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WebAPIv3_Examples

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WCF Services

== Property == Architecture

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function == Navigation Property ==

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Custom SQL queries in the Core laver

Using the Dynamic

How does Criteria

Create Query Layer

OAuth external

Note: application

When creating an entity instance, the Class property is not required, if the correct @odata.type property is supplied. Class can be Site Contents inferred from this property, from the Edm Model.

The exception to this is when an object is created in a deep insert against a navigation property that exposes an interface. In this case, the @odata.type must be the exposed interface, and the Class property must be supplied.

== Create an Object ==

POST [OrgURI]/api/v3/ADW/SPFFolders

Content-Type: application/json

```
"@odata.type": "#Intergraph.SPF.Server.API.Model.SPFFolder",
    "Name": "Folder-01-0010",
    "Description": "Folder-01-0010a",
    "Class": "SPFFolder"
== Create and Deep Link (1-n) ==
POST [OrgURI]/api/v3/ADW/SPFFolders
Content-Type: application/json
 "@odata.type": "#Intergraph.SPF.Server.API.Model.SPFFolder",
  "Name": "Folder-05-0010",
  "Description": "Folder-05-0010",
  "Class": "SPFFolder",
  "DomainUID": "SPF",
 "PlantItems@odata.bind" : [
        "DevelopmentTags('0039IHA')"
== Create and Deep Link (1-1) ==
POST [OrgURI]/api/v3/ADW/DevelopmentTags
Content-Type: application/json
 "@odata.type": "#Intergraph.SPF.Server.API.Model.DevelopmentTag",
 "Name": "Tag-01-0010",
  "Description": "Tag-01-0010",
 "DomainUID": "SPF",
  "Primary_Classification@odata.bind" : "SPFClassifications('0039IHA')"
== Create and Deep Insert Link ==
POST [OrgURI]/api/v3/ADW/SPFFolders
Content-Type: application/json
 "@odata.type": "#Intergraph.SPF.Server.API.Model.SPFFolder",
  "Name": "Folder-05-0010",
  "Description": "Folder-05-0010",
  "DomainUID": "SPF",
  "PlantItems" : [
     "@odata.type": "#Intergraph.SPF.Server.API.Model.SPFPlantItem",
     "Name": "System-05-01-0010",
     "Description": "System-05-01-0010",
      "Class": "DEVSystem",
      "DEVHazardous": false
     "@odata.type": "#Intergraph.SPF.Server.API.Model.SPFPlantItem",
     "Name": "Tag-05-01-0010",
      "Description": "Tag-05-01-0010",
      "Class": "DevelopmentTag"
== Create and Deep Insert Link ==
PUT [OrgURI]/api/v3/ADW/SPFFolders('6FHN000A')/PlantItems/$ref
Content-Type: application/json
 "@odata.id": "[OrgURI]/api/v3/ADW/DevelopmentTags('0039JLA')"
Update
== Update an object ==
PATCH [OrgURI]/api/v3/ADW/DEVSystems('6FIA000A')
Content-Type: application/json
  "@odata.type": "#Intergraph.SPF.Server.API.Model.SPFFolder",
```

"DEVHazardous": false

}

== Add/Remove an optional interface ==

Note

This is currently **not** supported. But will be implemented in a later story. This update will use the extended property "@Interfaces" to allow optional interfaces to be added or removed.

```
PATCH [OrgURI]/api/v3/ADW/SPFFolders('6FIA000A')
Content-Type: application/json
{
    "@odata.type": "#Intergraph.SPF.Server.API.Model.SPFFolder",
    "@Interfaces": { "ISPFFolderExt1" : true, "ISPFFolderExt2" : false }
}
== Replace One-To-One Relationship ==

PUT [OrgURI]/api/v3/ADW/SPFFolders('6FHN000A')/OneToOneRel/Sref
Content-Type: application/json
{
    "@odata.id": "[OrgURI]/api/v3/ADW/DevelopmentTags('0039JLA')"
}
```

Delete

== Delete an object ==

```
DELETE [OrgURI]/api/v3/ADW/DEVSystems('6FIA000A')
```

Note:

If an update or delete is refused with an HTTP 428 (Precondition Required), you must pass the If-Match header with either "*" value or the current ETag value for the entity instance (e.g. "00000000000D2F3", note you not include the W/ or the escape characters).

(see Smart API SDK information on Data Modification)

== Delete a Relationship (1-1) ==

```
DELETE [OrgURI]/api/v3/ADW/SPFFolders('6FHN000A')/OneToOneRel/$ref
```

== Delete a Relationship (1-n) ==

DELETE [OrgURI]/api/v3/ADW/SPFFolders('6FHN000A')/OneToManyRel/\$ref?\$id=
[OrgURI]/api/v3/ADW/DevelopmentTags('0039JLA')

Terminate

== Terminate a property ==

DELETE [OrgURI]/api/v3/ADW/SPFFolders('6FHN000A')/Description