	Description	address	INTEGER	1125449728	IP address of the block in decimal format	asn	INTEGER	1000	Filters blocks based on their ASN	allowSubAssignments	BOOL	true	Filters blocks based on whether they allow sub-assignments or not. Acceptable values: "true" or "false"	block	STRING	213.37.29.0 /24	CIDR block description	code	STRING	Code X	User-defined block code as defined in Admin-IPAM settings: Generic Code Per Block Name	endAddress	INTEGER	1125453823	End IP address of the block in decimal format	id	INTEGER	1234	The ID of the block	includeAttributes	BOOL	true	Allows loading and display of the attributes for all of the blocks in the collection.	isAggregate	BOOL	true	Indicates if the block has been split into children or not. A value of 'true' will return blocks with no children.	isAssigned	BOOL	true	Acceptable values: "true" or "false"	isSwipped	BOOL	true	Acceptable values: "true" or "false"	lastUpdateTime	DATETIME	=2015-8-19 21:08:54	SQL Datetime format, prefaced by an "=" for exact time updated, ">" for blocks updated after the given time, or "<" for blocks updated before the given time.	lirId	INTEGER	101	The numeric ID of an LIR resource the block should be linked to	mask	INTEGER	24	Integer bitmask	notes	STRING	note123	Returns blocks with exact matches in the notes field against the provided "notes" string.	region	STRING	SFO	The value from the list of name/value pairs which make up the list of available regions	resourceHolderId	STRING	cust -001	(Deprecated): Use resourceQuery instead) A custom ID which can be used to link resources in the 6Connect database back to your organization.	resourceId	INTEGER	1234	The ID of the resource the block is assigned to	resourceQuery	JSON	{ "parent_id": 15 }	A JSON object representing a valid resource query. Any parameters that can be used for a Resource GET API call can be used. Use of the resourceQuery parameter will return blocks assigned to any of the resources returned by that query.
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	rir	STRING	ARIN	Acceptable values: ARIN, RIPE, APNIC, AfriNIC, LACNIC, 1918
	search	STRING	192.168	If a search term is provided, all IPAM fields including assigned Resource Holder name will be checked with a LIKE comparison to find matching blocks
	selectCount	INTEGER	50	# of blocks to get
	selectOffset	INTEGER	25	Offset for results set; useful for paging (e.g. selectCount = 50, selectOffset = 100 would return the 3rd page of 50 results)
	sortField	STRING	cidr	Attribute to sort blocks by. Acceptable values: cidr, mask, rir, vlan, code, updateTime
	sortOrder	INTEGER	ASC	ASC or DESC
	tags	STRING	customer,vpn	Comma-separated list of tags to filter by. If used in conjunction with 'search', performs the search operation and then filters results by the provided tag. Use with tagsMode to specify filter approach.
	tagsMode	STRING	"strict", "exclude", "intersection", or "union".	Denotes how the "tags" parameter is handled: "strict" - matches only blocks that have the exact set of tags of specified. "exclude" - matches only blocks which are not tagged with any of the blocks specified. "intersection" - matches any blocks which has all of the tags. "union" - matches all blocks which has any one of the tags. If not otherwise specified, tagsMode defaults to "intersection".
	topAggregateId	INTEGER	1234	The ID of the aggregate block to which the block belongs
	type	STRING	"ipv4" or "ipv6"	IP type
	vlan	INTEGER	123	VLAN for the block
Example URL	/api/v1/api.php?target=ipam&action=get&rir=ARIN&tags=customer,vpn			

Add

URL	/api/v1/api.php?target=ipam&action=add															
Description	Adds an IPv4 or IPv6 block															
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1, "message": "Block 192.168.0.0/24 (12345) added", "id":12345, "data":{ "id":12345, "cidr": "192.168.0.0/24", ...} }</td></tr><tr><td>ERROR</td><td colspan="3">{ "success":0, "message": "error message" }</td></tr></table>				SUCCESSFUL	{ "success":1, "message": "Block 192.168.0.0/24 (12345) added", "id":12345, "data":{ "id":12345, "cidr": "192.168.0.0/24", ...} }			ERROR	{ "success":0, "message": "error message" }						
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block	STRING	213.37.29.0/24	CIDR block description													
rir	STRING	ARIN	Acceptable values: ARIN, RIPE, APNIC, AfriNIC, LACNIC, 1918													

Optional Parameters	Name	Type	Example	Description
	allowDuplicate	BOOL	true	Allow the creation of duplicate blocks. The default behavior is to reject duplicates.
	allowSubAssignments	BOOL	true	Does the block allow sub-assignments? If the block is assigned and allowSubAssignments is "true", children split from this block will be able to be assigned to different resources. Acceptable values: "true" or "false"
	asn	INTEGER	1000	ASN for the block
	code	STRING	Code X	User-defined block code as defined in Admin-IPAM settings: Generic Code Per Block Name
	region	STRING	SFO	The value from the list of name/value pairs which make up the list of available regions
	resourceId	INTEGER	1234	The ID of the resource the block is assigned to
	tags	STRING	customer, vpn	Comma-separated list of tags
	vlan	INTEGER	123	VLAN for the block
Example URL	/api/v1/api.php?target=ipam&action=add&block=213.37.29.0/24&rir=ARIN			

Update

URL	/api/v1/api.php?target=ipam&action=update																			
Description	Updates detail data about an IP block.																			
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td>SINGLE BLOCK</td><td colspan="3">{ "success":1, "message":"Block 192.168.0.0/24 (12345) updated", "data":{"id":12345, "cidr":192.168.0.0/24", ...} }</td></tr><tr><td>SUCCESSFUL</td><td>MULTIPLE BLOCKS</td><td colspan="3">{ "success":1, "message":"3 blocks updated", "data":[{ "id":12345, "cidr":192.168.0.0/24", ...}, { "id":12346, "cidr", "192.168.0.1/32", ...}] }</td></tr><tr><td>ERROR</td><td></td><td colspan="3">{ "success":0, "message":"error message" }</td></tr></table>					SUCCESSFUL	SINGLE BLOCK	{ "success":1, "message":"Block 192.168.0.0/24 (12345) updated", "data":{"id":12345, "cidr":192.168.0.0/24", ...} }			SUCCESSFUL	MULTIPLE BLOCKS	{ "success":1, "message":"3 blocks updated", "data":[{ "id":12345, "cidr":192.168.0.0/24", ...}, { "id":12346, "cidr", "192.168.0.1/32", ...}] }			ERROR		{ "success":0, "message":"error message" }		
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ERROR		{ "success":0, "message":"error message" }																		
Required Parameters																				
	Name	Type	Example	Allow Multiple	Description															
	id*	INTEGER	125	Yes	ID of the IP block. Multiple block IDs can be specified in a comma-separated list.															
	block*	STRING	192.0.0.0 /24	Yes	CIDR or the block. Multiple CIDRs can be specified in a comma-separated list.															
	*Either block or id can be used, but only one must be provided																			

Optional Parameters	Name	Type	Example	Description
	allowSubAssignments	BOOL	true	Does the block allow sub-assignments? If the block is assigned and allowSubAssignments is "true", children split from this block will be able to be assigned to different resources. Acceptable values: "true" or "false"
	asn	INTEGER	1000	ASN for the block
	code	STRING	Code X	Arbitrary user-defined block code
	lirId	INTEGER	101	The numeric ID of an LIR resource the block should be linked to
	notes	STRING	Words	Misc. Notes
	region	STRING	Chicago, IL	The region this IP block is assigned to.
	propagate	BOOL	true	Propagates all attribute values to any smaller child blocks of the block being updated. Available in version 5.1.0
	rir	STRING	ARIN	Acceptable values: ARIN, RIPE, APNIC, AfriNIC, LACNIC, 1918
	tags	STRING	Customer, vpn	Comma-separated list of tags
	tags_action	STRING	replace	What action to take on the supplied tags. This action must be taken in conjunction with the tags parameter. Valid settings for tags_action are: replace, add, delete. When tags_action is set to 'replace', all tags on an IP block are replaced with those
	vlan	NUMERIC	123	VLAN for the block
Example URL	/api/v1/api.php?target=ipam&action=update&block=192.0.0.0/24¬es=Notes_here			

Delete

URL	/api/v1/api.php?target=ipam&action=delete															
Description	Deletes an aggregate block															
Returns	Examples <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1, "message":"Aggregate deleted: 192.168.0.0/24", "data":{"id":12345, "cidr":"192.168.0.0/24", ...} }</td></tr><tr><td>ERROR</td><td colspan="3">{ "success":0, "message":"error message" }</td></tr></table>				SUCCESSFUL	{ "success":1, "message":"Aggregate deleted: 192.168.0.0/24", "data":{"id":12345, "cidr":"192.168.0.0/24", ...} }			ERROR	{ "success":0, "message":"error message" }						
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Required Parameters	<table><thead><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr></thead><tbody><tr><td>block*</td><td>STRING</td><td>213.37.29.0/24</td><td>CIDR block description</td></tr><tr><td>id*</td><td>INTEGER</td><td>125</td><td>ID of the IP block</td></tr></tbody></table> *Either block or id can be used, but only one must be provided				Name	Type	Example	Description	block*	STRING	213.37.29.0/24	CIDR block description	id*	INTEGER	125	ID of the IP block
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Example URL	/api/v1/api.php?target=ipam&action=delete&block=213.37.29.0/24															

Add Tag

URL	/api/v1/api.php?target=ipam&action=addTag																						
Description	Adds a tag to an IP block.																						
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1, "message":"Tag Added.", "data":{"id":12345, "cidr":192.168.0.0/24", ...} }</td></tr><tr><td>ERROR</td><td colspan="3">{ "success":0, "message":"error message" }</td></tr></table>			SUCCESSFUL	{ "success":1, "message":"Tag Added.", "data":{"id":12345, "cidr":192.168.0.0/24", ...} }			ERROR	{ "success":0, "message":"error message" }														
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tag	STRING	Customer	The tag to add																				
Optional Parameters	None																						
Example URL	/api/v1/api.php?target=ipam&action=addTag&id=125&tag=Customer																						

Delete Tag

URL	/api/v1/api.php?target=ipam&action=deleteTag																						
Description	Removes a tag from an IP block.																						
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1,"message":"Tag Removed.", "data":{ "id":12345, "cidr":192.168.0.0/24", ...} }</td></tr><tr><td>ERROR</td><td colspan="3">{ "success":0, "message":"error message" }</td></tr></table>			SUCCESSFUL	{ "success":1,"message":"Tag Removed.", "data":{ "id":12345, "cidr":192.168.0.0/24", ...} }			ERROR	{ "success":0, "message":"error message" }														
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tag	STRING	Customer	The tag to delete																				
Optional Parameters	None																						
Example URL	/api/v1/api.php?target=ipam&action=deleteTag&id=125&tag=Customer																						

Smart Assign

URL	/api/v1/api.php?target=ipam&action=smartAssign
Description	Selects a block based on supplied parameters (rir, tags, mask size, etc.) and assigns it to a Resource Holder.

Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1,"message":"Assigned 192.168.0.0/24 to Resource (1234) via Smart Assign", "id":12345, "data": { "id":12345, "cidr":192.168.0.0/24", ...} }</td></tr><tr><td>ERROR</td><td colspan="3">{ "success":0, "message":"error message" }</td></tr></table>				SUCCESSFUL	{ "success":1,"message":"Assigned 192.168.0.0/24 to Resource (1234) via Smart Assign", "id":12345, "data": { "id":12345, "cidr":192.168.0.0/24", ...} }			ERROR	{ "success":0, "message":"error message" }																										
SUCCESSFUL	{ "success":1,"message":"Assigned 192.168.0.0/24 to Resource (1234) via Smart Assign", "id":12345, "data": { "id":12345, "cidr":192.168.0.0/24", ...} }																																			
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Required Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>mask</td><td>INTEGER</td><td>24</td><td>The size of the block to be assigned</td></tr><tr><td>rir</td><td>STRING</td><td>ARIN</td><td>Acceptable values: ARIN, RIPE, APNIC, AfriNIC, LACNIC, 1918</td></tr><tr><td>resourceId*</td><td>INTEGER</td><td>1234</td><td>Integer ID of the resource to assign the block to</td></tr><tr><td>resourceQuery*</td><td>JSON</td><td>{ "custom_id": "cust-001" }</td><td>A JSON object representing a valid resource query. Any parameters that can be used for a Resource GET API call can be used. Use of the resourceQuery parameter will return blocks assigned to any of the resources returned by that query.</td></tr><tr><td colspan="4">*Either resourceId or resourceQuery can be used, but only one must be provided</td></tr><tr><td>resourceHolderId</td><td>STRING</td><td>cust-001</td><td>(Deprecated): Use resourceQuery instead A custom ID which can be used to link resources in the 6Connect database back to your organization.</td></tr><tr><td>type</td><td>STRING</td><td>"IPv4" or "IPv6"</td><td>The type of block to assign</td></tr></table>				Name	Type	Example	Description	mask	INTEGER	24	The size of the block to be assigned	rir	STRING	ARIN	Acceptable values: ARIN, RIPE, APNIC, AfriNIC, LACNIC, 1918	resourceId*	INTEGER	1234	Integer ID of the resource to assign the block to	resourceQuery*	JSON	{ "custom_id": "cust-001" }	A JSON object representing a valid resource query. Any parameters that can be used for a Resource GET API call can be used. Use of the resourceQuery parameter will return blocks assigned to any of the resources returned by that query.	*Either resourceId or resourceQuery can be used, but only one must be provided				resourceHolderId	STRING	cust-001	(Deprecated): Use resourceQuery instead A custom ID which can be used to link resources in the 6Connect database back to your organization.	type	STRING	"IPv4" or "IPv6"	The type of block to assign
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Optional Parameters*	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>assignedResourceId</td><td>STRING</td><td>"123" or "ignore"</td><td>The ID of the resource the block is assigned to, or the string "ignore". If assignedResourceId is set to "ignore", then a matching IP block is selected from the Available pool or any sub-assignable block on any resource.</td></tr><tr><td>code</td><td>STRING</td><td>Code X</td><td>Arbitrary user-defined block code</td></tr><tr><td>lirId</td><td>INTEGER</td><td>101</td><td>The ID of an LIR resource</td></tr><tr><td>region</td><td>STRING</td><td>Ashburn</td><td>Region to assign from</td></tr><tr><td>tags</td><td>STRING</td><td>customer,vpn</td><td>Comma separated string of tags. Matches blocks which have at least the set of tag specified by this parameter</td></tr><tr><td>tagsMode</td><td>STRING</td><td>"strict", "exclude", "intersection", or "union".</td><td>Denotes how the "tags" parameter is handled: "strict" - matches only blocks that have the exact set of tags of specified. "exclude" - matches only blocks which are note tagged with any of the blocks specified. "intersection" - matches any blocks which has all of the tags. "union" - matches all blocks which has any one of the tags. If not otherwise specified, tagsMode defaults to "intersection".</td></tr><tr><td>vlan</td><td>INTEGER</td><td>1023</td><td>VLAN designated to a given block</td></tr></table> *Additional or fewer "optional" parameters may be required in order to result in a successful assignment, depending on the attributes of available blocks.				Name	Type	Example	Description	assignedResourceId	STRING	"123" or "ignore"	The ID of the resource the block is assigned to, or the string "ignore". If assignedResourceId is set to "ignore", then a matching IP block is selected from the Available pool or any sub-assignable block on any resource.	code	STRING	Code X	Arbitrary user-defined block code	lirId	INTEGER	101	The ID of an LIR resource	region	STRING	Ashburn	Region to assign from	tags	STRING	customer,vpn	Comma separated string of tags. Matches blocks which have at least the set of tag specified by this parameter	tagsMode	STRING	"strict", "exclude", "intersection", or "union".	Denotes how the "tags" parameter is handled: "strict" - matches only blocks that have the exact set of tags of specified. "exclude" - matches only blocks which are note tagged with any of the blocks specified. "intersection" - matches any blocks which has all of the tags. "union" - matches all blocks which has any one of the tags. If not otherwise specified, tagsMode defaults to "intersection".	vlan	INTEGER	1023	VLAN designated to a given block
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vlan	INTEGER	1023	VLAN designated to a given block																																	
Example URL	/api/v1/api.php?target=ipam&action=smartAssign&mask=24&type=IPv4&resourceId=250&rir=ARIN																																			

Direct Assign

URL	/api/v1/api.php?target=ipam&action=directAssign																																		
Description	Assigns a block to an Resource Holder																																		
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td>SINGLE BLOCK</td><td>{ "success":1, "message":"Assigned 192.168.0.0/24 to Resource (1234)", "id":12345, "data":{ "id":12345, "cidr":"192.168.0.0/24", ...} }</td></tr><tr><td>SUCCESSFUL</td><td>MULTIPLE BLOCKS</td><td>{ "success":1, "message":"Assigned 5 blocks to Resource (1234) via Direct Assign", "data":{"ids":[12345, 12346, 12347, ...] } }</td></tr><tr><td>ERROR</td><td></td><td>{ "success":0, "message":"error message" }</td></tr></table>			SUCCESSFUL	SINGLE BLOCK	{ "success":1, "message":"Assigned 192.168.0.0/24 to Resource (1234)", "id":12345, "data":{ "id":12345, "cidr":"192.168.0.0/24", ...} }	SUCCESSFUL	MULTIPLE BLOCKS	{ "success":1, "message":"Assigned 5 blocks to Resource (1234) via Direct Assign", "data":{"ids":[12345, 12346, 12347, ...] } }	ERROR		{ "success":0, "message":"error message" }																							
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Optional Parameters*	Name	Type	Example	Description
	code	STRING	Code X	Arbitrary user-defined block code
	lirId	INTEGER	101	The ID of an LIR resource
	region	STRING	Ashburn	Region to assign from
	rir	STRING	ARIN	Acceptable values: ARIN, RIPE, APNIC, AfriNIC, LACNIC, 1918
	tags	STRING	customer,vpn	Comma separated string of tags. Matches blocks which have at least the set of tag specified by this parameter
	tagsMode	STRING	"strict", "exclude", "intersection", or "union".	Denotes how the "tags" parameter is handled: "strict" - matches only blocks that have the exact set of tags of specified. "exclude" - matches only blocks which are not tagged with any of the blocks specified. "intersection" - matches any blocks which has all of the tags. "union" - matches all blocks which has any one of the tags. If not otherwise specified, tagsMode defaults to "intersection".
	vlan	INTEGER	1023	VLAN designated to a given block
*Additional or fewer "optional" parameters may be required in order to result in a successful assignment, depending on the attributes of available blocks.				
Example URL	/api/v1/api.php?target=ipam&action=directAssign&block=213.37.29.0/24&resourceId=1234			

Unassign

URL	/api/v1/api.php?target=ipam&action=unassign															
Description	Reclaims the specified block to be reassigned in the future															
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1, "message": "192.168.0.0/24 unassigned", "id":12345, "data":{ "id":12345, "cidr":192.168.0.0/24", ...} }</td></tr><tr><td>ERROR</td><td colspan="3">{ "success":0, "message": "error message" }</td></tr></table>				SUCCESSFUL	{ "success":1, "message": "192.168.0.0/24 unassigned", "id":12345, "data":{ "id":12345, "cidr":192.168.0.0/24", ...} }			ERROR	{ "success":0, "message": "error message" }						
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Example URL	/api/v1/api.php?target=ipam&action=unassign&block=213.37.29.0/24															

Aggregate

URL	/api/v1/api.php?target=ipam&action=aggregate																			
Description	Aggregates a selected block to the mask specified. If no mask specified, re-aggregates blocks to next parent. IE. calling aggregate on a /25 will aggregate both children back to the parent /24. All child blocks must be Available for aggregation to succeed.																			
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1, "message":"10.2.0.128\25 aggregated into 10.2.0.0\24", "id":16326}</td></tr><tr><td>ERROR</td><td colspan="3">{ 'success':0, 'message':'error message' }</td></tr></table>				SUCCESSFUL	{ "success":1, "message":"10.2.0.128\25 aggregated into 10.2.0.0\24", "id":16326}			ERROR	{ 'success':0, 'message':'error message' }										
SUCCESSFUL	{ "success":1, "message":"10.2.0.128\25 aggregated into 10.2.0.0\24", "id":16326}																			
ERROR	{ 'success':0, 'message':'error message' }																			
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Optional Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>autoAggregateToMask</td><td>INTEGER</td><td>24</td><td>All blocks and IPs smaller than this netmask will be aggregated.</td></tr><tr><td>ignoreAssignments</td><td>BOOL</td><td>TRUE</td><td>If the ignoreAssignment flag is not set the aggregation operation will fail if any children beneath the supplied autoAggregateToMask are assigned or otherwise unavailable. If this option is set, it will unassign blocks prior to reaggregation.</td></tr></table>				Name	Type	Example	Description	autoAggregateToMask	INTEGER	24	All blocks and IPs smaller than this netmask will be aggregated.	ignoreAssignments	BOOL	TRUE	If the ignoreAssignment flag is not set the aggregation operation will fail if any children beneath the supplied autoAggregateToMask are assigned or otherwise unavailable. If this option is set, it will unassign blocks prior to reaggregation.				
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Example URL	/api/v1/api.php?target=ipam&action=aggregate&id=125&autoAggregateToMask=24																			

Split

URL	/api/v1/api.php?target=ipam&action=split																		
Description	Splits a selected block to the mask specified. If no mask specified, it split blocks to next child. IE. calling aggregate on a /24 will split both parent to the child /25s. All parent blocks must be Available, or have Allow Sub Assignments on for a split to succeed.																		
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1, "message":"10.1.0.0\24 split into 10.1.0.0\25 and 10.1.0.128\25", "data":{"child1":23441 , "child2":23451}}</td></tr><tr><td>ERROR</td><td colspan="3">{ 'success':0, 'message':'error message' }</td></tr></table>			SUCCESSFUL	{ "success":1, "message":"10.1.0.0\24 split into 10.1.0.0\25 and 10.1.0.128\25", "data":{"child1":23441 , "child2":23451}}			ERROR	{ 'success':0, 'message':'error message' }										
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id*	INTEGER	125	ID of the IP block.																
block*	STRING	213.37.29.0/24	CIDR block.																
*Either block or id can be used, but only one must be provided																			

Optional Parameters	Name	Type	Example	Description
	autoSplitToMask	INTEGER	24	Auto aggregate the block back to this mask size. Note all blocks up this mask size must be Available or call will fail.
	autoSplitLimit	INTEGER	4	A number the power of 2 (^2).
Example URL	/api/v1/api.php?target=ipam&action=split&block=213.37.29.0/24&autoSplitLimit=4			

Scan Block

URL	/api/v1/api.php?target=ipam&action=scanBlock														
Description	Initiates an asynchronous ping (ICMP) scan of the target block specified. Results of the scan can be checked with get.														
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1, "message":"Ping scan started for 8.8.8.0\ /27" }</td></tr><tr><td>ERROR</td><td colspan="3">{ 'success':0, 'message':'error message' }</td></tr></table>			SUCCESSFUL	{ "success":1, "message":"Ping scan started for 8.8.8.0\ /27" }			ERROR	{ 'success':0, 'message':'error message' }						
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Name	Type	Example	Description												
id*	INTEGER	125	ID of the IP block.												
block*	STRING	213.37.29.0/24	CIDR block.												
Optional Parameters	None														
Example	/api/v1/api.php?target=ipam&action=scanBlock&block=213.37.29.0/24														

Get Scan Results

URL	/api/v1/api.php?target=ipam&action=getScanResults											
Description	Initiates an asynchronous ping (ICMP) scan of the target block specified. Results of the scan can be checked with get											
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1, "data":{ "block":"8.8.8.0\27", "date":"07\14\2014 11:07:10", "data": [{ "address": "8.8.8.8", "host": "google-public-dns-a.google.com", "status": "Up" }], "status": "completed", "hostsScanned":4, "activeHosts":4 }</td></tr><tr><td>ERROR</td><td colspan="3">{ 'success':0, 'message': 'error message' }</td></tr></table>				SUCCESSFUL	{ "success":1, "data":{ "block":"8.8.8.0\27", "date":"07\14\2014 11:07:10", "data": [{ "address": "8.8.8.8", "host": "google-public-dns-a.google.com", "status": "Up" }], "status": "completed", "hostsScanned":4, "activeHosts":4 }			ERROR	{ 'success':0, 'message': 'error message' }		
SUCCESSFUL	{ "success":1, "data":{ "block":"8.8.8.0\27", "date":"07\14\2014 11:07:10", "data": [{ "address": "8.8.8.8", "host": "google-public-dns-a.google.com", "status": "Up" }], "status": "completed", "hostsScanned":4, "activeHosts":4 }											
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Name	Type	Example	Description									
block	STRING	213.37.29.0/24	CIDR block.									
Optional Parameters	None											
Example	/api/v1/api.php?target=ipam&action=getScanResults&block=213.37.29.0/24											

Get Options

URL	/api/v1/api.php?target=ipam&action=getOptions											
Description	Returns a list of options available for the block											
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1,"message":"Options for 14.0.0.0V25 (125)","options":{"actions":["aggregate"],"templates":[{"name":"Auto Split","masks":[26,27,28,29,30,31,32]}]}}</td></tr><tr><td>ERROR</td><td colspan="3">{ 'success':0, 'message':'error message' }</td></tr></table>				SUCCESSFUL	{ "success":1,"message":"Options for 14.0.0.0V25 (125)","options":{"actions":["aggregate"],"templates":[{"name":"Auto Split","masks":[26,27,28,29,30,31,32]}]}}			ERROR	{ 'success':0, 'message':'error message' }		
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ERROR	{ 'success':0, 'message':'error message' }											
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Name	Type	Example	Description									
id	INTEGER	125	ID of the IP block									
Optional Parameters	None											
Example URL	/api/v1/api.php?target=ipam&action=getOptions&id=125											

Get VLAN

URL	/api/v1/api.php?target=ipam&action=getVlan																			
Description	Returns the VLAN for the block																			
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{"success":1,"message":"Found VLAN 1002 (14.0.0.0V25)","data":{"id":125,"type":"ipv4","top_aggregate":81532,"cidr":"14.0.0.0V25","formatted_ip":"14.0.0.0V25","address":"234881024","end_address":"234881151","mask":25,"netmask":"255.255.255.128","child1":null,"child2":null,"is_assigned":0,"is_swipped":0,"is_aggregate":1,"custid":402,"resource_id":402,"resource_name":"6connect Labz","last_updated_time":"2015-01-22 12:30:37","description":null,"parent":81532,"rir":"ARIN","lir_id":"1062","notes":"Test Notes","generic_code":"Datacenter2","code":"Datacenter2","region":"ATL","region_name":"Atlanta, GA","vlan":1002,"arin_net_id":null,"arin_cust_id":null,"org_id":null,"arin_swip_time":null,"assigned_time":"2015-01-14 10:30:31","asn":"143","allowSubAssignments":true,"permissions":{"permissionIPAMRead":"1","permissionIPAMUpdate":"1","permissionIPAMCreate":"1","permissionIPAMDelete":"1","permissionSWIP":"1","permissionAdmin":"1"},"range":"14.0.0.0 - 14.0.0.127","tags":["Customer"]}}}</td></tr><tr><td>ERROR</td><td colspan="3">{"success":0,"message":"error message"}}</td></tr></table>				SUCCESSFUL	{ "success":1,"message":"Found VLAN 1002 (14.0.0.0V25)","data":{"id":125,"type":"ipv4","top_aggregate":81532,"cidr":"14.0.0.0V25","formatted_ip":"14.0.0.0V25","address":"234881024","end_address":"234881151","mask":25,"netmask":"255.255.255.128","child1":null,"child2":null,"is_assigned":0,"is_swipped":0,"is_aggregate":1,"custid":402,"resource_id":402,"resource_name":"6connect Labz","last_updated_time":"2015-01-22 12:30:37","description":null,"parent":81532,"rir":"ARIN","lir_id":"1062","notes":"Test Notes","generic_code":"Datacenter2","code":"Datacenter2","region":"ATL","region_name":"Atlanta, GA","vlan":1002,"arin_net_id":null,"arin_cust_id":null,"org_id":null,"arin_swip_time":null,"assigned_time":"2015-01-14 10:30:31","asn":"143","allowSubAssignments":true,"permissions":{"permissionIPAMRead":"1","permissionIPAMUpdate":"1","permissionIPAMCreate":"1","permissionIPAMDelete":"1","permissionSWIP":"1","permissionAdmin":"1"},"range":"14.0.0.0 - 14.0.0.127","tags":["Customer"]}} }			ERROR	{ "success":0,"message":"error message"} }										
SUCCESSFUL	{ "success":1,"message":"Found VLAN 1002 (14.0.0.0V25)","data":{"id":125,"type":"ipv4","top_aggregate":81532,"cidr":"14.0.0.0V25","formatted_ip":"14.0.0.0V25","address":"234881024","end_address":"234881151","mask":25,"netmask":"255.255.255.128","child1":null,"child2":null,"is_assigned":0,"is_swipped":0,"is_aggregate":1,"custid":402,"resource_id":402,"resource_name":"6connect Labz","last_updated_time":"2015-01-22 12:30:37","description":null,"parent":81532,"rir":"ARIN","lir_id":"1062","notes":"Test Notes","generic_code":"Datacenter2","code":"Datacenter2","region":"ATL","region_name":"Atlanta, GA","vlan":1002,"arin_net_id":null,"arin_cust_id":null,"org_id":null,"arin_swip_time":null,"assigned_time":"2015-01-14 10:30:31","asn":"143","allowSubAssignments":true,"permissions":{"permissionIPAMRead":"1","permissionIPAMUpdate":"1","permissionIPAMCreate":"1","permissionIPAMDelete":"1","permissionSWIP":"1","permissionAdmin":"1"},"range":"14.0.0.0 - 14.0.0.127","tags":["Customer"]}} }																			
ERROR	{ "success":0,"message":"error message"} }																			
Required Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>id*</td><td>INTEGER</td><td>125</td><td>ID of the IP block</td></tr><tr><td>block*</td><td>STRING</td><td>213.37.29.0/24</td><td>CIDR block.</td></tr><tr><td colspan="4">*Either block or id can be used, but only one must be provided</td></tr></table>				Name	Type	Example	Description	id*	INTEGER	125	ID of the IP block	block*	STRING	213.37.29.0/24	CIDR block.	*Either block or id can be used, but only one must be provided			
Name	Type	Example	Description																	
id*	INTEGER	125	ID of the IP block																	
block*	STRING	213.37.29.0/24	CIDR block.																	
*Either block or id can be used, but only one must be provided																				
Optional Parameters	None																			
Example URL	/api/v1/api.php?target=ipam&action=getVlan&id=125																			

Get Resource Hierarchy

URL	/api/v1/api.php?target=ipam&action=getResourceHierarchy&id=79124
Description	Returns the Parent Resource and Parent Resource id for the provided block.

Returns	Examples: <table><tr><td>SUCCESSFUL</td><td><code>{"success":"1","data":[{"id":"4208","name":"a6connectEntry"}]}</code></td></tr><tr><td>ERROR</td><td><code>{'success':0, 'message':'error message'}</code></td></tr></table>	SUCCESSFUL	<code>{"success":"1","data":[{"id":"4208","name":"a6connectEntry"}]}</code>	ERROR	<code>{'success':0, 'message':'error message'}</code>				
SUCCESSFUL	<code>{"success":"1","data":[{"id":"4208","name":"a6connectEntry"}]}</code>								
ERROR	<code>{'success':0, 'message':'error message'}</code>								
Required Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>id</td><td>INTEGER</td><td>125</td><td>ID of the IP block</td></tr></table>	Name	Type	Example	Description	id	INTEGER	125	ID of the IP block
Name	Type	Example	Description						
id	INTEGER	125	ID of the IP block						
Optional Parameters	None								
Example URL	/api/v1/api.php?target=ipam&action=getResourceHierarchy&id=79124								

IP Subnets List

Get Subnet List

URL	/api/v1/api.php?target=ipam&action=getSizes											
Description	Returns the IPv4 or IPv6 Subnet Lists											
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3"><code>{"success":1,"message":"Lookup was successful","data":["36","48","56","64","126","127","128"]}</code></td></tr><tr><td>ERROR</td><td colspan="3"><code>{'success':0, 'message':'error message'}</code></td></tr></table>				SUCCESSFUL	<code>{"success":1,"message":"Lookup was successful","data":["36","48","56","64","126","127","128"]}</code>			ERROR	<code>{'success':0, 'message':'error message'}</code>		
SUCCESSFUL	<code>{"success":1,"message":"Lookup was successful","data":["36","48","56","64","126","127","128"]}</code>											
ERROR	<code>{'success':0, 'message':'error message'}</code>											
Required Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>size</td><td>INTEGER</td><td>"4" or "6"</td><td>The IP Subnet list to return - "4" for IPv4 subnets, or "6" for IPv6 subnets.</td></tr></table>				Name	Type	Example	Description	size	INTEGER	"4" or "6"	The IP Subnet list to return - "4" for IPv4 subnets, or "6" for IPv6 subnets.
Name	Type	Example	Description									
size	INTEGER	"4" or "6"	The IP Subnet list to return - "4" for IPv4 subnets, or "6" for IPv6 subnets.									
Optional Parameters	None											
Example URL	/api/v1/api.php?target=ipam&action=getSizes&size=6											

IP Tag List

Get Tags List					
URL	/api/v1/api.php?target=ipam&action=getTagList				
Description	Returns a list of all valid IP Tags in the database.				
Returns	Examples: <table> <tr> <td>SUCCESSFUL</td><td><code>{"success":1,"message":"Tags Retrieved. ","data":["ActiveE DIA","Colo DIA","Customer","DSL","Fiber DIA","GPON DIA","Infra","Inhouse","LAN","LBIntP","POP","PTP","Prod","VPN","WEBHOST","Cable","Internal"]}</code></td></tr> <tr> <td>ERROR</td><td><code>{'success':0, 'message':'error message'}</code></td></tr> </table>	SUCCESSFUL	<code>{"success":1,"message":"Tags Retrieved. ","data":["ActiveE DIA","Colo DIA","Customer","DSL","Fiber DIA","GPON DIA","Infra","Inhouse","LAN","LBIntP","POP","PTP","Prod","VPN","WEBHOST","Cable","Internal"]}</code>	ERROR	<code>{'success':0, 'message':'error message'}</code>
SUCCESSFUL	<code>{"success":1,"message":"Tags Retrieved. ","data":["ActiveE DIA","Colo DIA","Customer","DSL","Fiber DIA","GPON DIA","Infra","Inhouse","LAN","LBIntP","POP","PTP","Prod","VPN","WEBHOST","Cable","Internal"]}</code>				
ERROR	<code>{'success':0, 'message':'error message'}</code>				

Add Tag To List

URL	/api/v1/api.php?target=ipam&action=addTagToList
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Description	Adds a tag to the IPAM tag list										
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{<i>"success":1,"message":"Tag Added."</i>}</td></tr><tr><td>ERROR</td><td colspan="3">{<i>'success':0, 'message':'error message'</i>}</td></tr></table>			SUCCESSFUL	{ <i>"success":1,"message":"Tag Added."</i> }			ERROR	{ <i>'success':0, 'message':'error message'</i> }		
SUCCESSFUL	{ <i>"success":1,"message":"Tag Added."</i> }										
ERROR	{ <i>'success':0, 'message':'error message'</i> }										
Required Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>newTag</td><td>STRING</td><td>Loopback C</td><td>The value to add to the list of name/value pairs which make up the list of available regions</td></tr></table>			Name	Type	Example	Description	newTag	STRING	Loopback C	The value to add to the list of name/value pairs which make up the list of available regions
Name	Type	Example	Description								
newTag	STRING	Loopback C	The value to add to the list of name/value pairs which make up the list of available regions								
Optional Parameters	None										
Example URL	/api/v1/api.php?target=ipam&action=addTagToList&newTag=Loopback C										

Delete Tag From List

URL	/api/v1/api.php?target=ipam&action=deleteTagFromList											
Description	Deletes a tag from the IPAM tag list											
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{<i>"success":1,"message":"Tag Deleted."</i>}</td></tr><tr><td>ERROR</td><td colspan="3">{<i>'success':0, 'message':'error message'</i>}</td></tr></table>				SUCCESSFUL	{ <i>"success":1,"message":"Tag Deleted."</i> }			ERROR	{ <i>'success':0, 'message':'error message'</i> }		
SUCCESSFUL	{ <i>"success":1,"message":"Tag Deleted."</i> }											
ERROR	{ <i>'success':0, 'message':'error message'</i> }											
Required Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>tag</td><td>STRING</td><td>tag123</td><td>The name of the tag to be deleted.</td></tr></table>				Name	Type	Example	Description	tag	STRING	tag123	The name of the tag to be deleted.
Name	Type	Example	Description									
tag	STRING	tag123	The name of the tag to be deleted.									
Optional Parameters	None											
Example URL	/api/v1/api.php?target=ipam&action=deleteTagFromList&tag=tag123											

IP Regions List

Get Regions List

URL	/api/v1/api.php?target=ipam&action=getRegionList								
Description	Returns a list of all valid Regions in the database.								
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td><pre>{ "success":1, "message": "Regions Retrieved.", "data": [{ "value": "ANY", "name": "Any Region" }, { "value": "ASH1", "name": "Ashburn, VA" }, { "value": "BOS", "name": "Boston, MA" }, { "value": "CHI", "name": "Chicago, IL" }, { "value": "DAL", "name": "Dallas, TX" }, { "value": "DEN", "name": "Denver, CO" }, { "value": "FRKT", "name": "Frankfurt, DE" }, { "value": "LON1", "name": "London, UK" }, { "value": "MIA", "name": "Miami, FL" }, { "value": "PAR", "name": "Paris, FR" }, { "value": "SFO", "name": "San Francisco, CA" }, { "value": "SEA", "name": "Seattle, WA" }, { "value": "Tokyo", "name": "Tokyo" }, { "value": "Singapore", "name": "Singapore" }, { "value": "Jakarta", "name": "Jakarta" }] }</pre></td></tr><tr><td>ERROR</td><td colspan="3"><pre>{ "success":0, "message": "error message" }</pre></td></tr></table>			SUCCESSFUL	<pre>{ "success":1, "message": "Regions Retrieved.", "data": [{ "value": "ANY", "name": "Any Region" }, { "value": "ASH1", "name": "Ashburn, VA" }, { "value": "BOS", "name": "Boston, MA" }, { "value": "CHI", "name": "Chicago, IL" }, { "value": "DAL", "name": "Dallas, TX" }, { "value": "DEN", "name": "Denver, CO" }, { "value": "FRKT", "name": "Frankfurt, DE" }, { "value": "LON1", "name": "London, UK" }, { "value": "MIA", "name": "Miami, FL" }, { "value": "PAR", "name": "Paris, FR" }, { "value": "SFO", "name": "San Francisco, CA" }, { "value": "SEA", "name": "Seattle, WA" }, { "value": "Tokyo", "name": "Tokyo" }, { "value": "Singapore", "name": "Singapore" }, { "value": "Jakarta", "name": "Jakarta" }] }</pre>	ERROR	<pre>{ "success":0, "message": "error message" }</pre>		
SUCCESSFUL	<pre>{ "success":1, "message": "Regions Retrieved.", "data": [{ "value": "ANY", "name": "Any Region" }, { "value": "ASH1", "name": "Ashburn, VA" }, { "value": "BOS", "name": "Boston, MA" }, { "value": "CHI", "name": "Chicago, IL" }, { "value": "DAL", "name": "Dallas, TX" }, { "value": "DEN", "name": "Denver, CO" }, { "value": "FRKT", "name": "Frankfurt, DE" }, { "value": "LON1", "name": "London, UK" }, { "value": "MIA", "name": "Miami, FL" }, { "value": "PAR", "name": "Paris, FR" }, { "value": "SFO", "name": "San Francisco, CA" }, { "value": "SEA", "name": "Seattle, WA" }, { "value": "Tokyo", "name": "Tokyo" }, { "value": "Singapore", "name": "Singapore" }, { "value": "Jakarta", "name": "Jakarta" }] }</pre>								
ERROR	<pre>{ "success":0, "message": "error message" }</pre>								

Add Region To List

URL	/api/v1/api.php?target=ipam&action=addRegionToList											
Description	Adds a region to the IPAM region list.											
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{<i>"success":1, "message":"Region Added."</i>}</td></tr><tr><td>ERROR</td><td colspan="3">{<i>'success':0, 'message':'error message'</i>}</td></tr></table>				SUCCESSFUL	{ <i>"success":1, "message":"Region Added."</i> }			ERROR	{ <i>'success':0, 'message':'error message'</i> }		
SUCCESSFUL	{ <i>"success":1, "message":"Region Added."</i> }											
ERROR	{ <i>'success':0, 'message':'error message'</i> }											
Required Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>newRegion</td><td>STRING</td><td>SFO</td><td>The value to add to the list of name/value pairs which make up the list of available regions</td></tr></table>				Name	Type	Example	Description	newRegion	STRING	SFO	The value to add to the list of name/value pairs which make up the list of available regions
Name	Type	Example	Description									
newRegion	STRING	SFO	The value to add to the list of name/value pairs which make up the list of available regions									
Optional Parameters	None											
Example URL	/api/v1/api.php?target=ipam&action=addRegionToList&newRegion=SFO											

Utilization

Get Utilization

URL	/api/v1/api.php?target=ipam&action=utilization
Description	Gets the utilization percentages for a specific ip block or ip block and mask combination.

Returns

Examples:

SUCCESSFUL	<pre>{ "success": 1, "totalBlocks": 1, "totalHosts": "256", "hostsAssigned": 0, "hostsAllocated": "256", "hostsAvailable": "256", "hostsInHolding": 0, "availablePercentage": "100.00", "assignedPercentage": "0.00", "allocatedPercentage": "100.00", "inHoldingPercentage": "0.00", "resources": [{ "id": 351, "name": "Customer 1", "type": "entry", "hosts": "256", "blocks": "1", "percentage": "100.00" }], "blocksAssigned": 0, "blocksAllocated": 1, "blocksAvailable": "1", "blocksInHolding": null, "blocksAssignedPercentage": "0.00", "blocksAllocatedPercentage": "100.00", "blocksAvailablePercentage": "100.00", "blocksInHoldingPercentage": "0.00" }</pre>
ERROR	<pre>{'success':0, 'message':'error message'}</pre>

Required Parameters

Name	Type	Example	Description
block*	STRING	213.37.29.0/24	CIDR block description
id*	INTEGER	125	ID of the IP block
*Either block or id can be used, but only one must be provided			

Optional Parameters				
	Name	Type	Example	Description
	mask	INTEGER	24	The specific mask size to retrieve utilization for. If using this parameter, the id parameter should be the id of the aggregate.
Example URL	/api/v1/api.php?target=ipam&action=utilization&id=125			

Get Host Utilization

URL	/api/v1/api.php?target=ipam&action=getHostUtilization											
Description	Gets the host utilization statistics with support for filters.											
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success": 1, "totalHosts": "256", "hostsAssigned": 0, "hostsAllocated": "256", "hostsAvailable": "256", "hostsInHolding": 0, "availablePercentage": "100.00", "assignedPercentage": "0.00", "allocatedPercentage": "100.00", "inHoldingPercentage": "0.00", "resources": [{ "id": 351, "name": "Customer 1", "type": "entry", "hosts": "256", "blocks": "1", "percentage": "100.00" }] }</td></tr><tr><td>ERROR</td><td colspan="3">{'success':0, 'message':'error message'}</td></tr></table>				SUCCESSFUL	{ "success": 1, "totalHosts": "256", "hostsAssigned": 0, "hostsAllocated": "256", "hostsAvailable": "256", "hostsInHolding": 0, "availablePercentage": "100.00", "assignedPercentage": "0.00", "allocatedPercentage": "100.00", "inHoldingPercentage": "0.00", "resources": [{ "id": 351, "name": "Customer 1", "type": "entry", "hosts": "256", "blocks": "1", "percentage": "100.00" }] }			ERROR	{'success':0, 'message':'error message'}		
SUCCESSFUL	{ "success": 1, "totalHosts": "256", "hostsAssigned": 0, "hostsAllocated": "256", "hostsAvailable": "256", "hostsInHolding": 0, "availablePercentage": "100.00", "assignedPercentage": "0.00", "allocatedPercentage": "100.00", "inHoldingPercentage": "0.00", "resources": [{ "id": 351, "name": "Customer 1", "type": "entry", "hosts": "256", "blocks": "1", "percentage": "100.00" }] }											
ERROR	{'success':0, 'message':'error message'}											
Required Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>type</td><td>STRING</td><td>"ipv4" or "ipv6"</td><td>IP type</td></tr></table>				Name	Type	Example	Description	type	STRING	"ipv4" or "ipv6"	IP type
Name	Type	Example	Description									
type	STRING	"ipv4" or "ipv6"	IP type									

Optional Parameters	Name	Type	Example	Multiple Values	Description
	code	STRING	"code-1"	Yes	User-defined block code as defined in Admin-IPAM settings: Generic Code Per Block Name
	region	STRING	"SFO"	Yes	Region to assign from
	rir	STRING	ARIN	No	Acceptable values: ARIN, RIPE, APNIC, AfriNIC, LACNIC, 1918
	tags	STRING	"Customer"	Yes	Comma separated string of tags
	vlan	INTEGER	1000	Yes	VLAN designated to a given block
	NOTE: to filter using multiple values, pass the values as a JSON-encoded string representation of an array. For example, to get utilization data for multiple tags, you could use the following URL: <pre>/api/v1/api.php?target=ipam&action=getHostUtilization&type=ipv4&tags=["Customer","PTP"]</pre>				
Example URL	<pre>/api/v1/api.php?target=ipam&action=getHostUtilization&type=ipv4&tags=["Customer","PTP"]&region=SMF</pre>				

Holding Tank

Override Holding

URL	/api/v1/api.php?target=ipam&action=processHoldingTank														
Description	Overrides holding for a specific block, returning the block to available status														
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{<i>"success":1,"message":"15.15.15.128V30 unassigned and returned to resource a6connectEntry","id":79134,"data":{"id":79134,"type":"ipv4","top_aggregate":79121,"cidr":"15.15.15.128V30","formatted_ip":"15.15.15.128/30","address":"252645248","end_address":"252645251","mask":30,"netmask":"255.255.255.252","child1":null,"child2":null,"is_assigned":0,"is_swipped":0,"is_aggregate":1,"custid":4208,"resource_id":4208,"resource_name":"a6connectEntry","last_updated_time":"2017-11-20 12:35:08","description":null,"parent":79132,"rir":"ARIN","lir_id":null,"notes":null,"generic_code":null,"code":null,"region":"STL","region_name":"St. Louis","vlan":null,"arin_net_id":null,"arin_cust_id":null,"org_id":null,"arin_swip_time":null,"assigned_time":"2017-11-20 12:35:08","asn":null,"allowSubAssignments":true,"permissions":{"permissionIPAMRead":"1","permissionIPAMUpdate":"1","permissionIPAMCreate":"1","permissionIPAMDelete":"1","permissionSWIP":"1","permissionAdmin":"1"},"range":"15.15.15.128 - 15.15.15.131","tags":[],"attributes":{"custody_chain":[]}}}</i>}</td></tr><tr><td>ERROR</td><td colspan="3">{<i>"success":0,"message":"error message"}</i>}</td></tr></table>			SUCCESSFUL	{ <i>"success":1,"message":"15.15.15.128V30 unassigned and returned to resource a6connectEntry","id":79134,"data":{"id":79134,"type":"ipv4","top_aggregate":79121,"cidr":"15.15.15.128V30","formatted_ip":"15.15.15.128/30","address":"252645248","end_address":"252645251","mask":30,"netmask":"255.255.255.252","child1":null,"child2":null,"is_assigned":0,"is_swipped":0,"is_aggregate":1,"custid":4208,"resource_id":4208,"resource_name":"a6connectEntry","last_updated_time":"2017-11-20 12:35:08","description":null,"parent":79132,"rir":"ARIN","lir_id":null,"notes":null,"generic_code":null,"code":null,"region":"STL","region_name":"St. Louis","vlan":null,"arin_net_id":null,"arin_cust_id":null,"org_id":null,"arin_swip_time":null,"assigned_time":"2017-11-20 12:35:08","asn":null,"allowSubAssignments":true,"permissions":{"permissionIPAMRead":"1","permissionIPAMUpdate":"1","permissionIPAMCreate":"1","permissionIPAMDelete":"1","permissionSWIP":"1","permissionAdmin":"1"},"range":"15.15.15.128 - 15.15.15.131","tags":[],"attributes":{"custody_chain":[]}}}</i> }			ERROR	{ <i>"success":0,"message":"error message"}</i> }						
SUCCESSFUL	{ <i>"success":1,"message":"15.15.15.128V30 unassigned and returned to resource a6connectEntry","id":79134,"data":{"id":79134,"type":"ipv4","top_aggregate":79121,"cidr":"15.15.15.128V30","formatted_ip":"15.15.15.128/30","address":"252645248","end_address":"252645251","mask":30,"netmask":"255.255.255.252","child1":null,"child2":null,"is_assigned":0,"is_swipped":0,"is_aggregate":1,"custid":4208,"resource_id":4208,"resource_name":"a6connectEntry","last_updated_time":"2017-11-20 12:35:08","description":null,"parent":79132,"rir":"ARIN","lir_id":null,"notes":null,"generic_code":null,"code":null,"region":"STL","region_name":"St. Louis","vlan":null,"arin_net_id":null,"arin_cust_id":null,"org_id":null,"arin_swip_time":null,"assigned_time":"2017-11-20 12:35:08","asn":null,"allowSubAssignments":true,"permissions":{"permissionIPAMRead":"1","permissionIPAMUpdate":"1","permissionIPAMCreate":"1","permissionIPAMDelete":"1","permissionSWIP":"1","permissionAdmin":"1"},"range":"15.15.15.128 - 15.15.15.131","tags":[],"attributes":{"custody_chain":[]}}}</i> }														
ERROR	{ <i>"success":0,"message":"error message"}</i> }														
Required Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>block*</td><td>STRING</td><td>213.37.29.0/24</td><td>CIDR block description</td></tr><tr><td>id*</td><td>INTEGER</td><td>125</td><td>ID of the IP block</td></tr></table> *Either block or id can be used, but only one must be provided			Name	Type	Example	Description	block*	STRING	213.37.29.0/24	CIDR block description	id*	INTEGER	125	ID of the IP block
Name	Type	Example	Description												
block*	STRING	213.37.29.0/24	CIDR block description												
id*	INTEGER	125	ID of the IP block												
Optional Parameters	None.														
Example URL	/api/v1/api.php?target=ipam&action=overrideHolding&block=213.37.29.0/24&preview=true														

Process Holding Tank

URL	<pre>/api/v1/api.php?target=ipam&action=processHoldingTank</pre>
-----	--

Description	Processes the Holding Tank, returning held blocks to available status											
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1, "message": "1 IPv4 and 0 IPv6 blocks would be moved to the available pool. ", "data": { "id": 77712, "type": "ipv4", "top_aggregate": 77552, "cidr": "23.92.0.64V26", "formatted_ip": "23.92.0.64V26", "address": "391905344", "end_address": "391905407", "mask": 26, "netmask": "255.255.255.192", "child1": null, "child2": null, "is_assigned": 0, "is_swapped": 0, "is_aggregate": 1, "custid": 188, "resource_id": 188, "resource_name": "6connect holding", "last_updated_time": "2014-10-29 11:25:41", "description": null, "parent": 77682, "rir": "ARIN", "lir_id": "451", "notes": null, "generic_code": null, "code": null, "region": "PHX", "region_name": "Phoenix, AZ", "vlan": null, "arin_net_id": null, "arin_cust_id": null, "org_id": null, "arin_swip_time": null, "assigned_time": "2014-10-29 11:20:34", "asn": null, "allowSubAssignments": false, "permissions": { "permissionIPAMRead": "1", "permissionIPAMUpdate": "1", "permissionIPAMCreate": "1", "permissionIPAMDelete": "1", "permissionSWIP": "1", "permissionAdmin": "1"}, "range": "23.92.0.64 - 23.92.0.127", "tags": ["Customer", "DSL"] } }</td></tr><tr><td>ERROR</td><td colspan="3">{ "success":0, "message": "error message" }</td></tr></table>				SUCCESSFUL	{ "success":1, "message": "1 IPv4 and 0 IPv6 blocks would be moved to the available pool. ", "data": { "id": 77712, "type": "ipv4", "top_aggregate": 77552, "cidr": "23.92.0.64V26", "formatted_ip": "23.92.0.64V26", "address": "391905344", "end_address": "391905407", "mask": 26, "netmask": "255.255.255.192", "child1": null, "child2": null, "is_assigned": 0, "is_swapped": 0, "is_aggregate": 1, "custid": 188, "resource_id": 188, "resource_name": "6connect holding", "last_updated_time": "2014-10-29 11:25:41", "description": null, "parent": 77682, "rir": "ARIN", "lir_id": "451", "notes": null, "generic_code": null, "code": null, "region": "PHX", "region_name": "Phoenix, AZ", "vlan": null, "arin_net_id": null, "arin_cust_id": null, "org_id": null, "arin_swip_time": null, "assigned_time": "2014-10-29 11:20:34", "asn": null, "allowSubAssignments": false, "permissions": { "permissionIPAMRead": "1", "permissionIPAMUpdate": "1", "permissionIPAMCreate": "1", "permissionIPAMDelete": "1", "permissionSWIP": "1", "permissionAdmin": "1"}, "range": "23.92.0.64 - 23.92.0.127", "tags": ["Customer", "DSL"] } }			ERROR	{ "success":0, "message": "error message" }		
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ERROR	{ "success":0, "message": "error message" }											
Required Parameters	None											
Optional Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>preview</td><td>BOOL</td><td>true</td><td>Acceptable values: "true" or "false" If set to "true", returns a list of blocks that would be removed from the holding tank, but does not complete the process holding tank action. If set to "false", processes the holding tank and returns a list of blocks returned to available status.</td></tr></table>				Name	Type	Example	Description	preview	BOOL	true	Acceptable values: "true" or "false" If set to "true", returns a list of blocks that would be removed from the holding tank, but does not complete the process holding tank action. If set to "false", processes the holding tank and returns a list of blocks returned to available status.
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Example URL	/api/v1/api.php?target=ipam&action=processHoldingTank&preview=true											

Reports

Mask Report	
URL	/api/v1/api.php?target=ipam&action=maskReport
Description	Returns a JSON report breakdown of by-mask use statistics

Returns	Examples:																			
	SUCCESSFUL	{ "success":1, "data":{"IPv4":{"total":576, "available":21, "assigned":555, "holding":0, "allocated":446, "prefixes":{"32":{"assigned_percentage":91.666666, "holding_percentage":0, "available_percentage":8.333333, "allocated_percentage":0, "total":12, "available":1, "assigned":11, "holding":0, "allocated":0}, "31":{"assigned_percentage":100, "holding_percentage":0, "available_percentage":0, "allocated_percentage":30, "total":20, "available":0, "assigned":20, "holding":0, "allocated":6}, "30":{"assigned_percentage":50, "holding_percentage":0, "available_percentage":50, "allocated_percentage":0, "total":8, "available":4, "assigned":4, "holding":0, "allocated":0}, "29":{"assigned_percentage":100, "holding_percentage":0, "available_percentage":0, "allocated_percentage":20, "total":40, "available":0, "assigned":40, "holding":0, "allocated":8}, "28":{"assigned_percentage":66.666666, "holding_percentage":0, "available_percentage":33.333333, "allocated_percentage":33.333333, "total":48, "available":16, "assigned":32, "holding":0, "allocated":16}, "27":{"assigned_percentage":100, "holding_percentage":0, "available_percentage":0, "allocated_percentage":50, "total":64, "available":0, "assigned":64, "holding":0, "allocated":32}, "26":{"assigned_percentage":100, "holding_percentage":0, "available_percentage":0, "allocated_percentage":100, "total":128, "available":0, "assigned":128, "holding":0, "allocated":128}, "25":{"assigned_percentage":100, "holding_percentage":0, "available_percentage":0, "allocated_percentage":100, "total":256, "available":0, "assigned":256, "holding":0, "allocated":256}}, "assigned_percentage":96.354166, "holding_percentage":0, "available_percentage":3.645833, "allocated_percentage":77.430555}, "IPv6":{"total":16777216, "available":0, "assigned":16777216, "holding":0, "allocated":0, "prefixes":{"41":{"assigned_percentage":100, "holding_percentage":0, "available_percentage":0, "allocated_percentage":0, "total":16777216, "available":0, "assigned":16777216, "holding":0, "allocated":0}}}, "assigned_percentage":100, "holding_percentage":0, "available_percentage":0, "allocated_percentage":0}}}																		
	ERROR	{ "success":0, "message":"error message" }																		
Required Parameters	None																			
Optional Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>resource_id</td><td>INTEGER</td><td>1234</td><td>Integer value of a Resource ID. If provided, the system will display an IPAM Mask Usage report limited to blocks associated with a single resource.</td></tr><tr><td>tags</td><td>STRING</td><td>"Customer"</td><td>Comma separated list of tags. If provided, limits the IPAM Mask Usage report to certain tags (standard tag mode).</td></tr><tr><td>regions</td><td>STRING</td><td>"DEN"</td><td>Comma separated list of regions. If provided, limits the IPAM Mask Usage Report to blocks associated with the provided region(s).</td></tr></table>				Name	Type	Example	Description	resource_id	INTEGER	1234	Integer value of a Resource ID. If provided, the system will display an IPAM Mask Usage report limited to blocks associated with a single resource.	tags	STRING	"Customer"	Comma separated list of tags. If provided, limits the IPAM Mask Usage report to certain tags (standard tag mode).	regions	STRING	"DEN"	Comma separated list of regions. If provided, limits the IPAM Mask Usage Report to blocks associated with the provided region(s).
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Example URL	/api/v1/api.php?target=ipam&action=maskReport®ions=DEN																			

IPAM SWIP Calls:

Deassign					
URL	/api/v1/api.php?target=ipam&action=deassign				
Description	Performs a SWIP deassignment for the indicated IPAM block.				
Returns	Examples: <table> <tr> <td>SUCCESSFUL</td><td>{ "success":1, "message":"success message" }</td></tr> <tr> <td>ERROR</td><td>{ "success":0, "message":"error message" }</td></tr> </table>	SUCCESSFUL	{ "success":1, "message":"success message" }	ERROR	{ "success":0, "message":"error message" }
SUCCESSFUL	{ "success":1, "message":"success message" }				
ERROR	{ "success":0, "message":"error message" }				

Required Parameters	Name	Type	Example	Description
	blockId	INTEGER	1234	ID of the block to deassign
	block	STRING	67.221.241.0/24	the CIDR of the block being de-assigned
	resourceId	INTEGER	1234	ID of resource representing the customer to deassign
	lirId	INTEGER	1234	The ProVision id of the LIR which is performing the de-assignment
	entityHandle	STRING	CONNE-81	The Org ID for the LIR.
Optional Parameters	Name	Type	Example	Description
	netName	STRING	6CONN-67-221-241-0-24	Optional name for the network to override the default. The default net name will be created using the Net Name Prefix and IP address for the block.
Example URL	/api/v1/api.php?target=ipam&action=deassign&resourceId=1234&blockId=1234&lirId=1234&entityHandle=CONNE-81&block=67.221.241.0/24&netName=6CONN-67-221-241-0-24			

Get RIR List

URL	/api/v1/api.php?target=ipam&action=getRIRList				
Description	Returns a list of all valid RIRs in the database.				
Returns	Examples: <table> <tr> <td>SUCCESSFUL</td><td><code>{ "success":1, "message":"RIRs Retrieved.", "data":[{"value":"ARIN", "name":"ARIN"}, {"value":"1918", "name":"1918"}, {"value":"AfrINIC", "name":"AfrINIC"}, {"value":"APNIC", "name":"APNIC"}, {"value":"LACNIC", "name":"LACNIC"}, {"value":"RIPE", "name":"RIPE"}, {"value":"1918-SJC", "name":"1918-SJC"}]}</code></td></tr> <tr> <td>ERROR</td><td><code>{ 'success':0, 'message':'error message' }</code></td></tr> </table>	SUCCESSFUL	<code>{ "success":1, "message":"RIRs Retrieved.", "data":[{"value":"ARIN", "name":"ARIN"}, {"value":"1918", "name":"1918"}, {"value":"AfrINIC", "name":"AfrINIC"}, {"value":"APNIC", "name":"APNIC"}, {"value":"LACNIC", "name":"LACNIC"}, {"value":"RIPE", "name":"RIPE"}, {"value":"1918-SJC", "name":"1918-SJC"}]}</code>	ERROR	<code>{ 'success':0, 'message':'error message' }</code>
SUCCESSFUL	<code>{ "success":1, "message":"RIRs Retrieved.", "data":[{"value":"ARIN", "name":"ARIN"}, {"value":"1918", "name":"1918"}, {"value":"AfrINIC", "name":"AfrINIC"}, {"value":"APNIC", "name":"APNIC"}, {"value":"LACNIC", "name":"LACNIC"}, {"value":"RIPE", "name":"RIPE"}, {"value":"1918-SJC", "name":"1918-SJC"}]}</code>				
ERROR	<code>{ 'success':0, 'message':'error message' }</code>				

Simple Reassign

URL	/api/v1/api.php?target=ipam&action=simpleReassign																							
Description	ARIN SWIP - simple reassign. Creates an ARIN customer record for the assigned resource and reassigns the block to the ARIN customer record.																							
Returns	Examples: <table><tr><td>SUCCESSFUL</td><td colspan="3">{ "success":1, "message":"Sent ARIN SWIP with action simpleReassign for 67.221.244.0/28 for Acme, Message: Success" }</td></tr><tr><td>ERROR</td><td colspan="3">{ "success":0, "message":"error message" }</td></tr></table>				SUCCESSFUL	{ "success":1, "message":"Sent ARIN SWIP with action simpleReassign for 67.221.244.0/28 for Acme, Message: Success" }			ERROR	{ "success":0, "message":"error message" }														
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Required Parameters	<table><thead><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr></thead><tbody><tr><td>blockId</td><td>INTEGER</td><td>1234</td><td>ID of the block to reassign</td></tr><tr><td>resourceId</td><td>INTEGER</td><td>1234</td><td>ID of resource representing the customer to reassign to</td></tr><tr><td>lirId</td><td>INTEGER</td><td>1234</td><td>The ProVision id of the LIR to use for reassignment</td></tr><tr><td>entityHandle</td><td>STRING</td><td>CONNE-81</td><td>The Org ID for the LIR.</td></tr></tbody></table>				Name	Type	Example	Description	blockId	INTEGER	1234	ID of the block to reassign	resourceId	INTEGER	1234	ID of resource representing the customer to reassign to	lirId	INTEGER	1234	The ProVision id of the LIR to use for reassignment	entityHandle	STRING	CONNE-81	The Org ID for the LIR.
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resourceId	INTEGER	1234	ID of resource representing the customer to reassign to																					
lirId	INTEGER	1234	The ProVision id of the LIR to use for reassignment																					
entityHandle	STRING	CONNE-81	The Org ID for the LIR.																					

Optional Parameters	Name	Type	Example	Description
	netName	STRING	NET-ACME-67-221-244-0-28	Optional name for the network to override the default. The default net name will be created using the Net Name Prefix and IP address for the block.
Example URL	/api/v1/api.php?target=ipam&action=simpleReassign&resourceId=121&blockId=31559&lirId=95&entityHandle=CONNE-81&&netName=NET-ACME-67-221-244-0-28			

IPAM API Calls Subject to Change:

Calls below this point are subject to change, and are not recommended for use in production code.

Get Attribute List

URL	/api/v1/api.php?target=ipam&action=getAttributeLists										
Description	Returns a list of attributes										
Returns	Examples: SUCCESSFUL <pre>{ "asns": [], "masks": ["24"], "rirs": ["1918"], "lirs": [], "tags": ["DHCP"], "codes": [], "vlans": [], "regions": ["Quito"], "resources": [{"id": "1302", "name": "Quito Lab 1", "slug": "quito-lab-1", "type": "dhcp_pool", "parent_id": "1", "category_id": null, "attr": {"_dhcp_type": "subnet", "_dhcp_pool_attributes": {"mac": "\", \"rangeStart\": \"10.8.0.0\", \"rangeEnd\": \"10.8.0.255\", \"freeLines\": 0}, \"_dhcp_ip_id\": \"125\"}}]}</pre> ERROR <pre>{ 'success': 0, 'message': 'error message' }</pre>										
Required Parameters	<table><tr><th>Name</th><th>Type</th><th>Example</th><th>Description</th></tr><tr><td>id</td><td>INTEGER</td><td>125</td><td>ID of the IP block</td></tr></table>			Name	Type	Example	Description	id	INTEGER	125	ID of the IP block
Name	Type	Example	Description								
id	INTEGER	125	ID of the IP block								
Optional Parameters	None										
Example URL	/api/v1/api.php?target=ipam&action=getAttributeLists&id=125										