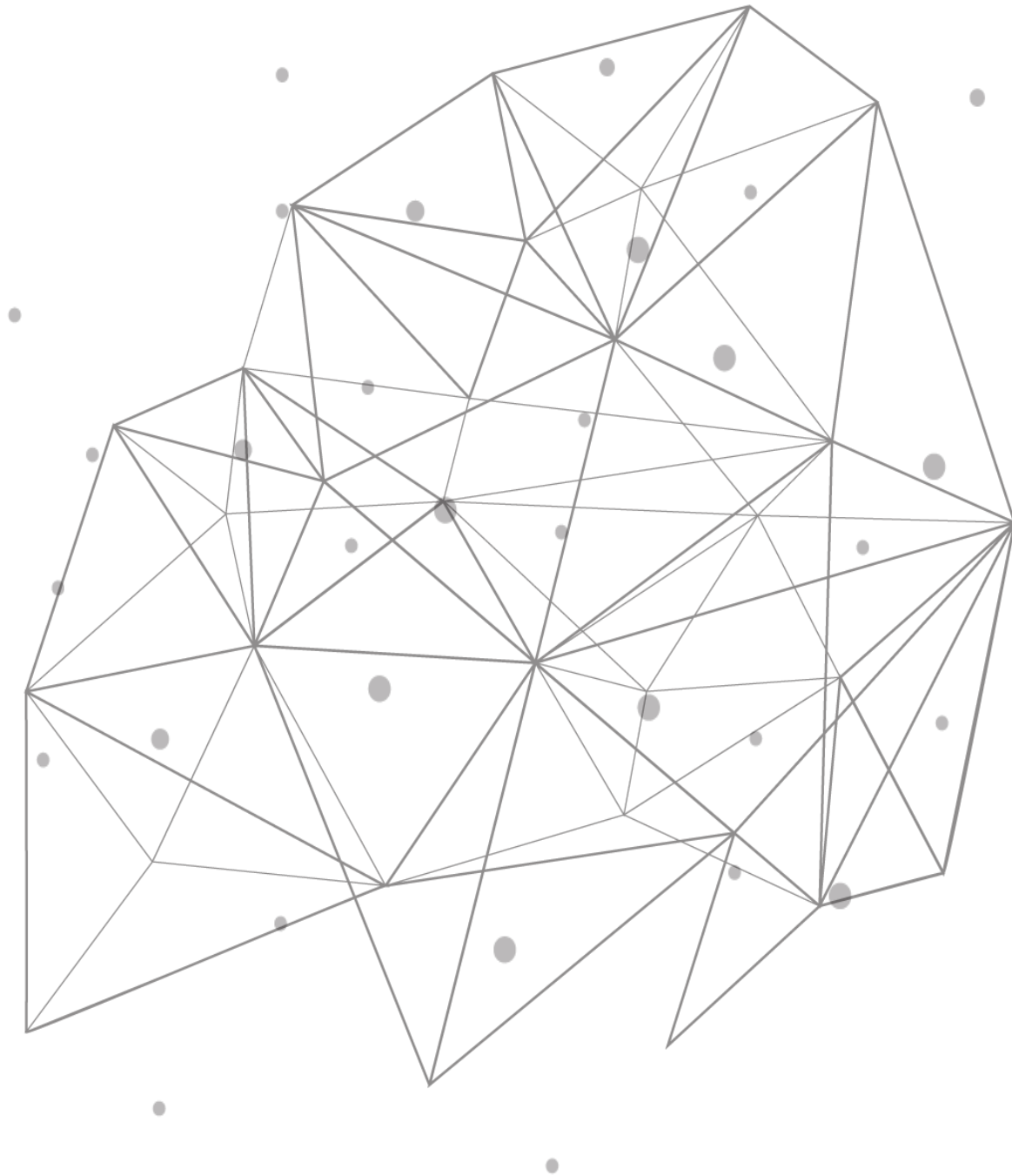

TCPWave IPAM

DDI Workflow Automation Using Curl Commands



Introduction

Automated DDI workflow management provides many benefits to large-scale organizations. It minimizes manual tasks, increases IT productivity, and the ability to focus on strategic opportunities that drive business growth. Automation standardizes network management processes to enforce best practices and rapidly deliver services at scale. This white paper provides insights into DDI workflow automation using curl commands.

What is Curl Command

Curl is a command-line tool that enables interaction with APIs by sending HTTP requests to a server and receiving responses. These requests are made using different HTTP methods like GET, POST, PUT, and DELETE, each of which has a different functionality, such as retrieving or creating/updating a resource on the server. The server responds in formats like JSON, XML, or plain text.

Curl Command Usage

The following section illustrates the basic functionality within the TCPWave IPAM application using curl commands. The basic functionality includes the following:

#	Name	#	Name	#	Name
1	Adding Organization	2	Adding Domain	3	Adding Zone
4	Adding Zone Level A Record	5	Zone A Record Traverse	6	Adding Zone CNAME Record
7	Zone CNAME Record Traverse	8	Adding Zone MX Record	9	Zone MX Record Traverse
10	Adding Zone SRV Record	11	Zone SRV Record Traverse	12	Adding Zone TXT Record
13	Zone TXT Record Traverse	14	Add a Network	15	Add a Subnet
16	Add an Object	17	Object Traverse	18	Object A Record
19	Object A Record Traverse	20	Adding Object CNAME Record	21	Object CNAME Traverse
22	Subnet Edit to DHCP-Enabled	23	Create a Scope	24	Delete a Scope
25	Delete Zone TXT Record	26	Delete Zone SRV Record	27	Delete Zone MX Record
28	Delete Zone CNAME Record	29	Delete Zone A Record	30	Delete Object CNAME Record
31	Delete an Object	32	Delete a Subnet	33	Delete a Network
34	Delete a Zone				

Adding Organization

Workflow	Adding Organization
Curl Command	<pre>"curl -k -X POST -H ""Content-Type: application/json"" -H 'TIMS-Session-Token: 84d55774-c562-4dcf-9646-ce7fed4dabfd' -d '{ ""name"": ""Internal"", ""enable_root_zone"": ""1"", ""description"": """" }' https://10.1.8.240:7443/tims/rest/organization/add"</pre>
Output	<pre>[root@qa-ipam240 curl]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: 84d55774-c562-4dcf-9646-ce7fed4dabfd' -d '{ "name": "Internal", "enable_root_zone": "1", "description": "" }' https://10.1.8.240:7443/tims/rest/organization/add</pre>
Tims.log line	<pre>2023-03-03 05:17:32.763 - Creating an organization Internal. 2023-03-03 05:17:32.778 - Organization Internal has been created successfully. 2023-03-03 05:17:32.778 - Adding Organization to Network Map: Internal 2023-03-03 05:17:32.778 - Adding Organization to Zone Map: Internal 2023-03-03 05:17:32.778 - Adding Organization to Subnet Map: Internal</pre>

Adding Domain

Workflow	Adding Domain
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "name": "curl.com", "description": "curlcom", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/domain/add</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H ""Content-Type: application/json"" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{</pre>

Workflow	Adding Domain
	<pre> ""name"": ""curl.com"", ""description"": ""curlcom"", ""organization_name"": ""Internal"" }' https://10.1.8.240:7443/tims/rest/domain/add </pre>
Tims.log line	<p>2023-03-03 05:37:06.379 - Creating a domain curl.com in the organization Internal.</p> <p>2023-03-03 05:37:06.440 - A domain curl.com has been created successfully in the organization Internal.</p>

Adding Zone

Workflow	Adding Zone
Curl Command	<pre> curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "name": "curl.com", "template_name": "Sudheer-Test-Template", "importCloudRR": true, "description": "", "enable_ns_servers": null, "no_of_name_servers": "0", "enable_tsig": null, "tsigkey_name": "", "dnssec_enable": "no", "nsec_option": "NSEC3", "restrictedZone": "no", "monitoringService": "yes", "dmzVisible": "no", "activeDirectoryEnable": "no", "windows_ad": "on", "rrsetorderDisplay": "", "extensions": [], "dcAclObjects": [], </pre>

Workflow	Adding Zone
	<pre> "secureActiveDirectoryEnable": "no", "rrSetOrderList": [], "serial_format": "DATE", "addedARRs": [], "deletedARRs": [], "is_tsig": 0, "nonmanagedNS": [], "zoneRR": [], "windowsADIntegrated": "yes", "overRideMS": false, "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/zone/add </pre>
Output	<pre> [root@qa-ipam240 ~]# curl -k -X POST -H ""Content-Type: application/json"" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ ""name"": ""curl.com"", ""template_name"": ""Sudheer-Test-Template"", ""importCloudRR"": true, ""description"": "", ""enable_ns_servers"": null, ""no_of_name_servers"": ""0"", ""enable_tsig"": null, ""tsigkey_name"": "", ""dnssec_enable"": ""no"", ""nsec_option"": ""NSEC3"", ""restrictedZone"": ""no"", ""monitoringService"": ""yes"", ""dmzVisible"": ""no"", ""activeDirectoryEnable"": ""no"", ""windows_ad"": ""on"", ""rrsetorderDisplay"": "", ""extensions"": [], </pre>

Workflow	Adding Zone
	<pre> ""dcAcIObjects"": [], ""secureActiveDirectoryEnable"": ""no"", ""rrSetOrderList"": [], ""serial_format"": ""DATE"", ""addedARRs"": [], ""deletedARRs"": [], ""is_tsig"": 0, ""nonmanagedNS"": [], ""zoneRR"": [], ""windowsADIntegrated"": ""yes"", ""overRideMS"": false, ""organization_name"": ""Internal"" }' https://10.1.8.240:7443/tims/rest/zone/add </pre>
Tims.log line	<p>2023-03-03 06:02:22.012 - Creating a managed zone curl.com in the organization Internal.</p> <p>2023-03-03 06:02:22.145 - Refreshing Zone and Reverse Zone Caches.</p> <p>2023-03-03 06:02:22.157 - Adding Organization to Zone Map: ORG</p> <p>2023-03-03 06:02:22.157 - Adding Organization to Subnet Map: ORG</p> <p>2023-03-03 06:02:22.157 - Adding Organization to Network Map: External</p> <p>2023-03-03 06:02:22.157 - Adding Organization to Zone Map: External</p> <p>2023-03-03 06:02:22.157 - Adding Organization to Subnet Map: External</p> <p>2023-03-03 06:02:22.235 - Sending ActiveMQ zone: curl.com add to appliance: qaremote1</p> <p>2023-03-03 06:02:23.007 - DNS zone configuration validation success for zone: curl.com, appliance:qaremote1</p> <p>2023-03-03 06:02:23.008 - Managed zone ADD of name: curl.com has been published successfully to the managed DNS appliance: qaremote1, IP: 10.1.8.243</p> <p>2023-03-03 06:02:23.192 - Sending ActiveMQ zone: curl.com updates to appliance: qaremote2</p> <p>2023-03-03 06:02:23.216 - Incremental update for the managed zone Add for name: curl.com has been published successfully to the managed DNS appliance:</p>

Workflow	Adding Zone
	<p>qaremote2.tcpwave.com., IP: 10.1.8.244</p> <p>2023-03-03 06:02:23.238 - Sending ActiveMQ zone: curl.com updates to appliance: qaremote2 has been successful.</p> <p>2023-03-03 06:02:23.395 - DDNS update for ADD message of the resource record: curl.com. of RR type: NS with data: qaremote1.tcpwave.com. of zone: . has been published successfully to managed DNS appliance : qaremote3 IP: 10.1.8.245.</p> <p>2023-03-03 06:02:23.412 - DDNS update for ADD message of the resource record: curl.com. of RR type: NS with data: qaremote2.tcpwave.com. of zone: . has been published successfully to managed DNS appliance : qaremote3 IP: 10.1.8.245.</p> <p>2023-03-03 06:02:23.583 - Scheduling next DNSSEC key rollover TimerTask.</p> <p>2023-03-03 06:02:23.584 - Next DNSSEC key rollover Time: 2023-05-13 03:47:22.0, Type: ZSK, Zonename: classmate.com, Organization: Internal</p> <p>2023-03-03 06:02:23.630 - A managed zone curl.com has been created successfully in the organization Internal.</p>

Adding Zone Level A Record

Workflow	Add Zone A Record
<p>Curl Command</p>	<pre>"curl -k -X POST -H ""Content-Type: application/json"" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ ""owner"": ""arecordcurl.curl.com"", ""ttl"": ""1200"", ""rrclass"": ""IN"", ""rrtype"": ""A"", ""is_ad_rr"": ""0"", ""is_external_rr"": ""0"", ""xtn_XTN_TESTING"": """", ""xtn_XTN_BULK"": """", ""data"": ""2.2.2.2"", ""zoneName"": ""curl.com"", ""organization_name"": ""Internal"" }</pre>

Workflow	Add Zone A Record
	} https://10.1.8.240:7443/tims/rest/zone/rr/add"
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H ""Content-Type: application/json"" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ ""owner"": ""arecordcurl.curl.com."" , ""ttl"": ""1200"", ""rrclass"": ""IN"", ""rrtype"": ""A"", ""is_ad_rr"": ""0"", ""is_external_rr"": ""0"", ""xtn_XTN_TESTING"": """", ""xtn_XTN_BULK"": """", ""data"": ""2.2.2.2"", ""zoneName"": ""curl.com"", ""organization_name"": ""Internal"" }' https://10.1.8.240:7443/tims/rest/zone/rr/add</pre>
Tims.log line	<p>2023-03-03 06:06:07.529 - Creating a resource record arecordcurl.curl.com. of type A for the zone curl.com.</p> <p>2023-03-03 06:06:07.908 - DDNS update for ADD message of the resource record: arecordcurl.curl.com. of RR type: A with data: 2.2.2.2 of zone: curl.com has been published successfully to managed DNS appliance: qaremote1 IP: 10.1.8.243.</p> <p>2023-03-03 06:06:07.928 - A resource record arecordcurl.curl.com. of type A in the zone curl.com has been created successfully.</p>

Zone A Record Traverse

Workflow	Zone A Record Traverse
Curl Command	<pre>"curl -k -X POST -H ""Content-Type: application/json"" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ ""rr_name"": ""arecordcurl.curl.com."" , ""domain_name"": ""curl.com"", ""rr_type"": ""A"", ""organization_name"": ""Internal"" ,</pre>

Workflow	Zone A Record Traverse
	<pre> """dnssec_enabled""": false, """rr_value""": null, """isProxy""": null, """rev_zone_name""": null, """maskLength""": null }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR" </pre>
Output	<pre> "[root@qa-ipam240 ~]# curl -k -X POST -H ""Content-Type: application/json"" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ ""rr_name"": ""arecordcurl.curl.com"", ""domain_name"": ""curl.com"", ""rr_type"": ""A"", ""organization_name"": ""Internal"", ""dnssec_enabled"": false, ""rr_value"": null, ""isProxy"": null, ""rev_zone_name"": null, ""maskLength"": null }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR </pre>
Tims.log line	<pre> "2023-03-03 06:08:19.207 - Performing traverse for resource record arecordcurl.curl.com. 2023-03-03 06:08:19.519 - Traverse for resource record arecordcurl.curl.com. has been completed successfully. 2023-03-03 06:08:21.528 - Cleaning undodata is started." </pre>

Adding Zone CNAME Record

Workflow	Add Zone CNAME Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "cnamezonecurl.curl.com.", "ttl": "1200", "rrclass": "IN", "rrtype": "CNAME", "is_ad_rr": "0", "is_external_rr": "0", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "arecordcurl.curl.com.", "zoneName": "curl.com", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/zone/rr/add</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "cnamezonecurl.curl.com.", "ttl": "1200", "rrclass": "IN", "rrtype": "CNAME", "is_ad_rr": "0", "is_external_rr": "0", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "arecordcurl.curl.com.", "zoneName": "curl.com", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/zone/rr/add</pre>
Tims.log line	2023-03-03 06:24:08.260 - Creating a resource record cnamezonecurl.curl.com. of

Workflow	Add Zone CNAME Record
	<p>type CNAME for the zone curl.com.</p> <p>2023-03-03 06:24:08.461 - DDNS update for ADD message of the resource record: cnamezonecurl.curl.com. of RR type: CNAME with data: arecordcurl.curl.com. of zone: curl.com has been published successfully to managed DNS appliance : qaremote1 IP: 10.1.8.243.</p> <p>2023-03-03 06:24:08.468 - A resource record cnamezonecurl.curl.com. of type CNAME in the zone curl.com has been created successfully.</p> <p>2023-03-03 06:24:10.213 - Cleaning audit history has started.</p>

Zone CNAME Record Traverse

Workflow	Zone CNAME Record Traverse
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "cnamezonecurl.curl.com.", "domain_name": "curl.com", "rr_type": "CNAME", "organization_name": "Internal", "dnssec_enabled": false, "rr_value": null, "isProxy": null, "rev_zone_name": null, "maskLength": null }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "cnamezonecurl.curl.com.", "domain_name": "curl.com", "rr_type": "CNAME", "organization_name": "Internal", "dnssec_enabled": false,</pre>

Workflow	Zone CNAME Record Traverse
	<pre>"rr_value": null, "isProxy": null, "rev_zone_name": null, "maskLength": null }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR</pre>
Tims.log line	<pre>2023-03-03 06:27:05.136 - Performing traverse for resource record cnamezonecurl.curl.com. 2023-03-03 06:27:05.261 - Traverse for resource record cnamezonecurl.curl.com. has been completed successfully.</pre>

Adding Zone MX Record

Workflow	Add Zone MX Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "mxcurl.curl.com.", "ttl": "1200", "rrclass": "IN", "rrtype": "MX", "is_ad_rr": "0", "is_external_rr": "0", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "100 arecordcurl.curl.com.", "zoneName": "curl.com", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/zone/rr/add</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS- Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "mxcurl.curl.com.", "ttl": "1200", "rrclass": "IN",</pre>

Workflow	Add Zone MX Record
	<pre> "rrtype": "MX", "is_ad_rr": "0", "is_external_rr": "0", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "100 arecordcurl.curl.com.", "zoneName": "curl.com", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/zone/rr/add [root@qa-ipam240 ~]# </pre>
Tims.log line	<p>2023-03-03 06:30:16.557 - Creating a resource record mxcurl.curl.com. of type MX for the zone curl.com.</p> <p>2023-03-03 06:30:16.681 - DDNS update for ADD message of the resource record: mxcurl.curl.com. of RR type: MX with data: 100 arecordcurl.curl.com. of zone: curl.com has been published successfully to managed DNS appliance: qaremote1 IP: 10.1.8.243.</p> <p>2023-03-03 06:30:16.688 - A resource record mxcurl.curl.com. of type MX in the zone curl.com has been created successfully.</p>

Zone MX Record Traverse

Workflow	Zone MX Record Traverse
Curl Command	<pre> curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "mxcurl.curl.com.", "domain_name": "curl.com", "rr_type": "MX", "organization_name": "Internal", "dnssec_enabled": false, "rr_value": null, "isProxy": null, "rev_zone_name": null, </pre>

Workflow	Zone MX Record Traverse
	<pre>"maskLength": null }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "mxcurl.curl.com.", "domain_name": "curl.com", "rr_type": "MX", "organization_name": "Internal", "dnssec_enabled": false, "rr_value": null, "isProxy": null, "rev_zone_name": null, "maskLength": null }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR [root@qa-ipam240 ~]#</pre>
Tims.log line	<pre>2023-03-03 06:32:27.113 - Performing traverse for resource record mxcurl.curl.com. 2023-03-03 06:32:27.224 - Traverse for resource record mxcurl.curl.com. has been completed successfully. 2023-03-03 06:32:32.617 - Updating the heartbeat status for the ADC appliance with an IP Address 10.1.8.254.</pre>

Adding Zone SRV Record

Workflow	Add Zone SRV Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "_http_tcp.srvcurl.curl.com.", "ttl": "", "rrclass": "IN", "rrtype": "SRV", "is_ad_rr": "0",</pre>

Workflow	Add Zone SRV Record
	<pre> "is_external_rr": "0", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "100 122 234 arecordcurl.curl.com.", "zoneName": "curl.com", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/zone/rr/add </pre>
Output	<pre> [root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "_http_tcp.srvcurl.curl.com.", "ttl": "", "rrclass": "IN", "rrtype": "SRV", "is_ad_rr": "0", "is_external_rr": "0", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "100 122 234 arecordcurl.curl.com.", "zoneName": "curl.com", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/zone/rr/add [root@qa-ipam240 ~]# </pre>
Tims.log line	<pre> 2023-03-03 06:34:55.970 - Creating a resource record _http_tcp.srvcurl.curl.com. of type SRV for the zone curl.com. 2023-03-03 06:34:56.089 - DDNS update for ADD message of the resource record: _http_tcp.srvcurl.curl.com. of RR type: SRV with data: 100 122 234 arecordcurl.curl.com. of zone: curl.com has been published successfully to managed DNS appliance : qaremote1 IP: 10.1.8.243. 2023-03-03 06:34:56.096 - A resource record _http_tcp.srvcurl.curl.com. of type SRV in the zone curl.com has been created successfully. </pre>

Zone SRV Record Traverse

Workflow	Zone SRV Record Traverse
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "_http_tcp.srvcurl.curl.com.", "domain_name": "curl.com", "rr_type": "SRV", "organization_name": "Internal", "dnssec_enabled": false, "rr_value": null, "isProxy": null, "rev_zone_name": null, "maskLength": null }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "_http_tcp.srvcurl.curl.com.", "ttl": "", "rrclass": "IN", "rrtype": "SRV", "is_ad_rr": "0", "is_external_rr": "0", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "100 122 234 arecordcurl.curl.com.", "zoneName": "curl.com", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/zone/rr/add [root@qa-ipam240 ~]#</pre>
Tims.log line	<pre>2023-03-03 06:37:27.322 - Performing traverse for resource record _http_tcp.srvcurl.curl.com.</pre>

Workflow	Zone SRV Record Traverse
	<p>2023-03-03 06:37:27.433 - Traverse for resource record _http_tcp.srvcurl.curl.com. has been completed successfully.</p> <p>2023-03-03 06:37:39.743 - Updating the heartbeat status for the ADC appliance with an IP Address 10.1.10.162.</p>

Adding Zone TXT Record

Workflow	Add Zone TXT Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "txtcurl.curl.com.", "ttl": "1200", "rrclass": "IN", "rrtype": "TXT", "is_ad_rr": "0", "is_external_rr": "0", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "curl command", "zoneName": "curl.com", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/zone/rr/add</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "txtcurl.curl.com.", "ttl": "1200", "rrclass": "IN", "rrtype": "TXT", "is_ad_rr": "0", "is_external_rr": "0", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "",</pre>

Workflow	Add Zone TXT Record
	<pre> "data": "curl command", "zoneName": "curl.com", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/zone/rr/add [root@qa-ipam240 ~]# </pre>
Tims.log line	<p>2023-03-03 06:39:32.905 - Creating a resource record txtcurl.curl.com. of type TXT for the zone curl.com.</p> <p>2023-03-03 06:39:33.045 - DDNS update for ADD message of the resource record: txtcurl.curl.com. of RR type: TXT with data: curl command of zone: curl.com has been published successfully to managed DNS appliance : qaremote1 IP: 10.1.8.243.</p> <p>2023-03-03 06:39:33.052 - A resource record txtcurl.curl.com. of type TXT in the zone curl.com has been created successfully.</p> <p>2023-03-03 06:39:34.214 - Fetching the list of all the admins.</p>

Zone TXT Record Traverse

Workflow	Zone TXT Record Traverse
Curl Command	<pre> curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "txtcurl.curl.com.", "domain_name": "curl.com", "rr_type": "TXT", "organization_name": "Internal", "dnssec_enabled": false, "rr_value": null, "isProxy": null, "rev_zone_name": null, "maskLength": null }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR </pre>
Output	<pre> [root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "txtcurl.curl.com.", </pre>

Workflow	Zone TXT Record Traverse
	<pre> "domain_name": "curl.com", "rr_type": "TXT", "organization_name": "Internal", "dnssec_enabled": false, "rr_value": null, "isProxy": null, "rev_zone_name": null, "maskLength": null }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR [root@qa-ipam240 ~]# </pre>
Tims.log line	<pre> 2023-03-03 06:41:33.999 - Performing traverse for resource record txtcurl.curl.com. 2023-03-03 06:41:34.096 - Fetching the list of all the admins. 2023-03-03 06:41:34.096 - Fetching the list of all the admins has been completed successfully. 2023-03-03 06:41:34.115 - Traverse for resource record txtcurl.curl.com. has been completed successfully. 2023-03-03 06:41:34.366 - Fetching the list of dashboards. </pre>

Add a Network

Workflow	Add a Network
Curl Command	<pre> curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "address": "22.22.0.0", "mask_length": "16", "name": "Curl Network", "description": "curlnet", "createRevZone": "yes", "autoCreateBlock": "no", "dmzVisible": "no", "dnssec_enable": "no", "nsec_option": "NSEC3", </pre>

Workflow	Add a Network
	<pre> "monitoringService": "no", "enable_discovery": "no", "discovery_template": "", "discoveryApplianceIp": null, "vrf_name": "", "region": "", "percentageFull": 100, "email_check": 1, "snmp_check": 0, "log_check": 0, "zoneTemplateName": "Sudheer-Test-Template", "addr1": "22", "addr2": "22", "addr3": "0", "addr4": "0", "organization_name": "Internal", "extensions": [] }' https://10.1.8.240:7443/tims/rest/network/add </pre>
Output	<pre> [root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "addr1": "22", "addr2": "22", "address": "22.22.0.0", "organization_name": "Internal", "mask_length": "16", "name": "Curl Network", "description": "curlnet", "createRevZone": "yes", "autoCreateBlock": "no", "dmzVisible": "no", "dnssec_enable": "no", </pre>

Workflow	Add a Network
	<pre> {nsec_option": "NSEC3", "monitoringService": "no", "enable_discovery": "no", "discovery_template": "", "discoveryApplianceIp": null, "vrf_name": "", "region": "", "percentageFull": 100, "email_check": 1, "snmp_check": 0, "log_check": 0, "zoneTemplateName": "Sudheer-Test-Template", "addr1": "22", "addr2": "22", "addr3": "0", "addr4": "0", "organization_name": "Internal", "extensions": [] }' https://10.1.8.240:7443/tims/rest/network/add [root@qa-ipam240 ~]# </pre>
Tims.log line	<pre> 2023-03-03 06:47:40.980 - Creating a network with IP 22.22.0.0 in the organization Internal. 2023-03-03 06:47:41.005 - Refreshing Zone and Reverse Zone Caches. 2023-03-03 06:47:41.012 - Adding Organization to Zone Map: ORG 2023-03-03 06:47:41.012 - Adding Organization to Subnet Map: ORG 2023-03-03 06:47:41.012 - Adding Organization to Network Map: External 2023-03-03 06:47:41.012 - Adding Organization to Zone Map: External 2023-03-03 06:47:41.012 - Adding Organization to Subnet Map: External 2023-03-03 06:47:41.012 - Adding Organization to Network Map: QAOrg 2023-03-03 06:47:41.012 - Adding Organization to Zone Map: QAOrg 2023-03-03 06:47:41.012 - Adding Organization to Subnet Map: QAOrg </pre>

Workflow	Add a Network
	2023-03-03 06:47:41.071 - Sending ActiveMQ zone: 22.22.in-addr.arpa add to Appliance: qaremote1
	2023-03-03 06:47:42.108 - Updating the heartbeat status for the discovery agent 10.1.8.240.
	2023-03-03 06:47:42.129 - Heartbeat status for the discovery agent 10.1.8.240 have been updated successfully.
	2023-03-03 06:47:45.219 - Managed zone ADD of name: 22.22.in-addr.arpa has been published successfully to the managed DNS appliance: qaremote1, IP: 10.1.8.243
	2023-03-03 06:47:45.224 - Add operation for zone: 22.22.in-addr.arpa has been successful for Appliance: qaremote1 and Appliance configuration has been reconfigured.
	2023-03-03 06:47:45.287 - Sending ActiveMQ zone: 22.22.in-addr.arpa updates to Appliance: qaremote2
	2023-03-03 06:47:45.309 - Incremental update for the managed zone Add for name: 22.22.in-addr.arpa has been published successfully to the managed DNS appliance: qaremote2.tcpwave.com., IP: 10.1.8.244
	2023-03-03 06:47:45.318 - Sending ActiveMQ zone: 22.22.in-addr.arpa updates to Appliance: qaremote2 has been successful.
	2023-03-03 06:47:45.396 - DDNS update for ADD message of the resource record: 22.22.in-addr.arpa. of RR type: NS with data: qaremote1.tcpwave.com. of zone: . has been published successfully to managed DNS appliance : qaremote3 IP: 10.1.8.245.
	2023-03-03 06:47:45.412 - DDNS update for ADD message of the resource record: 22.22.in-addr.arpa. of RR type: NS with data: qaremote2.tcpwave.com. of zone: . has been published successfully to managed DNS appliance : qaremote3 IP: 10.1.8.245.
	2023-03-03 06:47:45.477 - DDNS update for ADD message of the resource record: 22.22.in-addr.arpa. of RR type: NS with data: qaremote1.tcpwave.com. of zone: . has been published successfully to managed DNS appliance : qaremote3 IP: 10.1.8.245.
	2023-03-03 06:47:45.482 - Scheduling next DNSSEC key rollover TimerTask.
	2023-03-03 06:47:45.482 - Next DNSSEC key rollover Time: 2023-05-13 03:47:22.0, Type: ZSK, Zonename: classmate.com, Organization: Internal
	2023-03-03 06:47:45.515 - A network with IP 22.22.0.0 has been created successfully

Workflow	Add a Network
	in the organization Internal.

Add a Subnet

Workflow	Add a Subnet
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: 84d55774-c562-4dcf-9646-ce7fed4dabfd' -d '{ "network_address": "22.22.0.0", "nw_mask_length": 16, "mask_length": "24", "subnet": { "name": "", "description": "", "vlan_id": "", "location_id": null, "vrf_id": "", "subnet_group_name": "", "router_option": "First IP in the subnet", "created_by": "22321", "primary_domain": "curl.com", "secondaryDomains": null, "organization_name": "Internal", "sharedNetwork": null, "dhcpFailoverPeer": "", "subnetTemplateName": null, "enable_discovery": "no", "discovery_template": null, "reclaim_objects": "no", "extensions": [], "array_params": [], "primary_dhcp_server": null, "template_id": null } }</pre>

Workflow	Add a Subnet
	<pre> } }' https://10.1.8.240:7443/tims/rest/subnet/addall </pre>
Output	<pre> [root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: 84d55774-c562-4dcf-9646-ce7fed4dabfd' -d '{ "network_address": "22.22.0.0", "nw_mask_length": 16, "mask_length": "24", "subnet": { "name": "", "description": "", "vlan_id": "", "location_id": null, "vrf_id": "", "subnet_group_name": "", "router_option": "First IP in the subnet", "created_by": "22321", "primary_domain": "curl.com", "secondaryDomains": null, "organization_name": "Internal", "sharedNetwork": null, "dhcpFailoverPeer": "", "subnetTemplateName": null, "enable_discovery": "no", "discovery_template": null, "reclaim_objects": "no", "extensions": [], "array_params": [], "primary_dhcp_server": null, "template_id": null } }' https://10.1.8.240:7443/tims/rest/subnet/addall </pre>

Workflow	Add a Subnet
	[root@qa-ipam240 ~]#
Tims.log line	<p>2023-03-03 06:52:55.862 - Creating all the possible subnets.</p> <p>2023-03-03 06:53:00.432 - Updating the heartbeat status for the ADC appliance with an IP Address 10.1.9.85.</p> <p>2023-03-03 06:53:00.443 - Heartbeat status for the ADC appliance with an ip address 10.1.9.85 have been updated successfully.</p> <p>2023-03-03 06:53:01.995 - Executing subnet create batch for network .</p> <p>2023-03-03 06:53:02.400 - Saving notifications is started.</p> <p>2023-03-03 06:53:02.411 - Saving notifications is completed.</p> <p>2023-03-03 06:53:03.878 - All the possible subnets have been created successfully.</p>

Add an Object

Workflow	Add an Object
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "name": "objcurl", "class_code": "3G Phone", "alloc_type": "1", "mac": "", "ttl": "1222", "rsrv_exp_dt": "", "objectview": "", "option_template_name": "", "dhcp_server": "", "update_ns_a": true, "update_ns_ptr": true, "dyn_update_rrs_a": true, "dyn_update_rrs_ptr": true, "dyn_update_rrs_cname": true, "dyn_update_rrs_mx": true, "cloudInstanceTemplate": "" }'</pre>

Workflow	Add an Object
	<pre> "description": "", "change_control_team": "", "end_of_life": "", "room": "", "floor": "", "systemLocation": "", "terminal_server_kvm": "", "switch_name": "", "port_name": "", "duplex_name": "", "serial_num": "", "managed_by": "", "monitored_by": "", "vmware_port": "", "vmware_user_name": "", "vmware_password": "", "addr1": "22", "addr2": "22", "addr3": "0", "addr4": "2", "subnet_address": "22.22.0.0", "domain_name": "curl.com", "rrs": [], "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/object/add </pre>
Output	<pre> [root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "terminal_server_kvm": "", "name": "objcurl", "class_code": "3G Phone", "alloc_type": "1", </pre>

Workflow	Add an Object
	<pre>"addr1": "22", "mac": "", "ttl": "1222", "rsrv_exp_dt": "", "rrs": [], "objectview": "", "option_template_name": "", "dhcp_server": "", "update_ns_a": true, "update_ns_ptr": true, "dyn_update_rrs_a": true, "dyn_update_rrs_ptr": true, "dyn_update_rrs_cname": true, "dyn_update_rrs_mx": true, "cloudInstanceTemplate": "", "description": "", "change_control_team": "", "end_of_life": "", "room": "", "floor": "", "systemLocation": "", "terminal_server_kvm": "", "switch_name": "", "port_name": "", "duplex_name": "", "serial_num": "", "managed_by": "", "monitored_by": "", "vmware_port": "", "vmware_user_name": "", "vmware_password": "",</pre>

Workflow	Add an Object
	<pre> "addr1": "22", "addr2": "22", "addr3": "0", "addr4": "2", "subnet_address": "22.22.0.0", "domain_name": "curl.com", "rrs": [], "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/object/add </pre>
Tims.log line	<p>2023-03-03 06:55:34.822 - Creating an object with IP 22.22.0.2 and FQDN objcurl.curl.com in the organization Internal.</p> <p>2023-03-03 06:55:34.826 - Generating Dell Hardware Monitoring Configurations for appliance: remote3.tcpwave.com</p> <p>2023-03-03 06:55:34.834 - Generating Dell Hardware Monitoring Configurations for appliance: remote2.tcpwave.com</p> <p>2023-03-03 06:55:34.834 - Generating Dell Hardware Monitoring Configurations for appliance: remote1.tcpwave.com</p> <p>2023-03-03 06:55:34.993 - DDNS update for the object ADD of name: objcurl.curl.com. and IP: 22.22.0.2 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 06:55:34.995 - DDNS update for the resource record ADD of name: 2.0.22.22.in-addr.arpa. , RR type: PTR and data: objcurl.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 06:55:35.004 - An object 22.22.0.2 with a FQDN objcurl.curl.com has been created successfully in the organization Internal.</p>

Object Traverse

Workflow	Object Traverse
Curl Command	<pre> curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "objcurl", "domain_name": "curl.com", </pre>

Workflow	Object Traverse
	<pre>"rr_value": "22.22.0.2", "rev_zone_name": "22.22.in-addr.arpa", "obj_type": "IPv4", "dnssec_enabled": false, "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/object/traverse</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "objcurl", "domain_name": "curl.com", "rr_value": "22.22.0.2", "rev_zone_name": "22.22.in-addr.arpa", "obj_type": "IPv4", "dnssec_enabled": false, "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/object/traverse [root@qa-ipam240 ~]#</pre>
Tims.log line	<pre>2023-03-03 09:37:54.367 - Performing traverse for object 22.22.0.2. 2023-03-03 09:37:54.480 - Traverse for object 22.22.0.2 has been completed successfully.</pre>

Object A Record

Workflow	Object A Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "arcurl.curl.com.", "rrclass": "IN", "rrtype": "A", "ttl": "1200", "description": "", "status": "1",</pre>

Workflow	Object A Record
	<pre>"xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "22.22.0.2", "ipAddr": "22.22.0.2", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/object/rr/add</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "arcurl.curl.com.", "rrclass": "IN", "rrtype": "A", "ttl": "1200", "description": "", "status": "1", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "22.22.0.2", "ipAddr": "22.22.0.2", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/object/rr/add</pre>
Tims.log line	<pre>2023-03-03 06:58:43.312 - Adding a resource record arcurl.curl.com. of type A to the object 22.22.0.2. 2023-03-03 06:58:43.524 - DDNS update for ADD message of the resource record: arcurl.curl.com. of RR type: A with data: 22.22.0.2 of zone: curl.com has been published successfully to managed DNS appliance: qaremote1 IP: 10.1.8.243. 2023-03-03 06:58:43.531 - A resource record arcurl.curl.com. of type A to the object 22.22.0.2 has been added successfully.</pre>

Object A Record Traverse

Workflow	Object A Record Traverse
Curl	curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token:

Workflow	Object A Record Traverse
Command	<pre>ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "arcurl.curl.com.", "domain_name": "curl.com", "rr_type": "A", "organization_name": "Internal", "dnssec_enabled": false, "rr_value": "22.22.0.2", "isProxy": 0, "rev_zone_name": null, "maskLength": "16" }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "arcurl.curl.com.", "domain_name": "curl.com", "rr_type": "A", "organization_name": "Internal", "dnssec_enabled": false, "rr_value": "22.22.0.2", "isProxy": 0, "rev_zone_name": null, "maskLength": "16" }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR [root@qa-ipam240 ~]#</pre>
Tims.log line	<pre>2023-03-03 07:01:26.129 - Fetching the list of domains from the organization Internal has been completed successfully. 2023-03-03 07:01:28.159 - Performing traverse for resource record arcurl.curl.com. 2023-03-03 07:01:28.418 - Traverse for resource record arcurl.curl.com. has been completed successfully.</pre>

Adding Object CNAME Record

Workflow	Add Object CNAME Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "cnameobjcurl.curl.com.", "rrclass": "IN", "rrtype": "CNAME", "ttl": "1200", "description": "", "status": "1", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "arcurl.curl.com.", "ipAddr": "22.22.0.2", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/object/rr/add</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "owner": "cnameobjcurl.curl.com.", "rrclass": "IN", "rrtype": "CNAME", "ttl": "1200", "description": "", "status": "1", "xtn_XTN_TESTING": "", "xtn_XTN_BULK": "", "data": "arcurl.curl.com.", "ipAddr": "22.22.0.2", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/object/rr/add [root@qa-ipam240 ~]#</pre>

Workflow	Add Object CNAME Record
Tims.log line	<p>2023-03-03 07:09:24.847 - Adding a resource record cnameobjcurl.curl.com. of type CNAME to the object 22.22.0.2.</p> <p>2023-03-03 07:09:24.931 - DDNS update for ADD message of the resource record: cnameobjcurl.curl.com. of RR type: CNAME with data: arcurl.curl.com. of zone: curl.com has been published successfully to managed DNS appliance: qaremote1 IP: 10.1.8.243.</p> <p>2023-03-03 07:09:24.938 - A resource record cnameobjcurl.curl.com. of type CNAME to the object 22.22.0.2 has been added successfully.</p>

Object CNAME Traverse

Workflow	Object CNAME Traverse
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "cnameobjcurl.curl.com.", "domain_name": "curl.com", "rr_type": "CNAME", "organization_name": "Internal", "dnssec_enabled": false, "rr_value": "22.22.0.2", "isProxy": 0, "rev_zone_name": null, "maskLength": "16" }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "rr_name": "cnameobjcurl.curl.com.", "domain_name": "curl.com", "rr_type": "CNAME", "organization_name": "Internal", "dnssec_enabled": false, "rr_value": "22.22.0.2",</pre>

Workflow	Object CNAME Traverse
	<pre>"isProxy": 0, "rev_zone_name": null, "maskLength": "16" }' https://10.1.8.240:7443/tims/rest/dnstools/traverseRR [root@qa-ipam240 ~]#</pre>
Tims.log line	<p>2023-03-03 07:11:35.006 - Performing traverse for resource record cnameobjcurl.curl.com.</p> <p>2023-03-03 07:11:35.221 - Traverse for resource record cnameobjcurl.curl.com. has been completed successfully.</p>

Subnet Edit to DHCP-Enabled

Workflow	Subnet Edit to DHCP-Enabled
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "subnet": { "name": "subcurl", "location_id": null, "subnet_group_name": "", "vlan_id": "", "vrf_name": "None", "sharedNetwork": "", "dhcpFailoverPeer": "", "discovery_template": null, "enable_discovery": "no", "reclaim_objects": "no", "schedule_reclaim": "no", "array_params": [], "subnet_group_id": "0", "description": "", "primary_domain": "curl.com", "secondaryDomains": null,</pre>

Workflow	Subnet Edit to DHCP-Enabled
	<pre> "routerAddress": "22.22.0.1", "organization_name": "Internal", "primary_dhcp_server_address": "10.1.8.243", "template_name": "Default option Template", "extensions": [] }, "address":["22.22.0.0"] }' https://10.1.8.240:7443/tims/rest/subnet/edit </pre>
Output	<pre> [root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "subnet": { "name": "subcurl", "location_id": null, "subnet_group_name": "", "vlan_id": "", "vrf_name": "None", "sharedNetwork": "", "dhcpFailoverPeer": "", "discovery_template": null, "enable_discovery": "no", "reclaim_objects": "no", "schedule_reclaim": "no", "array_params": [], "subnet_group_id": "0", "description": "", "primary_domain": "curl.com", "secondaryDomains": null, "routerAddress": "22.22.0.1", "organization_name": "Internal", "primary_dhcp_server_address": "10.1.8.243", "template_name": "Default option Template", </pre>

Workflow	Subnet Edit to DHCP-Enabled
	<pre> "extensions": [] }, "address":["22.22.0.0"] }' https://10.1.8.240:7443/tims/rest/subnet/edit [root@qa-ipam240 ~]# </pre>
Tims.log line	<pre> 2023-03-03 07:14:19.787 - Updating a subnet with an IP address [22.22.0.0] 2023-03-03 07:14:21.529 - Saving undodata is started. 2023-03-03 07:14:21.529 - Saving undodata is completed. 2023-03-03 07:14:24.913 - Checking ADC appliances heartbeat status. 2023-03-03 07:14:24.950 - The SLB appliance 10.1.8.253 heartbeat response is alive 2023-03-03 07:14:24.978 - The SLB appliance 10.1.8.254 heartbeat response is alive 2023-03-03 07:14:25.021 - The SLB appliance 10.1.9.85 heartbeat response is alive 2023-03-03 07:14:25.061 - The SLB appliance 10.1.10.162 heartbeat response is alive 2023-03-03 07:14:25.061 - ADC appliances heartbeat status check has been completed successfully. 2023-03-03 07:14:29.145 - A selected subnet [22.22.0.0] has been updated successfully. </pre>

Create a Scope

Workflow	Create a Scope
Curl Command	<pre> curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "scope": { "addressRanges": [{ "startIP": "22.22.0.5", "endIP": "22.22.0.25" }], "allocation_type": "dynamic", "allowClassesArray": [], </pre>

Workflow	Create a Scope
	<pre> "class_code": "3G Phone", "denyClassesArray": [], "description": "", "organization_name": "Internal", "primary_dhcp_server": "qaremote1" }, "subnetAddress": "22.22.0.0", "update_ns_a": true, "update_ns_ptr": true, "dyn_update_rrs_a": true, "dyn_update_rrs_cname": true, "dyn_update_rrs_mx": true, "dyn_update_rrs_ptr": true, "ttl": 1200 }' https://10.1.8.240:7443/tims/rest/scope/create </pre>
Output	<pre> [root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "scope": { "addressRanges": [{ "startIP": "22.22.0.5", "endIP": "22.22.0.25" }], "allocation_type": "dynamic", "allowClassesArray": [], "class_code": "3G Phone", "denyClassesArray": [], "description": "", "organization_name": "Internal", "primary_dhcp_server": "qaremote1" } }' </pre>

Workflow	Create a Scope
	<pre> }, "subnetAddress": "22.22.0.0", "update_ns_a": true, "update_ns_ptr": true, "dyn_update_rrs_a": true, "dyn_update_rrs_cname": true, "dyn_update_rrs_mx": true, "dyn_update_rrs_ptr": true, "ttl": 1200 }' https://10.1.8.240:7443/tims/rest/scope/create [root@qa-ipam240 ~]# </pre>
Tims.log line	<pre> 2023-03-03 07:17:02.279 - Creating scope(s): [22.22.0.5-22.22.0.25]. 2023-03-03 07:17:02.400 - Saving notifications is started. 2023-03-03 07:17:02.576 - [22.22.0.5-22.22.0.25] Scope(s) have been created successfully. 2023-03-03 07:17:02.592 - Loading the incremental updates to the DHCP Queue for the scope: [22.22.0.5-22.22.0.25] 2023-03-03 07:17:02.607 - Subnet(s): 22.22.0.0 has been added to the DHCP incremental updates queue successfully. </pre>

Delete a Scope

Workflow	Delete a Scope
Curl Command	<pre> curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d[{ "addressRange": "22.22.0.5-22.22.0.25", "subnetAddress": "22.22.0.0", "organization_name": "Internal" }]' https://10.1.8.240:7443/tims/rest/scope/delete </pre>
Output	<pre> [root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS- </pre>

Workflow	Delete a Scope
	<pre> Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d'[{ "addressRange": "22.22.0.5-22.22.0.25", "subnetAddress": "22.22.0.0", "organization_name": "Internal" }]' https://10.1.8.240:7443/tims/rest/scope/delete [root@qa-ipam240 ~]# </pre>
Tims.log line	<p>2023-03-03 08:32:58.989 - Deleting a scope of address range 22.22.0.5-22.22.0.25 in the organization Internal.</p> <p>2023-03-03 08:32:59.037 - Fetching the object details and references information to track the undo for the scope: 22.22.0.5-22.22.0.25 in the organization: internal</p> <p>2023-03-03 08:32:59.321 - Subnet(s): 22.22.0.0 has been added to the DHCP incremental updates queue successfully.</p> <p>2023-03-03 08:32:59.340 - A scope of address range 22.22.0.5-22.22.0.25 in the organization Internal has been deleted successfully.</p> <p>2023-03-03 08:32:59.368 - DDNS update for the object DELETE of name: 3G370540554Phone.curl.com. and IP: 22.22.0.10 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.383 - DDNS update for the resource record DELETE of name: 10.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540554Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.386 - DDNS update for the object DELETE of name: 3G370540555Phone.curl.com. and IP: 22.22.0.11 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.388 - DDNS update for the resource record DELETE of name: 11.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540555Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.404 - DDNS update for the object DELETE of name: 3G370540556Phone.curl.com. and IP: 22.22.0.12 has been published successfully to the managed DNS appliances.</p>

Workflow	Delete a Scope
	<p>2023-03-03 08:32:59.405 - DDNS update for the resource record DELETE of name: 12.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540556Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.408 - DDNS update for the object DELETE of name: 3G370540557Phone.curl.com. and IP: 22.22.0.13 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.410 - DDNS update for the resource record DELETE of name: 13.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540557Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.412 - DDNS update for the object DELETE of name: 3G370540558Phone.curl.com. and IP: 22.22.0.14 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.414 - DDNS update for the resource record DELETE of name: 14.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540558Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.420 - DDNS update for the object DELETE of name: 3G370540559Phone.curl.com. and IP: 22.22.0.15 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.422 - DDNS update for the resource record DELETE of name: 15.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540559Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.424 - DDNS update for the object DELETE of name: 3G370540560Phone.curl.com. and IP: 22.22.0.16 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.426 - DDNS update for the resource record DELETE of name: 16.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540560Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.428 - DDNS update for the object DELETE of name: 3G370540561Phone.curl.com. and IP: 22.22.0.17 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.433 - DDNS update for the resource record DELETE of name:</p>

Workflow	Delete a Scope
	<p>17.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540561Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.436 - DDNS update for the object DELETE of name: 3G370540562Phone.curl.com. and IP: 22.22.0.18 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.437 - DDNS update for the resource record DELETE of name: 18.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540562Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.439 - DDNS update for the object DELETE of name: 3G370540563Phone.curl.com. and IP: 22.22.0.19 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.440 - DDNS update for the resource record DELETE of name: 19.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540563Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.443 - DDNS update for the object DELETE of name: 3G370540564Phone.curl.com. and IP: 22.22.0.20 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.446 - DDNS update for the resource record DELETE of name: 20.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540564Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.448 - DDNS update for the object DELETE of name: 3G370540565Phone.curl.com. and IP: 22.22.0.21 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.449 - DDNS update for the resource record DELETE of name: 21.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540565Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.453 - DDNS update for the object DELETE of name: 3G370540566Phone.curl.com. and IP: 22.22.0.22 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.454 - DDNS update for the resource record DELETE of name: 22.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540566Phone.curl.com. has</p>

Workflow	Delete a Scope
	<p>been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.459 - DDNS update for the object DELETE of name: 3G370540567Phone.curl.com. and IP: 22.22.0.23 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.460 - DDNS update for the resource record DELETE of name: 23.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540567Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.463 - DDNS update for the object DELETE of name: 3G370540568Phone.curl.com. and IP: 22.22.0.24 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.469 - DDNS update for the resource record DELETE of name: 24.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540568Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.471 - DDNS update for the object DELETE of name: 3G370540569Phone.curl.com. and IP: 22.22.0.25 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.472 - DDNS update for the resource record DELETE of name: 25.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540569Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.475 - DDNS update for the object DELETE of name: 3G370540549Phone.curl.com. and IP: 22.22.0.5 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.476 - DDNS update for the resource record DELETE of name: 5.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540549Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.478 - DDNS update for the object DELETE of name: 3G370540550Phone.curl.com. and IP: 22.22.0.6 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.479 - DDNS update for the resource record DELETE of name: 6.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540550Phone.curl.com. has been published successfully to the managed DNS appliances.</p>

Workflow	Delete a Scope
	<p>2023-03-03 08:32:59.482 - DDNS update for the object DELETE of name: 3G370540551Phone.curl.com. and IP: 22.22.0.7 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.486 - DDNS update for the resource record DELETE of name: 7.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540551Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.488 - DDNS update for the object DELETE of name: 3G370540552Phone.curl.com. and IP: 22.22.0.8 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.490 - DDNS update for the resource record DELETE of name: 8.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540552Phone.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.492 - DDNS update for the object DELETE of name: 3G370540553Phone.curl.com. and IP: 22.22.0.9 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 08:32:59.498 - DDNS update for the resource record DELETE of name: 9.0.22.22.in-addr.arpa. , RR type: PTR and data: 3G370540553Phone.curl.com. has been published successfully to the managed DNS appliances.</p>

Delete Zone TXT Record

Workflow	Delete Zone TXT Record
<p>Curl Command</p>	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "zoneName": "curl.com", "organization_name": "Internal", "owner": "txtcurl.curl.com.", "ttl": 1200, "rrclass": "IN", "rrtype": "TXT", "data": "curl command", "description": ""</pre>

Workflow	Delete Zone TXT Record
	}' https://10.1.8.240:7443/tims/rest/zone/rr/delete
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "zoneName": "curl.com", "organization_name": "Internal", "owner": "txtcurl.curl.com.", "ttl": 1200, "rrclass": "IN", "rrtype": "TXT", "data": "curl command", "description": "" }' https://10.1.8.240:7443/tims/rest/zone/rr/delete [root@qa-ipam240 ~]#</pre>
Tims.log line	<p>2023-03-03 08:44:13.859 - Deleting a zone resource record txtcurl.curl.com. of type TXT.</p> <p>2023-03-03 08:44:14.004 - DDNS update for DELETE message of the resource record: txtcurl.curl.com. of RR type: TXT with data: curl command of zone: curl.com has been published successfully to managed DNS appliance: qaremote1 IP: 10.1.8.243.</p> <p>2023-03-03 08:44:14.016 - A zone resource record txtcurl.curl.com. of type TXT has been deleted successfully.</p>

Delete Zone SRV Record

Workflow	Delete Zone SRV Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "zoneName": "curl.com", "organization_name": "Internal", "owner": "_http_tcp.srvcurl.curl.com.", "rrclass": "IN", "rrtype": "SRV",</pre>

Workflow	Delete Zone SRV Record
	<pre>"data": "100 122 234 arecordcurl.curl.com.", "description": "" }' https://10.1.8.240:7443/tims/rest/zone/rr/delete</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "zoneName": "curl.com", "organization_name": "Internal", "owner": "_http_tcp.srvcurl.curl.com.", "rrclass": "IN", "rrtype": "SRV", "data": "100 122 234 arecordcurl.curl.com.", "description": "" }' https://10.1.8.240:7443/tims/rest/zone/rr/delete [root@qa-ipam240 ~]#</pre>
Tims.log line	<pre>2023-03-03 08:49:07.502 - Deleting a zone resource record _http_tcp.srvcurl.curl.com. of type SRV. 2023-03-03 08:49:07.580 - DDNS update for DELETE message of the resource record: _http_tcp.srvcurl.curl.com. of RR type: SRV with data: 100 122 234 arecordcurl.curl.com. of zone: curl.com has been published successfully to managed DNS appliance: qaremote1 IP: 10.1.8.243. 2023-03-03 08:49:07.592 - A zone resource record _http_tcp.srvcurl.curl.com. of type SRV has been deleted successfully.</pre>

Delete Zone MX Record

Workflow	Delete Zone MX Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "zoneName": "curl.com", "organization_name": "Internal", "owner": "mxcurl.curl.com.", "ttl": 1200,</pre>

Workflow	Delete Zone MX Record
	<pre>"rrclass": "IN", "rrtype": "MX", "data": "100 arecordcurl.curl.com.", "description": "" }' https://10.1.8.240:7443/tims/rest/zone/rr/delete</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "zoneName": "curl.com", "organization_name": "Internal", "owner": "mxcurl.curl.com.", "ttl": 1200, "rrclass": "IN", "rrtype": "MX", "data": "100 arecordcurl.curl.com.", "description": "" }' https://10.1.8.240:7443/tims/rest/zone/rr/delete [root@qa-ipam240 ~]#</pre>
Tims.log line	<pre>2023-03-03 08:52:56.237 - Deleting a zone resource record mxcurl.curl.com. of type MX. 2023-03-03 08:52:56.328 - DDNS update for DELETE message of the resource record: mxcurl.curl.com. of RR type: MX with data: 100 arecordcurl.curl.com. of zone: curl.com has been published successfully to managed DNS appliance: qaremote1 IP: 10.1.8.243. 2023-03-03 08:52:56.340 - A zone resource record mxcurl.curl.com. of type MX has been deleted successfully.</pre>

Delete Zone CNAME Record

Workflow	Delete Zone CNAME Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "zoneName": "curl.com",</pre>

Workflow	Delete Zone CNAME Record
	<pre> "organization_name": "Internal", "owner": "cnamezonecurl.curl.com.", "ttl": 1200, "rrclass": "IN", "rrtype": "CNAME", "data": "arecordcurl.curl.com.", "description": "" }' https://10.1.8.240:7443/tims/rest/zone/rr/delete </pre>
Output	<pre> [root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "zoneName": "curl.com", "organization_name": "Internal", "owner": "cnamezonecurl.curl.com.", "ttl": 1200, "rrclass": "IN", "rrtype": "CNAME", "data": "arecordcurl.curl.com.", "description": "" }' https://10.1.8.240:7443/tims/rest/zone/rr/delete [root@qa-ipam240 ~]# </pre>
Tims.log line	<pre> 2023-03-03 08:56:59.775 - Deleting a zone resource record cnamezonecurl.curl.com. of type CNAME. 2023-03-03 08:56:59.866 - DDNS update for DELETE message of the resource record: cnamezonecurl.curl.com. of RR type: CNAME with data: arecordcurl.curl.com. of zone: curl.com has been published successfully to managed DNS appliance: qaremote1 IP: 10.1.8.243. 2023-03-03 08:56:59.884 - A zone resource record cnamezonecurl.curl.com. of type CNAME has been deleted successfully. </pre>

Delete Zone A Record

Workflow	Delete Zone A Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "zoneName": "curl.com", "organization_name": "Internal", "owner": "arecordcurl.curl.com.", "ttl": 1200, "rrclass": "IN", "rrtype": "A", "data": "2.2.2.2", "description": "" }' https://10.1.8.240:7443/tims/rest/zone/rr/delete</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS- Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "zoneName": "curl.com", "organization_name": "Internal", "owner": "arecordcurl.curl.com.", "ttl": 1200, "rrclass": "IN", "rrtype": "A", "data": "2.2.2.2", "description": "" }' https://10.1.8.240:7443/tims/rest/zone/rr/delete [root@qa-ipam240 ~]#</pre>
Tims.log line	<pre>2023-03-03 08:59:58.877 - Deleting a zone resource record arecordcurl.curl.com. of type A. 2023-03-03 08:59:59.063 - DDNS update for DELETE message of the resource record: arecordcurl.curl.com. of RR type: A with data: 2.2.2.2 of zone: curl.com has been published successfully to managed DNS appliance: qaremote1 IP: 10.1.8.243. 2023-03-03 08:59:59.076 - A zone resource record arecordcurl.curl.com. of type A has</pre>

Workflow	Delete Zone A Record
	been deleted successfully.

Delete Object CNAME Record

Workflow	Delete Object CNAME Record
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "ipAddr": "22.22.0.2", "organization_name": "Internal", "owner": "cnameobjcurl.curl.com.", "ttl": 1200, "rrclass": "IN", "rrtype": "CNAME", "data": "arcurl.curl.com.", "description": "" }' https://10.1.8.240:7443/tims/rest/object/rr/delete</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "ipAddr": "22.22.0.2", "organization_name": "Internal", "owner": "cnameobjcurl.curl.com.", "ttl": 1200, "rrclass": "IN", "rrtype": "CNAME", "data": "arcurl.curl.com.", "description": "" }' https://10.1.8.240:7443/tims/rest/object/rr/delete [root@qa-ipam240 ~]#</pre>
Tims.log line	<pre>2023-03-03 09:03:18.702 - Deleting a resource record cnameobjcurl.curl.com. of type CNAME from object 22.22.0.2. 2023-03-03 09:03:18.755 - DDNS update for DELETE message of the resource record: cnameobjcurl.curl.com. of RR type: CNAME with data: arcurl.curl.com. of zone:</pre>

Workflow	Delete Object CNAME Record
	<p>curl.com has been published successfully to managed DNS appliance: qaremote1 IP: 10.1.8.243.</p> <p>2023-03-03 09:03:18.762 - A resource record cnameobjcurl.curl.com. of type CNAME from object 22.22.0.2 has been deleted successfully.</p>

Delete an Object

Workflow	Delete an Object
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "addressArray": ["22.22.0.2"], "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/object/delete-multiple</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d '{ "addressArray": ["22.22.0.2"], "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/object/delete-multiple [root@qa-ipam240 ~]#</pre>
Tims.log line	<p>2023-03-03 09:06:51.048 - Deleting an object with IP 22.22.0.2 and FQDN objcurl.curl.com in the organization Internal.</p> <p>2023-03-03 09:06:51.180 - An object with IP 22.22.0.2 and a FQDN objcurl.curl.com associated with the organization Internal has been deleted successfully.</p> <p>2023-03-03 09:06:53.464 - Transmitted a T-Message Notification to delete an object with the name: objcurl, domain: curl.com and IP address: 22.22.0.2</p> <p>2023-03-03 09:06:53.466 - DDNS update for the object DELETE of name: objcurl.curl.com. and IP: 22.22.0.2 has been published successfully to the managed DNS appliances.</p>

Workflow	Delete an Object
	<p>2023-03-03 09:06:53.467 - DDNS update for the resource record DELETE of name: arcurl.curl.com. , RR type: A and data: 22.22.0.2 has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 09:06:53.469 - DDNS update for the resource record DELETE of name: 2.0.22.22.in-addr.arpa. , RR type: PTR and data: objcurl.curl.com. has been published successfully to the managed DNS appliances.</p> <p>2023-03-03 09:06:53.471 - DDNS update for the resource record DELETE of name: 2.0.22.22.in-addr.arpa. , RR type: PTR and data: arcurl.curl.com. has been published successfully to the managed DNS appliances.</p>

Delete a Subnet

Workflow	Delete a Subnet
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d'{ "addressList": ["22.22.0.0/24"], "organizationName": "Internal", "isDeleterrsChecked": 0 }' https://10.1.8.240:7443/tims/rest/subnet/delete</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d'{ "addressList": ["22.22.0.0/24"], "organizationName": "Internal", "isDeleterrsChecked": 0 }' https://10.1.8.240:7443/tims/rest/subnet/delete [root@qa-ipam240 ~]#</pre>
Tims.log line	<p>2023-03-03 09:10:43.705 - Deleting a subnet with IP address 22.22.0.0/24 in the organization Internal.</p>

Workflow	Delete a Subnet
	2023-03-03 09:10:43.727 - Fetching the details and references information to track for the undo of the subnet: 22.22.0.0 in the organization: Internal
	2023-03-03 09:10:43.784 - Fetching the details and references information to track for the undo of the subnet: 22.22.0.0 in the organization: Internal has been completed successfully.
	2023-03-03 09:10:44.106 - A subnet with an IP address 22.22.0.0/24 in the organization Internal has been deleted successfully.
	2023-03-03 09:10:44.147 - Adding the subnet and reference elements to undo.
	2023-03-03 09:10:44.225 - Zone template is not associated with any cloud provider
	2023-03-03 09:10:44.228 - Syncing reverse zone 22.22.in-addr.arpa for organization Internal.
	2023-03-03 09:10:44.263 - Starting the Zone Force sync of zone: curl.com for organization: Internal
	2023-03-03 09:10:44.265 - Refreshing Zone and Reverse Zone Caches.
	2023-03-03 09:10:44.289 - Adding Organization to Zone Map: ORG
	2023-03-03 09:10:44.290 - Adding Organization to Subnet Map: ORG
	2023-03-03 09:10:44.290 - Adding Organization to Network Map: External
	2023-03-03 09:10:44.290 - Adding Organization to Zone Map: External
	2023-03-03 09:10:44.291 - Adding Organization to Subnet Map: External
	2023-03-03 09:10:44.291 - Adding Organization to Network Map: QAOrg
	2023-03-03 09:10:44.291 - Adding Organization to Zone Map: QAOrg
	2023-03-03 09:10:44.292 - Adding Organization to Subnet Map: QAOrg
	2023-03-03 09:10:44.322 - Adding the subnet and reference elements to undo completed successfully.
	2023-03-03 09:10:46.498 - DNS zone configuration validation success for zone:curl.com, appliance:10.1.8.243
	2023-03-03 09:10:48.032 - Querying database for galera cluster status on qa-ipam240
	2023-03-03 09:10:48.815 - ALERT: IPAMDNSAlert MSG: DNS full zone sync operation is success for zone:curl.com, on appliance:qaremote1, IP:10.1.8.243 and DNS appliance has been reconfigured. Status: SUCCESS Hostname: qaremote1
	2023-03-03 09:10:50.744 - Zone Force sync of zone: curl.com has been completed

Workflow	Delete a Subnet
	<p>successfully for organization: Internal.</p> <p>2023-03-03 09:10:50.984 - DNS zone configuration validation success for zone:22.22.in-addr.arpa, appliance:10.1.8.243</p> <p>2023-03-03 09:10:53.235 - ALERT: IPAMDNSAlert MSG: DNS full zone sync operation is success for zone:22.22.in-addr.arpa, on appliance:qaremote1, IP:10.1.8.243 and DNS appliance has been reconfigured. Status: SUCCESS Hostname: qaremote1</p> <p>2023-03-03 09:10:55.146 - Zone Force sync of reverse zone 22.22.in-addr.arpa has been completed.</p>

Delete a Network

Workflow	Delete a Network
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d'{ "address": "22.22.0.0", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/network/delete</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d'{ "address": "22.22.0.0", "organization_name": "Internal" }' https://10.1.8.240:7443/tims/rest/network/delete [root@qa-ipam240 ~]#</pre>
Tims.log line	<p>2023-03-03 09:13:33.653 - Deleting a network 22.22.0.0 associated with the organization Internal.</p> <p>2023-03-03 09:13:35.354 - Refreshing Zone and Reverse Zone Caches.</p> <p>2023-03-03 09:13:35.364 - Adding Organization to Zone Map: ORG</p> <p>2023-03-03 09:13:35.364 - Adding Organization to Subnet Map: ORG</p> <p>2023-03-03 09:13:35.364 - Adding Organization to Network Map: External</p> <p>2023-03-03 09:13:35.365 - Adding Organization to Zone Map: External</p> <p>2023-03-03 09:13:35.365 - Adding Organization to Subnet Map: External</p> <p>2023-03-03 09:13:35.366 - Adding Organization to Network Map: QAOrg</p>

Workflow	Delete a Network
	2023-03-03 09:13:35.366 - Adding Organization to Zone Map: QAOrg
	2023-03-03 09:13:35.366 - Adding Organization to Subnet Map: QAOrg
	2023-03-03 09:13:35.433 - Syncing reverse zone 22.22.in-addr.arpa for organization Internal.
	2023-03-03 09:13:35.447 - A network 22.22.0.0 associated with the organization Internal has been deleted successfully.
	2023-03-03 09:13:35.464 - Scheduling next DNSSEC key rollover TimerTask.
	2023-03-03 09:13:35.468 - Next DNSSEC key rollover Time: 2023-05-13 03:47:22.0, Type: ZSK, Zonename: classmate.com, Organization: Internal
	2023-03-03 09:13:35.483 - Zone template is not associated with any cloud provider
	2023-03-03 09:13:35.499 - Starting the Zone Force sync of zone: curl.com for organization: Internal
	2023-03-03 09:13:35.499 - Refreshing Zone and Reverse Zone Caches.
	2023-03-03 09:13:35.520 - Adding Organization to Zone Map: ORG
	2023-03-03 09:13:35.520 - Adding Organization to Subnet Map: ORG
	2023-03-03 09:13:35.520 - Adding Organization to Network Map: External
	2023-03-03 09:13:35.520 - Adding Organization to Zone Map: External
	2023-03-03 09:13:35.520 - Adding Organization to Subnet Map: External
	2023-03-03 09:13:35.520 - Adding Organization to Network Map: QAOrg
	2023-03-03 09:13:35.520 - Adding Organization to Zone Map: QAOrg
	2023-03-03 09:13:35.520 - Adding Organization to Subnet Map: QAOrg
	2023-03-03 09:13:40.794 - DNS zone configuration validation success for zone:curl.com, appliance:10.1.8.243
	2023-03-03 09:13:40.959 - DNS zone configuration validation success for zone:22.22.in-addr.arpa, appliance:10.1.8.243
	2023-03-03 09:13:41.001 - Updating the heartbeat status for the ADC appliance with an IP Address 10.1.10.162.
	2023-03-03 09:13:41.014 - Heartbeat status for the ADC appliance with an ip address 10.1.10.162 have been updated successfully.
	2023-03-03 09:13:42.204 - Updating the heartbeat status for the discovery agent 10.1.8.240.

Workflow	Delete a Network
	<p>2023-03-03 09:13:42.238 - Heartbeat status for the discovery agent 10.1.8.240 have been updated successfully.</p> <p>2023-03-03 09:13:43.307 - ALERT: IPAMDNSAlert MSG: DNS full zone sync operation is success for zone:22.22.in-addr.arpa, on appliance:qareMOTE1, IP:10.1.8.243 and DNS appliance has been reconfigured. Status: SUCCESS Hostname: qareMOTE1</p> <p>2023-03-03 09:13:43.421 - ALERT: IPAMDNSAlert MSG: DNS full zone sync operation is success for zone:curl.com, on appliance:qareMOTE1, IP:10.1.8.243 and DNS appliance has been reconfigured. Status: SUCCESS Hostname: qareMOTE1</p> <p>2023-03-03 09:13:45.244 - Zone Force sync of reverse zone 22.22.in-addr.arpa has been completed.</p> <p>2023-03-03 09:13:45.260 - Zone Force sync of zone: curl.com has been completed successfully for organization: Internal.</p>

Delete a Zone

Workflow	Delete a Zone
Curl Command	<pre>curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d'[{ "name": "curl.com", "organization_name": "Internal", "activeDirectoryEnable": "no", "template_name": "Sudheer-Test-Template" }]'</pre>
Output	<pre>[root@qa-ipam240 ~]# curl -k -X POST -H "Content-Type: application/json" -H 'TIMS-Session-Token: ae48de10-8928-47e3-9656-e4788f0aa2e6' -d'[{ "name": "curl.com", "organization_name": "Internal", "activeDirectoryEnable": "no", "template_name": "Sudheer-Test-Template" }]'</pre>

Workflow	Delete a Zone
	<pre> }]' https://10.1.8.240:7443/tims/rest/zone/multidelete [root@qa-ipam240 ~]# </pre>
Tims.log line	<p>2023-03-03 09:16:17.256 - Deleting a zone curl.com associated with the organization Internal.</p> <p>2023-03-03 09:16:17.791 - Refreshing Zone and Reverse Zone Caches.</p> <p>2023-03-03 09:16:17.799 - Adding Organization to Zone Map: ORG</p> <p>2023-03-03 09:16:17.799 - Adding Organization to Subnet Map: ORG</p> <p>2023-03-03 09:16:17.799 - Adding Organization to Network Map: External</p> <p>2023-03-03 09:16:17.799 - Adding Organization to Zone Map: External</p> <p>2023-03-03 09:16:17.799 - Adding Organization to Subnet Map: External</p> <p>2023-03-03 09:16:17.799 - Adding Organization to Network Map: QAOrg</p> <p>2023-03-03 09:16:17.799 - Adding Organization to Zone Map: QAOrg</p> <p>2023-03-03 09:16:17.799 - Adding Organization to Subnet Map: QAOrg</p> <p>2023-03-03 09:16:17.904 - Sending ActiveMQ zone: curl.com delete to Appliance: qaremote1</p> <p>2023-03-03 09:16:17.904 - Incremental update for the managed zone DELETE of name: curl.com has been published successfully to the managed DNS appliance: qaremote1.tcpwave.com., IP: 10.1.8.243</p> <p>2023-03-03 09:16:17.909 - Sending ActiveMQ zone: curl.com delete to Appliance: qaremote1 completed</p> <p>2023-03-03 09:16:18.025 - DDNS update for DELETE message of the resource record: curl.com. of RR type: NS with data: qaremote1.tcpwave.com. of zone: . has been published successfully to managed DNS appliance: qaremote3 IP: 10.1.8.245.</p> <p>2023-03-03 09:16:18.030 - Sending ActiveMQ zone: curl.com delete to Appliance: qaremote2</p> <p>2023-03-03 09:16:18.031 - Incremental update for the managed zone DELETE of name: curl.com has been published successfully to the managed DNS appliance: qaremote2.tcpwave.com., IP: 10.1.8.244</p> <p>2023-03-03 09:16:18.037 - Sending ActiveMQ zone: curl.com delete to Appliance: qaremote2 completed</p>

Workflow	Delete a Zone
	<p>2023-03-03 09:16:18.088 - DDNS update for DELETE message of the resource record: curl.com. of RR type: NS with data: qareMOTE2.tcpwave.com. of zone: . has been published successfully to managed DNS appliance: qareMOTE3 IP: 10.1.8.245.</p> <p>2023-03-03 09:16:18.094 - Scheduling next DNSSEC key rollover TimerTask.</p> <p>2023-03-03 09:16:18.094 - Next DNSSEC key rollover Time: 2023-05-13 03:47:22.0, Type: ZSK, Zonename: classmate.com, Organization: Internal</p> <p>2023-03-03 09:16:18.115 - Scheduling next DNSSEC key rollover TimerTask.</p> <p>2023-03-03 09:16:18.115 - Next DNSSEC key rollover Time: 2023-05-13 03:47:22.0, Type: ZSK, Zonename: classmate.com, Organization: Internal</p> <p>2023-03-03 09:16:18.120 - Refreshing Zone and Reverse Zone Caches.</p> <p>2023-03-03 09:16:18.127 - Adding Organization to Zone Map: ORG</p> <p>2023-03-03 09:16:18.128 - Adding Organization to Subnet Map: ORG</p> <p>2023-03-03 09:16:18.128 - Adding Organization to Network Map: External</p> <p>2023-03-03 09:16:18.128 - Adding Organization to Zone Map: External</p> <p>2023-03-03 09:16:18.128 - Adding Organization to Subnet Map: External</p> <p>2023-03-03 09:16:18.129 - Adding Organization to Network Map: QAOrg</p> <p>2023-03-03 09:16:18.129 - Adding Organization to Zone Map: QAOrg</p> <p>2023-03-03 09:16:18.129 - Adding Organization to Subnet Map: QAOrg</p> <p>2023-03-03 09:16:18.129 - A zone curl.com associated with the organization Internal has been deleted successfully.</p>

Conclusion

Leverage TCPWave's automated DDI workflow management for an increased efficiency and decreased human errors. For a quick demo, contact the [TCPWave Sales Team](#).