



CHAPTER 3

Web Service Objects

This chapter describes the data types that are defined structures or objects in the ANM Web Services API. Web Service objects perform the following functions:

- Parse input parameters and validate their values
- Invoke the appropriate ANM function
- Assemble the returned result and pass it to the SOAP endpoint
- Handle exceptions from the ANM by reporting the error to the client

This chapter describes the following Web Service objects:

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Answer

This section lists and describes the Answer object attributes.

Attribute	Description
ipAddr	Answer IP address.
answerName	Answer name.
type	Answer type.
configState	Answer configuration state: Suspended or Active.
answerGroups	Associated answer group names.
location	Answer location.
device	Associated device.
operState	Answer operating state: OperationalSuspended, Suspended, Active, Failed, Unknown, or N/A.
pGsmTime	Date and time associated with the primary GGSM.

Checkpoints

This section lists and describes the Checkpoints object attributes.

Attribute	Description
name	Checkpoint file name.
size	Checkpoint file size.
date	Checkpoint file date.

DeviceID

This section lists and describes the DeviceID object attributes.

Attribute	Description
name	Virtual context name.
deviceType	Device type (see DeviceType).
ipAddress	Device IP address.
slot	Host chassis slot number.
chassisIPAddr	Host chassis IP address.

DeviceType

Table 3-1 lists the possible device types along with mandatory attributes for each type.

Table 3-1 Device Types and Mandatory Attributes

	DeviceType	name	chassisIpaddr	Ipaddr	slot
ACE Appliance	ACE4710	—	—	Appliance IP address	—
ACE Appliance Virtual Context	VIRTUAL_CONTEXT	VC Name	—	Appliance IP address	—
ACE Module	ACE_BLADE	—	Chassis IP address	—	ACE Module slot
ACE Module Virtual Context	VIRTUAL_CONTEXT	VC Name	Chassis IP address	—	ACE Module slot
CSS	CSS	—	—	CSS IP address	—
CSM	CSM	—	Chassis IP address	—	CSM Module slot
Chassis	CAT_6_K	—	Chassis IP address	—	—



Note

The optional attributes are indicated by the dash (—).

DnsRule

This section lists and describes the DnsRule object attributes.

Attribute	Description
dnsRuleName	DNS rule name.
sourceAddress	DNS rule source IP address.
domains	Domains associate with the DNS rule.
dnsConfigState	DNS configuration state: Suspended or Active.
answerGroups	Answer group names to which the DNS rule belongs.
owner	DNS rule owner name.

MatchCondition

This section lists and describes the MatchCondition object attributes.

Attribute	Description
ipAddress	Server load balancing (SLB) is based on IP address.
protocol	SLB is based on protocol.
port	SLB is based on port number.

Rserver

This section lists and describes the Rserver object attributes.

Attribute	Description
name	Real server name.
type	Real server type: redirect or host.
ipAddress	Real server IP address.
state	Real server state: ISS, OOS, or IS.
weight	Real server weight.

Serverfarm

This section lists and describes the Serverfarm object attributes.

Attribute	Description
name	Server farm name.
serverFarmType	Server farm type: redirect or host.

SessionToken

This section lists and describes the SessionToken object attribute.

Attribute	Description
sid	Session ID.

SfRserver

This section lists and describes the SfRserver object attributes.

Attribute	Description
serverfarmName	Server farm name.
realserverName	Name of real server associated with the server farm.
adminState	Real server administrative state: ISS, OOS, or IS.
operationState	Real server operating state: STATUSFAILED, MAXLOAD, INACTIVE, STBY, ARPFAILED, RETURNCODEFAILED, INBANDPROBEFAILED, TESTWAIT, OPERWAIT, PROBETESTING, PROBEFAILED, THROTTLEDFP, THROTTLEMAXCLIENTS, THROTTLEMAXCONNECTIONS, TESTING, READYTOTEST, FAILED, UP, DOWN, or NA.
weight	Real server weight.
port	Real server port.
ipAddress	Real server IP address.
lastPolledTime	Date and time when the real server was last polled.

TemplateDefinition

This section lists and describes the TemplateDefinition object attributes.

Attribute	Description
id	Application template ID.
name	Application template name.
description	Application template description.
application	Application template application type: User Defined or System (Cisco defined)
appVersion	Application template version number.
createTime	Date and time that the application template was created.
createUser	Name of the user that created the application template.
updateTime	Date and time that the application template was modified.
updateUser	Name of the user who modified the application template.

TemplateInput

This section lists and describes the TemplateInput object attributes.

Attribute	Description
tagName	Name of the XML element: INPUT, LABEL, IMG, GROUP, VARIABLE, ARRAY, IF, ELSE, or ENUM.
name	Input element name.
type	Input element data type.
displayString	GUI variable field description.
defaultValue	Variable default setting.
userData	User input data.
userDatas	User input data array.
hasChild	Input element contains child elements.
childElements	Child element details.

TemplateInstance

This section lists and describes the TemplateInstance object attributes.

Attribute	Description
instanceID	Application template instance name.
templateName	Name of application template used to create the template instance.
applicationType	Type of application.
type	Template instance type: Deployed or Staged.
status	Template instance status: Complete or Incomplete.
deviceID	Virtual context associated with the template instance.
lastUpdatedTime	Last time that ANM retrieved the status information.

VMMappingInfo

This section lists and describes the VMMappingInfo object attributes.

Attribute	Description
deviceID	Device ID (see DeviceID).
sfname	Associated server farm name.
sfrsname	Associated server farm real server name.

port	Server farm real server port number.
ipaddr	Server farm real server IP address.

Vserver

This section lists and describes the Vserver object attribute.

Attribute	Description
virtualserverName	Virtual server name.
policyMapName	Policy map name.
matchConditions	SLB match conditions (see MatchCondition).
serverfarms	Server farms that the virtual server is associated with.
vlan	VLANs associated with the virtual server.
adminState	Virtual server administrative state: Down, Up, or N/A.
operState	Virtual server operating state: OUTFMEMORY, TESTREAL, STBINOPRREAL, INOPRREAL, STANDBY, UP, DOWN, or N/A.
lastPolledTime	Date and time when the virtual server was last polled.

WSException

This section lists and describes the WSException object attribute.

Attribute	Description
message	Web Services exception.

