



CHAPTER 2

Understanding Provision Web Service Interface

This chapter describes the Mediation provision web service interfaces for HCM. You can provision and manage:

- Customer Data Services
- Infrastructure Data Services
- Site Data Services
- Subscriber Data Services
- Results Data Services
- Asynchronous Response Data Source

This chapter contains the following sections:

- [Provision Data Services, page 2-2](#)
- [Provision Customer Data Services, page 2-3](#)
- [Provision Infrastructure Data Services, page 2-7](#)
- [Provision Site Data Services, page 2-16](#)
- [Provision Subscriber Data Services, page 2-20](#)
- [Provision Results Data Services, page 2-25](#)
- [Domain Manager-Specific Asynchronous Response Data Services, page 2-31](#)

Provision Data Services

HCM exposes SID-based northbound data service interfaces to provision and monitor Unified Communications (UC) services.

[Table 2-1](#) lists the data services that you can provision and the description.

Table 2-1 Provision Data Services

Data Service	Description
Provision Customer	Allows you to manage customer objects and application instances.
Provision Infrastructure	Allows you to manage customer's site telephony resources.
Provision Site	Allows you to manage customer site resources.
Provision Subscriber	Allows you to manage services for customer subscribers.
Provision Results	Allows you to request the status or results from the outstanding asynchronous requests issued.

Operation Request and Response Messages

All provision data service requests and response messages are extended from a common base complexType, called `OperationRequest` and `OperationResponse`.

All operation requests are documented with the elements defined in the specific extension. For example, see [CreateCustomerRequest/UpdateCustomerRequest](#), [page 2-5](#).

Because of the asynchronous nature of these operations, all operation responses are defined as extensions of `OperationResponse`. However, they do not have any specific elements defined as part of the extension.

This section includes:

- [OperationRequest](#), [page 2-2](#)
- [OperationResponse](#), [page 2-3](#)

OperationRequest

[Table 2-2](#) lists the Entity, Path/Attribute, and Data Types for the `OperationRequest` operation.

Table 2-2 OperationRequest

Entity	Path/Attribute	Data Type	Comments/ Validation/Rules
OperationRequest			
RequestHeader	OperationRequest/ RequestHeader	RequestHeader	—
	TargetDomain	TargetDomainEnum (UnifiedCommunications/ ContactCenter/Collaboration)	Mandatory: This identifies the domain to which the request is made.

OperationResponse

Table 2-3 lists the Logical Name, XPath, and Data Types for the OperationResponse operation.

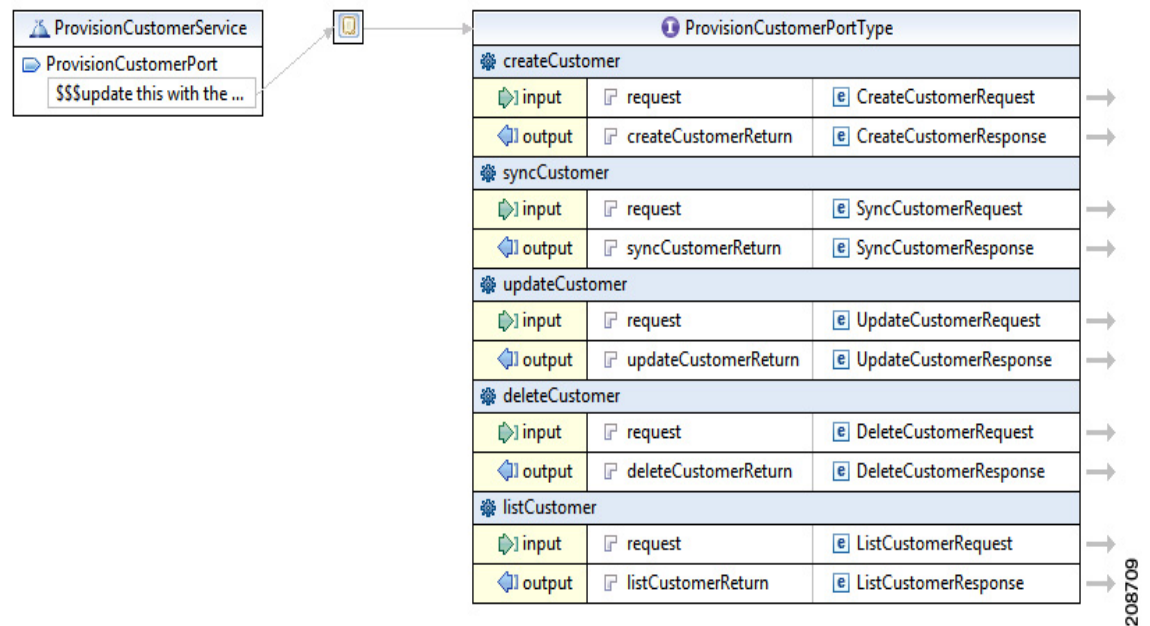
Table 2-3 *OperationResponse*

Logical Name	XPath	Data Type	Comments/Validation/Rules
OperationResponse			
—	CorrelationId	String	The reference ID for correlating subsequent requests/responses.
ErrorMessage[*]	ErrorMessage	List <i>ErrorMessage</i>	—
	ErrorMessageCategory	String	—
	ErrorMessageName	String	—
	ErrorMessageText	String	—

Provision Customer Data Services

The ProvisionCustomer data service exposes the HCM northbound interface and operations, enabling provision management of the customer infrastructure objects. See Figure 2-1.

Figure 2-1 *Interface*



The section describes the HCM XML API for the ProvisionCustomer data service, which contains the following operations:

- createCustomer
 - CreateCustomerRequest—[Appendix B, “Sample createCustomer XML Request”](#)
 - CreateCustomerResponse—[Appendix B, “Sample createCustomer XML Response”](#)
- syncCustomer
 - SyncCustomerRequest—[Appendix B, “Sample syncCustomer XML Request”](#)
 - SyncCustomerResponse—[Appendix B, “Sample syncCustomer XML Response”](#)
- updateCustomer
 - UpdateCustomerRequest—[Appendix B, “Sample updateCustomer XML Request”](#)
 - UpdateCustomerResponse—[Appendix B, “Sample updateCustomer XML Response”](#)
- deleteCustomer
 - DeleteCustomerRequest—[Appendix B, “Sample deleteCustomer XML Request”](#)
 - DeleteCustomerResponse—[Appendix B, “Sample deleteCustomer XML Response”](#)
- listCustomer
 - ListCustomerRequest—[Appendix B, “Sample listCustomer XML Request”](#)
 - ListCustomerResponse—[Appendix B, “Sample listCustomer XML Response”](#)

This section includes:

- [CreateCustomerRequest/UpdateCustomerRequest, page 2-5](#)
- [SyncCustomerRequest, page 2-5](#)
- [DeleteCustomerRequest, page 2-6](#)
- [ListCustomerRequest, page 2-6](#)

See [Appendix A, “HCSProvisionCustomer.wsdl File”](#) for the ProvisionCustomer WSDL file.

See [Appendix B, “Sample ProvisionCustomer Data Service XML API Requests and Responses”](#) for samples of outbound request message and inbound server response message.

CreateCustomerRequest/UpdateCustomerRequest

Table 2-4 lists the Logical Name, XPath, Data Types, and Comments/Validation/Rules for the CreateCustomerRequest and UpdateCustomerRequest operations.

Table 2-4 *CreateCustomerRequest/UpdateCustomerRequest*

Logical Name	XPath	Data Type	Comments/Validation/Rules
CreateCustomerRequest/UpdateCustomerRequest			
Customer	CreateCustomerRequest/Customer	Customer	Customer corresponds to an Enterprise.
	partyRoleId	String	An identifier for the customer.
Customer CharacteristicValues [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	—
	Action	ActionType (Create/Update/Delete)	The operation that need to be performed.
	CharacteristicSpecification/Name	String	Example: CallProcessor, UnifiedMessageProcessor
	Value	String	—

SyncCustomerRequest

Table 2-5 lists the Entity, Path/Attribute, and Data Types for the SyncCustomerRequest operation.

Table 2-5 *SyncCustomerRequest*

Entity	Path/Attribute	Data Type	Comments/Validation/Rules
SyncCustomerRequest			
—	SyncOption	SyncOptionEnum (GetSyncStatus/PerformSync)	Option to get the status or perform synchronization.
—	SyncScope	SyncScopeEnum (Infrastructure/Subscriber/Both)	Scope of the sync operation.
Customer	SyncCustomerRequest/ Customer	Customer	—
	partyRoleId	String	An identifier for the customer.

DeleteCustomerRequest

Table 2-6 lists the Entity, Path/Attribute, and Data Types for the DeleteCustomerRequest operation.

Table 2-6 DeleteCustomerRequest

Entity	Path/Attribute	Data Type	Comments/Validation/Rules
DeleteCustomerRequest			
Customer	DeleteCustomerRequest/Customer	Customer	—
	partyRoleId	String	An identifier for the customer.

ListCustomerRequest

Table 2-7 lists the Entity, Path/Attribute, and Data Types for the ListCustomerRequest operation.

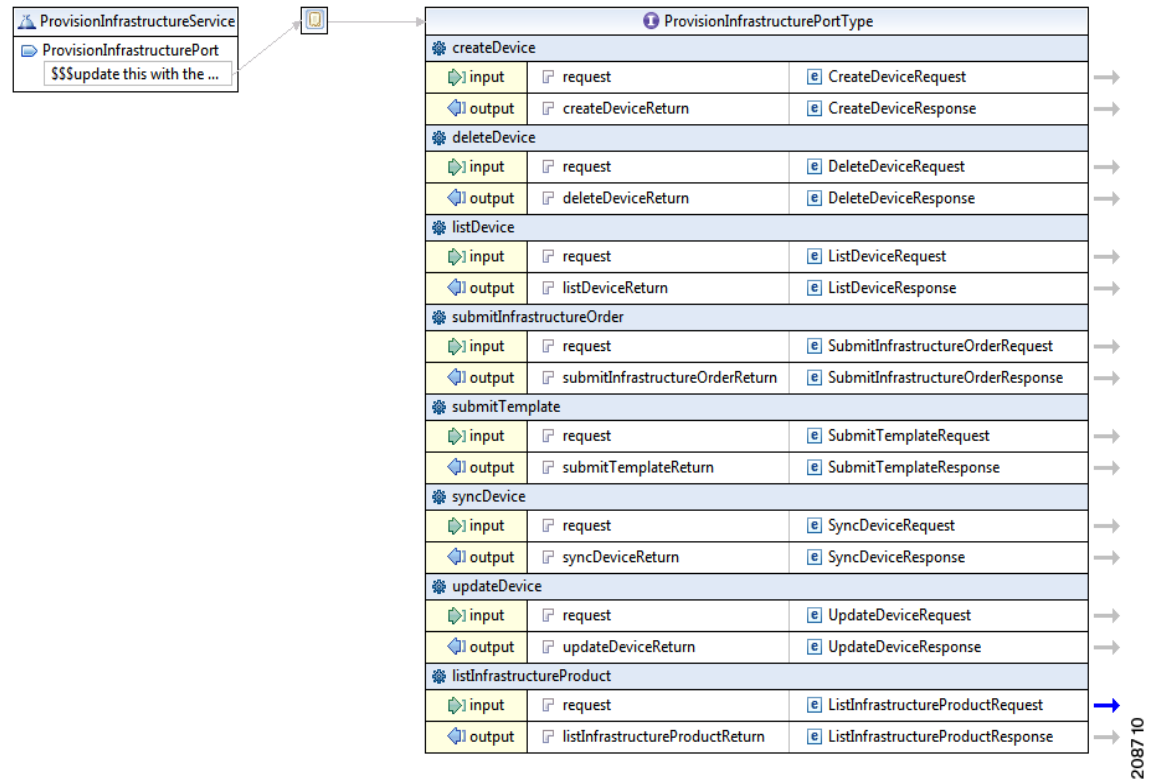
Table 2-7 ListCustomerRequest

Entity	Path/Attribute	Data Type	Comments/Validation/Rules
ListCustomerRequest			
Customer	ListCustomerRequest/Customer	Customer	—
	partyRoleId	String	An identifier for the customer.
Customer CharacteristicValues [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	—
	CharacteristicSpecification/Name	String	You can specify names to filter the response.
	Value	String	—

Provision Infrastructure Data Services

The ProvisionInfrastructure data service exposes the HCM northbound interface and operations, enabling provision management of the infrastructure objects. See [Figure 2-2](#).

Figure 2-2 Service Interface



The section describes the HCM XML API for the ProvisionInfrastructure data service that contains the following operations:

- createDevice
 - CreateDeviceRequest—[Appendix B, “Sample createDevice XML Request”](#)
 - CreateDeviceResponse—[Appendix B, “Sample createDevice XML Response”](#)
- deleteDevice
 - DeleteDeviceRequest—[Appendix B, “Sample deleteDevice XML Request”](#)
 - DeleteDeviceResponse—[Appendix B, “Sample deleteCustomer XML Response”](#)
- listDevice
 - ListDeviceRequest—[Appendix B, “Sample listDevice XML Request”](#)
 - ListDeviceResponse—[Appendix B, “Sample listDevice XML Response”](#)

- submitInfrastructureOrder
 - SubmitInfrastructureOrderRequest—[Appendix B, “Sample submitInfrastructureOrder XML Request”](#)
 - SubmitInfrastructureOrderResponse—[Appendix B, “Sample submitInfrastructureOrder XML Response”](#)
- submitTemplate
 - SubmitTemplateRequest—[Appendix B, “Sample submitTemplate XML Request”](#)
 - SubmitTemplateResponse—[Appendix B, “Sample submitTemplate XML Response”](#)
- syncDeviceRequest
 - SyncDeviceRequest—[Appendix B, “Sample syncDevice XML Request”](#)
 - SyncDeviceResponse—[Appendix B, “Sample syncDevice XML Response”](#)
- updateDeviceRequest
 - UpdateDeviceRequest—[Appendix B, “Sample updateDevice XML Request”](#)
 - UpdateDeviceResponse—[Appendix B, “Sample updateDevice XML Response”](#)
- listInfrastructureProduct
 - ListInfrastructureProductRequest—[Appendix B, “Sample listInfrastructureProduct Request”](#)
 - ListInfrastructureProductResponse—[Appendix B, “Sample listInfrastructureProduct Response”](#)

This section includes:

- [CreateDeviceRequest/UpdateDeviceRequest, page 2-9](#)
- [SyncDeviceRequest, page 2-10](#)
- [DeleteDeviceRequest, page 2-10](#)
- [SubmitTemplateRequest, page 2-11](#)
- [SubmitInfrastructureOrderRequest, page 2-12](#)
- [ListDeviceRequest, page 2-14](#)
- [ListInfrastructureProductRequest, page 2-15](#)

See [Appendix A, “HCSProvisionInfrastructure.wsdl File”](#) for the ProvisionInfrastructure WSDL file.

See [Appendix B, “Sample ProvisionInfrastructure Data Service XML API Requests and Responses”](#) for samples of outbound request message and inbound server response message.

CreateDeviceRequest/UpdateDeviceRequest

Table 2-8 lists the Entity, Path/Attribute, and Data Types for the CreateDeviceRequest and UpdateDeviceRequest operations.

Table 2-8 CreateDeviceRequest/UpdateDeviceRequest

Entity	Path/Attribute	Data Type	Comments/ Validation/Rules
CreateDeviceRequest/UpdateDeviceRequest			
PhysicalDevice	CreateDeviceRequest/PhysicalDevice	Physical Device	The device to be created. Example: CallManager.
	commonName	String	—
	ResourceSpecification (xsi:type="PhysicalDeviceSpecification")/commonName	String	—
Customer	.../PartyRole(xsi:type=Customer)	Customer	—
	partyRoleId	String	—
IpAddress	.../LogicalPhysicalResource[typeofLPDependency = "IpAddress"]/LogicalResource(xsi:type=IpAddress)	IpAddress	—
	hostNumber	String	IP address.
Protocol	.../LogicalPhysicalResource[typeofLPDependency = "Protocol"]/LogicalResource(xsi:type=Protocol)	Protocol	—
	commonName	String	—
Capability[*]	.../LogicalPhysicalResource[typeofLPDependency = "Capability"]/LogicalResource	List <i>LogicalResource</i>	Collection of capabilities of the device.
	commonName	String	—
	SupportsProtocol/commonName	String	—
Capability CharacteristicValue [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	—
	CharacteristicSpecification/Name	String	—
	Value	String	—
Physical Device CharacteristicValue [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	Collection of properties of the device.
	CharacteristicSpecification/Name	String	—
	Value	String	—

SyncDeviceRequest

Table 2-9 lists the Entity, Path/Attribute, and Data Types for the SyncDeviceRequest operation.

Table 2-9 *SyncDeviceRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
SyncDeviceRequest			
—	SyncOption	SyncOptionEnum (GetSyncStatus/PerformSync)	—
—	SyncScope	SyncScopeEnum (Infrastructure/Subscriber/Both)	—
PhysicalDevice	CreateDeviceRequest/ PhysicalDevice	PhysicalDevice	—
	commonName	String	—
Customer	.../PartyRole(xsi:type= Customer)	Customer	—
	partyRoleId	String	—

DeleteDeviceRequest

Table 2-10 lists the Entity, Path/Attribute, and Data Types for the DeleteDeviceRequest operation.

Table 2-10 *DeleteDeviceRequest*

Entity	Path/Attribute	Data Type	Comments/Validation/ Rules
DeleteDeviceRequest			
PhysicalDevice	DeleteDeviceRequest/ PhysicalDevice	PhysicalDevice	—
	commonName	String	—
Customer	.../PartyRole(xsi:type= Customer)	Customer	—
	partyRoleId	String	—

SubmitTemplateRequest

Table 2-11 lists the Entity, Path/Attribute, and Data Types of the SubmitTemplateRequest operation.

Table 2-11 *SubmitTemplateRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
SubmitTemplateRequest			
—	SubmitOption	SubmitOptionEnum (ValidateAndSubmit/ ValidateOnly/ SubmitOnly)	—
—	TemplateName	String	Name of the template in the domain manager that needs to be provisioned.
Keyword CharacteristicValue [*]	SubmitTemplateRequest/KeywordCharacteristicValue	List <i>CharacteristicValue</i>	List of keywords in the template that needs substitution.
	CharacteristicSpecification/Name	String	—
	Value	String	—
PhysicalDevice	SubmitTemplateRequest/PhysicalDevice	PhysicalDevice	—
	commonName	String	—
Customer	.../PartyRole(xsi:type=Customer)	Customer	—
	partyRoleId	String	—
Capability[*]	.../LogicalPhysicalResource[typeofLPDependency = "Capability"]/LogicalResource	List <i>LogicalResource</i>	—
	commonName	String	—

SubmitInfrastructureOrderRequest

Table 2-12 lists the Entity, Path/Attribute, Data Types, and Comments/Validation/Rules for the SubmitInfrastructureOrderRequest and SubmitSubscriberOrderRequest operations.

Table 2-12 *SubmitInfrastructureOrderRequest/SubmitSubscriberOrderRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
SubmitInfrastructureOrderRequest/SubmitSubscriberOrderRequest			
—	SubmitOption	SubmitOptionEnum (ValidateAndSubmit/ ValidateOnly/ SubmitOnly)	—
ProductOrder	SubmitInfrastructureOrderRequest/ProductOrder	ProductOrder	—
	.../BusinessInteractionType/name	String	Add, Change, Cancel
	interactionDate	DateTime	List Order only
	interactionCompleteDate	DateTime	List Order only
	interactionStatus	String	Status of the order in the domain manager. List Order only COMPLETE, HOLD, INITIAL, RELEASED
Customer	.../BusinessInteractionInvolves (xsi:type=PartyinteractionRole) [interactionRole="Customer"]/ PartyinteractionRoleIdIdentifiedBy (xsi:type="Customer")	Customer	—
	partyRoleId	String	—

Table 2-12 *SubmitInfrastructureOrderRequest/SubmitSubscriberOrderRequest (continued)*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
CustomerOrderItem[*]	.../CustomerOrderComprisedOf	List <i>CustomerOrderItem</i>	Collection of orders.
	orderitemNumber	Integer	An identifier for the order.
	interactionItemStatus	String	Status of the order in the domain manager. List Order Only COMPLETE, FAILED, INPROCESS, NOTEXECUTED, WAITING
Product	.../BusinessInteractionInvolvesProduct	Product	The product being ordered. For example, phone.
GeographicSite	.../ProductLocatedVia(xsi:type=GeographicSite)	GeographicSite	Subscriber Orders Only
	ID	String	Location identifier of the product.
Product Specification	.../ProductSpecification	ProductSpecification	Characteristics of the product.
	productId	String	Product identifier.
Product CharacteristicValue [*]	.../ProductCharacteristicValue	List <i>ProductCharacteristicValue</i>	Collection of properties of a product.
	value	String	—
ProductSpec Characteristic	ProdSpecCharDescribesProdCharacteristicValue	ProductSpec Characteristic	—
	ID	String	—
	isKey	Boolean	—
	isUnmanaged	Boolean	—
Sub-Product CharacteristicValue [*]	.../ProductCharacteristicValueRelationship/ProductCharacteristicValue	List <i>ProductCharacteristicValue</i>	—
	ProdSpecCharDescribesProdCharacteristicValue/ID	String	—
	value	String	—

Table 2-12 *SubmitInfrastructureOrderRequest/SubmitSubscriberOrderRequest (continued)*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
RelatedOrderItem [*]	.../BusinessInteractionItemReferences (xsi:type=CustomerOrderItem)	List <i>CustomerOrderItem</i>	Defines relationship between orders.
	orderItemNumber	Integer	—
Physical Device	.../BusinessInteractionInvolvesResource (xsi:type= Physical Device)	PhysicalDevice	—
	commonName	String	—
Capability	.../LogicalPhysicalResource [typeofLPDependency = "Capability"]/LogicalResource	LogicalResource	—
	commonName	String	—
Subscriber	.../BusinessInteractionItemInvolves (xsi:type=PartyinteractionRole) [interactionRole="Subscriber"] PartyinteractionRoleIdentifiedBy (xsi:type="Subscriber")	Subscriber	Subscriber Orders Only.
	partyRoleId	String	—

ListDeviceRequest

Table 2-13 lists the Entity, Path/Attribute, and Data Types for the ListDeviceRequest operation.

Table 2-13 *ListDeviceRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
ListDeviceRequest			
PhysicalDevice	List PhysicalDevice Request/ PhysicalDevice	PhysicalDevice	—
Customer	.../PartyRole(xsi:type=Customer)	Customer	—
	partyRoleId	String	—
PhysicalDevice CharacteristicValues [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	—
	CharacteristicSpecification/Name	String	—
	Value	String	—

ListInfrastructureProductRequest

Table 2-14 lists the Entity, Path/Attribute, and Data Types for the ListInfrastructureProductRequest operation.

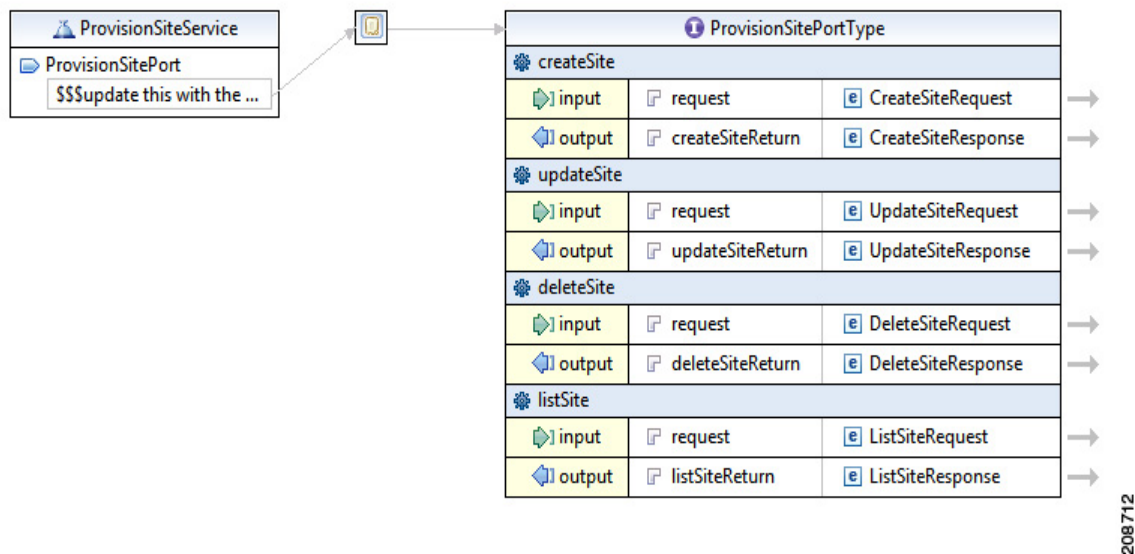
Table 2-14 *ListInfrastructureProductRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
ListInfrastructureProductRequest			
Product	List InfrastructureProductRequest/Product	Product	—
Customer	.../ProductOfInterestTo(xsi:type = "PartyRoleProductInvolvement") [productInvolvementRole="Customer"] /PartyRole(xsi:type=Customer)	Customer	—
	partyRoleId	String	—
Selection Characteristic Values [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	—
	CharacteristicSpecification/Name	String	—
	Value	String	—

Provision Site Data Services

The ProvisionSite data service exposes the HCM northbound interface and operations, enabling provision management of the Site service. See [Figure 2-3](#).

Figure 2-3 Service Interface



This section describes the HCM XML API for the ProvisionSite data service that contains the following operations:

- createSite
 - CreateSiteRequest—[Appendix B, “Sample createSite XML Request”](#)
 - CreateSiteResponse—[Appendix B, “Sample createSite XML Response”](#)
- updateSite
 - UpdateSiteRequest—[Appendix B, “Sample updateSite XML Request”](#)
 - UpdateSiteResponse—[Appendix B, “Sample updateSite XML Response”](#)
- deleteSite
 - DeleteSiteRequest—[Appendix B, “Sample deleteSite XML Request”](#)
 - DeleteSiteResponse—[Appendix B, “Sample deleteSite XML Response”](#)
- listSite
 - ListSiteRequest—[Appendix B, “Sample listSite XML Request”](#)
 - ListSiteResponse—[Appendix B, “Sample listSite XML Response”](#)

This section includes:

- [CreateSiteRequest/UpdateSiteRequest, page 2-17](#)
- [DeleteSiteRequest, page 2-18](#)
- [ListSiteRequest, page 2-19](#)

See [Appendix A, “HCSProvisionSite.wsdl File”](#) for the ProvisionSite WSDL file.

See [Appendix B, “Sample ProvisionSite Data Service XML API Requests and Responses”](#) for samples of the outbound request message and inbound server response message.

CreateSiteRequest/UpdateSiteRequest

[Table 2-15](#) lists the Entity, Path/Attribute, Data Types, and Comments/Validation/Rules for the CreateSiteRequest and UpdateSiteRequest operations.

Table 2-15 CreateSiteRequest/UpdateSiteRequest

Entity	Path/Attribute	Data Type	Comments/Validation/Rules
CreateSiteRequest/UpdateSiteRequest			
GeographicSite	CreateSiteRequest/GeographicSite	Geographic Site	A logical concept identifying a group of entities.
	ID	String	An identifier for the site.
Customer	.../PlacePartyRoleAssoc[placeRole = "Customer"]/PartyRole(xsi:type=Customer)	Customer	—
	partyRoleId	String	—
Logical Device Association[*]	.../PlaceResourceAssoc	List <i>PlaceResourceAssoc</i>	Collection of devices associated with the site.
	placeRole	String	Example: CallProcessor, UnifiedMessageProcess
LogicalDevice	.../Resource((xsi:type=LogicalDevice)	LogicalDevice	—
Logical Device CharacteristicValue [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	—
	CharacteristicSpecification/Name	String	—
	Value	String	—
DirectoryNumber Block[*]	.../PlaceResourceAssoc[placeRole = "DirectoryNumberBlock"]	List <i>PlaceResourceAssoc</i>	—
	modifier	Characteristic Action Enum (Create/Delete/Update)	—
DirectoryNumberBlock CharacteristicValue [*]	.../Resource(xsi:type=LogicalResource)/RootEntityDescribedBy	List <i>CharacteristicValue</i>	—
	CharacteristicSpecification/Name	String	—
	Value	String	—

Table 2-15 *CreateSiteRequest/UpdateSiteRequest (continued)*

Entity	Path/Attribute	Data Type	Comments/Validation/Rules
OrganizationPost[*]	.../PlacePartyRoleAssoc[placeRole = "OrganizationPost"]/PartyRole(xsi:type=OrganizationPost)	List <i>OrganizationPost</i>	—
	jobTitle	String	—
GeographicSite CharacteristicValue [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	Optional: Usage determined by domain manager.
	CharacteristicSpecification/Name	String	—
	Value	String	—

DeleteSiteRequest

Table 2-16 lists the Entity, Path/Attribute, and Data Types for the DeleteSiteRequest operation.

Table 2-16 *DeleteSiteRequest*

Entity	Path/Attribute	Data Type	Comments/Validation/Rules
DeleteSiteRequest			
GeographicSite	DeleteGeographicSiteRequest/GeographicSite	GeographicSite	—
	ID	String	—
Customer	.../PlacePartyRoleAssoc[placeRole = "Customer"]/PartyRole(xsi:type=Customer)	Customer	—
	partyRoleId	String	—

ListSiteRequest

Table 2-17 lists the Entity, Path/Attribute, and Data Types for the ListSiteRequest operation.

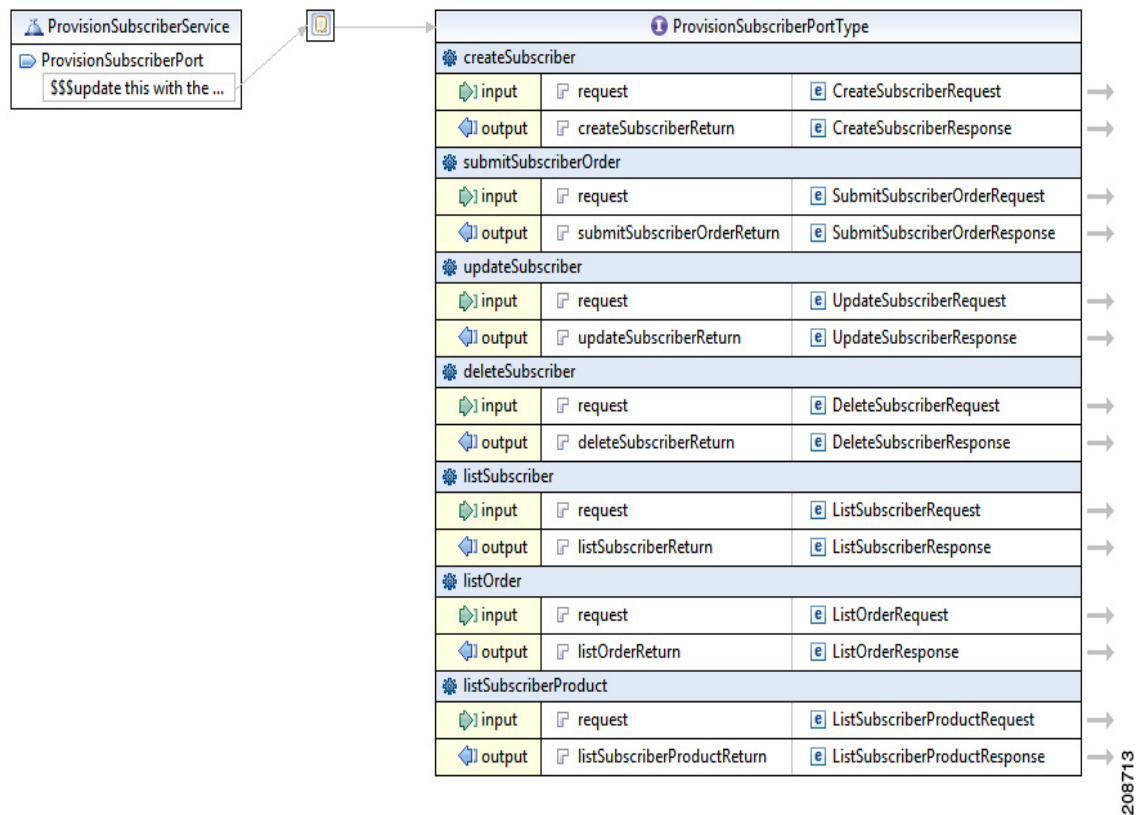
Table 2-17 *ListSiteRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
ListSiteRequest			
GeographicSite	List GeographicSite Request/ GeographicSite	GeographicSite	—
Customer	.../PlacePartyRoleAssoc[placeRole = "Customer"]/PartyRole(xsi:type= Customer)	Customer	—
	partyRoleId	String	—
GeographicSite Characteristic Values [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	—
	CharacteristicSpecification/Name	String	—
	Value	String	—

Provision Subscriber Data Services

The ProvisionSubscriber data service exposes the HCM northbound interface and operations, enabling provision management of the Subscriber service. See [Figure 2-4](#).

Figure 2-4 Service Interface



This section describes the HCM XML API for the ProvisionSubscriber data service that contains the following operations:

- createSubscriber
 - CreateSubscriberRequest—[Appendix B, “Sample createSubscriber XML Request”](#)
 - CreateSubscriberResponse—[Appendix B, “Sample createSubscriber XML Response”](#)
- submitSubscriber
 - SubmitSubscriberOrderRequest—[Appendix B, “Sample submitSubscriberOrder XML Request”](#)
 - SubmitSubscriberOrderResponse—[Appendix B, “Sample submitSubscriberOrder XML Response”](#)
- updateSubscriber
 - UpdateSubscriberRequest—[Appendix B, “Sample updateSubscriber XML Request”](#)
 - UpdateSubscriberResponse—[Appendix B, “Sample updateSubscriber XML Response”](#)

- deleteSubscriber
 - DeleteSubscriberRequest—[Appendix B, “Sample deleteSubscriber XML Request”](#)
 - DeleteSubscriberResponse—[Appendix B, “Sample deleteSubscriber XML Response”](#)
- listSubscriber
 - listSubscriberRequest—[Appendix B, “Sample listSubscriber XML Request”](#)
 - listSubscriberResponse—[Appendix B, “Sample listSubscriber XML Response”](#)
- listOrder
 - listOrderRequest—[Appendix B, “Sample listOrder XML Request”](#)
 - listOrderResponse—[Appendix B, “Sample listOrder XML Response”](#)
- listSubscriberProduct
 - listSubscriberProductRequest—[Appendix B, “Sample listSubscriberProduct XML Request”](#)
 - listSubscriberProductResponse—[Appendix B, “Sample listSubscriberProduct XML Response”](#)

This section includes:

- [CreateSubscriberRequest/UpdateSubscriberRequest, page 2-22](#)
- [DeleteSubscriberRequest, page 2-23](#)
- [SubmitSubscriberOrderRequest, page 2-23](#)
- [ListSubscriberRequest, page 2-24](#)
- [ListOrderRequest, page 2-24](#)
- [ListSubscriberProductRequest, page 2-25](#)

See [Appendix A, “HCSProvisionSubscriber.wsdl File”](#) for the ProvisionSubscriber WSDL file.

See [Appendix B, “Sample ProvisionSubscriber Data Service XML API Requests and Responses”](#) for samples of outbound request message and inbound server response message.

CreateSubscriberRequest/UpdateSubscriberRequest

Table 2-18 lists the Entity, Path/Attribute, Data Types, and Comments/Validation/Rules for the CreateSubscriberRequest and UpdateSubscriberRequest operations.

Table 2-18 *CreateSubscriberRequest/UpdateSubscriberRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
CreateSubscriberRequest/UpdateSubscriberRequest			
Subscriber	CreateSubscriberRequest/Subscriber	Subscriber	The end user within the enterprise.
	partyRoleId	String	An identifier for the subscriber.
Customer	.../PartyRoleAssoc[associationType = "Customer"]/PartyRole(xsi:type=Customer)	Customer	—
	partyRoleId	String	An identifier for the subscriber.
IndividualName	.../Party(xsi:type=Individual)/IndividualNamedUsing	Individual Name	Name of the subscriber.
	givenNames	String	—
	familyNames	String	—
Email	.../PartyRoleContactableVia(xsi:type=EmailContact)/eMailAddress	String	—
Phone	.../PartyRoleContactableVia(xsi:type=TelephoneNumber)/number	String	—
Department	.../RootEntityDescribedByCharacteristicSpecification/Name="Department"/value	String	—
	Value	String	—
OrganizationPost[*]	.../ PartyRoleAssoc[associationType = "OrganizationPost"]/PartyRole(xsi:type=OrganizationPost)	List <i>OrganizationPost</i>	—
	jobTitle	String	—

Table 2-18 *CreateSubscriberRequest/UpdateSubscriberRequest (continued)*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
Subscriber CharacteristicValues [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	Optional: Usage determined by domain manager.
	CharacteristicSpecification/Name	String	—
	Value	String	—

DeleteSubscriberRequest

[Table 2-19](#) lists the Entity, Path/Attribute, and Data Types for the DeleteSubscriberRequest operation.

Table 2-19 *DeleteSubscriberRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
DeleteSubscriberRequest			
Subscriber	DeleteSubscriberRequest/Subscriber	Subscriber	—
	partyRoleId	String	—
Customer	.../PartyRoleAssoc[associationType = "Customer"]/PartyRole(xsi:type=Customer)	Customer	—
	partyRoleId	String	—

SubmitSubscriberOrderRequest

The parameters are the same as SubmitInfrastructureOrderRequest. For more information, see [SubmitInfrastructureOrderRequest](#), page 2-12

ListSubscriberRequest

Table 2-20 lists the Entity, Path/Attribute, and Data Types of the ListSubscriberRequest operation.

Table 2-20 *ListSubscriberRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
ListSubscriberRequest			
Subscriber	List Subscriber Request/Subscriber	Subscriber	—
Customer	.../PartyRoleAssoc[associationType = "Customer"]/PartyRole(xsi:type=Customer)	Customer	—
	partyRoleId	String	—
Subscriber CharacteristicValues [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	—
	CharacteristicSpecification/Name	String	—
	Value	String	—

ListOrderRequest

Table 2-21 lists the Entity, Path/Attribute, and Data Types of the ListOrderRequest operation.

Table 2-21 *ListOrderRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
ListOrderRequest			
ProductOrder	ListOrderRequest/ProductOrder	ProductOrder	—
Customer	.../BusinessInteractionInvolves (xsi:type=PartyinteractionRole) [interactionRole="Customer"]/ PartyinteractionRoleIdentifiedBy (xsi:type=" Customer")	Customer	—
	partyRoleId	String	—
ProductOrder CharacteristicValues [*]	.../RootEntityDescribedBy	List <i>CharacteristicValue</i>	—
	CharacteristicSpecification/Name	String	—
	Value	String	—

ListSubscriberProductRequest

Table 2-22 lists the Entity, Path/Attribute, and Data Types of the ListSubscriberProductRequest operation.

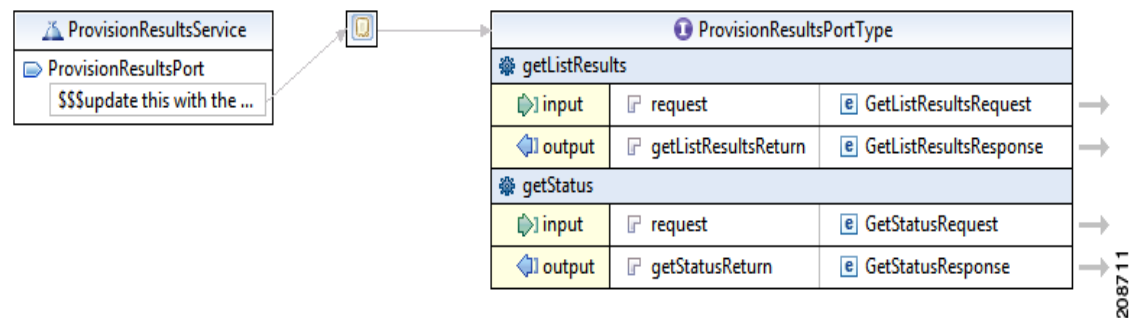
Table 2-22 *ListSubscriberProductRequest*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
ListSubscriberProductRequest			
Product	List Subscriber ProductRequest/Product	Product	—
Customer	.../ProductOfInterestTo(xsi:type = "PartyRoleProductInvolvement") [productInvolvementRole="Customer "]/PartyRole(xsi:type=Customer)	Customer	—
	partyRoleId	String	—
Selection Characteristic Values [*]	.../RootEntityDescribedBy	List <i>Characteristic Value</i>	—
	CharacteristicSpecification/Name	String	—
	Value	String	—

Provision Results Data Services

The ProvisionResults data service exposes the HCM northbound interface and operations, enabling provision management of the Results service. See Figure 2-5.

Figure 2-5 *Service Interface*



This section describes the HCM XML API for the ProvisionResults data service that contains the following operations:

- `getListResults`
 - `GetListResultsRequest`—[Appendix B, “Sample getListResults XML Request”](#)
 - `GetListResultsResponse`—[Appendix B, “Sample getListResults XML Response”](#)
- `getStatus`
 - `GetStatusRequest`—[Appendix B, “Sample getStatus XML Request”](#)
 - `GetStatusResponse`—[Appendix B, “Sample getStatus XML Response”](#)

This section includes:

- [getListResults, page 2-26](#)
- [getStatus, page 2-29](#)

See [Appendix A, “HCSProvisionResults.wsdl File”](#) for the ProvisionResults WSDL file.

See [Appendix B, “Sample ProvisionResults Data Service XML API Requests and Responses”](#) for samples of outbound request message and inbound server response message.

getListResults

`getListResults` returns the results for the specified `CorrelationId`. This section includes:

- [GetListResultsRequest, page 2-26](#)
- [GetListResultsResponse, page 2-27](#)

GetListResultsRequest

[Table 2-23](#) lists the Entity, Path/Attribute, and Data Types for the `GetListResultsRequest` operation.

Table 2-23 *GetListResultsRequest*

Entity	Path/Attribute	Data Type	Comments/Validation/Rules
GetListResultsRequest			
—	<code>correlationId</code>	String	—
—	<code>maxResults</code>	Integer	—

GetListResultsResponse

Table 2-24 lists the Entity, Path/Attribute, Data Types, and Comments/Validation/Rules for the GetListResultsResponse operation.

Table 2-24 *GetListResultsResponse*

Entity	Path/Attribute	Data Type	Comments/Validation/Rules
GetListResultsResponse			
—	moreResults	Boolean	—
Result[*]	Result	Entity	Contains the subclass of Entity corresponding to the data returned for the requested CorrelationId.
Customer[*]	...(xsi:type="Customer")	Customer	Response for CorrelationId corresponding to a List Customer Request.
	Sub-Structure of Customer will match the Structure of Customer defined in CreateCustomerRequest/UpdateCustomerRequest (1. Customer)	—	—
PhysicalDevice [*]	...(xsi:type="PhysicalDevice")	PhysicalDevice	Response for CorrelationId corresponding to a List Device Request.
	Sub-Structure of PhysicalDevice will match the Structure of PhysicalDevice defined in CreateDeviceRequest/UpdateDeviceRequest (1. PhysicalDevice)	—	—
GeographicSite [*]	...(xsi:type="GeographicSite")	GeographicSite	Response for CorrelationId corresponding to a List Site Request.
	Sub-Structure of GeographicSite will match the Structure of GeographicSite defined in CreateSiteRequest/UpdateSiteRequest (1. GeographicSite)	—	—

Table 2-24 *GetListResultsResponse (continued)*

Entity	Path/Attribute	Data Type	Comments/Validation/ Rules
Subscriber [*]	...(xsi:type=" Subscriber")	Subscriber	Response for CorrelationId corresponding to a List Subscriber Request.
	Sub-Structure of Subscriber will match the Structure of Subscriber defined in CreateSubscriberRequest/UpdateSubscriberRequest (1. Subscriber)	—	—
ProductOrder [*]	...(xsi:type=" ProductOrder")	ProductOrder	Response for CorrelationId corresponding to a List ProductOrder Request.
	Sub-Structure of ProductOrder will match the Structure of ProductOrder defined in SubmitInfrastructureOrderRequest (1. ProductOrder)	—	—
Product [*]	... (xsi:type="Product")	Product	Response for CorrelationId corresponding to a List Infrastructure Product Request and List Subscriber Product Request.
Geographic Site	.../ProductLocatedVia (xsi:type="Geographic Site")	Geographic Site	—
	ID	String	—
Customer	.../ProductOfInterest [productInvolvementRole="Customer"] (xsi:type="PartyRoleProductInvolvement")/PartyRole (xsi:type="Customer")	Customer	—
	partyRoleId	—	—
Subscriber	.../ProductOfInterest [productInvolvementRole="Subscriber"] (xsi:type="PartyRoleProductInvolvement")/PartyRole (xsi:type="Subscriber")	Subscriber	—
	partyRoleId	—	—
Product Specification	.../ProductSpecification	ProductSpecification	—
	productId	String	—

Table 2-24 *GetListResultsResponse (continued)*

Entity	Path/Attribute	Data Type	Comments/Validation/Rules
ProductCharacteristicValue [*]	.../ProductCharacteristicValue	List <i>ProductCharacteristicValue</i>	Product characteristics for the product as specified in the order.
	Value	String	—
Product Characteristic Type	.../ProdCharSpecDescribesProductCharacteristicValue	ProdCharSpecDescribesProductCharacteristicValue	—
	ID	String	—
Sub-Product CharacteristicValue [*]	.../ProductCharacteristicValueRelationship/ProductCharacteristicValue	List <i>ProductCharacteristicValue</i>	—
	ProdSpecCharDescribesProdCharacteristicValue /ID	String	—
	value	String	—
Physical Device	.../BusinessInteractionInvolvesResource (xsi:type= Physical Device)	PhysicalDevice	—
	commonName	String	—
Capability	.../LogicalPhysicalResource [typeofLPDependency = "Capability"]/LogicalResource	LogicalResource	—
	commonName	String	—

getStatus

getStatus operation returns the status for the specified CorrelationId. This section includes:

- [GetStatusRequest](#), page 2-29
- [GetStatusResponse](#), page 2-30

GetStatusRequest

[Table 2-25](#) lists the Entity, Path/Attribute, and Data Types of the GetStatusRequest operation.

Table 2-25 *GetStatusRequest*

Entity	Path/Attribute	Data Type	Comments/Validation/Rules
GetStatusRequest			
—	correlationId	String	The ID of the request that is already submitted.

GetStatusResponse

Table 2-26 lists the Entity, Path/Attribute, and Data Types of the GetStatusResponse operation.

Table 2-26 *GetStatusResponse*

Entity	Path/Attribute	Data Type	Comments/ Validation/ Rules
GetStatusResponse			
—	status	String	—
—	statusMessage	String	—
Result	Result	Entity	Contains the subclass of Entity corresponding to the data returned for the requested CorrelationId
Product Specification	...(xsi:type="ProductSpecification")	Product Specification	Response for CorrelationId corresponding to a ListProductSpecCharacteristicValues Request
ProductSpecCharacteristic [*]	.../ProductSpecCharUse/ ProductSpecCharacteristic	List <i>ProductSpecCharacteristic</i>	—
	ID	String	—
ProdSpecCharacteristicValue [*]	.../ProductSpecCharacteristicEnum eratedBy/ ProductSpecCharacteristicValue	List <i>ProductSpecCharacteristicValue</i>	—
	value	String	—

Domain Manager-Specific Asynchronous Response Data Services

HCM implements individual domain manager-specific northbound data service interfaces, triggered by a generic WS-Notification service.

These interfaces can be invoked by any of the individual domain managers. These are mapped to the SID-Common Model and exposed southbound to OSS/BSS, using a SID-based ProvisionAsyncResponse data source.

HCM invokes a SID-based southbound Web Service data source interface. These will be implemented by the receiving OSS/BSS, based on the ProvisionAsyncResponse WSDL generated from HCM.

See [Figure 2-6](#) for details.

Figure 2-6 Service Interface



208708

If the OSS/BSS decides to make a getStatus call for the given correlationId, the structure is returned synchronously.

See [GetStatusResponse](#), [page 2-30](#) section for description of the GetStatusResponse operation.

