

# SOAP API

## Introduction

This document describes the Men & Mice web service API. The SOAP interface was introduced in Version 6.2 of the Men & Mice Suite. The web service allows administrators and software developers to create custom scripts and applications on top of the Men & Mice suite to manage DNS, DHCP and IP address infrastructures of all sizes. Most features available in the Men & Mice suite are available through the web service interface.

The web service can be used to perform tasks such as:

- Configure and work with Bind, Microsoft and Unbound DNS servers
- Work with DNS zones and records
- Configure ISC and Microsoft DHCP servers
- Work with DHCP scopes, pools and reservations
- IP address management (IPAM)
- and much more

Version 7.1 contains several new commands and some commands and object types have been modified. A list of new commands and changes to existing commands and object types can be found in the section [API Change Log](#).

**Important:** Version 7.1 of the Men & Mice Suite contains changes to both commands and object types. If you are using the SOAP interface for Version 6.3, we strongly recommend that you review the [API Change Log](#) for information on these changes.

## On-line SOAP Documentation

Starting with Version 6.3.1, the SOAP command reference URL can be viewed on-line directly from Men & Mice Central. The SOAP documentation URL is:

<http://api.menandmice.com/>

OR

[http://service\\_hostname/menandmice/soapdoc.htm](http://service_hostname/menandmice/soapdoc.htm)

- **service\_hostname** is the fully qualified domain name of the web server that is running the Men and Mice Web Interface (and the SOAP service).

This assumes the default port 80 for the Web Interface and that Men and Mice Central is running on the same machine as the *service\_hostname*. If that is not the case, replace "localhost" with the address of M&M Central in the forwarded URL.

## Code Examples

The Men & Mice knowledgebase contains a demonstration of the usage of many of the SOAP commands using PowerShell, Python and Perl. It also includes custom-built wrappers/classes to greatly ease the interaction of those scripting languages with the M&M SOAP API. To view these examples, look at <http://kb.menandmice.com> using the keyword "SOAP".

The document starts with a general description of how to use the web service, followed by a more detailed description for different data types and methods in the API.

## Men & Mice SOAP API

### Table of contents

- General
  - [Authorization](#)
  - [Error handling](#)
  - [Referencing objects](#)
  - [Filtering](#)
- Types
  - [ADForest](#)
  - [ADReplicationType](#)
  - [ADSite](#)
  - [ADSiteLink](#)
  - [AWSCloudServiceInfo](#)
  - [AWSLogin](#)

- AccessEntry
- AccessType
- Address
- AddressBlock
- AddressSpace
- AddressUtilizationHistory
- AddressUtilizationHistorySeries
- AddressUtilizationRecent
- AddressUtilizationRecentSeries
- AkamaiLogin
- ApplianceState
- AuthenticationType
- AwsAccountSubscriptionDetails
- AzureCloudServiceInfo
- AzureLogin
- CachedDNSEntry
- ChangeRequest
- ChangeRequestState
- ChangeRequestType
- ChangeType
- CloudAccountSubscription
- CloudAccountSubscriptionDetails
- CloudDeviceInfo
- CloudNetwork
- CloudService
- CloudServiceAccount
- CloudServiceConfiguration
- CloudServiceInfo
- CloudSubnet
- CloudTag
- CloudType
- CustomFilter
- CustomPropertyChange
- DHCPScopeOptionsReportEntry
- DHCPAddressPool
- DHCPAddressPoolChange
- DHCPAddressPoolPermit
- DHCPAddressPoolPermitType
- DHCPConcurrentLease
- DHCPExclusion
- DHCPExclusionChange
- DHCPFailoverDeconfigureAction
- DHCPFailoverMode
- DHCPFailoverRelationship
- DHCPFailoverServerType
- DHCPGroup
- DHCPLease
- DHCPLeaseField
- DHCPLeaseHistoryEntry
- DHCPLeaseReference
- DHCPOption
- DHCPOptionChange
- DHCPOptionClass
- DHCPOptionDefinition
- DHCPPolicy
- DHCPPolicyComparisonType
- DHCPPolicyCondition
- DHCPPolicyConditionType
- DHCPPolicyDDNSSettings
- DHCPPolicyLeaseDuration
- DHCPPolicyLeaseDurationType
- DHCPPolicyLogicalOperator
- DHCPPolicyRange
- DHCPRefAndFailoverRelationshipName
- DHCPReservation
- DHCPReservationChange
- DHCPReservationMethod
- DHCPReservationType
- DHCPScope
- DHCPScopeChange
- DHCPScopeOptionsReportType
- DHCPScopeReconcileEntry

- DHCPScopeReconcileFlag
- DHCPServer
- DHCPServerSecurity
- DHCPServerState
- DHCPServerType
- DNSCache
- DNSGenerateDirective
- DNSHost
- DNSRecord
- DNSRecordChange
- DNSRecordChangeRequest
- DNSRecordChangeType
- DNSRecordType
- DNSServer
- DNSServerState
- DNSServerSubtype
- DNSServerType
- DNSView
- DNSZone
- DNSZoneChange
- DNSZoneType
- DateTime
- Device
- Discovery
- DynLogin
- Event
- EventType
- FieldDefinition
- FieldType
- Folder
- Group
- HasAccessEntry
- HexStr
- HostDiscoveryReportEntry
- HostDiscoveryType
- IPAMRecord
- IPAMRecord2
- IPAMRecordState
- IPAddress
- IPAddressDiscoveryType
- IOrHostname
- IdentityAccess
- Interface
- LoginInformation
- MergeAddressSpacesReportConflictType
- MergeAddressSpacesReportEntry
- MultiLabelHostReportEntry
- NS1Login
- NetworkDiscoveryInfo
- ObjRef
- Object
- ObjectAccess
- ObjectError
- ObjectType
- OpenStackLogin
- PTRStatus
- Property
- PropertyDefinition
- PropertyType
- Range
- RangeWithStatistics
- Region
- Report
- ReportCategory
- ReportContentType
- ReportDefinition
- ReportOutput
- ReportSource
- ReportType
- ResourceGroup
- Role
- Schedule

- ServiceStatus
- SortOrder
- SourcedDHCPOptions
- SubdomainHandling
- Suggestion
- SystemSetting
- TimeUnit
- TransportProtocol
- User
- ZoneSet
- ZoneSets
- Commands
  - AddADForest
  - AddADSite
  - AddADSiteLink
  - AddAddressSpace
  - AddChangeRequest
  - AddCloudNetwork
  - AddCloudServiceAccount
  - AddDHCPAddressPool
  - AddDHCPExclusion
  - AddDHCPFailoverRelationship
  - AddDHCPGroup
  - AddDHCPOptionDefinition
  - AddDHCPPolicy
  - AddDHCPReservation
  - AddDHCPScope
  - AddDHCPScopesToDHCPFailoverRelationship
  - AddDHCPServer
  - AddDNSGenerateDirective
  - AddDNSRecord
  - AddDNSRecordChangeRequest
  - AddDNSRecords
  - AddDNSServer
  - AddDNSZone
  - AddDNSZones
  - AddDevice
  - AddFolder
  - AddGroup
  - AddInterface
  - AddLicenseKey
  - AddPropertyDefinition
  - AddRange
  - AddRole
  - AddRoleToGroup
  - AddRoleToUser
  - AddUser
  - AddUserToGroup
  - ApproveChanges
  - ApproveDNSRecordChanges
  - FlushFromCacheOnDNSServers
  - GenerateReverseRecords
  - GetADForest
  - GetADForests
  - GetADPartitions
  - GetADSite
  - GetADSiteLink
  - GetADSiteLinks
  - GetADSites
  - GetAddressBlocks
  - GetAddressSpace
  - GetAddressSpaces
  - GetAddressesInUse
  - GetAvailableAddressBlocks
  - GetChangeRequest
  - GetChangeRequests
  - GetCloudNetwork
  - GetCloudNetworks
  - GetCloudServiceAccount
  - GetCloudServiceAccounts
  - GetCloudServiceInfo
  - GetCurrentAddressSpace

- GetCustomFilters
- GetDHCPAddressPool
- GetDHCPAddressPoolPermitList
- GetDHCPAddressPools
- GetDHCPClassNames
- GetDHCPConcurrentLeases
- GetDHCPExclusion
- GetDHCPExclusions
- GetDHCPFailoverRelationship
- GetDHCPFailoverRelationships
- GetDHCPGroup
- GetDHCPGroups
- GetDHCPLeaseHistory
- GetDHCPLeases
- GetDHCPOptionDefinitions
- GetDHCPOptions
- GetDHCPPolicies
- GetDHCPPolicyEnforcement
- GetDHCPReservation
- GetDHCPReservations
- GetDHCPScope
- GetDHCPScopes
- GetDHCPServer
- GetDHCPServers
- GetDHCPSubclasses
- GetDHCPVendorAndUserClasses
- GetDNSGenerateDirective
- GetDNSGenerateDirectives
- GetDNSPTRRecords
- GetDNSRecord
- GetDNSRecordChangeRequest
- GetDNSRecordChangeRequests
- GetDNSRecords
- GetDNSRecordsInCaches
- GetDNSReverseZone
- GetDNSServer
- GetDNSServers
- GetDNSView
- GetDNSViews
- GetDNSZone
- GetDNSZones
- GetDevice
- GetDevices
- GetFolder
- GetFolderForObject
- GetFolders
- GetGroup
- GetGroups
- GetHistory
- GetIPAMRecord
- GetIPAMRecords
- GetInheritAccess
- GetInheritedDHCPOptions
- GetInterface
- GetInterfaces
- GetNextFreeAddress
- GetNextFreeReservationAddress
- GetObjectAccess
- GetObjects
- GetObjectsInFolder
- GetOrphanReverseDNSRecords
- GetProperties
- GetPropertyDefinition
- GetPropertyDefinitions
- GetRange
- GetRangeByIPAddress
- GetRangeDiscovery
- GetRangeStatistics
- GetRanges
- GetRangesWithStatistics
- GetRelatedDNSRecords
- GetRole

- GetRoles
- GetRoutersForRange
- GetServiceStatus
- GetSubranges
- GetSystemSettings
- GetUser
- GetUsers
- HasAccess
- JoinRanges
- Login
- Logout
- MigrateDNSZone
- ModifyDHCPFailoverRelationship
- ModifyDHCPOptionDefinition
- ModifyDHCPPolicy
- ModifyPropertyDefinition
- MoveIPAMRecord
- MoveToAddressSpace
- Ping
- PlaceInADSite
- PlaceInCloudNetwork
- PlaceInFolder
- PromoteDNSSlaveZone
- ReconcileDHCPscope
- RejectChanges
- RejectDNSRecordChanges
- ReleaseDHCPLease
- ReleaseDHCPLeases
- RemoveDHCPFailoverRelationships
- RemoveDHCPOptionDefinition
- RemoveDHCPPolicy
- RemoveDHCPScopesFromDHCPFailoverRelationship
- RemoveFromADSite
- RemoveFromCloudNetwork
- RemoveFromFolder
- RemoveObject
- RemoveObjects
- RemovePropertyDefinition
- RemoveRoleFromGroup
- RemoveRoleFromUser
- RemoveUserFromGroup
- ReplicateDHCPFailover
- ReportAccess
- ReportDHCPscopeOptions
- ReportHostDiscovery
- ReportIPFromClientIdentifier
- ReportMergeAddressSpaces
- ReportMultilabelHosts
- RunCommand
- SendMail
- SetCurrentAddressSpace
- SetDHCPAddressPoolPermitList
- SetDHCPOptions
- SetDHCPPolicyEnforcement
- SetDHCPSubclasses
- SetDNSRecordAging
- SetIPAMRecord
- SetInheritAccess
- SetObjectAccess
- SetPassword
- SetProperties
- SetRangeDiscovery
- SetRoutersForRange
- SetServiceStatus
- SetSystemSettings
- SplitRange

## General

Many Men & Mice Central properties and methods are available through Simple Object Access Protocol (SOAP) commands. You can use the following URL to retrieve a list of supported SOAP services and WSDL (Web Services Definition Language):

**Windows:**

http://service\_hostname:port/\_mmwebext/mmwebext.dll?WSDL?server=mmcentral\_server\_hostname

**Unix:**

http://service\_hostname:port/Soap?WSDL?server=mmcentral\_server\_hostname

- **service\_hostname** is the fully qualified domain name of the web server that is running the SOAP service.
- **mmcentral\_server\_hostname** is the fully qualified domain name of the server that is running Men & Mice Central.
- **port** is the port number to use for the web server that is running the SOAP service. The default port number is 80.

## Authorization

To run the SOAP commands, you must have the required access rights. You must be granted access to the Men & Mice Web interface to be able to use any of the SOAP commands.

## Error handling

If an error occurs when performing an action (for example if referring to a non-existing object or when trying to perform an action on an object without sufficient access privileges) an error message is returned. The error message uses the SOAP Fault message format. For further information see:

[http://www.w3schools.com/SOAP/soap\\_fault.asp](http://www.w3schools.com/SOAP/soap_fault.asp)

## Referencing objects

All objects in the Men & Mice Suite have a reference ID, ref, of type ObjRef. The reference is an ID that uniquely identifies an object in the Men & Mice Suite and is used to identify the object to be worked on.

A reference can either be a globally unique identifier (GUID), returned by the M&M Suite, or an object name. All functions in the SOAP interface try to resolve the reference intelligently, based on context. Functions working on more than one object type have an optional ObjType parameter that can be specified when an object is referenced by name, but which is not needed when a GUID is passed to them.

Since object names are not guaranteed to be unique, using GUIDs is the only way to guarantee that the M&M Suite will find the object. If more than one object have the same name, using that name as an object reference will cause an error.

**Example:**

```
uint count = 0;
MMSOAP.Property[] props;

// This will fail because GetProperties() does not know the type of "my.zone."
props = mmSoap.GetProperties(mySession, "my.zone.", MMSOAP.ObjectType.Unknown, false, false, false);

// This will fail if there are multiple zones with the name "my.zone."
props = mmSoap.GetProperties(mySession, "my.zone.", ObjectType.DNSZone, true, false, false);

// This will select the first instance of "my.zone." to work on
MMSOAP.DNSZone[] zones = mmSoap.GetDNSZones(mySession, "name:my.zone.", 0, false, 0, false, "name",
MMSOAP.SortOrder.Ascending, true, out count);
props = mmSoap.GetProperties(mySession, zones[0].@ref, MMSOAP.ObjectType.Unknown, false, false, false);
```

For object types where the "name" element can be non-unique, if a command is called giving an object reference, which is a non-unique name, an exception is thrown stating that the specified reference matches multiple objects.

But even for (some of) these object types, there is a way to reference objects with non-unique names:

- For zones, the reference can be in the format  
[[servername:]viewname:]zonename
  - For scopes, the reference can be in the format  
[servername:]scopename
- or
- For views, the reference can be in the format  
[servername:]viewname

For example, to delete a zone called test.com. from the default view on server dns1.com:

```
<RemoveObject>
  <ref>dns1.com.::test.com.</ref>
  <objType>DNSZone</objType>
</RemoveObject>
```

## Filtering

The filter is a powerful argument that can be provided with many of the get methods. It allows you to limit the result to only those items you want to retrieve. You can use different kinds of operators, wildcards and regular expressions in a filter.

As of version 9.1 a new, highly optimized and user friendly, filter syntax was added. Before that version, the Men & Mice Suite had a filter syntax that mainly focused on regular expressions and only had a limited set of operators (i.e. metric operators >, =, <). Using operators can come really handy when you are trying to limit your result on properties rather than plain strings. Even though the new filter syntax has been introduced, the old filter syntax can still be used for backwards compatibility.

### List of operators and meaning:

operator	meaning
!=	Not equal
=@	Contains
!@	Does not contain
=^	Starts with
!^	Does not start with
=\$	Ends with
!\$	Does not end with
~=	Contains regular expression
!~	Does not contain a regular expression
in (v1, v2, ...)	Equal to any of the values
>, >=, <, <=	

Special keywords: AND, OR, NOT, ! (Note that special keywords can be in either uppercase or lowercase).

### Examples of how the filters can be used:

Return all items that contain the string "mycorp" in any property:

```
mycorp
```

Return all items that contain the string "mycorp" in the property "name":

```
name=@mycorp
```

Return all items that have the property "name" starting with "mycorp":

```
name=^mycorp
```

Return all items that do not have the property "name" ending with "mycorp":

```
name!$mycorp
```

If the text must contain whitespace, it must be quoted so to find all items not starting with "requested by" on the property "comment":

```
comment!^"requested by"
```

The same applies if the property name contains whitespace, so to filter by string "mycorp" on property "Company Name":

```
"Company Name"=@mycorp
```

To combine more than one filter clause together you can use the keywords: AND and OR. For example to find all A records with the name "rec":

```
type=A AND name=rec
```

You can use parentheses to enforce the precedence of operators. To search for all records with the name "rec" and of type A, AAAA or CNAME:

```
name=rec AND (type=A OR type=AAAA OR type=CNAME)
```

The in operator can be used as well to get the same result:

```
name=rec AND type in(A,AAAA,CNAME)
```

Get all IP ranges in the range 10.0.0.0 - 10.10.255.255:

```
from >= 10.0.0.0 and to <= 10.10.255.255
```

Time and date can be expressed in multiple ways. You can use the Internet date and time format (RFC 3339), i.e. "2018-12-01T17:18:19" or you can use date and time expression relative to current date and time, i.e. "-1w" means the date and time one week ago.

Relative date and time should be on the following form:

```
-|+ <number><time unit>
```

where <number> is any number and <time unit> can be any of the following: s (seconds), m (minutes), h (hours), d (days), w (weeks), M (months), y (years).

As an example of how to use date and time to get all IP ranges that were created after 2018-01-01 use:

```
created <= "2018-01-01T00:00:00"
```

To get all ranges created in the last month use:

```
created <= -1M
```



# Types

## ADForest

Contains all properties for an AD Forest object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	No	No	The name of the AD Forest.
catalogServer	string	No	Yes	Global catalog server to which the Men & Mice Suite connects for retrieving sites and subnets.
userName	string	No	Yes	User name used when connecting to the global catalog server.
password	string	No	Yes	Password used when connecting to the global catalog server.
readOnly	boolean	No	No	Determines if the forest is read-only.

## ArrayOfADForest

### Elements

- [ADForest](#) adForest

## ADReplicationType

Defines possible replication types for an AD integrated zone.

### Enumerations

Name	Description
None	No replication.
To_All_DNS_Servers_In_AD_Forrest	Replicate to all DNS servers in an AD forest.
To_All_DNS_Servers_In_AD_Domain	Replicate to all DNS servers in an AD domain.
To_All_Domain_Controllers_In_AD_Domain	Replicate to all domain controllers in an AD domain.
To_All_Domain_Controllers_In_Specified_Partition	Replicate to all domain controllers in a specified partition.
Unavailable	Replication is unavailable.

## ADSite

Contains all properties for an AD Site object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the AD Site.
description	string	Yes	Yes	A description of the AD Site.
location	string	Yes	Yes	The location of the AD Site.
adForestRef	<a href="#">ObjRef</a>	Yes	No	A reference to the AD Forest to which the AD Site belongs.

## ArrayOfADSite

## Elements

- [ADSite](#) adSite

## ADSiteLink

Contains all properties for an AD Site Link object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the AD Site Link.
description	string	No	Yes	A description of the AD Site Link.
cost	unsignedInt	No	No	A metric used by AD to determine which site links have precedent over other site links.
replInterval	unsignedInt	No	No	Replication interval. Defines the interval (in minutes) between performing AD replications.
siteList	ArrayOfString	No	Yes	List of AD Sites that this Site Link links together.
adForestRef	<a href="#">ObjRef</a>	Yes	No	A reference to the AD Forest to which the AD Site Link belongs.

## ArrayOfADSiteLink

### Elements

- [ADSiteLink](#) adSiteLink

## AWSCloudServiceInfo

Contains information about a AWS cloud service account.

### Elements

Name	Type	Required	Nullable	Description
regions	<a href="#">ArrayOfRegion</a>	Yes	No	Resource groups within the cloud service account.

## AWSLogin

Contains all information needed to log into an AWS account.

### Elements

Name	Type	Required	Nullable	Description
accessKeyID	string	Yes	Yes	Access Key ID for the AWS account to log into.
secretAccessKey	string	Yes	Yes	Secret access key for the AWS account to log into.

## AccessEntry

Contains the name and setting for an access entry relevant to an object.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the access entry.
access	<a href="#">AccessType</a>	Yes	No	The setting for the access entry.

## ArrayOfAccessEntry

### Elements

- [AccessEntry](#) accessEntry

## AccessType

Defines possible access for an object property.

### Enumerations

Name	Description
Unspecified	No access specified.
Allow	Allow access.
Deny	Deny access.

## Address

Contains all properties for an address.

### Elements

Name	Type	Required	Nullable	Description
id	unsignedInt	Yes	No	Unique identifier for the address.
address	string	Yes	No	The address.
claimed	boolean	Yes	No	Determines whether the address is claimed.
host	string	Yes	Yes	Comma separated list of fully qualified DNS host names associated with the address.
lastseen	unsignedInt	Yes	No	Timestamp when the address was last seen during discovery (ping).
lastdiscovery	unsignedInt	Yes	No	Timestamp when discovery (ping) was last performed for the address.
customProperties	<a href="#">ArrayOfProperty</a>	Yes	Yes	The custom properties for the address.

## ArrayOfAddress

### Elements

- [Address](#) address

## AddressBlock

Contains all properties for an address block.

### Elements

Name	Type	Required	Nullable	Description
from	<a href="#">IPAddress</a>	Yes	No	The starting IP address of the address block.

to [IPAddress](#) Yes No The ending IP address of the address block.

## ArrayOfAddressBlock

### Elements

- [AddressBlock](#) addressBlock

## AddressSpace

Contains all properties for an address space object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the address space.
description	string	No	Yes	A description of the address space.

## ArrayOfAddressSpace

### Elements

- [AddressSpace](#) addressSpace

## AddressUtilizationHistory

Address utilization data that has been aggregated by date.

### Elements

Name	Type	Required	Nullable	Description
timestamp	unsignedInt	Yes	No	Timestamp that includes the date aggregated by.
measurecount	unsignedInt	Yes	No	The number of measurements that were aggregated.
mean	unsignedInt	Yes	No	The mean of aggregated numbers.
max	unsignedInt	Yes	No	The max of aggregated numbers.
min	unsignedInt	Yes	No	The min of aggregated numbers.

## AddressUtilizationHistorySeries

Contains address utilization data that has been aggregated as part of history calculations.

### Elements

Name	Type	Required	Nullable	Description
isdynamic	unsignedInt	Yes	No	States if the data is for the static or dynamic part of an address range.
size	unsignedInt	Yes	No	Total number of addresses for the requested address range.
availableAddresses	unsignedInt	Yes	No	Number of available addresses within an address range.

addressUtilizationHistory	<a href="#">AddressUtilizationHistory</a>	No	No	Address utilization data aggregated by date.
---------------------------	---	----	----	--

## AddressUtilizationRecent

Address utilization measurement.

### Elements

Name	Type	Required	Nilable	Description
timestamp	unsignedInt	Yes	No	Timestamp that signals when the measurements were taken.
value	unsignedInt	Yes	No	The number of addresses in use.

## AddressUtilizationRecentSeries

Contains recent address utilization data which gives information about each measurement made, these numbers will be aggregated together at a certain age for space saving reasons.

### Elements

Name	Type	Required	Nilable	Description
isdynamic	unsignedInt	Yes	No	States if the data is for the static or dynamic part of an address range.
size	unsignedInt	Yes	No	Total number of addresses for the requested address range.
availableAddresses	unsignedInt	Yes	No	Number of available addresses within an address range.
addressUtilizationRecent	<a href="#">AddressUtilizationRecent</a>	No	No	Address utilization measurement.

## AkamaiLogin

Contains all information needed to log into a Akamai account.

### Elements

Name	Type	Required	Nilable	Description
host	string	Yes	No	The base hostname (without scheme) for the Akamai account to log into.
clientToken	string	Yes	No	Client Token for the Akamai account to log into.
clientSecret	string	Yes	No	Client Secret for the Akamai account to log into.
accessToken	string	Yes	No	Access Token for the Akamai account to log into.
zonesList	ArrayOfString	No	Yes	List of Zones from Akamai Fast DNS to be included.

## ApplianceState

Defines possible Appliance states.

### Enumerations

Name	Description
Unknown	Unknown appliance state.
OK	Appliance is OK.
Unreachable	Appliance is offline or otherwise unreachable.

Out of date  
Wrong type  
Updating  
Service Down

Appliance has a different version than Central.  
Appliance is of a wrong type.  
Appliance is being updated.  
Appliance is down and not responding.

## AuthenticationType

Defines possible authentication types for a user that is logging in.

### Enumerations

#### Name

Internal  
AD  
ADGroup  
RADIUS

#### Description

Internal authentication.  
Active Directory authentication.  
Active Directory group-level authentication.  
RADIUS authentication.

## AwsAccountSubscriptionDetails

Contains further information about an AWS accountSubscription.

### Elements

Name	Type	Required	Nilable	Description
alias	string	Yes	No	The account alias of the AWS accountSubscription
regions	ArrayOfString	No	Yes	Regions/locations in the accountSubscription.

## AzureCloudServiceInfo

Contains information about a Azure cloud service account.

### Elements

Name	Type	Required	Nilable	Description
resourceGroups	ArrayOfResourceGroup	Yes	No	Resource groups within the cloud service account.

## AzureLogin

Contains all information needed to log into an Azure account.

### Elements

Name	Type	Required	Nilable	Description
subscriptionID	string	Yes	No	Subscription ID for the Azure account to log into.
tenantID	string	Yes	No	Tenant ID for the Azure account to log into.
clientID	string	Yes	Yes	Client ID for the Azure account to log into.
clientSecret	string	Yes	No	Client secret for the Azure account to log into.

## CachedDNSEntry

Contains an entry from a DNS cache.

### Elements

Name	Type	Required	Nilable	Description
name	string	Yes	No	The name of the DNS record.

data	string	Yes	No	Contains the record data in a tab-separated list.
type	DNSRecordType	Yes	No	Specifies the type of the DNS record.
ttl	string	Yes	No	Specifies the Time-To-Live of the DNS record.
aging	unsignedInt	No	No	The aging timestamp of dynamic records in AD integrated zones.
negative	boolean	No	No	True if the cache entry is a negative cache entry.

## ArrayOfCachedDNSEntry

### Elements

- [CachedDNSEntry](#) cachedDNSEntry

## ChangeRequest

Contains all properties for a change request object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
requester	string	Yes	No	The name of the user that made the change request.
state	<a href="#">ChangeRequestState</a>	Yes	No	The state of the change request.
objType	<a href="#">ChangeRequestType</a>	Yes	No	The type of change request being requested.
creationDate	<a href="#">DateTime</a>	Yes	No	The date and time, when the change request was created.
requestDate	<a href="#">DateTime</a>	No	No	The date and time, when the change request should be applied, if specified.
customProperties	<a href="#">ArrayOfProperty</a>	Yes	Yes	The custom properties for the change request.
saveComment	string	Yes	Yes	Save comment text to associate with the action.
processedDate	<a href="#">DateTime</a>	No	No	The date and time, when the change request was approved or rejected.
dnsZoneChanges	<a href="#">ArrayOfDNSZoneChange</a>	No	No	DNS zone changes associated with the change request.
dnsRecordChanges	<a href="#">ArrayOfDNSRecordChange</a>	No	No	DNS record changes associated with the change request.
dhcpScopeChanges	<a href="#">ArrayOfDHCPScopeChange</a>	No	No	DHCP scope changes associated with the change request.
dhcpReservationChanges	<a href="#">ArrayOfDHCPReservationChange</a>	No	No	DHCP reservation changes associated with the change request.
dhcpExclusionChanges	<a href="#">ArrayOfDHCPExclusionChange</a>	No	No	DHCP exclusion changes associated with the change request.
dhcpAddressPoolChanges	<a href="#">ArrayOfDHCPAddressPoolChange</a>	No	No	DHCP address pool changes associated with the change request.
dhcpOptionChanges	<a href="#">ArrayOfDHCPOptionChange</a>	No	No	DHCP option changes associated with the change request.

customPropertyChanges	ArrayOfCustomPropertyChange	No	No	request. CustomProperty changes associated with the change request.
-----------------------	-----------------------------	----	----	--

## ArrayOfChangeRequest

### Elements

- [ChangeRequest](#) changeRequest

## ChangeRequestState

Defines possible change request states.

### Enumerations

#### Name

Pending  
Approved  
Rejected  
Applied  
Failed

#### Description

Pending approval/rejection.  
Approved, waiting to be applied.  
Rejected.  
Applied.  
Failed to be applied.

## ChangeRequestType

Defines possible change request types.

### Enumerations

#### Name

Unknown  
DNSZone  
DHCPScope  
DHCPReservation  
DHCPAddressPool  
DNSRecord  
DHCPExclusion  
DHCPOption  
CustomProperties

#### Description

Unknown change request type.  
DNS zone change request.  
DHCP scope change request.  
DHCP reservation change request.  
DHCP address pool change request.  
DNS resource record change request.  
DHCP exclusion change request.  
DHCP option change request.  
custom properties change request.

## ArrayOfChangeRequestType

### Elements

- [ObjectType](#) changeRequestType

## ChangeType

Defines possible change types.

### Enumerations

#### Name

Add  
Modify  
Remove

#### Description

Add.  
Modify.  
Remove.

## CloudAccountSubscription

Contains properties for a CloudAccountSubscription object



## Elements

Name	Type	Required	Nilable	Description
ref	<a href="#">ObjRef</a>	Yes	No	A unique reference ID for the object.
cloudServiceRef	<a href="#">ObjRef</a>	Yes	No	A unique reference ID for the accountSubscription's Cloud Service.
name	string	Yes	No	The name of the CloudAccountSubscription.
identifier	string	Yes	Yes	The identifier of the CloudAccountSubscription that originates from the cloud provider.
accountSubscriptionDetails	<a href="#">CloudAccountSubscriptionDetails</a>	No	Yes	Further details about a CloudAccountSubscription.
dnsServerRef	<a href="#">ObjRef</a>	No	Yes	A unique reference to the accountSubscription's DNS server.
customProperties	<a href="#">ArrayOfProperty</a>	No	Yes	The custom properties for the CloudAccountSubscription.

## ArrayOfCloudAccountSubscription

### Elements

- [CloudAccountSubscription](#) cloudAccountSubscription

## CloudAccountSubscriptionDetails

Further details about a CloudAccountSubscription.

### Elements

Name	Type	Required	Nilable	Description
awsDetails	<a href="#">AwsAccountSubscriptionDetails</a>	No	Yes	Contains further information about an AWS accountSubscription.

## CloudDeviceInfo

Contains all properties for a device as supplied by the cloud provider.

### Elements

Name	Type	Required	Nilable	Description
state	string	No	Yes	The state of the cloud device as reported by the cloud provider.
platform	string	No	Yes	The cloud device platform as reported by the cloud provider.
privateDNSName	string	No	Yes	The private DNS name of a cloud device as provided by the cloud provider.
publicIPAddress	<a href="#">IPAddress</a>	No	Yes	The public IP address of a cloud device as provided by the cloud provider.

## CloudNetwork

Contains all properties for a virtual cloud network object.

### Elements

Name	Type	Required	Nullable	Description
ref	ObjRef	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the cloud network.
cloudRef	ObjRef	Yes	No	Reference for the cloud service account to which the cloud network belongs.
resourceGroup	string	No	Yes	The resource group for the network to reside in. Applies only to Azure.
region	string	No	Yes	Region or location for the network to be placed in.
addressBlocks	ArrayOfCIDR	No	Yes	The address blocks for the network in CIDR notation.
customProperties	ArrayOfProperty	No	Yes	The custom properties for the cloud network.

## ArrayOfCloudNetwork

### Elements

- [CloudNetwork](#) cloudNetwork

## CloudService

Contains properties for a Cloud Service object

### Elements

Name	Type	Required	Nullable	Description
ref	ObjRef	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the Cloud Service.
type	CloudType	Yes	No	The type of the Cloud Service.
loginInformation	LoginInformation	Yes	No	Information used to log into the cloud service.
dnsEnabled	boolean	Yes	No	True if DNS is enabled for the Cloud Service
ipamEnabled	boolean	Yes	No	True if IPAM is enabled for the Cloud Service

## ArrayOfCloudService

### Elements

- [CloudService](#) cloudService

## CloudServiceAccount

Contains all properties needed for a cloud service account.

### Elements

Name	Type	Required	Nullable	Description
ref	ObjRef	No	No	A unique reference ID for the object.
name	string	Yes	No	A name for the cloud service account.
type	CloudType	Yes	No	The type of cloud service.
resourceGroups	ArrayOfString	No	Yes	Resource groups in the cloud service.

regions	ArrayOfString	No	Yes	Regions/locations in the cloud service. Information needed logging into the cloud service. Controls how the cloud service account is integrated into the Men & Mice Suite. The custom properties for the cloud account.
loginInformation	LoginInformation	Yes	No	
configuration	CloudServiceConfiguration	No	No	
customProperties	ArrayOfProperty	No	Yes	

## ArrayOfCloudServiceAccount

### Elements

- [CloudServiceAccount](#) cloudServiceAccount

## CloudServiceConfiguration

Defines how the Men & Mice suite connects to a cloud service.

### Elements

Name	Type	Required	Nullable	Description
enableIPAM	boolean	No	No	Synchronize virtual networks and subnets, when applicable.
enableDNS	boolean	No	No	Synchronize DNS service, when applicable.
dnsServerRef	<a href="#">ObjRef</a>	No	Yes	Reference to DNS service in cloud.

## CloudServiceInfo

Contains information about the cloud service account.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the cloud service account.
awsCloudServiceInfo	<a href="#">AWSCloudServiceInfo</a>	No	Yes	Contains information about a AWS cloud service account.
azureCloudServiceInfo	<a href="#">AzureCloudServiceInfo</a>	No	Yes	Contains information about a Azure cloud service account.

## CloudSubnet

Contains all properties for a cloud subnet associated with a range.

### Elements

Name	Type	Required	Nullable	Description
rangeRef	<a href="#">ObjRef</a>	Yes	No	Reference to the address range associated with the cloud subnet.
allocationPools	<a href="#">ArrayOfAddressBlock</a>	No	Yes	Specifies addresses in subnet which should be available for dynamic allocation. If omitted/empty when placing subnet in cloud network, defaults to all addresses in subnet.

## ArrayOfCloudSubnet

### Elements

- [CloudSubnet](#) cloudSubnet

## CloudTag

Contains a reference to a cloud tag.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the tag.
cloudRef	<a href="#">ObjRef</a>	Yes	No	The cloud account ID

## ArrayOfCloudTag

### Elements

- [CloudTag](#) cloudTag

## CloudType

Defines possible cloud types.

### Enumerations

Name	Description
Unknown	Unknown cloud type.
OpenStack	OpenStack cloud.
CloudStack	CloudStack cloud.
Azure	Azure cloud.
AWS	AWS cloud.
NS1	NS1 cloud service.
Dyn	Dyn cloud service.
Akamai	Akamai cloud service.

## CustomFilter

Contains all properties for a custom filter object.

### Elements

Name	Type	Required	Nullable	Description
id	unsignedInt	No	No	A unique ID for the object.
type	unsignedInt	No	No	The object type for the filter.
name	string	Yes	No	The name of the filter.
filter	string	Yes	No	The filter string.
folderRef	string	No	Yes	If the filter is in a folder, then this is a valid folder reference. If the filter is not in a folder, then this is an empty string.
readOnly	boolean	Yes	No	True if the filter read only, else false.

## ArrayOfCustomFilter

### Elements

- [CustomFilter](#) filter

## CustomPropertyChange

Contains all properties for a custom property change object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	The object ref that the custom properties belong to.
type	<a href="#">ChangeType</a>	Yes	No	The type of the custom property change.
state	<a href="#">ChangeRequestState</a>	No	No	The state of the custom property change.
hasAccess	boolean	No	No	Specifies whether the user has access to approve/reject the custom property change.
objType	<a href="#">ObjectType</a>	No	No	The type of the object for which custom properties should be set.
customPropertiesBefore	<a href="#">ArrayOfProperty</a>	No	No	The custom properties as they were before the change (omitted when type is Add).
customPropertiesAfter	<a href="#">ArrayOfProperty</a>	No	No	The custom properties as they should be after change has been applied (omitted when type is Remove).

## ArrayOfCustomPropertyChange

### Elements

- [CustomPropertyChange](#) customPropertyChange

## DCHPScopeOptionsReportEntry

Contains information about DHCP scopes returned by DHCP scope options report.

### Elements

Name	Type	Required	Nullable	Description
dhcpServerName	string	Yes	No	The name of the DHCP server containing the DHCP scope.
dhcpScopeName	string	Yes	No	The name of the DHCP scope.
optionValue	string	Yes	Yes	The option value set for the DHCP scope.
inherited	boolean	Yes	No	Specifies whether the option value is inherited.

## ArrayOfDCHPScopeOptionsReportEntry

### Elements

- [DCHPScopeOptionsReportEntry](#) entry

## DHCPAddressPool

Contains all properties for a DHCP address pool object.

### Elements

Name	Type	Required	Nullable	Description
------	------	----------	----------	-------------

ref	ObjRef	No	No	A unique reference ID for the object.
name	string	No	No	The name of the DHCP address pool.
from	IPAddress	No	No	The start address of the DHCP address pool.
to	IPAddress	No	No	The end address of the DHCP address pool.
failoverPeer	string	No	No	The name of the failover peer if the address pool is on an ISC DHCP server with failover peer(s) defined.
failoverRelationship	string	No	No	The name of the failover relationship if the address pool is on an MS DHCP server with failover(s) defined. Read-only property.
dhcpScopeRef	ObjRef	Yes	No	A unique reference ID of the scope that contains the address pool.

## ArrayOfDHCPAddressPool

### Elements

- [DHCPAddressPool](#) dhcpAddressPool

## DHCPAddressPoolChange

Contains all properties for a DHCP address pool change object.

### Elements

Name	Type	Required	Nullable	Description
type	ChangeType	Yes	No	The type of the DHCP address pool change.
state	ChangeRequestState	No	No	The state of the DHCP address pool change.
hasAccess	boolean	No	No	Specifies whether the user has access to approve/reject the DHCP address pool change.
changeIndex	unsignedInt	No	No	The index of the DHCP address pool change within the change request which contains the DHCP address pool change.
dhcpAddressPoolBefore	DHCPAddressPool	No	No	The DHCP address pool as it was when the DHCP address pool change was made (omitted when type is Add).
dhcpAddressPoolAfter	DHCPAddressPool	No	No	The DHCP address pool as it should be after the DHCP address pool change has been applied (omitted when type is Remove).

## ArrayOfDHCPAddressPoolChange

### Elements

- [DHCPAddressPoolChange](#) dhcpAddressPoolChange

## DHCPAddressPoolPermit

Contains all properties for a DHCP address pool permit object.

## Elements

Name	Type	Required	Nullable	Description
permit	<a href="#">DHCPAddressPoolPermitType</a>	Yes	No	The DHCP address pool permit type.
access	<a href="#">AccessType</a>	Yes	No	The DHCP address pool access type.
className	string	No	No	The name of the DHCP class if permit type is <code>MembersOfDHCPClass</code> .

## ArrayOfDHCPAddressPoolPermit

### Elements

- [DHCPAddressPoolPermit](#) dhcpAddressPoolPermit

## DHCPAddressPoolPermitType

Defines the types of DHCP Address Pool permits.

### Enumerations

Name	Description
Unknown	Unknown DHCP address pool permit.
AllClients	DHCP address pool permit for all clients.
KnownClients	DHCP address pool permit for known clients.
UnknownClients	DHCP address pool permit for unknown clients.
DynamicBOOTPClients	DHCP address pool permit for dynamic BOOTP clients.
MembersOfDHCPClass	DHCP address pool permit for members of a DHCP class.

## DHCPConcurrentLease

Contains information about a concurrent lease.

### Elements

Name	Type	Required	Nullable	Description
dhcpServerRef	<a href="#">ObjRef</a>	Yes	No	Reference to the DHCP server containing the concurrent lease.
dhcpServerName	string	Yes	No	Name of the DHCP server containing the concurrent lease.
dhcpScopeRef	<a href="#">ObjRef</a>	Yes	No	Reference to the DHCP scope containing the concurrent lease.
dhcpScopeName	string	Yes	No	Name of the DHCP scope containing the concurrent lease.
name	string	Yes	Yes	Name of the concurrent lease.
type	string	Yes	Yes	Type of the concurrent lease.
mac	string	Yes	No	MAC address of the concurrent lease.
address	<a href="#">IPAddress</a>	Yes	No	IP address of the concurrent lease.
lease	string	Yes	No	Duration of the concurrent lease.
state	string	Yes	Yes	State of the concurrent lease.

## ArrayOfDHCPConcurrentLease

### Elements

- [DHCPConcurrentLease](#) dhcpConcurrentLease

## DHCPExclusion

Contains all properties for a DHCP exclusion object.

### Elements

Name	Type	Required	Nilable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	No	No	The name of the DHCP exclusion.
from	<a href="#">IPAddress</a>	No	No	The start address of the DHCP exclusion.
to	<a href="#">IPAddress</a>	No	No	The end address of the DHCP exclusion.
dhcpScopeRef	<a href="#">ObjRef</a>	Yes	No	A unique reference ID of the scope that contains the exclusion.

## ArrayOfDHCPExclusion

### Elements

- [DHCPExclusion](#) dhcpExclusion

## DHCPExclusionChange

Contains all properties for a DHCP exclusion change object.

### Elements

Name	Type	Required	Nilable	Description
type	<a href="#">ChangeType</a>	Yes	No	The type of the DHCP exclusion change.
state	<a href="#">ChangeRequestState</a>	No	No	The state of the DHCP exclusion change.
hasAccess	boolean	No	No	Specifies whether the user has access to approve/reject the DHCP exclusion change.
changeIndex	unsignedInt	No	No	The index of the DHCP exclusion change within the change request which contains the DHCP exclusion change.
dhcpExclusionBefore	<a href="#">DHCPExclusion</a>	No	No	The DHCP exclusion as it was when the DHCP exclusion change was made (omitted when type is Add).
dhcpExclusionAfter	<a href="#">DHCPExclusion</a>	No	No	The DHCP exclusion as it should be after the DHCP exclusion change has been applied (omitted when type is Remove).

## ArrayOfDHCPExclusionChange

### Elements



- [DHCPExclusionChange dhcpExclusionChange](#)

## DHCPFailoverDeconfigureAction

Defines possible actions when removing DHCP scopes from a failover relationship.

### Enumerations

Name	Description
None	No action.
Disable	Disable scopes.
Delete	Remove scopes.

## DHCPFailoverMode

Defines possible DHCP failover modes.

### Enumerations

Name	Description
LoadBalance	Load Balance.
HotStandby	Hot Standby.

## DHCPFailoverRelationship

Defines a DHCP failover relationship.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the DHCP failover relationship.
primaryServer	string	Yes	No	The primary DHCP server.
secondaryServer	string	Yes	No	The secondary DHCP server.
primaryServerRef	<a href="#">ObjRef</a>	No	Yes	An object reference for the primary DHCP server.
secondaryServerRef	<a href="#">ObjRef</a>	No	Yes	An object reference for the secondary DHCP server.
failoverMode	<a href="#">DHCPFailoverMode</a>	Yes	No	The DHCP failover mode to use.
failoverServerType	<a href="#">DHCPFailoverServerType</a>	Yes	No	A set of possible values for a DHCPv4 server in a failover relationship.
mclt	unsignedInt	Yes	No	Maximum client lead time in seconds.
safePeriod	unsignedInt	Yes	No	Safe period time in seconds, that the DHCPv4 server will wait before transitioning the server from the COMMUNICATION-INT state to PARTNER-DOWN.
dhcpScopeRefs	<a href="#">ArrayOfObjRef</a>	Yes	Yes	References to DHCP scopes that are associated with the failover relationship.
percentage	unsignedInt	Yes	No	Indicates the ratio of the DHCPv4 client load shared between a primary and secondary server in the failover relationship.
sharedSecret	string	No	No	The shared secret key associated with this failover relationship.
dhcpServerRef	<a href="#">ObjRef</a>	No	No	An object reference for the DHCP server.

## ArrayOfDHCPFailoverRelationship

### Elements

- [DHCPFailoverRelationship](#) dhcpFailoverRelationship

## DHCPFailoverServerType

Defines the types of DHCP Failover server.

### Enumerations

#### Name

PrimaryServer  
SecondaryServer

#### Description

The server is a primary server in the failover relationship.  
The server is a secondary server in the failover relationship.

## DHCPGroup

Contains all properties for a DHCP group object.

### Elements

Name	Type	Required	Nilable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the DHCP group.
parentRef	<a href="#">ObjRef</a>	No	No	An object reference to the parent group of the DHCP group.
ownerRef	<a href="#">ObjRef</a>	Yes	No	A reference to the owning object.

## ArrayOfDHCPGroup

### Elements

- [DHCPGroup](#) dhcpGroup

## DHCPLease

Contains all properties for a DHCP lease object.

### Elements

Name	Type	Required	Nilable	Description
name	string	Yes	Yes	The name of the lease.
type	string	No	No	The DHCP lease type.
mac	string	Yes	No	The MAC address of the host that holds the lease.
address	<a href="#">IPAddress</a>	Yes	No	The IP address of the lease.
lease	string	Yes	No	The expiration date for the lease.
state	string	Yes	Yes	The state of the lease.
dhcpScopeRef	<a href="#">ObjRef</a>	Yes	No	A unique reference ID of the scope that contains the lease.

## ArrayOfDHCPLease

### Elements

- [DHCPLease](#) dhcpLease

## DHCPLeaseField

Defines the fields of a DHCP lease.

### Enumerations

Name	Description
IPAddress	IP address field.
ClientIdentifier	Client identifier field.
ServerAddress	Server address field.
Hostname	Hostname field.
Description	Description field.

## DHCPLeaseHistoryEntry

Contains information about a DHCP lease.

### Elements

Name	Type	Required	Nullable	Description
serverAddress	string	Yes	No	The IP address of the server.
eventCode	string	Yes	Yes	Event code.
timestampfirst	<a href="#">DateTime</a>	Yes	Yes	First timestamp associated with the DHCP lease.
timestamplast	<a href="#">DateTime</a>	No	Yes	Last timestamp associated with the DHCP lease.
ipAddress	string	Yes	Yes	The IP address of the DHCP lease.
clientidentifier	string	Yes	Yes	The client identifier of the DHCP lease.
hostname	string	Yes	Yes	The hostname of the DHCP lease.
numberOfOccurrences	string	No	Yes	Number of occurrences of the DHCP lease.

## ArrayOfDHCPLeaseHistoryEntry

### Elements

- [DHCPLeaseHistoryEntry](#) dhcpLeaseHistoryEntry

## DHCPLeaseReference

Contains all properties for a DHCP lease.

### Elements

Name	Type	Required	Nullable	Description
dhcpScopeRef	<a href="#">ObjRef</a>	Yes	No	Reference to the DHCP scope that contains the lease.
lease	<a href="#">IPAddress</a>	Yes	No	IP address for the lease.

## ArrayOfDHCPLeaseReference

### Elements

- [DHCPLeaseReference](#) dhcpLeaseReference

## DHCPOption

Contains a single DHCP option value.

### Elements

Name	Type	Required	Nullable	Description
option	string	Yes	No	The DHCP option ID.
value	string	No	Yes	The DHCP option value.

## ArrayOfDHCPOption

### Elements

- [DHCPOption](#) dhcpOption

## DHCPOptionChange

Contains all properties for a DHCP option change object.

### Elements

Name	Type	Required	Nullable	Description
state	<a href="#">ChangeRequestState</a>	No	No	The state of the DHCP option change.
hasAccess	boolean	No	No	Specifies whether the user has access to approve/reject the DHCP option change.
changeIndex	unsignedInt	No	No	The index of the DHCP option change within the change request which contains the DHCP option change.
owner	<a href="#">Object</a>	Yes	No	The owner (object) to which the DHCP option change should be applied.
policyName	string	No	No	The name of the DHCP policy the options belong to, defaults to an empty string when not using policies or on none MS servers.
dhcpOption	<a href="#">DHCPOption</a>	Yes	No	The DHCP option as it should be after the DHCP option change has been applied.

## ArrayOfDHCPOptionChange

### Elements

- [DHCPOptionChange](#) dhcpOptionChange

## DHCPOptionClass

Contains a definition for a DHCP option class.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The DHCP option class name.
description	string	No	Yes	The DHCP option class description.
				The DHCP option class

identifier string Yes No identifier.

## ArrayOfDHCPOptionClass

### Elements

- [DHCPOptionClass](#) dhcpOptionClass

## DHCPOptionDefinition

Contains a definition for a DHCP option.

### Elements

Name	Type	Required	Nullable	Description
option	string	Yes	No	The DHCP option ID.
name	string	Yes	No	The DHCP option name.
type	<a href="#">PropertyType</a>	Yes	No	The DHCP option type.
array	boolean	Yes	No	Determines whether DHCP option is defined as an array.

## ArrayOfDHCPOptionDefinition

### Elements

- [DHCPOptionDefinition](#) dhcpOptionDefinition

## DHCPPolicy

Contains all properties for a DHCP policy.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the DHCP policy.
description	string	No	Yes	A description for the DHCP policy.
order	unsignedInt	No	No	Specifies the relative order in which the DHCP policy will be processed.
enabled	boolean	No	No	Specifies whether the DHCP policy is enabled (default true).
logicalOperator	<a href="#">DHCPPolicyLogicalOperator</a>	Yes	No	The logical operation to be performed between the DHCP policy conditions.
ranges	<a href="#">ArrayOfDHCPPolicyRange</a>	No	Yes	IP ranges set for the DHCP policy.
conditions	<a href="#">ArrayOfDHCPPolicyCondition</a>	No	Yes	Conditions set for the DHCP policy.
ddnsSettings	<a href="#">DHCPPolicyDDNSSettings</a>	No	Yes	DHCP Policy DDNS settings, used for communicating with DNS servers.
leaseDuration	<a href="#">DHCPPolicyLeaseDuration</a>	No	Yes	Specifies lease time settings for the DHCP policy.

## ArrayOfDHCPPolicy

### Elements

- [DHCPPolicy dhcpPolicy](#)

## DHCPPolicyComparisonType

Defines possible DHCP policy comparison types.

### Enumerations

#### Name

Equal  
NotEqual

#### Description

Comparison of whether values are equal.  
Comparison of whether values are not equal.

## DHCPPolicyCondition

Contains all properties for a DHCP policy condition.

### Elements

Name	Type	Required	Nullable	Description
conditionType	<a href="#">DHCPPolicyConditionType</a>	Yes	No	The type of the DHCP policy condition.
comparisonType	<a href="#">DHCPPolicyComparisonType</a>	Yes	No	The type of comparison to be performed on the DHCP policy condition attribute. The value(s) to be used for the DHCP policy condition comparison. Each value can end with wildcard character '*'.
values	ArrayOfString	Yes	No	

## ArrayOfDHCPPolicyCondition

### Elements

- [DHCPPolicyCondition dhcpPolicyCondition](#)

## DHCPPolicyConditionType

Defines possible DHCP policy condition types.

### Enumerations

#### Name

MACAddress  
FQDN  
FQDNSingleLabel  
VendorClass  
UserClass  
ClientIdentifier  
RelayAgentInformation  
RAIAgentCircuitID  
RAIAgentRemoteID  
RAISubscriberID

#### Description

MAC address.  
Fully qualified domain name.  
Machine name is single label (For instance workgroup computers).  
Vendor class.  
User class.  
Client identifier.  
Relay agent information.  
Relay agent information - Agent circuit ID.  
Relay agent information - Agent remote ID.  
Relay agent information - Subscriber ID.

## DHCPPolicyDDNSSettings

Contains all properties used when configuring DDNS update for a DHCP Policy

### Elements

Name	Type	Required	Nullable	Description
enabled	boolean	Yes	No	Specifies whether the DHCP policy is enabled (default false).

alwaysUpdate	boolean	No	No	Specifies if DDNS should always be updated, ignoring DHCP client requested (default false).
discardRecords	boolean	No	No	Specifies whether to discard DDNS A and PTR records when lease is deleted (default true).
forceForNoneRequestingClients	boolean	No	No	Specifies whether to force a DDNS update for clients that do not request an update (default false).
disablePTRUpdates	boolean	No	No	Specifies whether to update DNS PTR records (default false).
useDNSSuffix	boolean	No	No	Specifies whether to use a specific DNS suffix when registering clients with DDNS (default false).
dnsSuffix	string	No	Yes	The DNS suffix used to register the client with DDNS

## DHCPPolicyLeaseDuration

Contains all properties used when configuring a specific lease duration on a DHCP Policy

### Elements

Name	Type	Required	Nullable	Description
leaseSetting	DHCPPolicyLeaseDurationType	Yes	No	Specifies whether the DHCP policy has specific lease duration settings (default false).
leaseDuration	unsignedInt	No	Yes	Specifies lease duration in seconds.

## DHCPPolicyLeaseDurationType

Possible DHCP Policy lease duration settings.

### Enumerations

Name	Description
Undefined	Lease duration is not specified for the policy.
Limited	Lease duration is set to a specific value.
Unlimited	Lease duration is unlimited

## DHCPPolicyLogicalOperator

Defines possible DHCP policy logical operators.

### Enumerations

Name	Description
LogicalOr	Logical OR operator.
LogicalAnd	Logical AND operator.

## DHCPPolicyRange

Contains all properties for a DHCP policy range.

### Elements

Name	Type	Required	Nullable	Description
------	------	----------	----------	-------------

from	<a href="#">IPAddress</a>	Yes	No	The starting IP address of the DHCP policy range.
to	<a href="#">IPAddress</a>	Yes	No	The ending IP address of the DHCP policy range.

## ArrayOfDHCPPolicyRange

### Elements

- [DHCPPolicyRange](#) dhcpPolicyRange

## DHCPRefAndFailoverRelationshipName

A DHCP failover relationship to remove.

### Elements

Name	Type	Required	Nullable	Description
dhcpServerRef	<a href="#">ObjRef</a>	No	No	An object reference for the DHCP server.
dhcpFailoverRelationshipName	string	Yes	Yes	Name of the DHCP failover relationship to remove.

## ArrayOfDHCPRefAndFailoverRelationshipName

### Elements

- [DHCPRefAndFailoverRelationshipName](#) dhcpRefAndFailoverRelationshipName

## DHCPReservation

Contains all properties for a DHCP reservation object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	No	No	The name of the reservation.
clientIdentifier	string	No	Yes	The client identifier used for the reservation (e.g. the MAC address).
addresses	<a href="#">ArrayOfIPAddress</a>	No	Yes	An array of zero or more IP addresses used for the reservation.
type	<a href="#">DHCPReservationType</a>	No	No	The type of the DHCP reservation.
reservationMethod	<a href="#">DHCPReservationMethod</a>	No	No	The method used to identify the DHCP reservation.
description	string	No	Yes	Description for the reservation. Only applicable for MS DHCP servers.
ddnsHostName	string	No	Yes	Dynamic DNS host name for reservation. Only applicable for ISC DHCP servers.
filename	string	No	Yes	The "filename" DHCP option. Only applicable for ISC DHCP servers.
serverName	string	No	Yes	The "server-name" DHCP option. Only applicable for ISC DHCP servers.
nextServer	string	No	Yes	The "next-server" ISC DHCP option. Only applicable for ISC DHCP



servers.  
A unique reference ID of the DHCP server, group or scope that contains the reservation.

ownerRef                      ObjRef                      Yes                      No

## ArrayOfDHCPReservation

### Elements

- [DHCPReservation](#) dhcpReservation

## DHCPReservationChange

Contains all properties for a DHCP reservation change object.

### Elements

Name	Type	Required	Nullable	Description
type	<a href="#">ChangeType</a>	Yes	No	The type of the DHCP reservation change.
state	<a href="#">ChangeRequestState</a>	No	No	The state of the DHCP reservation change. Specifies whether the user has access to approve/reject the DHCP reservation change.
hasAccess	boolean	No	No	The index of the DHCP reservation change within the change request which contains the DHCP reservation change.
changeIndex	unsignedInt	No	No	The DHCP reservation as it was when the DHCP reservation change was made (omitted when type is Add).
dhcpReservationBefore	<a href="#">DHCPReservation</a>	No	No	The DHCP reservation as it should be after the DHCP reservation change has been applied (omitted when type is Remove).
dhcpReservationAfter	<a href="#">DHCPReservation</a>	No	No	

## ArrayOfDHCPReservationChange

### Elements

- [DHCPReservationChange](#) dhcpReservationChange

## DHCPReservationMethod

Defines possible DHCP reservation methods.

### Enumerations

Name	Description
HardwareAddress	Hardware address.
ClientIdentifier	Client identifier.

## DHCPReservationType

Defines possible DHCP reservation types.

### Enumerations

**Name**  
DHCP  
BOOTP  
BOTH

**Description**  
DHCP reservation type.  
BOOTP reservation type.  
Both DHCP and BOOTP reservation types.

## DHCPScope

Contains all properties for a DHCP scope object.

### Elements

Name	Type	Required	Nullable	Description
ref	ObjRef	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the DHCP scope.
rangeRef	ObjRef	Yes	No	A reference to the range associated with the scope.
dhcpServerRef	ObjRef	Yes	No	A reference to the DHCP server containing the scope.
superscope	string	No	Yes	The name of the superscope for the DHCP scope. Only applicable for MS DHCP servers.
description	string	No	Yes	A description for the DHCP scope.
available	unsignedInt	No	No	Number of available addresses in the address pool(s) of the scope.
enabled	boolean	No	No	Specifies whether the scope is enabled (default true).

## ArrayOfDHCPScope

### Elements

- [DHCPScope](#) dhcpScope

## DHCPScopeChange

Contains all properties for a DHCP scope change object.

### Elements

Name	Type	Required	Nullable	Description
type	ChangeType	Yes	No	The type of the DHCP scope change.
state	ChangeRequestState	No	No	The state of the DHCP scope change.
hasAccess	boolean	No	No	Specifies whether the user has access to approve/reject the DHCP scope change.
changeIndex	unsignedInt	No	No	The index of the DHCP scope change within the change request which contains the DHCP scope change.
dhcpScopeBefore	DHCPScope	No	No	The DHCP scope as it was when the DHCP scope change was made (omitted when type is Add).
dhcpScopeAfter	DHCPScope	No	No	The DHCP scope as it should be after the DHCP scope change has been

applied (omitted when type is Remove).

## ArrayOfDHCPScopeChange

### Elements

- [DHCPScopeChange](#) dhcpScopeChange

## DHCPScopeOptionsReportType

Defines possible DHCP scope options report types.

### Enumerations

#### Name

HasValue

DoesNotHaveValue

HasNoValueSet

#### Description

Report on DHCP scopes that have the specified value for the specified DHCP option.

Report on DHCP scopes that do not have the specified value for the specified DHCP option.

Report on DHCP scopes that have no value set for the specified DHCP option.

## DHCPScopeReconcileEntry

Contains information about DHCP scope reconcile entries.

### Elements

Name	Type	Required	Nullable	Description
scopeAddress	<a href="#">IPAddress</a>	Yes	No	The IP address of the DHCP scope.
address	<a href="#">IPAddress</a>	Yes	No	The IP address that requires reconciling.
flag	<a href="#">DHCPScopeReconcileFlag</a>	Yes	Yes	The DHCP scope reconcile flag set for this entry.

## ArrayOfDHCPScopeReconcileEntry

### Elements

- [DHCPScopeReconcileEntry](#) dhcpScopeReconcileEntry

## DHCPScopeReconcileFlag

Defines possible DHCP scope reconcile flags.

### Enumerations

#### Name

ReconcileRegistry

ReconcileDatabase

#### Description

Entry found in database but not in registry.

Entry found in registry but not in database.

## DHCPServer

Contains all properties for a DHCP server object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object. The name of the DHCP

name	string	Yes	No	server.
proxy	string	No	No	The DHCP server controller used to connect to the DHCP server. If not specified it is assumed to be localhost.
address	<a href="#">IPAddress</a>	No	No	The IP address of the DHCP server.
resolvedAddress	<a href="#">IPAddress</a>	No	No	The IP address of the DHCP server, if specified, or the IP address retrieved through resolving the name of the DHCP server.
username	string	No	Yes	The login name of the user accessing a Cisco IOS DHCP server. Only applicable for Cisco IOS DHCP servers.
password	string	No	Yes	The password for the user accessing a Cisco IOS DHCP server. Only applicable for Cisco IOS DHCP servers.
enablePassword	string	No	Yes	The password for entering maintenance mode when accessing a Cisco IOS DHCP server. Only applicable for Cisco IOS DHCP servers.
type	<a href="#">DHCPSType</a>	Yes	No	The DHCP server type.
state	<a href="#">DHCPState</a>	No	No	The state of the DHCP Server.
security	<a href="#">DHCPSecurity</a>	No	Yes	The login method used for the DHCP server. Only applicable for Cisco IOS DHCP servers.
customProperties	<a href="#">ArrayOfProperty</a>	No	Yes	The custom properties for the DHCP server.
enabled	boolean	No	No	Specifies whether the DHCP server is enabled.

## ArrayOfDHCPSType

### Elements

- [DHCPSType](#) dhcpServer

## DHCPSType

Defines possible login methods for Cisco IOS DHCP servers.

### Enumerations

Name	Description
Unknown	Unknown login method.
Telnet	Login using Telnet.
SSH2	Login using SSH2.

## DHCPState

Defines possible DHCP server states.

### Enumerations

Name	Description
Unknown	Unknown DHCP server state.

OK  
Unreachable  
Out of date  
Wrong type  
Updating  
Service Down  
Disabled

DHCP Server is OK.  
DHCP Server Controller is offline or otherwise unreachable.  
DHCP Server Controller has a different version than Central.  
DHCP Server type does not match type specified.  
DHCP Server Controller version is being updated.  
DHCP server service is down and DHCP server is not answering clients.  
DHCP server is disabled.

## DHCPServerType

Defines possible DHCP server types.

### Enumerations

Name	Description
Unknown	Unknown DHCP server.
MSDHCP	Microsoft DHCP server.
ISC	ISC DHCP server.
IOS	Cisco IOS DHCP server.
KEA DHCPv4	KEA DHCPv4 server.

## DNSCache

Contains a list of cached DNS entries, the view they belong to and a reference to the DNS server that the records are cached on.

### Elements

Name	Type	Required	Nullable	Description
dnsServerRef	<a href="#">ObjRef</a>	Yes	No	A reference to the DNS server containing the cached DNS records.
cachedDNSEntries	<a href="#">ArrayOfCachedDNSEntry</a>	Yes	No	DNS entries cached on the server.
dnsViewRef	<a href="#">ObjRef</a>	Yes	No	Contains the reference ID of the DNS view that the DNS records belong to.

## ArrayOfDNSCache

### Elements

- [DNSCache](#) dnsCache

## DNSGenerateDirective

Contains all properties for a DNS generate directive.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
rangeStart	unsignedInt	Yes	No	The start of the range.
rangeEnd	unsignedInt	Yes	No	The end of the range.
rangeStep	unsignedInt	No	No	The stepping of the range. Defaults to 1.
lhs	string	Yes	Yes	The owner name of the resource records generated by the directive.
ttl	string	No	Yes	The ttl of the resource records generated by the directive.
class	string	No	Yes	The class of the resource records generated by the

directive.

The type of the resource records generated by the directive.

The data of the resource records generated by the directive.

type	DNSRecordType	Yes	No
rhs	string	Yes	Yes

## ArrayOfDNSGenerateDirective

### Elements

- [DNSGenerateDirective](#) dnsGenerateDirective

## DNSHost

Contains all properties for a DNS host object. A DNS host is an address (A) record and all CNAME, TXT and MX records that are associated with the record.

### Elements

Name	Type	Required	Nilable	Description
dnsRecord	<a href="#">DNSRecord</a>	Yes	No	The DNS host record. The record must be an address (A) record. Note that the name element of the record is fully qualified here.
ptrStatus	<a href="#">PTRStatus</a>	No	No	The PTR record status for the host record.
relatedRecords	<a href="#">ArrayOfDNSRecord</a>	Yes	Yes	An array of records associated with the host record.

## ArrayOfDNSHost

### Elements

- [DNSHost](#) dnsHost

## DNSRecord

Contains all properties for a DNS record object.

### Elements

Name	Type	Required	Nilable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	Yes	Yes	The name of the DNS record, either partially or fully qualified.
type	<a href="#">DNSRecordType</a>	Yes	No	Specifies the type of the DNS record.
ttl	string	No	Yes	Specifies the Time-To-Live of the DNS record.
data	string	Yes	Yes	Contains the record data in a tab-separated list.
comment	string	No	Yes	Contains the comment string for the record. Note that only records in static DNS zones can have a comment string.
enabled	boolean	No	No	Contains true if the record is enabled. If the record is disabled the value is false.

Defaults to enabled.  
 The aging timestamp of dynamic records in AD integrated zones. Hours since January 1, 1601, UTC. Providing a non-zero value creates a dynamic record.  
 Contains the reference ID of the zone that contains the record.

aging	unsignedInt	No	No
dnsZoneRef	ObjRef	No	No

## ArrayOfDNSRecord

### Elements

- [DNSRecord](#) dnsRecord

## DNSRecordChange

Contains all properties for a DNS record change object.

### Elements

Name	Type	Required	Nullable	Description
type	<a href="#">DNSRecordChangeType</a>	Yes	No	The type of the DNS record change.
state	<a href="#">ChangeRequestState</a>	No	No	The state of the DNS record change.
hasAccess	boolean	No	No	Specifies whether the user has access to approve/reject the DNS record change.
changeIndex	unsignedInt	No	No	The index of the DNS record change within the change request which contains the DNS record change.
dnsRecordBefore	<a href="#">DNSRecord</a>	No	No	The DNS record as it was when the DNS record change was made (omitted when type is AddDNSRecord).
dnsRecordAfter	<a href="#">DNSRecord</a>	No	No	The DNS record as it should be after the DNS record change has been applied (omitted when type is RemoveDNSRecord).

## ArrayOfDNSRecordChange

### Elements

- [DNSRecordChange](#) dnsRecordChange

## DNSRecordChangeRequest

Contains all properties for a DNS record change request object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
requester	string	Yes	No	The name of the user that made the change request. The state of the change

state	ChangeRequestState	Yes	No	request.
creationDate	DateTime	Yes	No	The date and time, when the change request was created.
requestDate	DateTime	No	No	The date and time, when the change request should be applied, if specified.
customProperties	ArrayOfProperty	Yes	Yes	The custom properties for the change request.
saveComment	string	Yes	Yes	Save comment text to associate with the action.
processedDate	DateTime	No	No	The date and time, when the change request was approved or rejected.
dnsRecordChanges	ArrayOfDNSRecordChange	No	No	The DNS record changes associated with the change request.

## ArrayOfDNSRecordChangeRequest

### Elements

- [DNSRecordChangeRequest](#) dnsRecordChangeRequest

## DNSRecordChangeType

Defines possible DNS record change types.

### Enumerations

Name	Description
AddDNSRecord	Add DNS record.
ModifyDNSRecord	Modify DNS record.
RemoveDNSRecord	Remove DNS record.

## DNSRecordType

Defines possible DNS record types.

### Enumerations

Name	Description
Any	Any record type.
Unknown	Unknown record type.
A	A (Address) record.
NS	NS (Name Server) record.
CNAME	CNAME (Canonical Name) record.
SOA	SOA (Start Of Authority) record.
WKS	WKS (Well Known Services) record.
PTR	PTR (Pointer) record.
HINFO	HINFO (Host Information) record.
MX	MX (Mail Exchange) record.
TXT	TXT (Text) record.
SPF	SPF (Sender Policy Framework) record.
RP	RP (Responsible Person) record.
AFSDB	AFSDB (AFS Database) record.
AAAA	AAAA (IPv6 address) record.
LOC	LOC (Location) record.
SRV	SRV (Service Locator) record.
NAPTR	NAPTR (Naming Authority Pointer) record.
DNAME	DNAME (Delegation Name) record.
WINS	WINS (Windows Internet Server Name) record.
WINSR	WINSR (WINS Reverse Lookup) record.



DS  
SSHFP  
DHCID  
CERT  
CAA  
RRSIG  
DNSKEY  
NSEC  
NSEC3  
NSEC3PARAM  
TLSA

DS (Delegation Signer) record.  
SSHFP (SSH Public Key Fingerprint) record.  
DHCID (DHCP Identifier) record.  
CERT (Certificate) record.  
CAA (Certification Authority Authorization) record.  
RRSIG (DNSSEC Signature) record.  
DNSKEY (DNS Key) record.  
NSEC (Next-Secure) record.  
NSEC3 (NSEC version 3) record.  
NSEC3PARAM (NSEC3 parameters) record.  
TLSA (DANE) record

## DNSServer

Contains all properties for a DNS server object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the DNS server.
proxy	string	No	No	The DNS server controller used to connect to the DNS server.
address	<a href="#">IPAddress</a>	No	No	The IP address of the DNS server.
resolvedAddress	<a href="#">IPAddress</a>	No	No	The IP address of the DNS server, if specified, or the IP address retrieved through resolving the name of the DNS server.
port	unsignedInt	No	No	The port to use when connecting to the DNS server. Only needed if a non-standard port is used to connect to the server.
type	<a href="#">DNSServerType</a>	Yes	No	The type of DNS server.
adForest	string	No	No	The name of the AD Forest with which the DNS server is associated.
state	<a href="#">DNSServerState</a>	No	No	The state of the DNS Server.
customProperties	<a href="#">ArrayOfProperty</a>	No	Yes	The custom properties for the DNS server.
subtype	<a href="#">DNSServerSubtype</a>	No	No	The subtype of DNS server.
enabled	boolean	No	No	Specifies whether the DNS server is enabled.
created	<a href="#">DateTime</a>	No	Yes	Date when server was created in the suite.
lastModified	<a href="#">DateTime</a>	No	Yes	Date when zone was last modified in the suite.

## ArrayOfDNSServer

### Elements

- [DNSServer](#) dnsServer

## DNSServerState

Defines possible DNS server states.

## Enumerations

### Name

Unknown  
OK  
Unreachable  
Out of date  
Uninitialized  
Updating  
Service Down  
Disabled

### Description

Unknown DNS server state.  
DNS Server is OK.  
DNS Server Controller is offline or otherwise unreachable.  
DNS Server Controller has a different version than Central.  
DNS Server has no data yet, is probably still synchronizing.  
DNS Server Controller version is being updated.  
DNS server service is down and DNS server is not responding to queries.  
DNS server is disabled.

## DNSServerSubtype

Defines possible DNS server subtypes.

## Enumerations

### Name

Unknown  
Win2003  
Win2008  
Win2012  
Win2016  
BIND9  
Unbound  
Azure  
Route53  
NS1  
Dyn  
Akamai

### Description

Unknown DNS server subtype.  
Microsoft Windows 2003 DNS server.  
Microsoft Windows 2008 DNS server.  
Microsoft Windows 2012 DNS server.  
Microsoft Windows 2016 DNS server.  
ISC BIND DNS server.  
The unbound version.  
Azure DNS server.  
Route53 DNS server  
NS1 DNS service.  
Dyn DNS service.  
Akamai DNS service.

## DNSServerType

Defines possible DNS server types.

## Enumerations

### Name

Unknown  
MS  
BIND  
Unbound  
Generic  
Azure  
Route53  
NS1  
Dyn  
Akamai

### Description

Unknown DNS server type.  
Microsoft DNS server.  
ISC BIND DNS server.  
Unbound DNS caching server.  
Generic DNS server.  
Azure DNS server.  
Route53 DNS service.  
NS1 DNS service.  
Dyn DNS service.  
Akamai DNS service.

## DNSView

Contains all properties for a DNS view object.

## Elements

Name	Type	Required	Nullable	Description
ref	ObjRef	No	No	A unique reference ID for the object.
name	string	Yes	Yes	The name of the DNS view.
dnsServerRef	ObjRef	Yes	No	A reference to the server containing the view.

## ArrayOfDNSView

### Elements

- [DNSView](#) dnsView

## DNSZone

Contains all properties for a DNS zone object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the DNS zone.
dnsScopeName	string	No	No	The name of the DNS zone scope.
dynamic	boolean	No	No	Contains true if the zone is dynamic.
adIntegrated	boolean	No	No	Contains true if the zone is Active Directory integrated.
adReplicationType	<a href="#">ADReplicationType</a>	No	No	The AD replication type if the zone is Active Directory integrated.
adPartition	string	No	Yes	The AD partition if the zone is Active Directory integrated.
dnsViewRef	<a href="#">ObjRef</a>	No	No	Contains the reference ID of the DNS view that contains the zone. This property is not supplied for AD integrated zones.
dnsViewRefs	<a href="#">ArrayOfObjRef</a>	No	No	Contains the reference IDs of the DNS views that contain the zone.
authority	string	No	No	Contains the name of the DNS server that contains the zone or the string "[Active Directory]" if the zone is AD integrated.
type	<a href="#">DNSZoneType</a>	Yes	No	Specifies the type of the zone.
dnssecSigned	boolean	No	No	Contains true if the zone is a DNSSEC signed zone.
kskIDs	string	No	Yes	A comma separated string of IDs of KSKs, starting with active keys, then inactive keys in parenthesis.
zskIDs	string	No	Yes	A comma separated string of IDs of ZSKs, starting with active keys, then inactive keys in parenthesis.
customProperties	<a href="#">ArrayOfProperty</a>	No	Yes	The custom properties for the zone.
created	<a href="#">DateTime</a>	No	Yes	Date when zone was created in the suite.
lastModified	<a href="#">DateTime</a>	No	Yes	Date when zone was last modified in the suite.
displayName	string	No	Yes	A name that can distinguish the zone from other zone instances with the same name.

## ArrayOfDNSZone

## Elements

- [DNSZone](#) dnsZone

## DNSZoneChange

Contains all properties for a DNS zone change object.

### Elements

Name	Type	Required	Nullable	Description
type	<a href="#">ChangeType</a>	Yes	No	The type of the DNS zone change.
state	<a href="#">ChangeRequestState</a>	No	No	The state of the DNS zone change.
hasAccess	boolean	No	No	Specifies whether the user has access to approve/reject the DNS zone change.
changeIndex	unsignedInt	No	No	The index of the DNS zone change within the change request which contains the DNS zone change.
dnsZoneBefore	<a href="#">DNSZone</a>	No	No	The DNS zone as it was when the DNS zone change was made (omitted when type is Add).
dnsZoneAfter	<a href="#">DNSZone</a>	No	No	The DNS zone as it should be after the DNS zone change has been applied (omitted when type is Remove).

## ArrayOfDNSZoneChange

### Elements

- [DNSZoneChange](#) dnsZoneChange

## DNSZoneType

Defines possible types for a DNS zone.

### Enumerations

Name	Description
Master	Master zone.
Slave	Slave zone.
Hint	Hint zone.
Stub	Stub zone.
Forward	Forward zone.

## DateTime

Legal time format is ( HH : MM[:SS[:TTT]][AM | PM] ). Legal date format depends on the separator, for '-' the format is considered to be ( [yy]yy - mm - dd ), for '.' the format is considered to be ( dd.mm.yy[yy] ) and for '/' the format is considered to be ( mm / dd / yy[yy] ).

## Device

Contains all properties for a device object.

### Elements

Name	Type	Required	Nullable	Description
------	------	----------	----------	-------------

ref	ObjRef	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the device.
customProperties	ArrayOfProperty	No	Yes	The custom properties for the device.
interfaces	ArrayOfInterface	No	Yes	The interfaces on the device.

## ArrayOfDevice

### Elements

- [Device](#) device

## Discovery

Contains all properties for scheduling. Used for discovery of ranges or scopes.

### Elements

Name	Type	Required	Nullable	Description
interval	unsignedInt	No	No	The interval between runs for the schedule.
unit	TimeUnit	No	No	The time unit for the interval.
enabled	boolean	No	No	Determines if the schedule is enabled.
startTime	DateTime	No	No	The date and time when the schedule should start.

## DynLogin

Contains all information needed to log into a Dyn account.

### Elements

Name	Type	Required	Nullable	Description
customerName	string	Yes	No	The Customer Name to use for authenticating with Dyn.
username	string	Yes	No	The username to use for authenticating with Dyn.
password	string	Yes	Yes	The password to use for authenticating with Dyn.

## Event

Contains all properties for an event object.

### Elements

Name	Type	Required	Nullable	Description
eventType	EventType	Yes	No	Event type.
objType	ObjectType	Yes	No	Object type.
objRef	ObjRef	Yes	No	Reference to the object.
objName	string	Yes	Yes	Name of the object.
timestamp	DateTime	Yes	No	Timestamp of event.
username	string	Yes	Yes	Name of the user associated with the event.
saveComment	string	Yes	Yes	Save comment provided along with the event.
eventText	string	Yes	Yes	Description of the event.

## ArrayOfEvent

## Elements

- [Event](#) event

## EventType

Defines possible event types.

### Enumerations

Name	Description
Unknown	Unknown event type.
Creation	Object creation event.
Modification	Object modification event.
Deletion	Object deletion event.
Refresh	Refresh event.
Error	Error event.
Reference	Reference event.

## FieldDefinition

Contains the property definition for a field.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the field.
title	string	Yes	No	A human readable description of the field.
type	<a href="#">FieldType</a>	Yes	No	The type of the field.
pickList	ArrayOfString	No	Yes	An array of possible values.
objectType	<a href="#">ObjectType</a>	No	Yes	The type of the object reference.

## ArrayOfFieldDefinition

### Elements

- [FieldDefinition](#) fieldDefinition

## FieldType

Defines the possible data types for a field.

### Enumerations

Name	Description
String	Free form string.
Enum	Enumeration.
Integer	Integer.
Boolean	Boolean.
IPAddress	IPv4/IPv6 address.
Ref	Object reference.
DateTime	Date and time field.
Duration	Time related values.

## Folder

Contains all properties for a folder object.

### Elements

Name	Type	Required	Nullable	Description
------	------	----------	----------	-------------

ref	ObjRef	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the folder.
contentType	ObjectType	Yes	No	The type of objects contained within the folder.
parentRef	ObjRef	No	No	A reference to the parent folder.

## ArrayOfFolder

### Elements

- [Folder](#) folder

## Group

Contains all properties for a user group object.

### Elements

Name	Type	Required	Nilable	Description
ref	ObjRef	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the group.
description	string	No	Yes	A description for the group.
adIntegrated	boolean	No	No	Contains true if the group is Active Directory integrated.
builtin	boolean	No	Yes	Indicates a system built in role (read only property).
groupMembers	ArrayOfObject	No	Yes	An array of references to the users in the group.
roles	ArrayOfObject	No	Yes	An array of references to the roles the group has.

## ArrayOfGroup

### Elements

- [Group](#) group

## HasAccessEntry

An entry that contains information about whether the currently logged in user has access for a specific access entry for a specific object.

### Elements

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the object for which this entry applies.
objType	ObjectType	Yes	No	The type of the object for which this entry applies.
name	string	Yes	No	The name of the object for which this entry applies.
hasAccess	boolean	Yes	No	Contains true if the user has access for the access entry.

## ArrayOfHasAccessEntry

### Elements

- [HasAccessEntry](#) hasAccessEntry

## HexStr

Hexadecimal encoded string.

## HostDiscoveryReportEntry

Contains information about host discovery.

### Elements

Name	Type	Required	Nullable	Description
addrRef	<a href="#">ObjRef</a>	Yes	No	Reference to the host IP address.
address	string	Yes	No	The host IP address.
dnsHostNames	string	Yes	Yes	Comma separated list of DNS host names found for the IP address.
lastSeenDate	<a href="#">DateTime</a>	Yes	No	The date when the host address last responded to a ping request.
lastDiscoveryDate	<a href="#">DateTime</a>	Yes	No	The date when the system last checked whether the host address responded to a ping request.
lastKnownClientIdentifier	string	Yes	Yes	The MAC address associated with the IP address discovery info.
discoveryType	<a href="#">IPAddressDiscoveryType</a>	Yes	No	The type of IP address discovery that is the source of the IP address discovery info.
customProperties	<a href="#">ArrayOfProperty</a>	Yes	Yes	The custom properties associated with the host address.

## ArrayOfHostDiscoveryReportEntry

### Elements

- [HostDiscoveryReportEntry](#) entry

## HostDiscoveryType

Defines possible host discovery report types.

### Enumerations

Name	Description
HostsWithData	Report on hosts with data which have not been answering during discovery.
HostsWithoutData	Report on hosts without data which have answered during discovery.

## IPAMRecord

Contains all properties for an IPAM record object.

### Elements

Name	Type	Required	Nullable	Description
addrRef	<a href="#">ObjRef</a>	Yes	No	A reference to the IP address.
address	string	Yes	No	The IP address.
claimed	boolean	Yes	No	Contains true if the record has the Claimed flag set. List of DNS hosts



dnsHosts	ArrayOfDNSHost	No	Yes	associated with the address.
dhcpReservations	ArrayOfDHCPReservation	No	Yes	List of DHCP reservations associated with the address.
dhcpLeases	ArrayOfDHCPLease	No	Yes	List of DHCP leases associated with the address.
discoveryType	IPAddressDiscoveryType	Yes	No	The type of IP address discovery that is the source of the IP address discovery info.
lastSeenDate	string	Yes	Yes	The date when the address was last seen during IP address discovery.
lastDiscoveryDate	string	Yes	Yes	The date when the system last performed IP address discovery for this IP address.
lastKnownClientIdentifier	string	Yes	Yes	The MAC address associated with the IP address discovery info.
device	string	No	Yes	The device associated with the record.
interface	string	No	Yes	The interface associated with the record.
ptrStatus	PTRStatus	No	No	The PTR record status for the record.
extraneousPTR	boolean	No	No	Contains true if there are extraneous PTR records for the record.
customProperties	ArrayOfProperty	No	Yes	The custom properties for the IPAM record.
state	IPAMRecordState	No	No	Specifies the IP address state.
usage	unsignedInt	No	No	IP address usage bitmask.
cloudDeviceInfo	CloudDeviceInfo	No	Yes	An optional information detailing data retrieved from a cloud provider

## ArrayOfIPAMRecord

### Elements

- [IPAMRecord](#) ipamRecord

## IPAMRecord2

Contains properties for an IPAM record object.

### Elements

Name	Type	Required	Nullable	Description
ref	ObjRef	Yes	No	A reference to the IP address.
address	string	Yes	No	The IP address.
claimed	boolean	Yes	No	Contains true if the record has the Claimed flag set.
dnsHosts	string	No	Yes	Comma separated list of DNS hosts associated with the address.
dhcpReservations	string	No	Yes	Comma separated list of reservations associated with the address.
dhcpLeases	string	No	Yes	Comma separated list of DHCP leases associated with the address.
lastSeenDate	string	Yes	Yes	The date when the address was last seen during IP

lastKnownClientIdentifier	string	Yes	Yes	address discovery. The MAC address associated with the IP address discovery info.
device	string	No	Yes	The device associated with the record.
interface	string	No	Yes	The interface associated with the record.
ptrStatus	<a href="#">PTRStatus</a>	No	No	The PTR record status for the record.
state	<a href="#">IPAMRecordState</a>	No	No	Specifies the IP address state.
customProperties	<a href="#">ArrayOfProperty</a>	No	Yes	The custom properties for the IPAM record.

## ArrayOfIPAMRecord2

### Elements

- [IPAMRecord2](#) ipamRecord

## IPAMRecordState

Defines possible IPAM record states.

### Enumerations

Name	Description
Free	IP address is free.
Assigned	IP address is assigned.
Claimed	IP address is claimed.

## IPAddress

IPv4/IPv6 address.

## ArrayOfIPAddress

### Elements

- [IPAddress](#) address

## IPAddressDiscoveryType

Defines possible IP address discovery types.

### Enumerations

Name	Description
None	IP address has no discovery info.
Ping	IP address answered ping during scheduled discovery.
ARP	IP address was present in a router's ARP cache.
Lease	IP address had a DHCP lease.
Custom	IP address discovery info was supplied externally.

## IPOrHostname

IPv4/IPv6 address or legal host name.

## IdentityAccess

Contains access entries for a specific user or group.

## Elements

Name	Type	Required	Nullable	Description
identityRef	<a href="#">ObjRef</a>	Yes	No	A unique reference ID for a user or group for which the access applies.
identityName	string	No	No	The name of the user or group for which the access applies.
accessEntries	<a href="#">ArrayOfAccessEntry</a>	Yes	Yes	The access entries for the user or group.

## ArrayOfIdentityAccess

### Elements

- [IdentityAccess](#) identityAccess

## Interface

Contains all properties for an interface object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the interface.
clientIdIdentifier	string	No	Yes	The client identifier for the interface.
addresses	<a href="#">ArrayOfIPAddress</a>	No	Yes	The addresses for the interface.
customProperties	<a href="#">ArrayOfProperty</a>	No	Yes	The custom properties for the interface.
deviceRef	<a href="#">ObjRef</a>	No	No	A unique reference ID of the device to which the interface belongs.

## ArrayOfInterface

### Elements

- [Interface](#) interface

## LoginInformation

Information needed logging into a cloud service.

### Elements

Name	Type	Required	Nullable	Description
openStackLogin	<a href="#">OpenStackLogin</a>	No	Yes	Contains all information needed to log into an OpenStack account.
azureLogin	<a href="#">AzureLogin</a>	No	Yes	Contains all information needed to log into an Azure account.
awsLogin	<a href="#">AWSLogin</a>	No	Yes	Contains all information needed to log into an AWS account.
ns1Login	<a href="#">NS1Login</a>	No	Yes	Contains all information needed to log into an NS1 account. Contains all information

dynLogin	<a href="#">DynLogin</a>	No	Yes	needed to log into an Dyn account.
akamaiLogin	<a href="#">AkamaiLogin</a>	No	Yes	Contains all information needed to log into an Akamai account.

## MergeAddressSpacesReportConflictType

Defines possible merge address space conflict types returned by report.

### Enumerations

Name	Description
Warning	Warning.
Error	Error.

## MergeAddressSpacesReportEntry

Contains information about a merge address space conflict.

### Elements

Name	Type	Required	Nilable	Description
conflictType	<a href="#">MergeAddressSpacesReportConflictType</a>	Yes	No	Conflict type.
srcObjRef	<a href="#">ObjRef</a>	Yes	No	A reference to an object in the source address space.
destObjRef	<a href="#">ObjRef</a>	Yes	No	A reference to a conflicting object in the destination address space.
description	string	Yes	No	Conflict description.

## ArrayOfMergeAddressSpacesReportEntry

### Elements

- [MergeAddressSpacesReportEntry](#) entry

## MultiLabelHostReportEntry

Contains information about a host in the multi-label host report.

### Elements

Name	Type	Required	Nilable	Description
ref	<a href="#">ObjRef</a>	Yes	No	Ref of the DNS record.
name	string	Yes	No	The name of the DNS record, partially qualified.
zonename	string	Yes	No	The name of the zone.
type	<a href="#">DNSRecordType</a>	Yes	No	Specifies the type of the DNS record.
data	string	Yes	No	Contains the record data in a tab-separated list.

## ArrayOfMultiLabelHostReportEntry

### Elements

- [MultiLabelHostReportEntry](#) host

## NS1Login

Contains all information needed to log into a NS1 account.

## Elements

Name	Type	Required	Nullable	Description
apiKey	string	Yes	No	API Key to use for authenticating with NS1.

## NetworkDiscoveryInfo

Contains Network Discovery Info.

### Elements

Name	Type	Required	Nullable	Description
routerName	string	No	No	The name of the router.
gateway	<a href="#">IPAddress</a>	No	No	The IP address of the gateway.
interfaceID	unsignedInt	No	No	The interface ID.
interfaceName	string	No	No	The interface name.
VLANID	unsignedInt	No	No	The VLAN ID for the interface.
interfaceDescription	string	No	Yes	The interface description.
VRFName	string	No	Yes	The VRF name assigned to the interface.

## ArrayOfNetworkDiscoveryInfo

### Elements

- [NetworkDiscoveryInfo](#) networkDiscoveryInfo

## ObjRef

A reference to an object.

## ArrayOfObjRef

### Elements

- [ObjRef](#) ref

## Object

Contains information about a generic object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	A reference to the object.
objType	<a href="#">ObjectType</a>	No	No	The type of the object.
name	string	No	No	The name of the object.

## ArrayOfObject

### Elements

- [Object](#) object

## ObjectAccess

Contains information about an object access entry.

## Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	A reference to the object.
name	string	Yes	No	The name of the object.
identityAccess	<a href="#">ArrayOfIdentityAccess</a>	No	Yes	An array of access entries for different users and groups for the object.

## ArrayOfObjectAccess

### Elements

- [ObjectAccess](#) objectAccess

## ObjectError

Contains information about an error related to an operation on an object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	A reference to the object.
error	string	Yes	No	The error string.

## ArrayOfObjectError

### Elements

- [ObjectError](#) objectError

## ObjectType

Defines possible object types.

### Enumerations

Name	Description
Unknown	Unknown object type.
Suite	The Men and Mice Suite.
DNSServer	DNS server.
DHCPServer	DHCP server.
DNSZone	DNS zone.
DNSView	DNS view.
Range	IP Address range.
DHCPScope	DHCP scope.
IPAddress	IP address.
DHCPReservation	DHCP reservation.
DHCPAddressPool	DHCP address pool.
DHCPGroup	DHCP group.
ADSite	Active Directory site.
DNSRecord	DNS resource record.
User	User.
Group	Group.
DHCPExclusion	DHCP exclusion.
DHCPFailoverPeer	DHCP failover peer.
DHCPLease	DHCP lease.
Device	Device.
Interface	Interface for a device.
Folder	Folder.
ADSiteLink	Active Directory site link.
AddressSpace	Address space.

ADForest  
ChangeRequest  
Appliance  
Role  
CloudServiceAccount  
CloudService  
CloudAccountSubscription  
CloudNetwork  
Superscope

Active Directory forest.  
Change request.  
A Men & Mice Appliance.  
Role.  
Cloud Service account.  
Cloud Service.  
Cloud Account Subscription.  
Cloud network.  
Superscope.

## ArrayOfObjectType

### Elements

- [ObjectType](#) objType

## OpenStackLogin

Contains all information needed to log into an OpenStack account.

### Elements

Name	Type	Required	Nullable	Description
serverNode	string	Yes	No	The server node with which to communicate.
username	string	Yes	No	The username to use for authenticating with OpenStack.
password	string	Yes	Yes	The password to use for authenticating with OpenStack.
httpsRequired	boolean	Yes	No	Is HTTPS required for communicating with server node.

## PTRStatus

Defines possible status types for PTR records.

### Enumerations

Name	Description
Unknown	Unknown status.
OK	No errors found mapping the PTR record.
Verify	Errors or inconsistencies found when mapping the PTR record.

## Property

Contains a single property entry for an object.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the property.
value	string	No	Yes	The value of the property.

## ArrayOfProperty

### Elements

- [Property](#) property

## PropertyDefinition

Contains the property definition for a property.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the property.
type	<a href="#">PropertyType</a>	Yes	No	The type of the property.
system	boolean	No	No	Contains true if the property is system defined.
mandatory	boolean	No	No	Determines if the property is mandatory.
readOnly	boolean	No	No	Determines if the property is read-only.
multiLine	boolean	No	No	Determines if the property is multi-line.
defaultValue	string	No	Yes	Contains the default value for the property.
listItems	ArrayOfString	No	Yes	Contains the list items if the property is an enumeration.
parentProperty	string	No	No	Name of the parent property.
cloudTags	<a href="#">ArrayOfCloudTag</a>	No	Yes	Associated cloud tags

## ArrayOfPropertyDefinition

### Elements

- [PropertyDefinition](#) propertyDefinition

## PropertyType

Defines the possible data types for a custom property.

### Enumerations

Name	Description
String	Free form string.
HexStr	Hexadecimal encoded string.
Boolean	Boolean.
IPAddress	IPv4/IPv6 address.
IPOrHostname	IPv4/IPv6 address or a legal host name.
Integer	Integer.

## Range

Contains all properties for a range object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the range.
from	<a href="#">IPAddress</a>	No	No	The starting IP address of the range.
to	<a href="#">IPAddress</a>	No	No	The ending IP address of the range.
parentRef	<a href="#">ObjRef</a>	No	No	A reference to the immediate parent range.
adSiteRef	<a href="#">ObjRef</a>	No	No	A reference to the AD site to which the range belongs.
				An array of child ranges of



childRanges	ArrayOfObject	No	Yes	the range.
isLeaf	boolean	No	Yes	Determines if the range has any childRanges
dhcpScopes	ArrayOfObject	No	Yes	An array of scopes associated with the range.
subnet	boolean	No	No	Determines if the range is defined as a subnet.
locked	boolean	No	No	Determines if the range should be set as locked.
autoAssign	boolean	No	No	Determines if it should be possible to automatically assign IP addresses from the range.
hasSchedule	boolean	No	No	Determines if a discovery schedule has been set for the range.
hasMonitor	boolean	No	No	Determines if monitoring is enabled for the range.
customProperties	ArrayOfProperty	No	Yes	The custom properties for the range.
inheritAccess	boolean	No	No	Should this range inherit its access bits from its parent range?.
isContainer	boolean	No	No	Set to true to create a container instead of a range.
utilizationPercentage	unsignedInt	No	No	Utilization percentage for range.
hasRogueAddresses	boolean	No	No	If this range is a container, then this member will indicate whether there are rogue addresses in the container.
cloudNetworkRef	ObjRef	No	No	A reference to the cloud network to which the range belongs.
cloudAllocationPools	ArrayOfAddressBlock	No	Yes	Addresses in subnet which should be available for dynamic allocation in the cloud.
discoveredProperties	ArrayOfNetworkDiscoveryInfo	No	Yes	Network Discovery Information.
created	DateTime	No	Yes	The time when the Range was created.
lastModified	DateTime	No	Yes	The time when the Range last modified.

## ArrayOfRange

### Elements

- [Range](#) range

## RangeWithStatistics

Contains a range object along with statistics for that range.

### Elements

Name	Type	Required	Nullable	Description
range	<a href="#">Range</a>	Yes	No	The range object.
used	string	Yes	No	Number of used IP addresses in the range.
free	string	Yes	No	Number of free IP addresses in the range.
utilization	int	Yes	No	Utilization percentage for the range.

## ArrayOfRangeWithStatistics

### Elements

- [RangeWithStatistics](#) rangeWithStatistics

## Region

Contains information about a region.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the region.
numberOfVPCs	unsignedInt	Yes	No	Number of VPCs in the region.
numberOfZones	unsignedInt	Yes	No	Number of zones in the region.

## ArrayOfRegion

### Elements

- [Region](#) region

## Report

Contains information about a Report.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	A unique reference ID for the object.
reportDefinitionRef	string	Yes	No	A reference for the report definition.
title	string	Yes	Yes	The title of the report.
startTime	string	Yes	Yes	The time when the report was started .
runCount	unsignedInt	No	No	The number of items returned.
runTime	unsignedInt	No	No	The running time in milliseconds.

## ArrayOfReport

### Elements

- [Report](#) report

## ReportCategory

Defines the possible categories of a report.

### Enumerations

Name	Description
Unknown	Unknown report.
DNS	DNS report.
DHCP	DHCP report.
IPAM	IPAM report.
User	User defined report.

General

General report.

## ReportContentType

Defines the possible report content types.

### Enumerations

#### Name

XML  
CSV  
JSON  
SYLK

#### Description

XML formatted report.  
Comma seperated value formatted report.  
JSON formatted report.  
Symbolic link formatted report.

## ReportDefinition

Contains information about a report definition.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference for the object.
title	string	Yes	No	The report title.
description	string	No	Yes	A description of the report.
help	string	No	Yes	Instructions for the user on how to use the report.
type	<a href="#">ReportType</a>	Yes	No	The type of a report.
category	<a href="#">ReportCategory</a>	Yes	No	The category of a report.
sourceName	string	Yes	No	The reporting source.
resLimit	unsignedInt	No	Yes	The maximum number of records to return.
filter	string	No	Yes	The report filter.
columns	ArrayOfString	No	Yes	An optional array of columns for output. If not specified all columns will be returned
keepMaxItems	unsignedInt	No	Yes	The maximum number of reports to keep. By default 0 meaning keep all reports.
keepMaxDays	unsignedInt	No	Yes	The maximum number of days to keep a report. By default 0 meaning keep all reports.
scheduled	boolean	No	Yes	True if the report is scheduled to be run.
nextRun	<a href="#">DateTime</a>	No	Yes	The time the report will run if scheduled.

## ArrayOfReportDefinition

### Elements

- [ReportDefinition](#) reportDefinition

## ReportOutput

Contains report output.

### Elements

Name	Type	Required	Nullable	Description
columns	<a href="#">ArrayOfFieldDefinition</a>	Yes	Yes	An array of output fields.
rows	ArrayOfRow	Yes	Yes	The result of a report.

## ReportSource

Contains information about a report source.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the report source.
title	string	Yes	No	The title of the report source.

## ArrayOfReportSource

### Elements

- [ReportSource](#) reportSource

## ReportType

Defines possible report types.

### Enumerations

Name	Description
Base	Base predefined report.
Standard	Standard predefined report.
User	User defined report.

## ResourceGroup

Contains information about a resource group.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the resource group.
numberOfVPCs	unsignedInt	Yes	No	Number of VPCs in the resource group.
numberOfZones	unsignedInt	Yes	No	Number of zones in the resource group.

## ArrayOfResourceGroup

### Elements

- [ResourceGroup](#) resourceGroup

## Role

Contains all properties for a role object.

### Elements

Name	Type	Required	Nullable	Description
ref	ObjRef	No	No	A unique reference ID for the object.
name	string	Yes	No	The name of the role.
description	string	No	Yes	A description for the role.
builtin	boolean	No	Yes	Indicates a system built in role (read only property).
				An array of references to

users	ArrayOfObject	No	Yes	users that have the role.
groups	ArrayOfObject	No	Yes	An array of references to groups that have the role.

## ArrayOfRole

### Elements

- [Role](#) role

## Schedule

Contains all properties for scheduling. Used for generations of reports.

### Elements

Name	Type	Required	Nullable	Description
interval	unsignedInt	No	No	The interval between runs for the schedule.
unit	<a href="#">TimeUnit</a>	No	No	The time unit for the interval.
enabled	boolean	No	No	Determines if the schedule is enabled.
startTime	<a href="#">DateTime</a>	No	No	The date and time when the schedule should start.

## ServiceStatus

The state of a service.

### Enumerations

Name	Description
undefined	Status is undefined.
running	The service is running.
stopped	The service is stopped.
exited	The service has exited.
fatal	The service is dead.

## SortOrder

Defines sorting order for a list.

### Enumerations

Name	Description
Ascending	Sort order ascending.
Descending	Sort order descending.

## SourcedDHCPOptions

Contains DHCP options from a single source.

### Elements

Name	Type	Required	Nullable	Description
source	Object	Yes	No	The source of the DHCP options.
dhcpOptions	<a href="#">ArrayOfDHCPOption</a>	Yes	Yes	The DHCP options.

## ArrayOfSourcedDHCPOptions

### Elements

- [SourcedDHCPOptions](#) sourcedDHCPOptions

## SubdomainHandling

How existing subdomains of subnets that are being updated should be handled.

### Enumerations

Name	Description
Ignore	Skip reverse records in subdomains.
Update	Update reverse records in subdomains as well.

## Suggestion

Contains a single suggestion entry.

### Elements

Name	Type	Required	Nullable	Description
key	string	Yes	No	The key of the suggestion.
value	string	No	Yes	The value of the suggestion.

## ArrayOfSuggestion

### Elements

- [Suggestion](#) suggestion

## SystemSetting

Contains a single system setting value.

### Elements

Name	Type	Required	Nullable	Description
name	string	Yes	No	The name of the system setting.
value	string	No	Yes	The value of the system setting.

## ArrayOfSystemSetting

### Elements

- [SystemSetting](#) systemSetting

## TimeUnit

Defines possible time units.

### Enumerations

Name	Description
Minutes	Minutes.
Hours	Hours.
Days	Days.
Weeks	Weeks.
Months	Months.

## TransportProtocol

Defines possible transports protocols.

## Enumerations

### Name

UDP  
TCP  
UDP6  
TCP6

### Description

UDP over an IPv4 connection.  
TCP over an IPv4 connection.  
UDP over an IPv6 connection.  
TCP over an IPv6 connection.

## User

Contains all properties for a user object.

### Elements

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	No	No	A unique reference ID for the object.
name	string	Yes	No	The login name of the user.
password	string	No	Yes	The user password.
fullName	string	No	Yes	The full name of the user.
description	string	No	Yes	The description for the user.
email	string	No	Yes	The users email address.
authenticationType	<a href="#">AuthenticationType</a>	Yes	No	The authentication type for the user.
groups	<a href="#">ArrayOfObject</a>	No	Yes	The groups the user is a member of.
roles	<a href="#">ArrayOfObject</a>	No	Yes	The roles the user is directly associated to.
groupRoles	<a href="#">ArrayOfObject</a>	No	Yes	The roles the user has through his group membership.

## ArrayOfUser

### Elements

- [User](#) user

## ZoneSet

An instance of the zones that were created.

### Elements

Name	Type	Required	Nullable	Description
masterRef	<a href="#">ObjRef</a>	No	Yes	A unique reference ID for the zone.
zoneRefs	<a href="#">ArrayOfObjRef</a>	No	Yes	A list of unique reference IDs for the slave or secondary zones that were created.

## ZoneSets

Contains the zones that were created.

### Elements

Name	Type	Required	Nullable	Description
zoneSet	<a href="#">ZoneSet</a>	No	No	An reference to all zone instances created.

## Commands

## AddADForest

Adds a new AD forest.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
adForest	<a href="#">ADForest</a>	Yes	No	The AD forest to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	Reference to the added AD forest.

## AddADSite

Adds a new AD site.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
adSite	<a href="#">ADSite</a>	Yes	No	The AD site to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	Reference to the added AD site.

## AddADSiteLink

Adds a new AD site link.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
adSiteLink	<a href="#">ADSiteLink</a>	Yes	No	The AD site link to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	Reference to the added AD site link.

## AddAddressSpace

Adds a new address space.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.



session	string	Yes	No	command.
addressSpace	<a href="#">AddressSpace</a>	Yes	No	The address space to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	Reference to the added address space.

## AddChangeRequest

Adds request for change(s).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsZoneChanges	<a href="#">ArrayOfDNSZoneChange</a>	No	Yes	DNS zone change(s).
dnsRecordChanges	<a href="#">ArrayOfDNSRecordChange</a>	No	Yes	DNS record change(s).
dhcpScopeChanges	<a href="#">ArrayOfDHCPScopeChange</a>	No	Yes	DHCP scope change(s).
dhcpReservationChanges	<a href="#">ArrayOfDHCPReservationChange</a>	No	Yes	DHCP reservation change(s).
dhcpExclusionChanges	<a href="#">ArrayOfDHCPExclusionChange</a>	No	Yes	DHCP exclusion change(s).
dhcpAddressPoolChanges	<a href="#">ArrayOfDHCPAddressPoolChange</a>	No	Yes	DHCP address pool change(s).
dhcpOptionChanges	<a href="#">ArrayOfDHCPOptionChange</a>	No	Yes	DHCP options change(s).
customPropertyChanges	<a href="#">ArrayOfCustomPropertyChange</a>	No	Yes	Custom property change(s).
requestDate	<a href="#">DateTime</a>	No	Yes	The date and time, when the requested change(s) should be applied, if specified.
customProperties	<a href="#">ArrayOfProperty</a>	No	Yes	The custom properties for the change request.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	Reference to the added change request.

## AddCloudNetwork

Adds a new cloud network.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
cloudNetwork	<a href="#">CloudNetwork</a>	Yes	No	The cloud network to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	Reference to the added cloud network.

## AddCloudServiceAccount

Adds a new cloud service account.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
cloudServiceAccount	CloudServiceAccount	Yes	No	The cloud service account to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the added cloud service account.

## AddDHCPAddressPool

Adds a new DHCP address pool.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpAddressPool	DHCPAddressPool	Yes	No	The DHCP address pool to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the added DHCP address pool.

## AddDHCPExclusion

Adds a new DHCP exclusion.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpExclusion	DHCPExclusion	Yes	No	The DHCP exclusion to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the added DHCP exclusion.

## AddDHCPFailoverRelationship

Adds a DHCP failover relationship.

### Arguments

Name	Type	Required	Nilable	Description
------	------	----------	---------	-------------

session	string	Yes	No	Session ID from the Login command.
dhcpFailoverRelationship	<a href="#">DHCPFailoverRelationship</a>	Yes	No	The DHCP failover relationship to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

## AddDHCPGroup

Creates a DHCP group.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpGroup	<a href="#">DHCPGroup</a>	Yes	No	The DHCP group to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	Reference to the added DHCP Group.

## AddDHCPOptionDefinition

Adds a new DHCP option definition on the specified DHCP server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	<a href="#">ObjRef</a>	Yes	No	The DHCP server on which the option definition should be added.
dhcpOptionDefinition	<a href="#">DHCPOptionDefinition</a>	Yes	No	The DHCP option definition to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

## AddDHCPPolicy

Adds a DHCP policy to the specified owner (which must reference a DHCP server or a DHCP scope).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ownerRef	<a href="#">ObjRef</a>	Yes	No	A reference to the DHCP server/scope to which the DHCP policy should be added.
objType	<a href="#">ObjectType</a>	No	No	The object type of the owner (i.e. either DHCP server or DHCP scope).
dhcpPolicy	<a href="#">DHCPPolicy</a>	Yes	No	The DHCP policy to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

## AddDHCPReservation

Adds a new DHCP reservation.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpReservation	DHCPReservation	Yes	No	The DHCP reservation to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the added DHCP reservation.

## AddDHCPScope

Adds a new DHCP scope.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpScope	DHCPScope	Yes	No	The DHCP scope to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the added DHCP scope.

## AddDHCPScopesToDHCPFailoverRelationship

Add DHCP scope(s) to a DHCP failover relationship.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	ObjRef	Yes	No	An object reference for the DHCP server.
dhcpFailoverRelationshipName	string	Yes	No	The DHCP failover relationship.
dhcpScopeRefs	ArrayOfObjRef	Yes	No	References to DHCP scopes that should be added to the DHCP failover relationship.
saveComment	string	No	Yes	Save comment text to associate with the action.

## AddDHCPServer

Adds a new DHCP server.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.

dhcpServer	DHCPServer	Yes	No	The DHCP server to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the added DHCP server.
warning	string	No	No	Warning message returned if the added DHCP server is e.g. of an old or unknown version.

## AddDNSGenerateDirective

Adds a new DNS generate directive.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
dnsZoneRef	ObjRef	Yes	No	An object reference for the DNS zone.
dnsGenerateDirective	DNSGenerateDirective	Yes	No	The DNS generate directive to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the added DNS generate directive.

## AddDNSRecord

Adds a new DNS record.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
dnsRecord	DNSRecord	Yes	No	The DNS record to add.
saveComment	string	No	Yes	Save comment text to associate with the action.
autoAssignRangeRef	ObjRef	No	No	A reference to a range that should be used for automatic assignment of IP addresses.
forceOverrideOfNamingConflictCheck	boolean	No	No	Set to true to force creation of record regardless of naming conflict check (if enabled in system settings).

### Response

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the added DNS record.

## AddDNSRecordChangeRequest

Adds request for DNS record change(s).

## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsRecordChanges	ArrayOfDNSRecordChange	Yes	No	The requested DNS record change(s).
requestDate	DateTime	No	Yes	The date and time, when the requested DNS record change(s) should be applied, if specified.
customProperties	ArrayOfProperty	No	Yes	The custom properties for the change request.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
ref	ObjRef	Yes	No	Reference to the added DNS record change request.

## AddDNSRecords

Adds multiple new DNS records.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsRecords	ArrayOfDNSRecord	Yes	No	The DNS records to add.
saveComment	string	No	Yes	Save comment text to associate with the action.
autoAssignRangeRef	ObjRef	No	No	A reference to a range that should be used for automatic assignment of IP addresses.
dnsZoneRef	ObjRef	No	No	A reference to a DNS Zone that all the DNS records should be placed in.
forceOverrideOfNamingConflictCheck	boolean	No	No	Set to true to force creation of record regardless of naming conflict check (if enabled in system settings).

### Response

Name	Type	Required	Nullable	Description
objRefs	ArrayOfObjRef	Yes	No	References to the added DNS records. If a record was not successfully added, the reference returned for that record will be {#0-#0}.
errors	ArrayOfError	Yes	Yes	Error messages. One error message is generated for each record that is not added.

## AddDNSServer

Adds a new DNS server.

### Arguments

Name	Type	Required	Nullable	Description
------	------	----------	----------	-------------

session	string	Yes	No	Session ID from the Login command.
dnsServer	<a href="#">DNSServer</a>	Yes	No	The DNS server to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	Reference to the added DNS server.

## AddDNSZone

Adds a new DNS zone.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsZone	<a href="#">DNSZone</a>	Yes	No	The DNS zone to add.
masters	<a href="#">ArrayOfIPAddress</a>	No	No	The IP addresses of the master servers if the new zone is not a master zone.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
ref	<a href="#">ObjRef</a>	Yes	No	Reference to the added DNS zone.

## AddDNSZones

Adds DNS Zones.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
names	<a href="#">ArrayOfString</a>	Yes	No	List of zone names.
type	<a href="#">DNSZoneType</a>	No	Yes	Specifies the type of the zones to create. Defaults to Master.
adIntegrated	boolean	No	Yes	Contains true if the zone is Active Directory integrated.
dynamic	boolean	No	Yes	Contains true if the zone is dynamic.
prime	boolean	No	Yes	Contains true if NS set priming should be performed. Applicable only to stub zones on Unbound servers.
querySecond	boolean	No	Yes	Contains true if the server should try to query if a resolve fails. Same as stub-first/forward-first. Applicable only to stub/forward zones on Unbound servers.
adReplicationType	<a href="#">ADReplicationType</a>	No	Yes	The AD replication type if the zone is Active Directory integrated. The AD partition if the zone

adPartition	string	No	Yes	is Active Directory integrated.
masterViewRef	ObjRef	No	Yes	Reference to the master server view, only applicable when creating a master zone.
customProperties	ArrayOfProperty	No	Yes	The custom properties for the zone, only applicable when creating a master zone.
secondaryServerViewRefs	ArrayOfObjRef	No	Yes	Reference to the server views for other than master zones.
masters	ArrayOfIPAddress	No	No	IP addresses of master or forward servers when creating none master zones.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
zoneSets	ZoneSets	Yes	Yes	List of created zones.
errors	ArrayOfError	Yes	Yes	Error messages. One error message is generated for each zone that is not added.

## AddDevice

Adds a new device.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
device	Device	Yes	No	The device to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
ref	ObjRef	Yes	No	Reference to the added device.

## AddFolder

Adds a new folder.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
folder	Folder	Yes	No	The folder to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
ref	ObjRef	Yes	No	Reference to the added folder.

## AddGroup



Adds a new user group.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
group	Group	Yes	No	The group to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the added group.

## AddInterface

Adds a new interface.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
interface	Interface	Yes	No	The interface to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nilable	Description
ref	ObjRef	Yes	No	Reference to the added interface.

## AddLicenseKey

Adds a new license key to the system.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
licenseKey	string	Yes	No	The license key to add.

## AddPropertyDefinition

Adds a new custom property definition.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
objType	ObjectType	Yes	No	The object type for which the custom property definition should be added.
propertyDefinition	PropertyDefinition	Yes	No	The custom property definition to add.
saveComment	string	No	Yes	Save comment text to associate with the action.
cloudTags	ArrayOfCloudTag	No	Yes	Cloud tags associated with the property.

## AddRange

Adds a new address range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
range	Range	Yes	No	The address range to add.
discovery	Discovery	No	No	The discovery (ping) schedule that should be set for the address range.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nullable	Description
ref	ObjRef	Yes	No	Reference to the added address range.

## AddRole

Adds a new role.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
role	Role	Yes	No	The role to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nullable	Description
ref	ObjRef	Yes	No	Reference to the added role.

## AddRoleToGroup

Adds a role to a group.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
roleRef	ObjRef	Yes	No	A reference to the role to add.
groupRef	ObjRef	Yes	No	A reference to the group to which the role should be added.
saveComment	string	No	Yes	Save comment text to associate with the action.

## AddRoleToUser

Adds a role to a user.

### Arguments

Name	Type	Required	Nullable	Description
------	------	----------	----------	-------------

session	string	Yes	No	Session ID from the Login command.
roleRef	ObjRef	Yes	No	A reference to the role to which the user should be added.
userRef	ObjRef	Yes	No	A reference to the user to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

## AddUser

Adds a new user.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
user	User	Yes	No	The user to add.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nullable	Description
ref	ObjRef	Yes	No	Reference to the added user.

## AddUserToGroup

Adds a user to a group.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
userRef	ObjRef	Yes	No	A reference to the user to add.
groupRef	ObjRef	Yes	No	A reference to the group to which the user should be added.
saveComment	string	No	Yes	Save comment text to associate with the action.

## ApproveChanges

Approve change(s).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
changeRequestRef	ObjRef	Yes	No	An object reference for the change request.
dnsZoneChanges	ArrayOfDNSZoneChange	No	No	Requested DNS zone change(s).
dnsRecordChanges	ArrayOfDNSRecordChange	No	No	Requested DNS record change(s).
dhcpScopeChanges	ArrayOfDHCPScopeChange	No	No	Requested DHCP scope change(s).
dhcpReservationChanges	ArrayOfDHCPReservationChange	No	No	Requested DHCP reservation change(s).
	ArrayOfDHCPExclusionChange			Requested DHCP exclusion

dhcpExclusionChanges	nge	No	No	change(s).
dhcpAddressPoolChanges	ArrayOfDHCPAddressPoolChange	No	No	Requested DHCP address pool change(s).
dhcpOptionChanges	ArrayOfDHCPOptionChange	No	No	Requested DHCP option change(s).
customPropertyChanges	ArrayOfCustomPropertyChange	No	No	Requested customProperty change(s).
saveComment	string	No	Yes	Save comment text to associate with the action.

## ApproveDNSRecordChanges

Approves DNS record change(s).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsRecordChangeRequestRef	ObjRef	Yes	No	An object reference for the DNS record change request.
dnsRecordChanges	ArrayOfDNSRecordChange	Yes	No	The requested DNS record change(s).
saveComment	string	No	Yes	Save comment text to associate with the action.

## FlushFromCacheOnDNSServers

Flushes a single or all DNS entries from cache on given servers.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsServerRefs	ArrayOfObjRef	Yes	No	An array of object references for the DNS servers.
entry	string	No	Yes	Entry to be flushed from cache. If no entry is specified, then the entire cache is flushed.
dnsScopeName	string	No	Yes	The DNS Scope to flush from.
flushRecursively	boolean	No	Yes	Recursively flush the entire domain.
saveComment	string	No	Yes	Save comment text to associate with the action.

## GenerateReverseRecords

Generates or updates reverse records.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
subnets	ArrayOfString	Yes	No	Subnets or reverse zones for which reverse records should be generated/updated.
viewName	string	No	Yes	View for which reverse records should be generated/updated. How existing subdomains of

subdomainHandling	SubdomainHandling	Yes	No	subnets that are being updated should be handled. Save comment text to associate with the action.
saveComment	string	No	Yes	

## Response

Name	Type	Required	Nullable	Description
errors	ArrayOfString	No	Yes	Non-fatal errors that occurred during the update process.

## GetADForest

Gets specified AD forest.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
adForestRef	ObjRef	Yes	No	The object reference for the AD Forest.

## Response

Name	Type	Required	Nullable	Description
adForest	ADForest	Yes	No	The AD Forest object.

## GetADForests

Gets AD forests.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

## Response

Name	Type	Required	Nullable	Description
adForests	ArrayOfADForest	Yes	Yes	List of AD Forests.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetADPartitions

Gets AD partitions from the specified DNS server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.

dnsServerRef	<a href="#">ObjRef</a>	Yes	No	A reference to the DNS server from which to retrieve the Active Directory partitions.
--------------	------------------------	-----	----	---

## Response

Name	Type	Required	Nullable	Description
adPartitions	ArrayOfString	Yes	Yes	List of Active Directory partitions.

## GetADSite

Gets specified AD site.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
adSiteRef	<a href="#">ObjRef</a>	Yes	No	The object reference for the AD Site.

## Response

Name	Type	Required	Nullable	Description
adSite	<a href="#">ADSite</a>	Yes	No	The AD Site object.

## GetADSiteLink

Gets specified AD site link.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
adSiteLinkRef	<a href="#">ObjRef</a>	Yes	No	The object reference for the AD Site Link.

## Response

Name	Type	Required	Nullable	Description
adSiteLink	<a href="#">ADSiteLink</a>	Yes	No	The AD Site Link object.

## GetADSiteLinks

Gets AD site links.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	<a href="#">SortOrder</a>	No	No	The sort order to use.

## Response

Name	Type	Required	Nilable	Description
adSiteLinks	<a href="#">ArrayOfADSiteLink</a>	Yes	Yes	List of AD Site Links.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetADSites

Gets AD sites.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	<a href="#">SortOrder</a>	No	No	The sort order to use.

## Response

Name	Type	Required	Nilable	Description
adSites	<a href="#">ArrayOfADSite</a>	Yes	Yes	List of AD Sites.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetAddressBlocks

Gets specified address range's address blocks.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	<a href="#">ObjRef</a>	Yes	No	Reference to the address range.

## Response

Name	Type	Required	Nilable	Description
addressBlocks	<a href="#">ArrayOfAddressBlock</a>	Yes	Yes	Address range's address blocks.

## GetAddressSpace

Gets specified address space.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
addressSpaceRef	<a href="#">ObjRef</a>	Yes	No	The object reference for the address space.

## Response

Name	Type	Required	Nullable	Description
addressSpace	<a href="#">AddressSpace</a>	Yes	No	The address space object.

## GetAddressSpaces

Gets address spaces.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	<a href="#">SortOrder</a>	No	No	The sort order to use.

## Response

Name	Type	Required	Nullable	Description
addressSpaces	<a href="#">ArrayOfAddressSpace</a>	Yes	Yes	List of address spaces.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetAddressesInUse

Gets addresses in use within the specified address range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
lastseen	<a href="#">Discovery</a>	No	No	Used to filter by the time each address was last seen during discovery (ping).
ranges	<a href="#">ArrayOfRangeTitle</a>	Yes	No	Names of the address ranges in which to look for addresses.

## Response

Name	Type	Required	Nullable	Description
addresses	<a href="#">ArrayOfAddress</a>	Yes	Yes	Addresses that are considered to be in use in the specified address ranges.

## GetAvailableAddressBlocks

Gets available address blocks within the specified range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.



rangeRef	ObjRef	Yes	No	An object reference for the range.
limit	unsignedInt	No	No	The number of address blocks to return.
mask	unsignedInt	No	No	The minimum size of the address blocks, specified as a subnet mask. Defaults to 24 if neither the mask nor size is specified.
size	unsignedInt	No	No	The minimum size of the address blocks, specified as the number of addresses.
ignoreSubnetFlag	boolean	No	No	Determines whether the subnet flag should be ignored when determining the size of the address blocks.
startAddress	IPAddress	No	No	The starting address to use when looking for the next available address block. Ignored when mask is not provided.

## Response

Name	Type	Required	Nullable	Description
addressBlocks	ArrayOfAddressBlock	Yes	Yes	Array of address blocks fulfilling the given criteria.

## GetChangeRequest

Gets specified change request.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
changeRequestRef	ObjRef	Yes	No	An object reference for the change request.

## Response

Name	Type	Required	Nullable	Description
changeRequest	ChangeRequest	Yes	No	The change request object.

## GetChangeRequests

Gets change requests.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
includeChanges	boolean	No	No	Specifies whether changes should be included in the result.
includeProcessedRequests	boolean	No	No	Specifies whether change requests that have already been processed should be included in the result.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first

limit	unsignedInt	No	No	record. The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

## Response

Name	Type	Required	Nullable	Description
changeRequests	ArrayOfChangeRequest	Yes	Yes	List of change requests.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetCloudNetwork

Gets a cloud network object based on the object reference.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
cloudNetworkRef	ObjRef	Yes	No	An object reference for the cloud network.

### Response

Name	Type	Required	Nullable	Description
cloudNetwork	CloudNetwork	Yes	No	The cloud network object.

## GetCloudNetworks

Gets a list of cloud networks.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
cloudNetworks	ArrayOfCloudNetwork	Yes	Yes	List of cloud networks.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetCloudServiceAccount

Gets a cloud service account based on the object reference.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
cloudRef	ObjRef	Yes	No	An object reference for the cloud service account.

### Response

Name	Type	Required	Nullable	Description
cloudServiceAccount	CloudServiceAccount	Yes	No	The cloud service account.

## GetCloudServiceAccounts

Gets a list of cloud service accounts.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
cloudServiceAccounts	ArrayOfCloudServiceAccount	Yes	Yes	List of cloud service accounts.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetCloudServiceInfo

Gets a cloud object based on the object reference.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
cloudRef	ObjRef	No	No	An object reference for the cloud service account.
cloudServiceAccount	CloudServiceAccount	No	No	The cloud service account to add.

### Response

Name	Type	Required	Nullable	Description
cloudServiceInfo	CloudServiceInfo	Yes	No	Information about the cloud service account.

## GetCurrentAddressSpace

Gets address space that the user is currently in.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.

## Response

Name	Type	Required	Nullable	Description
addressSpaceRef	ObjRef	Yes	No	A reference to the current address space.

## GetCustomFilters

Gets a list of custom filters.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.

### Response

Name	Type	Required	Nullable	Description
filters	ArrayOfCustomFilter	Yes	Yes	List of filters.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDHCPAddressPool

Gets specified DHCP address pool.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpAddressPoolRef	ObjRef	Yes	No	An object reference for the DHCP address pool.

### Response

Name	Type	Required	Nullable	Description
dhcpAddressPool	DHCPAddressPool	Yes	No	The DHCP address pool object.

## GetDHCPAddressPoolPermitList

Gets DHCP address pool permit list for the specified DHCP address pool.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpAddressPoolRef	ObjRef	Yes	No	An object reference for the DHCP address pool from which to get the address pool permit list.

### Response

Name	Type	Required	Nullable	Description
dhcpAddressPoolPermits	ArrayOfDHCPAddressPoolPermit	Yes	Yes	List of DHCP address pool permits.

## GetDHCPAddressPools

Gets DHCP address pools.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpScopeRef	<a href="#">ObjRef</a>	No	No	A reference to the scope containing the address pool(s).
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	<a href="#">SortOrder</a>	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
dhcpAddressPools	<a href="#">ArrayOfDHCPAddressPool</a>	Yes	Yes	List of DHCP address pools.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDHCPClassNames

Gets DHCP class names from the specified DHCP server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	<a href="#">ObjRef</a>	Yes	No	An object reference for the DHCP server.

### Response

Name	Type	Required	Nullable	Description
dhcpClassNames	ArrayOfString	Yes	Yes	An array of DHCP class names.

## GetDHCPConcurrentLeases

Gets concurrent leases.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.

### Response

Name	Type	Required	Nullable	Description
dhcpConcurrentLeases	<a href="#">ArrayOfDHCPConcurrentLease</a>	Yes	Yes	An array of leases active in more than one location.

## GetDHCPExclusion

Gets specified DHCP exclusion.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpExclusionRef	ObjRef	Yes	No	An object reference for the DHCP exclusion.

### Response

Name	Type	Required	Nullable	Description
dhcpExclusion	DHCPExclusion	Yes	No	The DHCP exclusion object.

## GetDHCPExclusions

Gets DHCP exclusions.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpScopeRef	ObjRef	No	No	A reference to the scope containing the exclusion(s).
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
dhcpExclusions	ArrayOfDHCPExclusion	Yes	Yes	List of DHCP exclusions.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDHCPFailoverRelationship

Get a DHCP failover relationship.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	ObjRef	Yes	No	An object reference for the DHCP server.
dhcpFailoverRelationshipName	string	Yes	No	The DHCP failover relationship to retrieve.

### Response

Name	Type	Required	Nullable	Description
dhcpFailoverRelationship	DHCPFailoverRelationship	Yes	No	The DHCP failover relationship retrieved.

## GetDHCPFailoverRelationships

Get all DHCP failover relationships from specified DHCP server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	ObjRef	No	No	An object reference for the DHCP server.

### Response

Name	Type	Required	Nullable	Description
dhcpFailoverRelationships	ArrayOfDHCPFailoverRelationship	Yes	Yes	The DHCP failover relationships retrieved.

## GetDHCPGroup

Gets specified DHCP group.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpGroupRef	ObjRef	Yes	No	An object reference for the DHCP group.

### Response

Name	Type	Required	Nullable	Description
dhcpGroup	DHCPGroup	Yes	No	The DHCP group object.

## GetDHCPGroups

Gets DHCP groups from the specified owner (which must reference either a DHCP server or a DHCP scope).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ownerRef	ObjRef	Yes	No	A reference to the object containing the DHCP group(s).
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
dhcpGroups	ArrayOfDHCPGroup	Yes	Yes	List of DHCP groups.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDHCPLeaseHistory

Gets DHCP lease history matching the specified field and filter.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
field	<a href="#">DHCPLeaseField</a>	Yes	No	The field by which to filter.
filter	string	Yes	No	Filtering criteria for the records returned.
exactMatch	boolean	No	No	Set to true if the field should match the filter exactly.
collapseRenew	boolean	No	No	Set to true if renew entries should be collapsed into a single lease history entry.
startDate	<a href="#">DateTime</a>	No	Yes	Date of the first entry to retrieve.
endDate	<a href="#">DateTime</a>	No	Yes	Date of the last entry to retrieve.
limit	unsignedInt	No	No	The number of records to return.

### Response

Name	Type	Required	Nullable	Description
dhcpLeaseHistoryEntries	<a href="#">ArrayOfDHCPLeaseHistoryEntry</a>	Yes	Yes	Array of lease history entries fulfilling the search criteria.

## GetDHCPLeases

Gets DHCP leases from the specified DHCP scope.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpScopeRef	<a href="#">ObjRef</a>	Yes	No	A reference to the scope containing the leases.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	<a href="#">SortOrder</a>	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
dhcpLeases	<a href="#">ArrayOfDHCPLease</a>	Yes	Yes	List of DHCP leases.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDHCPOptionDefinitions

Gets DHCP option definitions for the specified object (which must reference a DHCP server, a DHCP group, a DHCP scope, a DHCP address pool, or a DHCP reservation).



## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ref	ObjRef	Yes	No	A reference to the object from which to get the DHCP option definitions.
objType	ObjectType	No	No	The type of the object from which to get the DHCP option definitions.

## Response

Name	Type	Required	Nullable	Description
dhcpOptionDefinitions	ArrayOfDHCPOptionDefinition	Yes	Yes	The option definitions.

## GetDHCPOptions

Gets DHCP options for the specified object (which must reference a DHCP server, a DHCP group, a DHCP scope, a DHCP address pool, or a DHCP reservation).

## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ref	ObjRef	Yes	No	A reference to the object from which to get the DHCP options.
objType	ObjectType	No	No	The type of the object from which to get the DHCP options.
dhcpPolicyName	string	No	Yes	Name of a MS DHCP policy if applicable.

## Response

Name	Type	Required	Nullable	Description
ticket	unsignedInt	Yes	No	Ticket used for concurrency. Sent back as part of call to SetDHCPOptions and, if there have been changes made to DHCP options for the object since the ticket was returned, the SetDHCPOptions call will fail.
dhcpOptions	ArrayOfDHCPOption	Yes	Yes	The DHCP options.

## GetDHCPPolicies

Get all DHCP policies from the specified owner (which must reference a DHCP server or a DHCP scope).

## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ownerRef	ObjRef	Yes	No	A reference to the DHCP server/scope containing the DHCP policies.
objType	ObjectType	No	No	The object type of the owner (i.e. either DHCP server or DHCP scope).

## Response

Name	Type	Required	Nilable	Description
dhcpPolicies	ArrayOfDHCPPolicy	Yes	Yes	The DHCP policies retrieved.

## GetDHCPPolicyEnforcement

Gets DHCP policy enforcement as set for the specified owner (which must reference a DHCP server or a DHCP scope).

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
ownerRef	ObjRef	Yes	No	A reference to the DHCP server/scope for which the DHCP policy enforcement is set.
objType	ObjectType	No	No	The object type of the owner (i.e. either DHCP server or DHCP scope).

## Response

Name	Type	Required	Nilable	Description
enforcing	boolean	Yes	No	Specifies whether DHCP policies are being enforced.

## GetDHCPReservation

Gets specified DHCP reservation.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpReservationRef	ObjRef	Yes	No	An object reference for the DHCP reservation.

## Response

Name	Type	Required	Nilable	Description
dhcpReservation	DHCPReservation	Yes	No	The DHCP reservation object.

## GetDHCPReservations

Gets DHCP reservations from the specified owner (which must reference a DHCP server, a DHCP group, or a DHCP scope).

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
ownerRef	ObjRef	Yes	No	A reference to the DHCP server/group/scope owning the reservations. Specifying a DHCP server will only return reservations on a server level, not reservations on scope level.
objType	ObjectType	No	No	The object type of the owner (i.e. one of DHCP server/group/scope).

filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

## Response

Name	Type	Required	Nullable	Description
dhcpReservations	ArrayOfDHCPReservation	Yes	Yes	List of DHCP reservations.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDHCPScope

Gets specified DHCP scope.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpScopeRef	ObjRef	Yes	No	An object reference for the DHCP scope.

## Response

Name	Type	Required	Nullable	Description
dhcpScope	DHCPScope	Yes	No	The DHCP scope object.

## GetDHCPScopes

Gets DHCP scopes.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
folderRef	ObjRef	No	No	Reference to a folder from which to get scopes.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

## Response

Name	Type	Required	Nullable	Description
dhcpScopes	ArrayOfDHCPScope	Yes	Yes	List of DHCP scopes.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDHCPServer

Gets specified DHCP server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	ObjRef	Yes	No	An object reference for the DHCP server.

### Response

Name	Type	Required	Nullable	Description
dhcpServer	DHCPServer	Yes	No	The DHCP server object.

## GetDHCPServers

Gets DHCP servers.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
dhcpServers	ArrayOfDHCPServer	Yes	Yes	List of DHCP servers.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDHCPSubclasses

Gets DHCP subclasses from the specified DHCP class on the specified DHCP server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	ObjRef	Yes	No	An object reference for the DHCP server.
dhcpClassName	string	Yes	No	The name of the DHCP class for which to retrieve the subclasses.

### Response

Name	Type	Required	Nullable	Description
dhcpSubclasses	ArrayOfString	Yes	Yes	An array of DHCP subclasses.

## GetDHCPVendorAndUserClasses

Gets DHCP vendor and user classes from the specified DHCP server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	ObjRef	Yes	No	An object reference for the DHCP server.

### Response

Name	Type	Required	Nullable	Description
dhcpVendorClasses	ArrayOfDHCPOptionClass	Yes	Yes	An array of DHCP vendor classes.
dhcpUserClasses	ArrayOfDHCPOptionClass	Yes	Yes	An array of DHCP user classes.

## GetDNSGenerateDirective

Gets specified DNS generate directive.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsGenerateDirectiveRef	ObjRef	Yes	No	An object reference for the DNS generate directive.

### Response

Name	Type	Required	Nullable	Description
dnsGenerateDirective	DNSGenerateDirective	Yes	No	The DNS generate directive object.

## GetDNSGenerateDirectives

Gets DNS generate directives from the specified DNS zone.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsZoneRef	ObjRef	Yes	No	Reference to the zone containing the generate directives.

### Response

Name	Type	Required	Nullable	Description
dnsGenerateDirectives	ArrayOfDNSGenerateDirective	Yes	Yes	List of DNS generate directives.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDNSPTRRecords

Gets all reverse PTR records for specified IP address.

### Arguments

Name	Type	Required	Nullable	Description
------	------	----------	----------	-------------

session	string	Yes	No	Session ID from the Login command.
address	IPAddress	Yes	No	The IP address.
dnsZoneRef	ObjRef	Yes	No	Reference to a forward zone.

## Response

Name	Type	Required	Nullable	Description
reverseRecords	ArrayOfDNSRecord	Yes	Yes	List of reverse records for the specified IP address.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDNSRecord

Gets specified DNS record.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsRecordRef	ObjRef	Yes	No	An object reference for the DNS record.

### Response

Name	Type	Required	Nullable	Description
dnsRecord	DNSRecord	Yes	No	The DNS record object.

## GetDNSRecordChangeRequest

Gets specified DNS record change request.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsRecordChangeRequestRef	ObjRef	Yes	No	An object reference for the DNS record change request.

### Response

Name	Type	Required	Nullable	Description
dnsRecordChangeRequest	DNSRecordChangeRequest	Yes	No	The DNS record change request object.

## GetDNSRecordChangeRequests

Gets DNS record change requests.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
includeDNSRecordChanges	boolean	No	No	Specifies whether DNS record changes should be included in the result.
includeProcessedRequests	boolean	No	No	Specifies whether DNS record change requests that have already been processed should be included in the result.

filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

## Response

Name	Type	Required	Nullable	Description
dnsRecordChangeRequests	ArrayOfDNSRecordChangeRequest	Yes	Yes	List of DNS record change requests.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDNSRecords

Gets DNS records from the specified DNS zone.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsZoneRef	ObjRef	Yes	No	Reference to the zone containing the records. Overrides "offset" and returns a page where "targetRef" is the first record. If target is not found with the given filter, "offset" is not overwritten.
targetRef	ObjRef	No	Yes	Reference to the zone containing the records. Overrides "offset" and returns a page where "targetRef" is the first record. If target is not found with the given filter, "offset" is not overwritten.
filter	string	No	Yes	Filtering criteria for the records returned.
hideNonAccessibleHosts	boolean	No	No	If set to true the resulting set will not contain records for which the user has no access.
syncZone	boolean	No	No	If set to true will synchronize the zone from the server before returning records.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

## Response

Name	Type	Required	Nullable	Description
dnsRecords	ArrayOfDNSRecord	Yes	Yes	List of records.
offset	unsignedInt	No	No	Offset of page returned when "targetRef" is specified and found.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDNSRecordsInCaches

Get DNS records with a certain pattern that are cached on given DNS servers.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsServerRefs	ArrayOfObjRef	No	Yes	List of DNS servers to search on.
dnsSearchPattern	string	Yes	No	The pattern to search for. Should be a fully qualified domain name.
dnsScopeName	string	No	Yes	The Cache Scope to be searched in.
limit	unsignedInt	No	No	The number of records to return. A limit of zero returns all matched records.

### Response

Name	Type	Required	Nullable	Description
dnsCaches	ArrayOfDNSCache	Yes	Yes	List of DNS caches.
errors	ArrayOfObjectError	Yes	Yes	List of error messages. One for each server that could not be queried due to an error.

## GetDNSReverseZone

Gets reverse DNS zone for specified IP address.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
address	IPAddress	Yes	No	The IP address.
dnsZoneRef	ObjRef	Yes	No	Reference to a forward zone.

### Response

Name	Type	Required	Nullable	Description
dnsZone	DNSZone	No	Yes	The reverse DNS zone for the specified IP address.

## GetDNSServer

Gets specified DNS server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsServerRef	ObjRef	Yes	No	An object reference for the DNS server.

### Response

Name	Type	Required	Nullable	Description
dnsServer	DNSServer	Yes	No	The DNS server object.



## GetDNSServers

Gets DNS servers.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
dnsServers	ArrayOfDNSServer	Yes	Yes	List of DNS servers.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDNSView

Gets specified DNS view.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsViewRef	ObjRef	Yes	No	An object reference for the DNS view.

### Response

Name	Type	Required	Nullable	Description
dnsView	DNSView	Yes	No	The DNS view object.

## GetDNSViews

Gets DNS views.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsServerRef	ObjRef	No	No	A reference to the DNS server.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.

sortOrder	SortOrder	No	No	The sort order to use.
-----------	-----------	----	----	------------------------

## Response

Name	Type	Required	Nullable	Description
dnsViews	ArrayOfDNSView	Yes	Yes	List of DNS server views.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetDNSZone

Gets specified DNS zone.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsZoneRef	ObjRef	Yes	No	An object reference for the DNS zone.

### Response

Name	Type	Required	Nullable	Description
dnsZone	DNSZone	Yes	No	The DNS zone object.

## GetDNSZones

Gets DNS zones.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
folderRef	ObjRef	No	No	Only return zones within the specified folder.
dnsViewRef	ObjRef	No	No	Only return zones within the specified view.
dnsServerRef	ObjRef	No	No	Only return zones on the specified server.
targetRef	ObjRef	No	No	Overrides "offset" and returns a page where "targetRef" is the first record. If target is not found with the given filter, "offset" is not overwritten.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
dnsZones	ArrayOfDNSZone	Yes	Yes	List of zones.
offset	unsignedInt	No	No	Offset of page returned when "targetRef" is specified and found.

totalResults	unsignedInt	Yes	No	Total number of records in the result set.
--------------	-------------	-----	----	--

## GetDevice

Gets specified device.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
deviceRef	ObjRef	Yes	No	The object reference for the device.

### Response

Name	Type	Required	Nullable	Description
device	Device	Yes	No	The device object.

## GetDevices

Gets devices.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
devices	ArrayOfDevice	Yes	Yes	List of devices.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetFolder

Gets specified folder.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
folderRef	ObjRef	Yes	No	An object reference for the folder.

### Response

Name	Type	Required	Nullable	Description
folder	Folder	Yes	No	The folder object.

## GetFolderForObject

Gets the folder that contains the specified object.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ref	ObjRef	Yes	No	A reference to the object for which to retrieve the containing folder.
objType	ObjectType	No	No	The object type.

### Response

Name	Type	Required	Nullable	Description
folder	ObjRef	No	No	The folder object.

## GetFolders

Gets a list of folders.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
folders	ArrayOfFolder	Yes	Yes	List of folders.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetGroup

Gets a group object based on the object reference.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
groupRef	ObjRef	Yes	No	An object reference for the group.

### Response

Name	Type	Required	Nullable	Description
group	Group	Yes	No	The group object.

## GetGroups

Gets a list of user groups.

## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
userRef	ObjRef	No	No	Reference to a user from which to get roles.
roleRef	ObjRef	No	No	Reference to a role that the group should have.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

## Response

Name	Type	Required	Nullable	Description
groups	ArrayOfGroup	Yes	Yes	List of groups.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetHistory

Gets event history.

## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
eventType	EventType	No	No	The type of event to retrieve. If not specified, entries for all event types are retrieved.
objType	ObjectType	No	No	The type of object to retrieve. If not specified, entries for all object types are retrieved.
objRef	ObjRef	No	No	If specified, only history entries for the specified object will be retrieved.
username	string	No	Yes	The login name of the user for which to retrieve history entries. If not specified, entries for all users are retrieved.
startDate	DateTime	No	Yes	Date of the first entry to retrieve.
endDate	DateTime	No	Yes	Date of the last entry to retrieve.
filter	string	No	Yes	Filtering criteria for the records returned.
limit	unsignedInt	No	No	The number of records to return.
offset	unsignedInt	No	No	Specifies the offset to use when listing the history entries. A value of 0 starts with the first entry.

sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

## Response

Name	Type	Required	Nilable	Description
events	ArrayOfEvent	Yes	Yes	List of events.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetIPAMRecord

Gets IPAM record for the specified IP address.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
addrRef	ObjRef	Yes	No	An object reference for the IPAM record.
requireRangeRef	ObjRef	No	No	Reference to a range in which the relevant IP address must reside, otherwise the GetIPAMRecord call will fail.
excludeDHCP	boolean	No	No	Set to true to exclude DHCP data from result.

## Response

Name	Type	Required	Nilable	Description
ipamRecord	IPAMRecord	Yes	No	The IPAM record object.

## GetIPAMRecords

Gets IPAM records from a specific range or for specific IPAM records.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	No	No	A reference to the range containing the addresses. Specified when getting IPAM records from a specific range.
addrRefs	ArrayOfObjRef	No	No	An array of references to the IPAM records to retrieve. Specified when getting specific IPAM records.
includeRelatedDNSRecords	boolean	No	No	Set to true if IPAM record should include DNS records related to any DNS hosts returned.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
excludeDHCP	boolean	No	No	Set to true to exclude DHCP data from result.

## Response

Name	Type	Required	Nullable	Description
ipamRecords	ArrayOfIPAMRecord	Yes	Yes	List of IPAM records.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetInheritAccess

Gets inherit access flag for the specified range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	Yes	No	A reference to the range.

## Response

Name	Type	Required	Nullable	Description
inheritAccess	boolean	Yes	No	Inherit access flag.

## GetInheritedDHCPOptions

Gets inherited DHCP options for the specified object (which must reference a DHCP server, a DHCP group, a DHCP scope, a DHCP address pool, or a DHCP reservation).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ref	ObjRef	Yes	No	A reference to the object for which to get inherited DHCP options.
objType	ObjectType	No	No	The type of the object for which to get inherited DHCP options.
policyName	string	No	Yes	Name of a DHCP server or scope policy to get inherited options for. Only supported on Microsoft servers version 2012 and higher.

## Response

Name	Type	Required	Nullable	Description
inheritedDHCPOptions	ArrayOfSourcedDHCPOptions	Yes	Yes	The inherited DHCP options.

## GetInterface

Gets specified interface.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
interfaceRef	ObjRef	Yes	No	The object reference for the interface.

## Response

Name	Type	Required	Nullable	Description
interface	Interface	Yes	No	The interface object.

## GetInterfaces

Gets interfaces.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
deviceRef	ObjRef	No	No	A reference to the device containing the interfaces.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
interfaces	ArrayOfInterface	Yes	Yes	List of interfaces.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetNextFreeAddress

Gets next free address from the specified range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	Yes	No	A reference to the address range from which to return the free address.
startAddress	IPAddress	No	No	The starting address to use when looking for the next free address.
ping	boolean	No	No	If true the system will ping the address found before returning. If the address responds to a ping request, it is considered to be in use.
excludeDHCP	boolean	No	No	Set to true to exclude DHCP data from result.
temporaryClaimTime	unsignedInt	No	No	If set, claims the next free address for the given time in seconds.

### Response

Name	Type	Required	Nullable	Description
address	IPAddress	No	No	The next free IP address in the address range.

## GetNextFreeReservationAddress



Gets next free reservable address from the specified scope.

## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
objRef	ObjRef	Yes	No	A reference to the scope from which to return the free address.
startAddress	IPAddress	No	No	The starting address to use when looking for the next free address.
considerExclusionRange	boolean	No	No	Determines whether to look for a free address in an excluded range inside the scope.

## Response

Name	Type	Required	Nullable	Description
address	IPAddress	No	No	The next reservable IP address in the scope.

## GetObjectAccess

Gets access set for the specified object.

## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ref	ObjRef	Yes	No	A reference to the object.
objType	ObjectType	No	No	The type of the object.
identityRef	ObjRef	No	No	Object reference for a user or group. If specified, the command only retrieves access for the specified user or group.
excludeBuiltinIdentities	boolean	No	No	Set to true to exclude access for builtin users and groups.

## Response

Name	Type	Required	Nullable	Description
objectAccess	ObjectAccess	Yes	No	Object access information.

## GetObjects

Gets specified objects.

## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
objRefs	ArrayOfObjRef	Yes	No	Array of object references.
objType	ObjectType	No	No	The type of the object.

## Response

Name	Type	Required	Nullable	Description
objects	ArrayOfObject	Yes	Yes	List of objects.

## GetObjectsInFolder

Gets all objects in the folder specified.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
folderRef	ObjRef	Yes	No	Reference to the folder.

### Response

Name	Type	Required	Nullable	Description
objects	ArrayOfObject	Yes	Yes	List of all the objects in the specified folder.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetOrphanReverseDNSRecords

Gets orphan reverse DNS records (i.e. PTR records whose corresponding A/AAAA record is missing).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
limit	unsignedInt	No	No	The number of records to return.

### Response

Name	Type	Required	Nullable	Description
dnsRecords	ArrayOfDNSRecord	Yes	Yes	An array of PTR records having no corresponding A/AAAA record.
totalResults	unsignedInt	No	No	Total number of records in the result set.

## GetProperties

Gets properties for the specified object.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ref	ObjRef	Yes	No	Reference to the object for which to get the properties.
objType	ObjectType	No	No	The type of the object.
onlyCustom	boolean	No	No	Set to true if only the custom properties for the object should be returned. Default value is false.

### Response

Name	Type	Required	Nullable	Description
properties	ArrayOfProperty	Yes	Yes	List of properties for the object.

## GetPropertyDefinition

Gets the definition for a specified property of the given object type.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
objType	ObjectType	Yes	No	The type of the object.
property	string	Yes	No	The name of the property.

### Response

Name	Type	Required	Nullable	Description
propertyDefinition	PropertyDefinition	No	No	A property definition.

## GetPropertyDefinitions

Gets all the property definitions for the specified object type.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
objType	ObjectType	Yes	No	The type of the object.

### Response

Name	Type	Required	Nullable	Description
propertyDefinitions	ArrayOfPropertyDefinition	Yes	Yes	List of property definitions for the object.

## GetRange

Gets specified range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	Yes	No	An object reference for the IPAM range.

### Response

Name	Type	Required	Nullable	Description
range	Range	Yes	No	The range object.

## GetRangeByIPAddress

Gets range containing specified IP address.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
addrRef	ObjRef	Yes	No	A reference to the IP address.

### Response

Name	Type	Required	Nullable	Description
range	Range	Yes	No	The range containing the specified IP address.

## GetRangeDiscovery

Gets discovery (ping) schedule for specified range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	Yes	No	An object reference for the IPAM range.

### Response

Name	Type	Required	Nullable	Description
discovery	Discovery	No	No	The discovery (ping) schedule of the address range.

## GetRangeStatistics

Gets range statistics.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	Yes	No	A reference to the range.

### Response

Name	Type	Required	Nullable	Description
used	string	No	No	Number of used addresses in the address range.
free	string	No	No	Number of free addresses in the address range.
numInSubranges	string	No	No	Number of addresses in range allocated to subranges.
percentInSubranges	string	Yes	No	Percent of range allocated to subranges.

## GetRanges

Gets ranges.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
folderRef	ObjRef	No	No	Reference to a folder from which to get ranges.
adSiteRef	ObjRef	No	No	Reference to an AD Site from which to get ranges.
cloudNetworkRef	ObjRef	No	No	Reference to a cloud network from which to get ranges.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.

limit	unsignedInt	No	No	The number of records to return.
targetRef	ObjRef	No	No	Overrides "offset" and returns a page where "targetRef" is the first record. If target is not found with the given filter, "offset" is not overwritten.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

## Response

Name	Type	Required	Nullable	Description
ranges	ArrayOfRange	Yes	Yes	List of ranges.
offset	unsignedInt	No	No	Offset of page returned when "targetRef" is specified and found.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetRangesWithStatistics

Gets ranges, along with their statistics.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
calculateUtilization	boolean	Yes	No	Determines whether to calculate the number of used and free addresses in the ranges.
filter	string	No	Yes	Filtering criteria for the records returned.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

## Response

Name	Type	Required	Nullable	Description
rangesWithStatistics	ArrayOfRangeWithStatistics	Yes	Yes	List of ranges with information about used and free addresses.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetRelatedDNSRecords

Gets DNS records related to the specified DNS record (which must be either an A or AAAA record).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
				An object reference for the DNS address record for

dnsRecordRef	<a href="#">ObjRef</a>	Yes	No	which to find associated records.
--------------	------------------------	-----	----	-----------------------------------

## Response

Name	Type	Required	Nullable	Description
dnsRecords	<a href="#">ArrayOfDNSRecord</a>	Yes	Yes	An array of records associated with the address record.

## GetRole

Gets a role object based on the object reference.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
roleRef	<a href="#">ObjRef</a>	Yes	No	An object reference for the role.

### Response

Name	Type	Required	Nullable	Description
role	<a href="#">Role</a>	Yes	No	The role object.

## GetRoles

Gets a list of roles.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
userRef	<a href="#">ObjRef</a>	No	No	Reference to a user from which to get roles.
groupRef	<a href="#">ObjRef</a>	No	No	Reference to a group from which to get roles.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	<a href="#">SortOrder</a>	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
roles	<a href="#">ArrayOfRole</a>	Yes	Yes	List of roles.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

## GetRoutersForRange

Gets routers for the specified range.

### Arguments

Name	Type	Required	Nullable	Description
------	------	----------	----------	-------------

session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	Yes	No	A reference to the range.
includeChildRanges	boolean	No	No	If set, return routers for child ranges as well.

## Response

Name	Type	Required	Nullable	Description
addresses	ArrayOfIPAddress	Yes	Yes	List of router IP addresses.

## GetServiceStatus

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
serverRef	ObjRef	Yes	No	An object reference for the server.

### Response

Name	Type	Required	Nullable	Description
serviceStatus	ServiceStatus	Yes	No	The service status.

## GetSubranges

Gets subranges of the specified range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
parentRef	ObjRef	No	No	A reference to the range that contains the subranges.
depth	unsignedInt	No	No	Specifies how many levels of subranges should be retrieved.

### Response

Name	Type	Required	Nullable	Description
ranges	ArrayOfRange	Yes	Yes	List of subranges.

## GetSystemSettings

Gets system settings.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.

### Response

Name	Type	Required	Nullable	Description
systemSettings	ArrayOfSystemSetting	Yes	Yes	List of system settings.

## GetUser

Gets specified user.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
userRef	ObjRef	Yes	No	An object reference for the user. Use "." to get the current user.

### Response

Name	Type	Required	Nullable	Description
user	User	Yes	No	The user object.

### GetUsers

Gets users.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
filter	string	No	Yes	Filtering criteria for the records returned.
groupRef	ObjRef	No	No	Reference to a group from which to get users.
roleRef	ObjRef	No	No	Reference to a role that the user should have.
offset	unsignedInt	No	No	Specifies the offset to use when listing the records. A value of 0 starts with the first record.
limit	unsignedInt	No	No	The number of records to return.
sortBy	string	No	No	The name of the field to sort by.
sortOrder	SortOrder	No	No	The sort order to use.

### Response

Name	Type	Required	Nullable	Description
users	ArrayOfUser	Yes	Yes	Array of users.
totalResults	unsignedInt	Yes	No	Total number of records in the result set.

### HasAccess

Checks whether the currently logged in user has the specified access for the specified objects.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
accessName	string	Yes	No	The name of the access entry for which to check.
objRefs	ArrayOfObjRef	Yes	No	References to the objects for which to check the access.
objType	ObjectType	No	No	The type of the objects for which to check for access.

### Response



Name	Type	Required	Nullable	Description
hasAccessEntries	ArrayOfHasAccessEntry	Yes	No	Entries specifying whether the user has access to each object.

## JoinRanges

Joins the specified address ranges together into a new address range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ranges	ArrayOfObjRef	Yes	No	References to the address ranges to join. A reference to the address range containing the access information that should be used for the new address range.
copyAccessFromRef	ObjRef	No	No	Determines if the new address range should be defined as a subnet.
subnet	boolean	No	No	Determines if the new address range should be set as locked.
locked	boolean	No	No	Determines if it should be possible to automatically assign IP addresses from the new address range.
autoAssign	boolean	No	No	Determines if the new address range should inherit access from its parent range.
inheritAccess	boolean	No	No	The custom properties for the new address range.
customProperties	ArrayOfProperty	No	No	The discovery (ping) schedule that should be set for the new address range.
discovery	Discovery	No	No	Save comment text to associate with the action.
saveComment	string	No	Yes	

### Response

Name	Type	Required	Nullable	Description
ref	ObjRef	Yes	No	Reference to the resulting address range.

## Login

Logs into the Men & Mice Suite through the SOAP interface.

### Arguments

Name	Type	Required	Nullable	Description
server	string	Yes	No	DNS name or IP address of the server running Men & Mice Central.
loginName	string	Yes	No	Login name of user.
password	string	Yes	No	User password.
replaceControlCharacters	boolean	No	No	Determines if invalid control characters in user data should be replaced by a question mark. If true then the webservice should response with HTTP

unauthorizedAsForbidden	boolean	No	No	status code forbidden instead of authorization required. Not applicable to SOAP/XML since SOAP/XML don't expect different HTTP status codes.
-------------------------	---------	----	----	--

## Response

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID for this login.

## Logout

Logs out of the Men & Mice Suite.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.

## MigrateDNSZone

Migrates a DNS zone.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
dnsZoneRef	ObjRef	Yes	No	An object reference for the DNS zone.
dnsServerRef	ObjRef	Yes	No	An object reference for the destination DNS server.
dnsViewRef	ObjRef	No	Yes	An object reference for a view on the destination DNS server.
saveComment	string	No	Yes	Save comment text to associate with the action.

## ModifyDHCPFailoverRelationship

Modifies the specified DHCP failover relationship on the specified DHCP server.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpFailoverRelationship	DHCPFailoverRelationship	Yes	No	The DHCP failover relationship to modify.
saveComment	string	No	Yes	Save comment text to associate with the action.

## ModifyDHCPOptionDefinition

Modifies the specified DHCP option definition on the specified DHCP server.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
				The DHCP server on which

dhcpServerRef	ObjRef	Yes	No	the option definition should be modified. The DHCP option definition to modify. Save comment text to associate with the action.
dhcpOptionDefinition	DHCPOptionDefinition	Yes	No	
saveComment	string	No	Yes	

## ModifyDHCPPolicy

Modifies the specified DHCP policy on the specified owner (which must reference a DHCP server or a DHCP scope).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ownerRef	ObjRef	Yes	No	A reference to the DHCP server/scope containing the DHCP policies.
objType	ObjectType	No	No	The object type of the owner (i.e. either DHCP server or DHCP scope).
dhcpPolicyName	string	Yes	No	The DHCP policy to modify.
dhcpPolicy	DHCPPolicy	Yes	No	The DHCP policy.
saveComment	string	No	Yes	Save comment text to associate with the action.

## ModifyPropertyDefinition

Modifies a custom property definition.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
objType	ObjectType	Yes	No	The object type to which the custom property definition is associated.
property	string	Yes	No	The name of the custom property definition.
propertyDefinition	PropertyDefinition	Yes	No	The modified custom property definition.
updateExisting	boolean	No	No	Should objects be updated with the new value.
saveComment	string	No	Yes	Save comment text to associate with the action.
cloudTags	ArrayOfCloudTag	No	Yes	Cloud tags associated with the property.

## MoveIPAMRecord

Moves an IPAM record from one IP address to another.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
fromRef	ObjRef	Yes	No	Reference to the IP address from which the IPAM record should be moved.
toRef	ObjRef	Yes	No	Reference to the IP address to which the IPAM record should be moved.
				Save comment text to

saveComment	string	No	Yes	associate with the action. If set to true, will ignore and overwrite existing custom property values on destination IP address.
force	boolean	No	Yes	

## Response

Name	Type	Required	Nullable	Description
errors	ArrayOfError	Yes	Yes	Error messages. One error message is generated for each part of the IPAM record that could not be successfully moved.

## MoveToAddressSpace

Moves the specified objects to the specified address space.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
objRefs	ArrayOfObjRef	Yes	No	References to the objects that should be moved.
objType	ObjectType	No	No	The type of the objects that should be moved.
addressSpaceRef	ObjRef	No	No	Reference to the address space to which the objects should be moved.
saveComment	string	No	Yes	Save comment text to associate with the action.
force	boolean	No	No	A flag to decide if the move should proceed or not when there are warnings on conflicting ranges or addresses in the target address space.

## Response

Name	Type	Required	Nullable	Description
errors	ArrayOfObjectError	Yes	Yes	Error messages. One error message is generated for each object that could not be successfully moved.

## Ping

Sends an ICMP ping request to the specified address.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
addrRef	ObjRef	Yes	No	Reference to the IP address to ping.

## Response

Name	Type	Required	Nullable	Description
alive	boolean	Yes	No	Determines whether the host responded to the ping request. The response time in

pingTime	unsignedInt	Yes	No	milliseconds.
----------	-------------	-----	----	---------------

## PlaceInADSite

Places the specified address ranges in the specified AD site.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
adSiteRef	<a href="#">ObjRef</a>	Yes	No	Reference to the AD site in which the address ranges should be placed.
rangeRefs	<a href="#">ArrayOfObjRef</a>	Yes	No	References to the address ranges that should be placed in the AD site.
location	string	No	Yes	Location property to be set for AD subnet.
description	string	No	Yes	Description property to be set for AD subnet.
saveComment	string	No	Yes	Save comment text to associate with the action.

## PlaceInCloudNetwork

Places the specified subnets in the specified cloud network.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
cloudNetworkRef	<a href="#">ObjRef</a>	Yes	No	Reference to the cloud network in which the subnets should be placed.
cloudSubnets	<a href="#">ArrayOfCloudSubnet</a>	Yes	No	The subnets that should be placed in the cloud network.
saveComment	string	No	Yes	Save comment text to associate with the action.

## PlaceInFolder

Places the specified objects in the specified folder.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
folderRef	<a href="#">ObjRef</a>	Yes	No	Reference to the folder in which the objects should be placed.
objRefs	<a href="#">ArrayOfObjRef</a>	Yes	No	References to the objects that should be placed in the folder.
saveComment	string	No	Yes	Save comment text to associate with the action.

## PromoteDNSSlaveZone

Promotes a DNS slave zone.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsZoneRef	ObjRef	Yes	No	An object reference for the DNS slave zone.
unchangedPrimaryMaster	boolean	No	No	Specifies whether primary master field should be left unchanged.
masterZoneRef	ObjRef	No	Yes	Optional object of the master zone linked to the slave zone, can be used to save time in lookups or resolve name conflicts
useSlaveZoneRecords	boolean	No	Yes	Specifies whether to use the records from the slave server in the promotion instead of fetching them from the master server.
saveComment	string	No	Yes	Save comment text to associate with the action.

## ReconcileDHCPscope

Performs reconcile action on a specific scope or on all scopes on a specific server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ref	ObjRef	Yes	No	Reference to the DHCP scope on which to perform the reconcile action or reference to the DHCP server on which to perform the reconcile action for each of the server's scopes.
objType	ObjectType	No	No	The type of the object on which the reconcile action should be performed. Must be either DHCPserver or DHCPscope.
fix	boolean	No	No	Set to true in order to instruct the relevant DHCP server to try and fix any entries that require reconciling.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nullable	Description
dhcpScopeReconcileEntries	ArrayOfDHCPscopeReconcileEntry	Yes	Yes	.

## RejectChanges

Reject change(s).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
changeRequestRef	ObjRef	Yes	No	An object reference for the change request.

dnsZoneChanges	ArrayOfDNSZoneChange	No	No	Requested DNS zone change(s).
dnsRecordChanges	ArrayOfDNSRecordChange	No	No	Requested DNS record change(s).
dhcpScopeChanges	ArrayOfDHCPScopeChange	No	No	Requested DHCP scope change(s).
dhcpReservationChanges	ArrayOfDHCPReservationChange	No	No	Requested DHCP reservation change(s).
dhcpExclusionChanges	ArrayOfDHCPExclusionChange	No	No	Requested DHCP exclusion change(s).
dhcpAddressPoolChanges	ArrayOfDHCPAddressPoolChange	No	No	Requested DHCP address pool change(s).
dhcpOptionChanges	ArrayOfDHCPOptionChange	No	No	Requested DHCP option change(s).
customPropertyChanges	ArrayOfCustomPropertyChange	No	No	Requested customProperty change(s).
saveComment	string	No	Yes	Save comment text to associate with the action.

## RejectDNSRecordChanges

Rejects DNS record change(s).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsRecordChangeRequestRef	ObjRef	Yes	No	An object reference for the DNS record change request.
dnsRecordChanges	ArrayOfDNSRecordChange	Yes	No	The requested DNS record change(s).
saveComment	string	No	Yes	Save comment text to associate with the action.

## ReleaseDHCPLease

Releases the specified DHCP lease.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpScopeRef	ObjRef	Yes	No	Reference to the DHCP scope from which the lease should be released.
lease	IPAddress	Yes	No	IP address of the lease.
saveComment	string	No	Yes	Save comment text to associate with the action.

## ReleaseDHCPLeases

Releases the specified DHCP leases.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpLeaseRef	ArrayOfDHCPLeaseReference	Yes	No	The DHCP leases to be released.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveDHCPFailoverRelationships

Remove a DHCP failover relationship.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpRefAndFailoverRelationshipNames	ArrayOfDHCPRefAndFailoverRelationshipName	Yes	No	An array of DHCP failover relationships to remove.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveDHCPOptionDefinition

Removes the specified DHCP option definition from the specified DHCP server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	ObjRef	Yes	No	The DHCP server from which the option definition should be removed.
dhcpOptionDefinition	DHCPOptionDefinition	Yes	No	The DHCP option definition to remove.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveDHCPPolicy

Remove a DHCP policy from the specified owner (which must reference a DHCP server or a DHCP scope).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ownerRef	ObjRef	Yes	No	A reference to the DHCP server/scope containing the DHCP policy.
objType	ObjectType	No	No	The object type of the owner (i.e. either DHCP server or DHCP scope).
dhcpPolicyName	string	Yes	No	The DHCP policy to remove.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveDHCPScopesFromDHCPFailoverRelationship

Remove DHCP scope(s) from a DHCP failover relationship.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	ObjRef	Yes	No	An object reference for the DHCP server.
dhcpFailoverRelationshipName	string	Yes	No	The DHCP failover relationship. References to DHCP scopes that should be



dhcpScopeRefs	ArrayOfObjRef	Yes	No	removed from the DHCP failover relationship.
dhcpFailoverRelationshipDeconfigureAction	DHCPFailoverDeconfigureAction	No	Yes	Optionally disable or delete DHCP scopes on partner server.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveFromADSite

Removes the specified address ranges from the specified AD site.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
adSiteRef	ObjRef	Yes	No	Reference to the AD site from which the address ranges should be removed.
rangeRefs	ArrayOfObjRef	Yes	No	References to the address ranges that should be removed from the AD site.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveFromCloudNetwork

Removes the specified address ranges from their respective cloud networks.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRefs	ArrayOfObjRef	Yes	No	References to the address ranges that should be removed from cloud networks.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveFromFolder

Removes the specified objects from the folder they are in.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
folderRef	ObjRef	No	Yes	Reference to the folder from which the objects should be removed.
objRefs	ArrayOfObjRef	Yes	No	References to the objects that should be removed from the folder they are in.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveObject

Removes the specified object.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ref	ObjRef	Yes	No	Reference to the object that should be removed.
objType	ObjectType	No	No	The type of the object that should be removed.
forceRemoval	boolean	No	No	If possible, then force removal of object.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveObjects

Removes the specified objects.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
objRefs	ArrayOfObjRef	Yes	No	References for the objects that should be removed.
objType	ObjectType	No	No	The type of the objects that should be removed.
forceRemoval	boolean	No	No	If possible, then force removal of object.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nullable	Description
errors	ArrayOfObjectError	Yes	Yes	Error messages. One error message is generated for each object that could not be successfully removed.

## RemovePropertyDefinition

Removes the specified custom property definition.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
objType	ObjectType	Yes	No	The object type to which the custom property definition is associated.
property	string	Yes	No	The name of the custom property definition.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveRoleFromGroup

Removes a role from a group.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
				A reference to the role to

roleRef	ObjRef	Yes	No	remove.
groupRef	ObjRef	Yes	No	A reference to the group from which the role should be removed.
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveRoleFromUser

Removes a role from a user.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
roleRef	ObjRef	Yes	No	A reference to the role to remove.
userRef	ObjRef	Yes	No	A reference to the user from which the role should be removed..
saveComment	string	No	Yes	Save comment text to associate with the action.

## RemoveUserFromGroup

Removes a user from a group.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
userRef	ObjRef	Yes	No	A reference to the user to remove.
groupRef	ObjRef	Yes	No	A reference to the group from which the user should be removed.
saveComment	string	No	Yes	Save comment text to associate with the action.

## ReplicateDHCPFailover

Replicate DHCP failover, either for each DHCP failover relationship on the DHCP server, for a specific DHCP failover relationship or for a specific DHCP scope.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	ObjRef	Yes	No	An object reference for the DHCP server.
dhcpFailoverRelationshipName	string	No	No	DHCP failover relationship.
dhcpScopeRef	ObjRef	No	No	An object reference for a DHCP scope.
saveComment	string	No	Yes	Save comment text to associate with the action.

## ReportAccess

Reports on access set for the specified identity (which must reference either a user or a group).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
identityRef	ObjRef	Yes	No	Object reference for a user or group. The command only retrieves access information for the specified user or group.
identityType	ObjectType	No	No	The object type of the identity.
objTypes	ArrayOfObjectType	Yes	No	List of object types for which to return access information.

## Response

Name	Type	Required	Nullable	Description
objectAccess	ArrayOfObjectAccess	Yes	Yes	Access information for the objects.

## ReportDHCPScopeOptions

Reports on DHCP scopes that either have or do not have the specified value or have no value set for the specified DHCP option.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
reportType	DHCPScopeOptionsReportType	Yes	No	Specifies the report type to return.
option	unsignedInt	Yes	No	The option to query for.
vendorClass	string	No	No	The vendor class to use.
userClass	string	No	No	The user class to use.
value	string	No	No	The value to query for.
filter	string	No	Yes	Filtering criteria for the records returned.

### Response

Name	Type	Required	Nullable	Description
entries	ArrayOfDHCPScopeOptionsReportEntry	Yes	Yes	List of scopes fulfilling the search criteria.

## ReportHostDiscovery

Reports on host discovery, either for hosts with data which have not been answering during discovery or for hosts without data which have answered during discovery.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
type	HostDiscoveryType	Yes	No	Specifies the report type to return.
startDate	DateTime	No	No	The start date to use.
subnetFilter	string	No	Yes	The subnet to use if the host list should return results for a given subnet.
limit	unsignedInt	No	Yes	The maximum number of entries to return.

### Response

Name	Type	Required	Nullable	Description
	ArrayOfHostDiscoveryReportEntry			List of host entries fulfilling

entries	tEntry	Yes	Yes	the search criteria.
---------	--------	-----	-----	----------------------

## ReportIPFromClientIdentifier

Reports on DHCP reservations and DHCP leases that are associated with the specified client identifier.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
clientIdentifier	string	Yes	No	Specifies the MAC address or client identifier to search for.

### Response

Name	Type	Required	Nullable	Description
dhcpReservations	ArrayOfDHCPReservation	Yes	Yes	An array of DHCP reservations that match the client identifier.
dhcpLeases	ArrayOfDHCPLease	Yes	Yes	An array of DHCP leases that match the client identifier.
addresses	ArrayOfIPAddress	Yes	Yes	An array of IP addresses that are associated with either a DHCP lease or reservation that match the client identifier.

## ReportMergeAddressSpaces

Reports on possible conflicts and warnings when moving an object between address spaces.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
srcAddressSpaceRef	ObjRef	Yes	No	A reference to the source address space.
destAddressSpaceRef	ObjRef	Yes	No	A reference to the destination address space.

### Response

Name	Type	Required	Nullable	Description
entries	ArrayOfMergeAddressSpacesReportEntry	Yes	Yes	List of possible conflicts.
totalResults	unsignedInt	Yes	No	Total number of possible conflicts.

## ReportMultilabelHosts

Reports all A and AAAA records that have multiple labels in the name field.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.

### Response

Name	Type	Required	Nullable	Description
	ArrayOfMultiLabelHostReportEntry			List of hosts fulfilling the

hosts	<a href="#">rtEntry</a>	Yes	Yes	search criteria.
-------	-------------------------	-----	-----	------------------

## RunCommand

Runs a command and returns the output.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
name	string	Yes	No	The command to run.
parameters	string	No	Yes	Parameters for the command.
interpreter	string	No	Yes	Optional interpreter.
interpreterParameters	string	No	Yes	Optional interpreter parameters.

### Response

Name	Type	Required	Nilable	Description
output	string	No	Yes	The output of the command.

## SendMail

Sends an email message through an SMTP mail server.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
smtpServer	string	Yes	No	The name of the SMTP mail server.
from	string	Yes	No	The sender's email address.
to	string	Yes	No	Comma separated list of recipient email addresses.
cc	string	No	No	Comma separated list of email addresses for cc recipients.
bcc	string	No	No	Comma separated list of email addresses for bcc recipients.
subject	string	No	No	The subject of the email message.
body	string	Yes	No	The body of the email message.

## SetCurrentAddressSpace

Switches over to the specified address space.

### Arguments

Name	Type	Required	Nilable	Description
session	string	Yes	No	Session ID from the Login command.
addressSpaceRef	<a href="#">ObjRef</a>	Yes	No	Reference to the address space to which should be switched.

## SetDHCPAddressPoolPermitList

Sets DHCP address pool permit list for the specified DHCP address pool.

## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpAddressPoolRef	ObjRef	Yes	No	Reference to the DHCP address pool for which to set the address pool permit list.
dhcpAddressPoolPermits	ArrayOfDHCPAddressPoolPermit	Yes	Yes	The DHCP address pool permit list to set.
saveComment	string	No	Yes	Save comment text to associate with the action.

## SetDHCPOptions

Sets DHCP options for the specified object (which must reference a DHCP server, a DHCP group, a DHCP scope, a DHCP address pool, or a DHCP reservation).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ref	ObjRef	Yes	No	Reference to the object for which to set the DHCP options.
objType	ObjectType	No	No	The type of the object for which to set the DHCP options.
ticket	unsignedInt	No	Yes	Ticket used for concurrency. Returned by GetDHCPOptions command and, if there have been changes made to DHCP options for the object since the ticket was returned, the SetDHCPOptions call will fail.
dhcpOptions	ArrayOfDHCPOption	Yes	Yes	The DHCP options to set.
dhcpPolicyName	string	No	Yes	Name of MS DHCP policy if applicable.
saveComment	string	No	Yes	Save comment text to associate with the action.

## SetDHCPPolicyEnforcement

Sets the DHCP policy enforcement for the specified DHCP server or DHCP scope.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ownerRef	ObjRef	Yes	No	A reference to the DHCP server/scope for which the DHCP policy enforcement is set.
objType	ObjectType	No	No	The object type of the owner (i.e. either DHCP server or DHCP scope).
enforce	boolean	Yes	No	Specifies whether DHCP policies should be enforced.
saveComment	string	No	Yes	Save comment text to associate with the action.

## SetDHCPSubclasses

Sets DHCP subclasses for the specified DHCP class on the specified DHCP server.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dhcpServerRef	ObjRef	Yes	No	Reference to the DHCP server on which the DHCP subclasses should be set.
dhcpClassName	string	Yes	No	The name of the DHCP class for which the DHCP subclasses should be set.
dhcpSubclasses	ArrayOfString	Yes	Yes	The DHCP subclasses to set.
saveComment	string	No	Yes	Save comment text to associate with the action.

## SetDNSRecordAging

Sets aging on or off for the specified record.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
dnsRecordRef	ObjRef	Yes	No	An object reference for the DNS record.
aging	boolean	Yes	No	If true, then aging will be enabled for the record else it will be disabled.
saveComment	string	No	Yes	Save comment text to associate with the action.

### Response

Name	Type	Required	Nullable	Description
dnsRecord	DNSRecord	Yes	No	The changed DNS record object.

## SetIPAMRecord

Sets an IPAM record (i.e. apply changes to DNS, DHCP and/or IPAM for a specific IP address with one call).

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ipamRecordBefore	IPAMRecord	Yes	No	The IPAM record as it was before calling SetIPAMRecord.
ipamRecordAfter	IPAMRecord	Yes	No	The IPAM record as it should be after calling SetIPAMRecord.
saveComment	string	No	Yes	Save comment text to associate with the action.
forceOverrideOfNamingConflictCheck	boolean	No	No	Set to true to force creation of the records in the new IPAM record regardless of the naming conflict check (if enabled in system settings).



## Response

Name	Type	Required	Nullable	Description
errors	ArrayOfError	Yes	Yes	Error messages. One error message is generated for each change that could not be successfully applied.

## SetInheritAccess

Sets inheritAccess property for a range and/or its subranges.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	Yes	No	The range.
inheritAccess	boolean	No	No	Set inheritAccess flag on or off for the range.
inheritChildAccess	boolean	No	No	Set inheritAccess flag on or off for subranges of the range.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
errors	ArrayOfError	Yes	Yes	Error messages.

## SetObjectAccess

Sets access for the specified objects.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
identityAccess	ArrayOfIdentityAccess	Yes	No	The access to set for the objects.
objRefs	ArrayOfObjRef	Yes	No	References to the objects for which the access should be set.
objType	ObjectType	No	No	The type of the objects for which the access should be set.
saveComment	string	No	Yes	Save comment text to associate with the action.

## SetPassword

Changes the password for the currently logged in user.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
oldPassword	string	Yes	No	The old password for the user.
newPassword	string	Yes	No	The new password for the user.

## SetProperties

Sets properties for the specified object.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
ref	ObjRef	Yes	No	Reference to the object for which properties should be set.
objType	ObjectType	No	No	The type of the object for which properties should be set.
saveComment	string	No	Yes	Save comment text to associate with the action.
deleteUnspecified	boolean	No	No	Set to true if properties that are not explicitly set should be cleared. Default value is false.
properties	ArrayOfProperty	Yes	No	The properties and property values that should be set for the object.

## SetRangeDiscovery

Sets a discovery (ping) schedule for specified range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	Yes	No	An object reference for the IPAM range.
discovery	Discovery	Yes	No	The new discovery (ping) schedule for the address range.
saveComment	string	No	Yes	Save comment text to associate with the action.

## SetRoutersForRange

Sets routers for the specified address range.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	Yes	No	Reference to the address range for which the routers should be set.
addresses	ArrayOfIPAddress	Yes	Yes	IP addresses of the routers.
recursive	boolean	No	No	Specifies whether a router address should be placed in child subnet if the address belongs to the subnet.
saveComment	string	No	Yes	Save comment text to associate with the action.

## SetServiceStatus

## Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
serverRef	ObjRef	Yes	No	An object reference for the DNS server.
serviceStatus	ServiceStatus	Yes	No	The service status.
saveComment	string	No	Yes	Save comment text to associate with the action.

## SetSystemSettings

Sets system settings.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
systemSettings	ArrayOfSystemSetting	Yes	Yes	The system settings that should be set.

## SplitRange

Splits the specified address range into new subranges.

### Arguments

Name	Type	Required	Nullable	Description
session	string	Yes	No	Session ID from the Login command.
rangeRef	ObjRef	Yes	No	Reference to the address range that should be split.
cidr	unsignedInt	Yes	No	Determines the size of the resulting subranges, e.g. to split an address range into /24 subranges the value 24 would be used.
subnet	boolean	No	No	Determines if the new subranges should be defined as subnets.
locked	boolean	No	No	Determines if the new subranges should be set as locked.
autoAssign	boolean	No	No	Determines if it should be possible to automatically assign IP addresses from the new subranges.
customProperties	ArrayOfProperty	No	No	The custom properties for the new subranges.
discovery	Discovery	No	No	The discovery (ping) schedule that should be set for the new subranges.
saveComment	string	No	Yes	Save comment text to associate with the action.

## Response

Name	Type	Required	Nullable	Description
ranges	ArrayOfRange	Yes	No	The new subranges.