ConcreteGo Web Service API

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Revision History

Date	Version	Comment
7/10/2019	1.0	initial version
7/31/2019	1.01	add soap communication configuration information
8/28/2019	1.02	add information about signaling unit add information about the `IncludeRemovedTicket`
10/25/2019	1.10	Item query adding more filters Add new queries for UOM, ItemType, ItemCategory, Location, Plant
12/20/2019	1.11	Add ListOnly option to customer query and project query
12/23/2019	1.12	Add ListOnly option and LocationCode filter to item query
12/24/2019	1.13	Add OrderQuery
12/26/2019	1.14	Add more fields on Order Query
12/30/2019	1.15	Ticket Query add ListOny option Ticket Query add MixCode filter Add Ticket Batch Result Message Query API
1/17/2020	1.16	Ticket Query add loadTime filter
1/29/2020	1.17	Ticket Query add order by option Ticket Query add WithBatchWeightsOnly filter
4/3/2020	1.18	Item Query/Update UseDosageQuanityUOMInMixDesign
4/10/2020	1.19	Add More Fields on Plant Query Response Add Truck Query Add Employee Query
4/21/2020	1.20	Add ItemID and ItemCode to batch result response
5/13/2020	1.21	Add Credit Code Query
5/19/2020	1.22	Add Division

6/19/2020	1.23	Add Price Category Query Add Accounting Category Query
6/24/2020	1.24	Add Location Update Enhanced Location Query
6/25/2020	1.25	TruckStatus Query Truck Query add more fields Truck Update
6/29/2020	1.26	Employee Update
7/1/2020	1.27	TaxAuthority Query/Update TaxLocation Query/Update TaxCode Query/Update
7/7/2020	1.28	Add Field InActive in customer query/update
7/9/2020	1.29	Item Query/Update add more fields Command Line Interface (CLI)
9/25/2020	1.30	Ticket query return user defined fields and terms
10/7/2020	1.31	Add filter Reviewed to Order and Ticket Query
10/21/2020	1.32	Add TaxOverride to Item Query and Update
01/11/2021	1.33	Add TicketTime filter for ticket query Project Query return more fields
01/21/2021	1.34	Item add field NonTaxableReasonCode
01/26/2021	1.35	Ticket Query support OrderUserDefinedFields
02/09/2021	1.36	Add Job Query and Quote Query
02/10/2021	1.37	Add some Command Line Interface examples
02/22/2021	1.38	Ticket Query return SalemanCode and SalesmanName Order Query return SalesmanName
03/22/2021	1.39	Add ControlPricePrintInOE to customer query response and project query response

		Add ControlPricePrintInOE to project update
03/28/2021	1.40	Add UsageCodeRequiredInOrderEntry in customer and project Query
03/29/2021	1.41	Add attribute Active to Item Location Update Request
03/31/2021	1.42	Add filter OrderID to Ticket Query
04/06/2021	1.43	Add Code to Division Query Response Add DivisionCode to Customer Query and Update
04/14/2021	1.44	Add Order Update Add Ticket Update
04/15/2021	1.45	Add Project Query include Product Option
04/19/2021	1.46	Add Project Update with Products
04/19/2021	1.47	Login2 for https
04/22/2021	1.48	Ticket Query response add PricingPlantCode, CustomerDivisionCode, ProductID, SalesAnalysisCode
04/23/2021	1.49	Add field SchedulingTruckTypeCode in ticket query response
08/17/2021	1.50	Add Invoice Query
8/26/2021	1.51	Ticket Query response includes TaxCodeDescription and TaxCodeShortDescription
9/2/2021	1.52	Fixed typo
10/6/2021	1.53	Truck Employee active field
11/22/2021	1.54	Inventory Transaction Query
12/03/2021	1.55	Inventory Transaction Quantity Adjustments
02/14/2022	1.56	Item Query add Filter FromCreateDate and ToCreateDate
02/17/2022	1.57	Ticket Query add parameter MarkOrderAsInvoiced and MarkTicketAsInvoiced

03/16/2022	1.58	TicketQuery Response include field OrderCurrentStatus
03/28/2022	1.59	TicketQuery Response include fields CustomerID and ProjectID
07/11/2022	1.60	TicketQuery Response include fields PlantID, LocationID, LocationCode, LocationName
07/25/2022	1.61	TicketQuery add filter IncludeSuspendedTicket and IncludeInvoicedTicket, Ticket Query Response include fields Suspended and Invoiced
08/22/2022	1.62	Ticket Query response add more fields to TicketProduct
10/14/2022	1.63	Truck add field VIN, Employee add field Payroll
12/20/2022	1.64	Customer Query response include Sundry Charges
12/23/2022	1.65	Project Query response include Sundry Charges
12/28/2022	1.66	Customer Sundry Charge Update
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10/16/2023	1.80	Add Customer User Defined Fields to Ticket Query Response
10/17/2023	1.81	Item ProductLink
11/30/2023	1.82	Add field PriceQty and PriceQtyUnit to TicketMessageQuery Response
12/12/2023	1.83	Add CreatedDate filter to ticket query
02/12/2024	1.84	Add more fields to Truck Query and Update
02/15/2024	1.85	Add more fields to Ticket Query
03/01/2024	1.86	Add Batch Inventory Query
03/18/2024	1.87	Update TruckStatus ReturnedMaterialQty

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Introduction

ConcreteGo Web Service API is a SOAP based web service for Sysdyne ConcreteGo Dispatch System. It is used for the integration between ConcretGo.com and third-party systems. The web service url is: http://api1.concretego.com/webcreteapi.asmx

Here is an example to add the web service reference in Microsoft Visual Studio 2017:

- First, Right click the References in the solution explorer, then click [Add Service Reference...]
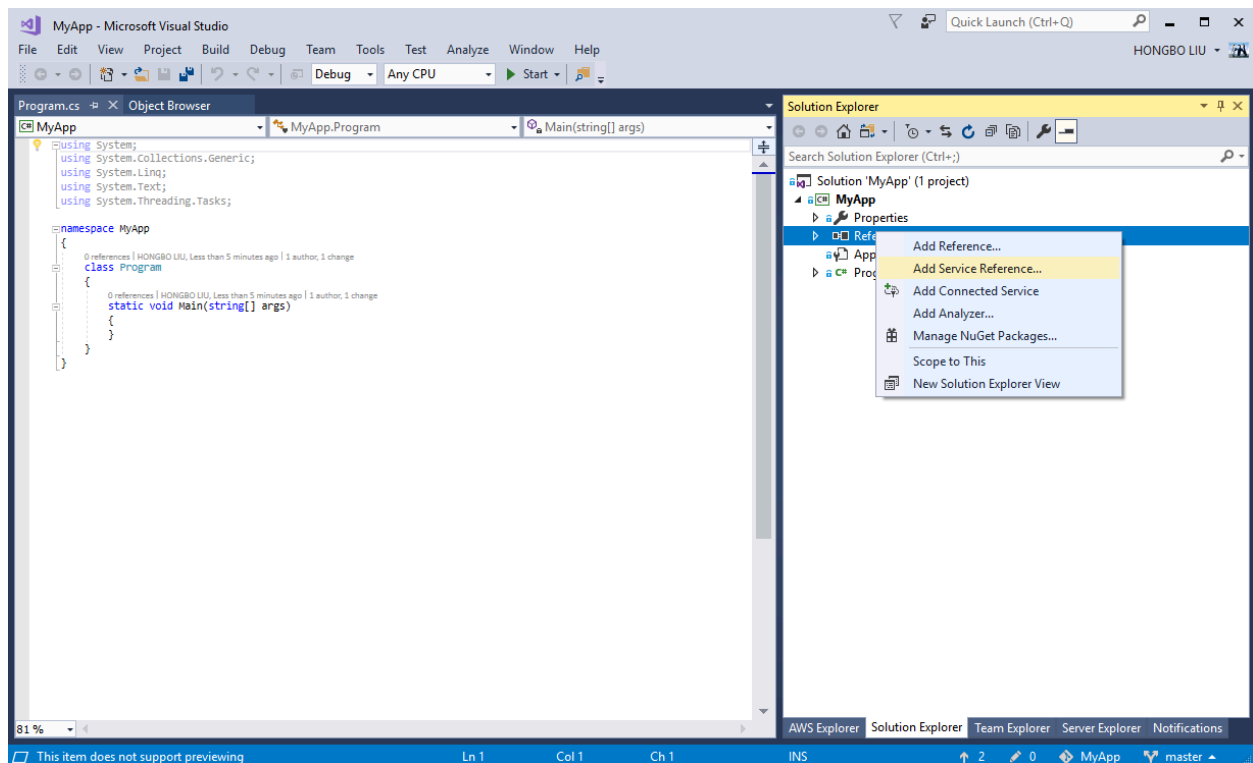
- Fill the address : http://api1.concretego.com/webcreteapi.asmx , Click button [Go] to retrieve web service reference information, change the Namespace to [WebcreteAPI], then click OK
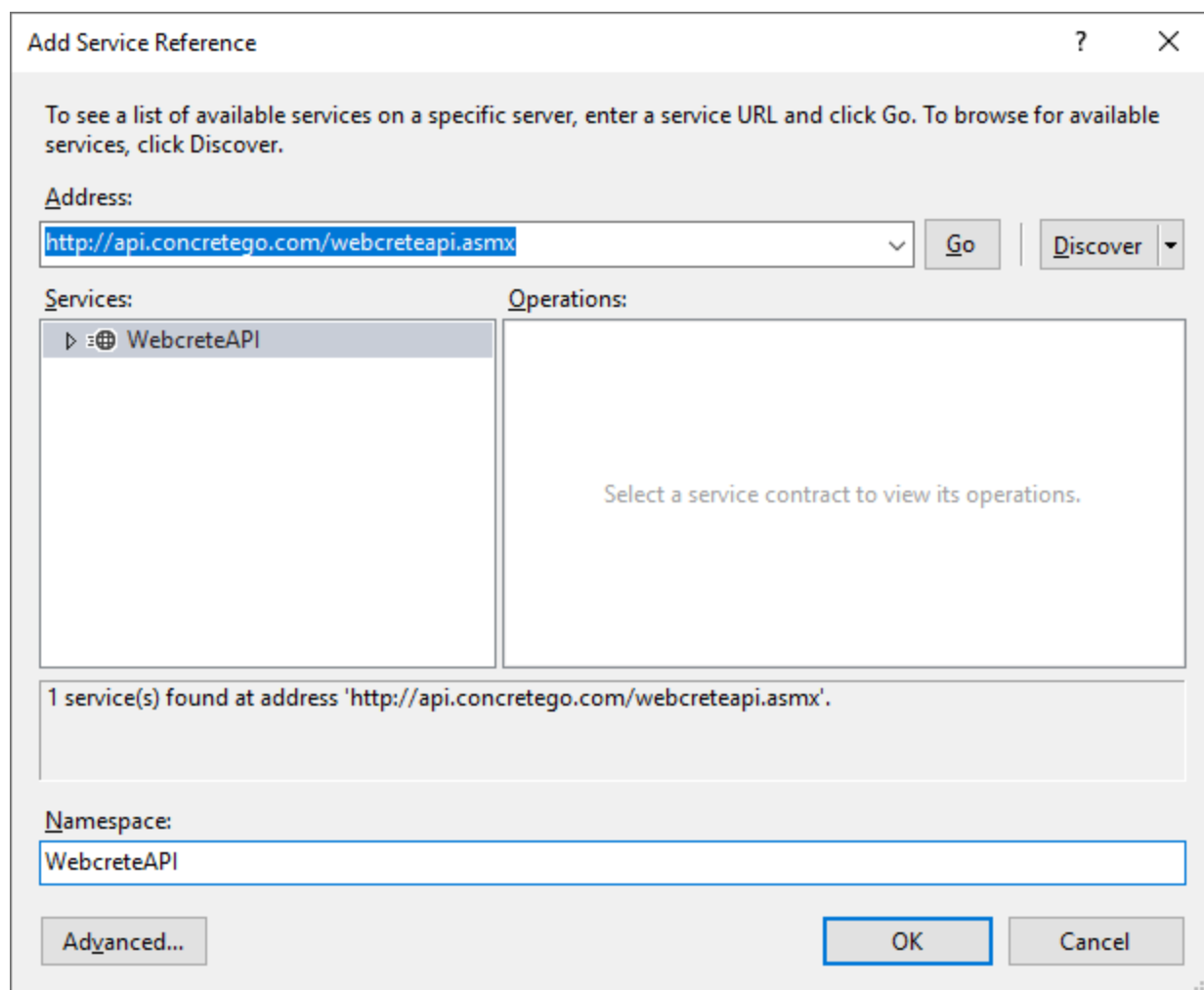
After adding the web service reference to the project, we can start to use the api.

If your program target .NET Framework 2.0, you can add web reference by clicking the **Advanced** button

In this document, we will only use the service reference.

In the app.config, make sure to add the maxBufferSize and maxReceivedMessageSize for the soap binding. An example of the app.config looks like this:

```xml
<?xml version="1.0" encoding="utf-8"?>
<configuration>
    <configSections>
    </configSections>
  <startup><supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.5"/></startup>
  <system.serviceModel>
```

```xml
        <bindings>
            <basicHttpBinding>
                <binding name="WebcreteAPISoap" maxBufferSize="512000000"
maxReceivedMessageSize="512000000"/>
            </basicHttpBinding>
        </bindings>
        <client>
            <endpoint address="http://api.concretego.com/webcreteapi.asmx"
                binding="basicHttpBinding" bindingConfiguration="WebcreteAPISoap"
                contract="WebcreteAPI.WebcreteAPISoap" name="WebcreteAPISoap" />
        </client>
    </system.serviceModel>
</configuration>
```

Now we can start to call the API.

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using MyApp.WebcreteAPI;

namespace MyApp
{
    class Program
    {
        static void Main(string[] args)
        {
            var api = new WebcreteAPISoapClient();
            api.Endpoint.Address = new
System.ServiceModel.EndpointAddress("https://demo-api.concretego.com/webcreteapi.asmx");
            api.Login2(username,password,"");
            //use the api
            api.Logout(ticketHeader);
            api.Close();
        }
    }
}
```

After finish the api calling, make sure call `api.Logout(ticketHeader);`

The endpoint for the web service is in the format of
http://{slug}.api.concretego.com/webcreteapi.asmx. Where {slug} is the Company's ConcreteGo
account/tenant's slug.

For each ConcreteGo account, it has its own endpoint.

The API supports both sync and async calls. In this document, we will only use the sync api for demonstration.

Please check out the example written in C# on GitHub here.

Authentication

The API uses the username/password credentials to authenticate the api access. Before the authentication, we need to create the user account in the ConcreteGo.com. We recommend creating a separate user account for the API access only and disable that user account's web site access.

With the username/password credentials, we can authenticate the api as following:

```csharp
var username = "{your username}";
var password = "{your password}";

var ticketHeader = api.GetPublicKey("Test", "F52D2965BF8318F", out string publicKey);
if (publicKey == null)
{
    throw new Exception("Can not get public key.");
}

RSACryptoServiceProvider key = new RSACryptoServiceProvider();
key.FromXmlString(publicKey);
UnicodeEncoding enc = new UnicodeEncoding();

byte[] encryptedPassword;

encryptedPassword = key.Encrypt(enc.GetBytes(password), false);

if (api.Login(ticketHeader, username, encryptedPassword, null) == false)
{
    throw new Exception("Login failed.");
}
```

We first call GetPublicKey to get the public key that will be used to encrypt the password when login. GetPublicKey accepts the parameters appID and appKey.

AppID and AppKey are assigned to each third-party system by Sysdyne. Please contact us if you are developing a new integration program using ConcreteGo API to get the appID and appKey for your program.

Then we use RSA to encrypt the password and call `Login` to pass the username and encrypted password to login. If the api `Login` call is successful, we can call the `ProcessRequest` to start exchanging data.
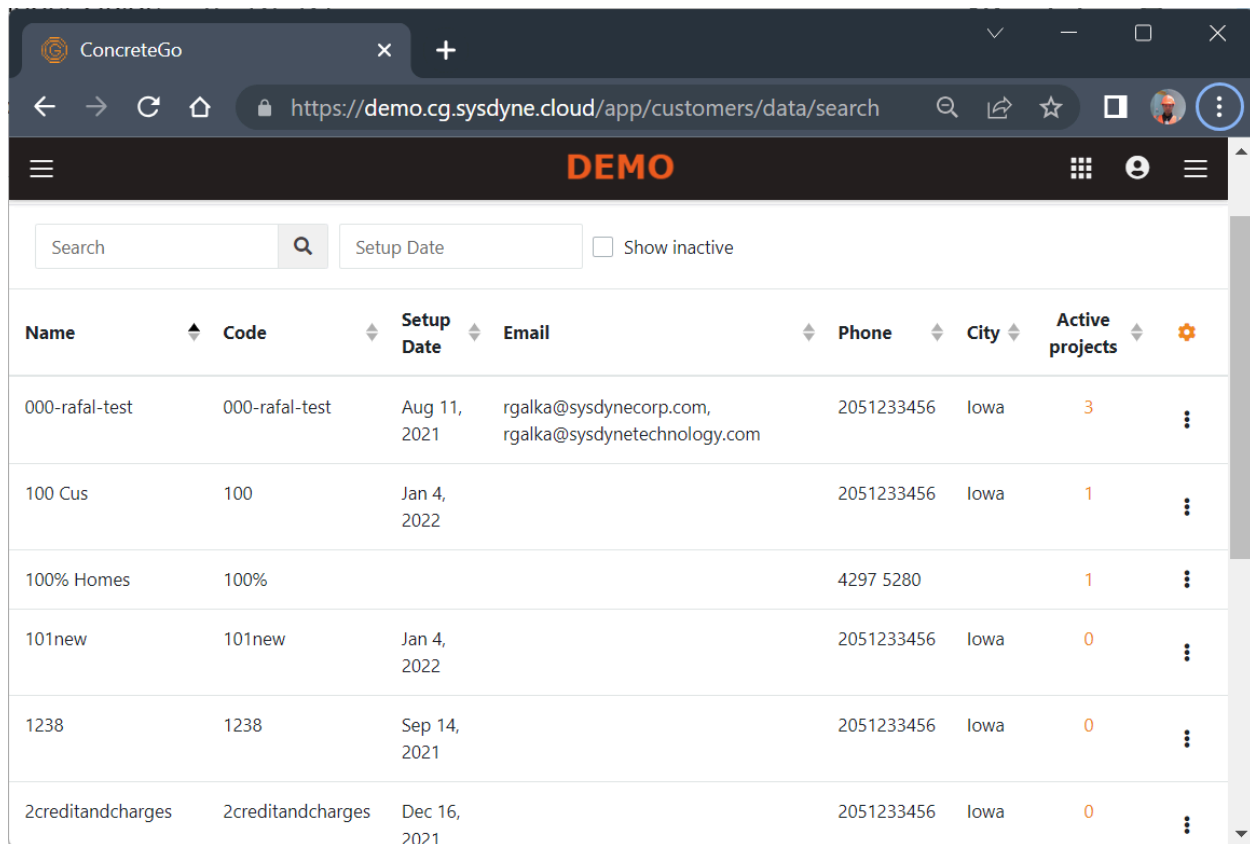
If you access the API through https (**recommended**) . You can also use the login2 to authenticate directly with username and password.

```csharp
if (api.Login2(ticketHeader, username, password, null) == false)
{
    throw new Exception("Login failed.");
}
```

For each tenant, the API URL for the https will be a different url.

If your username is setup for multiple tenants, you need to specify the slug when you login, the slug can be found through the concretego web portal, after you login, you can see your tenant web site url in the format of https://{slug}.cg.sysdyne.cloud/. For example:

The slug for above tenant will be demo

```
if (api.Login2(ticketHeader, username, password, "demo") == false)
{
    throw new Exception("Login failed.");
}
```

An Java example can be found here.

Query Filters

The query request can be provided with different filters to filter the result. For example, the ItemQueryRequest, can use the following filters:

<ListOnly>, <ItemType>, <LocationCode>, <IsConstituent>, etc.

Each filter will affect the result response.

Keep in mind: all those filters can be used as a combination. For example, you can use <ListOnly>True</ListOnly> and <ItemType>Concrete<ItemType> together to only list the mix items.

The WebcreteAPIExplorer demonstrates more examples of how to use the filters.

Process Request

After login successfully, we can start to send request to the API and get response back from api. Both request and response are in xml format.

```
var response = api.ProcessRequest(ticketHeader, request);
```

The request is in the following xml format

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    ...
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

The response is in the following xml format

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    ...
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

Version

➢ Query

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <VersionQueryRq>
    </VersionQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <VersionQueryRs statusCode="0" statusSeverity="Info" statusMessage="Status OK">
      <ConcreteGoVersion>1.0</ConcreteGoVersion>
      <WebcreteVersion>1.0</WebcreteVersion>
      <SupportedWebcreteXMLVersion>1.0</SupportedWebcreteXMLVersion>
    </VersionQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetVersionQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("VersionQueryRq", ""))));

    return x.ToString();
}

var response = api.ProcessRequest(ticketHeader, GetVersionQueryRequest());
```

Company

➢ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <CompanyQueryRq>
    </CompanyQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <CompanyQueryRs statusCode="INTTYPE" statusSeverity="STRTYPE" statusMessage="STRTYPE">
      <!-- optional -->
      <CompanyRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- required -->
        <Short>STRTYPE</Short>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- optional -->
        <Address>
          <!-- optional -->
          <Addr1>STRTYPE</Addr1>
          <!-- optional -->
          <Addr2>STRTYPE</Addr2>
          <!-- optional -->
          <Addr3>STRTYPE</Addr3>
          <!-- optional -->
          <City>STRTYPE</City>
          <!-- optional -->
```

```xml
            <State>STRTYPE</State>
            <PostalCode>STRTYPE</PostalCode>
            <!-- optional -->
            <Country>STRTYPE</Country>
            <!-- optional -->
          </Address>
          <!-- optional -->
          <RemitAddress>
            <!-- optional -->
            <Addr1>STRTYPE</Addr1>
            <!-- optional -->
            <Addr2>STRTYPE</Addr2>
            <!-- optional -->
            <Addr3>STRTYPE</Addr3>
            <!-- optional -->
            <City>STRTYPE</City>
            <!-- optional -->
            <State>STRTYPE</State>
            <!-- optional -->
            <PostalCode>STRTYPE</PostalCode>
            <!-- optional -->
            <Country>STRTYPE</Country>
          </RemitAddress>
          <!-- optional -->
          <Phone>STRTYPE</Phone>
          <!-- optional -->
          <Fax>STRTYPE</Fax>
          <!-- optional -->
          <Email>STRTYPE</Email>
          <!-- optional -->
          <WebSite>STRTYPE</WebSite>
        </CompanyRet>
      </CompanyQueryRs>
    </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetCompanyQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("CompanyQueryRq", ""))));

    return x.ToString();
```

```
}
```

Division

➢ Query

Request

```
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  DivisionQueryRq contains 1 optional attribute: 'requestID' -->
    <DivisionQueryRq requestID="UUIDTYPE" metaData="ENUMTYPE" iterator="ENUMTYPE"
iteratorID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- OR -->
      <!--  opt may repeat-->
      <Name>STRTYPE</Name>
      <!-- END OR -->
      <!--  opt, may rep -->
      <IncludeRetElement>STRTYPE</IncludeRetElement>
    </DivisionQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <DivisionQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional -->
      <DivisionRet>
        <!-- required -->
        <ID>INTTYPE</ID>
```

```
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- required -->
        <ParentID>STRTYPE</ParentID>
        <!-- required -->
        <HierarchyID>STRTYPE</HierarchyID>
      </DivisionRet>
    </DivisionQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetDivisionQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("DivisionQueryRq", ""))));

    return x.ToString();
}
```

UOM

➢ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <UOMQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
```

```
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- OR -->
      <!--  opt may repeat-->
      <Name>STRTYPE</Name>
      <!-- END OR -->
      <!--  opt, may rep -->
    </UOMQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <UOMQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <UOMRet>
        <!-- required -->
        <ID>STRTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- required -->
        <Description>STRTYPE</Description>
        <!-- required -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- required -->
        <UnitTypeID>INTTYPE</UnitTypeID>
        <!-- required -->
        <UnitType>STRTYPE</UnitType>
      </UOMRet>
    </UOMQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetUOMQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
```

```
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("UOMQueryRq", "")))));

    return x.ToString();
}
```

CreditCode

➤ Query

Request

```
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  CreditCodeQueryRq contains 1 optional attribute: 'requestID' -->
    <CreditCodeQueryRq   requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!--  opt, may rep -->
    </CreditCodeQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <CreditCodeQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <CreditCodeRet>
```

```xml
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- optional -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- required -->
        <CreditTypeID>INTTYPE</CreditTypeID>
        <!-- required -->
        <CreditType>STRTYPE</CreditType>
        <!-- optional -->
        <Message>STRTYPE</Message>
        <!-- optional -->
        <CheckCredtLimit>BOOLTYPE</CheckCredtLimit>
        <!-- optional -->
        <UpdateDate>STRTYPE</UpdateDate>
      </CreditCodeRet>
    </CreditCodeQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetCreditCodeQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("CreditCodeQueryRq", ""))));

    return x.ToString();
}
```

TaxAuthority

➢ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  TaxAuthorityQueryRq contains 1 optional attribute: 'requestID' -->
    <TaxAuthorityQueryRq   requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!--  opt, may rep -->
    </TaxAuthorityQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TaxAuthorityQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TaxAuthorityRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- optional -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- optional 1:Taxable sales. 2: Taxable sales plus previous authorities' tax -->
        <TaxBasedOn>INTTYPE</TaxBasedOn>
        <!-- optional 1:Origination 2:Destination  -->
        <PointOfTaxation>INTTYPE</PointOfTaxation>
        <!-- optional -->
        <AllowReciprocation>BOOLTYPE</AllowReciprocation>
        <!-- optional -->
        <AccountLinkCode>STRTYPE</AccountLinkCode>
      </TaxAuthorityRet>
    </TaxAuthorityQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTaxAuthorityQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TaxAuthorityQueryRq", ""))));

    return x.ToString();
}
```

➢ Update

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  TaxAuthorityUpdateRq contains 1 optional attribute: 'requestID' -->
    <TaxAuthorityUpdateRq  requestID="UUIDTYPE">
      <!-- BEGIN OR-->
      <!-- optional-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!-- optional-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!-- Action is optional and may have one of the following values: add,edit,update,delete
-->
      <Action>STRTYPE</Action>
      <!-- optional -->
      <Description>STRTYPE</Description>
      <!-- optional -->
      <ShortDescription>STRTYPE</ShortDescription>
      <!-- optional 1:Taxable sales. 2: Taxable sales plus previous authorities' tax -->
      <TaxBasedOn>INTTYPE</TaxBasedOn>
      <!-- optional 1:Origination 2:Destination  -->
      <PointOfTaxation>INTTYPE</PointOfTaxation>
      <!-- optional -->
      <AllowReciprocation>BOOLTYPE</AllowReciprocation>
```

```xml
      <!-- optional -->
      <AccountLinkCode>STRTYPE</AccountLinkCode>
    </TaxAuthorityUpdateRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TaxAuthorityUpdateRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TaxAuthorityRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>INTTYPE</Code>
        <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
        <Action>STRTYPE</Action>
      </TaxAuthorityRet>
    </TaxAuthorityUpdateRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTaxAuthorityUpdateRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TaxAuthorityUpdateRq",
                    new XElement("Code","S"),
                    new XElement("Description", "State Tax"),
                    new XElement("ShortDescription", "State Tax"),
                    new XElement("TaxBasedOn", "1"),
                    new XElement("PointOfTaxation", "1"),
                    new XElement("AllowReciprocation", "False")))));

    return x.ToString();
```

```
}
```

TaxLocation

➢ Query

Request

```
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  TaxLocationQueryRq contains 1 optional attribute: 'requestID' -->
    <TaxLocationQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!--  opt, may rep -->
    </TaxLocationQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TaxLocationQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TaxLocationRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <TaxAuthorityID>INTTYPE</TaxAuthorityID>
        <!-- required -->
        <TaxAuthorityCode>INTTYPE</TaxAuthorityCode>
        <!-- required -->
```

```xml
        <Code>STRTYPE</Code>
        <!-- optional -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- required -->
        <CurrentRate>FLOATTYPE</CurrentRate>
        <!-- required -->
        <EffectiveDate>DATETIMETYPE</EffectiveDate>
        <!-- required -->
        <PreviousRate>FLOATTYPE</PreviousRate>
        <!-- optional -->
        <MaxTaxableAmount>FLOATTYPE</MaxTaxableAmount>
        <!-- optional -->
        <NonTaxableReasonID>INTTYPE</NonTaxableReasonID>
        <!-- optional -->
        <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
        <!-- optional -->
        <CalculateTaxOnDiscount>BOOLTYPE</CalculateTaxOnDiscount>
        <!-- optional -->
        <ReadyMixDeliveryExempt>BOOLTYPE</ReadyMixDeliveryExempt>
        <!-- optional -->
        <ReadyMixNonTaxableReasonID>INTTYPE</ReadyMixNonTaxableReasonID>
        <!-- optional -->
        <ReadyMixNonTaxableReasonCode>STRTYPE</ReadyMixNonTaxableReasonCode>
        <!-- optional 1:Dollar Amount  2: Percentage -->
        <ReadyMixExemptionType>INTTYPE</ReadyMixExemptionType>
        <!-- optional -->
        <ReadyMixExemptionRate>FLOATTYPE</ReadyMixExemptionRate>
        <!-- optional -->
        <ReadyMixExemptionUnitID>INTTYPE</ReadyMixExemptionUnitID>
        <!-- optional -->
        <ReadyMixExemptionUnitCode>STRTYPE</ReadyMixExemptionUnitCode>
      </TaxLocationRet>
    </TaxLocationQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTaxLocationQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TaxLocationQueryRq", ""))));
```

```csharp
    return x.ToString();
}
```

➢ Update

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  TaxLocationUpdateRq contains 1 optional attribute: 'requestID' -->
    <TaxLocationUpdateRq   requestID="UUIDTYPE">
      <!-- BEGIN OR-->
      <!-- optional-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!-- optional-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!-- Action is optional and may have one of the following values: add,edit,update,delete
-->
      <Action>STRTYPE</Action>
      <!-- optional -->
      <TaxAuthorityID>STRTYPE</TaxAuthorityID>
      <!-- optional -->
      <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
      <!-- optional -->
      <Description>STRTYPE</Description>
      <!-- optional -->
      <ShortDescription>STRTYPE</ShortDescription>
      <!-- required -->
      <CurrentRate>FLOATTYPE</CurrentRate>
      <!-- required -->
      <EffectiveDate>DATETIMETYPE</EffectiveDate>
      <!-- required -->
      <PreviousRate>FLOATTYPE</PreviousRate>
      <!-- optional -->
      <MaxTaxableAmount>FLOATTYPE</MaxTaxableAmount>
      <!-- optional -->
      <NonTaxableReasonID>INTTYPE</NonTaxableReasonID>
      <!-- optional -->
      <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
      <!-- optional -->
      <CalculateTaxOnDiscount>BOOLTYPE</CalculateTaxOnDiscount>
      <!-- optional -->
```

```xml
        <ReadyMixDeliveryExempt>BOOLTYPE</ReadyMixDeliveryExempt>
        <!-- optional -->
        <ReadyMixNonTaxableReasonID>INTTYPE</ReadyMixNonTaxableReasonID>
        <!-- optional -->
        <ReadyMixNonTaxableReasonCode>STRTYPE</ReadyMixNonTaxableReasonCode>
        <!-- optional 1:Dollar Amount  2: Percentage -->
        <ReadyMixExemptionType>INTTYPE</ReadyMixExemptionType>
        <!-- optional -->
        <ReadyMixExemptionRate>FLOATTYPE</ReadyMixExemptionRate>
        <!-- optional -->
        <ReadyMixExemptionUnitID>FLOATTYPE</ReadyMixExemptionUnitID>
        <!-- optional -->
        <ReadyMixExemptionUnitCode>FLOATTYPE</ReadyMixExemptionUnitCode>
      </TaxLocationUpdateRq>
    </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TaxLocationUpdateRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TaxLocationRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>INTTYPE</Code>
        <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
        <Action>STRTYPE</Action>
      </TaxLocationRet>
    </TaxLocationUpdateRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTaxLocationUpdateRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
```

```
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TaxAuthorityUpdateRq",
                    new XElement("Code", "1"),
                    new XElement("Description", "NY State"),
                    new XElement("ShortDescription", "NY State"),
                    new XElement("TaxAuthorityCode", "S"),
                    new XElement("CurrentRate", "8.675"),
                    new XElement("EffectiveDate", "1/1/2020"),
                    new XElement("PreviousRate", "6.5")
                    ))));

    return x.ToString();
}
```

TaxCode

➤ Query

Request

```
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  TaxCodeQueryRq contains 1 optional attribute: 'requestID' -->
    <TaxCodeQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!--  opt, may rep -->
    </TaxCodeQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
```

```
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TaxCodeQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TaxCodeRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- optional -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- required -->
        <TaxLocations>
          <!-- optional may repeat-->
          <TaxLocation>
            <!-- required -->
            <TaxAuthorityID>INTTYPE</TaxAuthorityID>
            <!-- required -->
            <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
            <!-- required -->
            <TaxLocationID>INTTYPE</TaxLocationID>
            <!-- required -->
            <TaxLocationCode>STRTYPE</TaxLocationCode>
          </TaxLocation>
        </TaxLocations>
      </TaxCodeRet>
    </TaxCodeQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTaxCodeQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TaxCodeQueryRq", ""))));

    return x.ToString();
}
```

➢ Update

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  TaxCodeUpdateRq contains 1 optional attribute: 'requestID' -->
    <TaxCodeUpdateRq  requestID="UUIDTYPE">
      <!-- BEGIN OR-->
      <!-- optional-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!-- optional-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!-- Action is optional and may have one of the following values: add,edit,update,delete
-->
      <Action>STRTYPE</Action>
      <!-- optional -->
      <Description>STRTYPE</Description>
      <!-- optional -->
      <ShortDescription>STRTYPE</ShortDescription>
      <!-- required -->
      <TaxLocations>
        <!-- optional may repeat-->
        <TaxLocation>
          <!-- required -->
          <TaxLocationID>INTTYPE</TaxLocationID>
          <!-- required -->
          <TaxLocationCode>STRTYPE</TaxLocationCode>
        </TaxLocation>
      </TaxLocations>
    </TaxCodeUpdateRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
```

```
    <TaxCodeUpdateRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TaxCodeRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>INTTYPE</Code>
        <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
        <Action>STRTYPE</Action>
      </TaxCodeRet>
    </TaxCodeUpdateRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTaxCodeUpdateRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TaxAuthorityUpdateRq",
                    new XElement("Code", "1"),
                    new XElement("Description", "NY State"),
                    new XElement("ShortDescription", "NY State"),
                    new XElement("TaxAuthorityCode", "S"),
                    new XElement("TaxLocations",
                            new XElement("TaxLocation",
                                    new XElement("TaxLocationCode", "1")))))));

    return x.ToString();
}
```

AccountingCategory

➢ Query

Request

```
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  AccountingCategoryQueryRq contains 1 optional attribute: 'requestID' -->
    <AccountingCategoryQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!--  opt, may rep -->
    </AccountingCategoryQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <AccountingCategoryQueryRs requestID="UUIDTYPE" statusCode="INTTYPE"
statusSeverity="STRTYPE" statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <AccountingCategoryRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- optional -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
      </AccountingCategoryRet>
    </AccountingCategoryQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```
public static string GetAccountingCategoryQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
```

```
    new XDeclaration("1.0", "utf-8", "yes"),
    new XProcessingInstruction("webcretexml", "version=\"1.0\""),
    new XElement("WebcreteXML",
        new XElement("WebcreteXMLMsgsRq",
            new XElement("AccountingCategoryQueryRq", ""))));

    return x.ToString();
}
```

PriceCategory

➢ Query

Request

```
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!-- PriceCategoryQueryRq contains 1 optional attribute: 'requestID' -->
    <PriceCategoryQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!--  opt, may rep -->
    </PriceCategoryQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <PriceCategoryQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
```

```
    <PriceCategoryRet>
      <!-- required -->
      <ID>INTTYPE</ID>
      <!-- required -->
      <Code>STRTYPE</Code>
      <!-- optional -->
      <Name>STRTYPE</Name>
      <!-- optional -->
      <Description>STRTYPE</Description>
    </PriceCategoryRet>
   </PriceCategoryQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetPriceCategoryQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("PriceCategoryQueryRq", ""))));

    return x.ToString();
}
```

ItemType

➢ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  ItemTypeQueryRq contains 1 optional attribute: 'requestID' -->
    <ItemTypeQueryRq  requestID="UUIDTYPE">
     <!-- BEGIN OR -->
     <!--  opt may reppeat-->
```

```
    <ID>INTTYPE</ID>
    <!-- OR -->
    <!--  opt may repeat-->
    <Name>STRTYPE</Name>
    <!-- END OR -->
    <!--  opt, may rep -->
  </ItemTypeQueryRq>
 </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <ItemTypeQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <ItemTypeRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- required -->
        <Description>STRTYPE</Description>
      </ItemTypeRet>
    </ItemTypeQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetItemTypeQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("ItemTypeQueryRq", ""))));

    return x.ToString();
}
```

ItemCategory

➤ Query

Request

```
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <ItemTypeQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Name>STRTYPE</Name>
      <!-- END OR -->
      <!--  opt, may rep -->
    </ItemTypeQueryRq>
    <!--  ItemCategoryQueryRq contains 1 optional attribute: 'requestID' -->
    <ItemCategoryQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!--  opt, may rep -->
    </ItemCategoryQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <ItemCategoryQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
```

```
      <!-- optional, may repeat-->
      <ItemCategoryRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- optional -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- required -->
        <ItemTypeID>INTTYPE</ItemTypeID>
        <!-- required -->
        <ItemType>STRTYPE</ItemType>
      </ItemCategoryRet>
    </ItemCategoryQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetItemCategoryQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("ItemCategoryQueryRq", ""))));

    return x.ToString();
}
```

Location

➢ Query

Request

```
<?webcretexml version="1.0"?>
```

```
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <LocationQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- OR -->
      <!--  opt may repeat-->
      <Name>STRTYPE</Name>
      <!-- END OR -->
      <!--  opt, may rep -->
    </LocationQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <LocationQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <LocationRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>INTTYPE</Code>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- required -->
        <CompanyID>INTTYPE</CompanyID>
        <!-- required -->
        <CompanyCode>INTTYPE</CompanyCode>
        <!-- required -->
        <Divisions>
          <!-- optional -->
          <Division>
            <!-- required -->
            <DivisionID>INTTYPE</DivisionID>
            <!-- required -->
            <DivisionName>STRTYPE</DivisionName>
          </Division>
        </Divisions>
```

```
    </LocationRet>
  </LocationQueryRs>
 </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetLocationQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("LocationQueryRq", ""))));

    return x.ToString();
}
```

➢ Update

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--    'requestID' is optional -->
    <LocationUpdateRq   requestID="UUIDTYPE">
      <LocationUpdate>
        <!-- BEGIN OR-->
        <!-- optional-->
        <ID>INTTYPE</ID>
        <!-- OR -->
        <!-- optional-->
        <Code>STRTYPE</Code>
        <!-- OR -->
        <!-- optional-->
        <Name>STRTYPE</Name>
        <!-- END OR -->
        <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
        <Action>STRTYPE</Action>
        <!-- optional -->
```

```
        <ShortName>STRTYPE</ShortName>
        <!-- optional -->
        <AddressLine1>STRTYPE</AddressLine1>
        <!-- optional -->
        <AddressLine2>STRTYPE</AddressLine2>
        <!-- optional -->
        <City>STRTYPE</City>
        <!-- optional -->
        <State>STRTYPE</State>
        <!-- optional -->
        <Country>STRTYPE</Country>
        <!-- optional -->
        <PostalCode>STRTYPE</PostalCode>
        <!-- optional -->
        <PhoneNumber1>STRTYPE</PhoneNumber1>
        <!-- optional -->
        <PhoneNumber2>STRTYPE</PhoneNumber2>
        <!-- optional -->
        <Email>STRTYPE</Email>
        <!-- optional -->
        <CompanyID>INTTYPE</CompanyID>
        <!-- optional -->
        <CompanyCode>INTTYPE</CompanyCode>
        <!-- optional -->
        <Divisions>
          <!-- optional -->
          <Division>
            <!-- required -->
            <DivisionID>INTTYPE</DivisionID>
          </Division>
        </Divisions>
      </LocationUpdate>
      <!--optional, may repeat -->
      <IncludeRetElement>STRTYPE</IncludeRetElement>
    </LocationUpdateRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <!--      'requestID' is optional    -->
    <!--      'statusCode' is required -->
    <!--      'statusSeverity' is required -->
    <!--      'statusMessage' is optional -->
```

```xml
    <LocationUpdateRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <LocationRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>INTTYPE</Code>
        <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
        <Action>STRTYPE</Action>
      </LocationRet>
    </LocationUpdateRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetLocationUpdateRequest(string code, string name)
{
    XDocument x = new System.Xml.Linq.XDocument(
     new XDeclaration("1.0", "utf-8", "yes"),
     new XProcessingInstruction("webcretexml", "version=\"1.0\""),
     new XElement("WebcreteXML",
         new XElement("WebcreteXMLMsgsRq",
             new XElement("LocationUpdateRq",
                 new XElement("LocationUpdate",
                     new XElement("Name",name),
                     new XElement("Code",code))))));

    return x.ToString();
}
```

Plant

➢ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
```

```xml
  <WebcreteXMLMsgsRq>
    <PlantQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!--  opt, may rep -->
    </PlantQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <PlantQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <PlantRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- optional -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- optional -->
        <Address1>STRTYPE</Address1>
        <!-- optional -->
        <Address2>STRTYPE</Address2>
        <!-- optional -->
        <Address3>STRTYPE</Address3>
        <!-- optional -->
        <Phone>STRTYPE</Phone>
        <!-- required -->
        <LocationID>INTTYPE</LocationID>
        <!-- required -->
        <LocationCode>STRTYPE</LocationCode>
        <!-- required -->
        <CompanyID>INTTYPE</CompanyID>
        <!-- required -->
        <CompanyCode>STRTYPE</CompanyCode>
```

```xml
      <!-- required -->
      <WindowsTimeZone>STRTYPE</WindowsTimeZone>
      <!-- required -->
      <IANATimeZone>STRTYPE</IANATimeZone>
      <!-- optional -->
      <Latitude>STRTYPE</Latitude>
      <!-- optional -->
      <Longitude>STRTYPE</Longitude>
      <!-- optional -->
      <MaxBatchSize>FLOATTYPE</MaxBatchSize>
      <!-- optional -->
      <MaxBatchSizeUnit>STRTYPE</MaxBatchSizeUnit>
      <!-- optional -->
      <MaxBatchSizeUnitID>STRTYPE</MaxBatchSizeUnitID>
      <!-- optional -->
      <MaxBatchSizeUnitCode>STRTYPE</MaxBatchSizeUnitCode>
       <!-- required -->
      <AccountLinkCode>STRTYPE</AccountLinkCode>
       <!-- optional -->
      <TruckRentalCostPerHour>FLOATTYPE</TruckRentalCostPerHour>
      <!-- optional -->
      <AdministrationCost>FLOATTYPE</AdministrationCost >
      <!-- optional -->
      <SalesCost>FLOATTYPE</SalesCost>
      <!-- optional -->
      <DispatchCost>FLOATTYPE</DispatchCost>
      <!-- optional -->
      <PlantCost>FLOATTYPE</PlantCost>
      <!-- optional -->
      <FixedTruckCost>FLOATTYPE</FixedTruckCost>
      <!-- optional -->
      <YearlyInterestRate>FLOATTYPE</YearlyInterestRate>
      <!-- optional -->
      <TruckProductiveFactor>FLOATTYPE</TruckProductiveFactor>
      <!-- optional -->
      <DesiredProfitPerQuantity>FLOATTYPE</DesiredProfitPerQuantity>
      <!-- required -->
       <TaxCode>STRTYPE</TaxCode>
      </PlantRet>
    </PlantQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetPlantQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
```

```
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("PlantQueryRq", "")))));

    return x.ToString();
}
```

Truck

➢ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <TruckQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!--  opt may reppeat-->
      <PlantID>INTTYPE</PlantID>
      <!--  opt may repeat-->
      <PlantCode>STRTYPE</PlantCode>
      <!-- optional -->
      <ListOnly>BOOLTYPE</ListOnly>
      <!-- optional -->
      <IncludeInactive>BOOLTYPE</IncludeInactive>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <FromStatusTimeStamp>DATETIMETYPE</FromStatusTimeStamp>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <ToStatusTimeStamp>DATETIMETYPE</ToStatusTimeStamp>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <FromLocationUpdateTime>DATETIMETYPE</FromLocationUpdateTime>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <ToLocationUpdateTime>DATETIMETYPE</ToLocationUpdateTime>
    </TruckQueryRq>
```

```
    </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TruckQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TruckRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- optional -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- optional -->
        <Active>BOOLTYPE</Active>
        <!-- optional -->
        <OwnerName>STRTYPE</OwnerName>
        <!-- optional -->
        <LicenseNumber>STRTYPE</LicenseNumber>
        <!-- optional -->
        <LicenseExpirationDate>DATETYPE</LicenseExpirationDate>
        <!-- optional -->
        <PlantID>STRTYPE</PlantID>
        <!-- optional -->
        <PlantCode>STRTYPE</PlantCode>
        <!-- optional -->
        <PlantName>STRTYPE</PlantName>
        <!-- optional -->
        <DriverID>STRTYPE</DriverID>
        <!-- optional -->
        <DriverCode>STRTYPE</DriverCode>
        <!-- optional -->
        <DriverName>STRTYPE</DriverName>
        <!-- optional -->
        <CurrentPlantID>INTTYPE</CurrentPlantID>
        <!-- optional -->
        <CurrentPlantCode>STRTYPE</CurrentPlantCode>
        <!-- optional -->
        <CurrentPlantName>STRTYPE</CurrentPlantName>
        <!-- optional -->
```

```xml
<CurrentDriverID>INTTYPE</CurrentDriverID>
<!-- optional -->
<CurrentDriverCode>STRTYPE</CurrentDriverCode>
<!-- optional -->
<CurrentDriverName>STRTYPE</CurrentDriverName>
<!-- optional -->
<TruckTypeID>INTTYPE</TruckTypeID>
<!-- optional -->
<TruckTypeCode>STRTYPE</TruckTypeCode>
<!-- optional -->
<TruckTypeName>STRTYPE</TruckTypeName>
<!-- optional -->
<ProductLine>STRTYPE</ProductLine>
<!-- optional -->
<MinimumLoadSize>FLOATTYPE</MinimumLoadSize>
<!-- optional -->
<MinimumLoadSizeUnitID>INTTYPE</MinimumLoadSizeUnitID>
<!-- optional -->
<MinimumLoadSizeUnit>STRTYPE</MinimumLoadSizeUnit>
<!-- optional -->
<MinimumLoadSizeUnitCode>STRTYPE</MinimumLoadSizeUnitCode>
<!-- optional -->
<ScheduleLoadSize>FLOATTYPE</ScheduleLoadSize>
<!-- optional -->
<ScheduleLoadSizeUnitID>INTTYPE</ScheduleLoadSizeUnitID>
<!-- optional -->
<ScheduleLoadSizeUnit>STRTYPE</ScheduleLoadSizeUnit>
<!-- optional -->
<ScheduleLoadSizeUnitCode>STRTYPE</ScheduleLoadSizeUnitCode>
<!-- optional -->
<MaximumLoadSize>FLOATTYPE</MaximumLoadSize>
<!-- optional -->
<MaximumLoadSizeUnitID>INTTYPE</MaximumLoadSizeUnitID>
<!-- optional -->
<MaximumLoadSizeUnit>STRTYPE</MaximumLoadSizeUnit>
<!-- optional -->
<MaximumLoadSizeUnitCode>STRTYPE</MaximumLoadSizeUnitCode>
<!-- optional -->
<TareWeight>STRTYPE</TareWeight>
<!-- optional -->
<TareWeightUnitID>INTTYPE</TareWeightUnitID>
<!-- optional -->
<TareWeightUnit>STRTYPE</TareWeightUnit>
<!-- optional -->
<TareWeightUnitCode>STRTYPE</TareWeightUnitCode>
<!-- optional -->
<DaysTareIsValid>INTTYPE</DaysTareIsValid>
<!-- optional -->
<TareType>STRTYPE</TareType>
<!-- optional -->
```

```
        <DeliveryMethod>STRTYPE</DeliveryMethod>
        <!-- optional -->
        <FOBonly>BOOLTYPE</FOBonly>
        <!-- optional -->
        <RadioCode>STRTYPE</RadioCode>
        <!-- optional -->
        <AutomaticSignaling>BOOLTYPE</AutomaticSignaling>
        <!-- optional -->
        <EnableGPS>BOOLTYPE</EnableGPS>
        <!-- optional -->
        <EnableAutoStatusing>BOOLTYPE</EnableAutoStatusing>
        <!-- optional -->
        <NumberOfDrops>INTTYPE</NumberOfDrops>
        <!-- optional -->
        <SignalingUnitCode>STRTYPE</SignalingUnitCode>
        <!-- optional -->
        <Latitude>STRTYPE</Latitude>
        <!-- optional -->
        <Longitude>STRTYPE</Longitude>
        <!-- optional -->
        <LocationUpdateTime>DATETIMETYPE</LocationUpdateTime>
        <!-- optional
TICKETED|LOADING|LOADED|TOJOB|ONJOB|POURING|WASHING|TOPLANT|ATPLANT|INSERVICE|OUTOFSERVICE|CLO
CKEDIN|CLOCKEDOUT|DEADHEAD-->
        <StatusCode>STRTYPE</StatusCode>
        <!-- optional use sortable format like 2009-06-15T13:45:30 -->
        <StatusTimeStamp>DATETIMETYPE</StatusTimeStamp>
        <!-- optional -->
        <TicketID>INTTYPE</TicketID>
        <!-- optional -->
        <ReturnedMaterialQty>FLOATTYPE</ReturnedMaterialQty>
        <!-- optional -->
        <SetupDate>STRTYPE</SetupDate>
        <!-- optional -->
        <VIN>STRTYPE</VIN>
        <!-- optional -->
        <Flag>STRTYPE</Flag>
        <!-- optional -->
        <ColorCode>STRTYPE</ColorCode>
        <!-- optional -->
        <FontColorCode>STRTYPE</FontColorCode>
        <!-- optional -->
        <PermanentColorCode>STRTYPE</PermanentColorCode>
    </TruckRet>
    </TruckQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetTruckQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TruckQueryRq", ""))));

    return x.ToString();
}
```

➢ Update

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--    'requestID' is optional -->
    <TruckUpdateRq   requestID="UUIDTYPE">
      <TruckUpdate>
        <!-- BEGIN OR-->
        <!-- optional-->
        <ID>INTTYPE</ID>
        <!-- OR -->
        <!-- optional-->
        <Code>STRTYPE</Code>
        <!-- END OR -->
        <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
        <Action>STRTYPE</Action>
        <!-- optional -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- optional -->
        <Active>BOOLTYPE</Active>
        <!-- optional -->
        <OwnerName>STRTYPE</OwnerName>
        <!-- optional -->
        <LicenseNumber>STRTYPE</LicenseNumber>
        <!-- optional -->
        <LicenseExpirationDate>DATETYPE</LicenseExpirationDate>
```

```xml
<!-- optional -->
<PlantID>STRTYPE</PlantID>
<!-- optional -->
<PlantCode>STRTYPE</PlantCode>
<!-- optional -->
<DriverID>STRTYPE</DriverID>
<!-- optional -->
<DriverCode>STRTYPE</DriverCode>
<!-- optional -->
<CurrentPlantID>INTTYPE</CurrentPlantID>
<!-- optional -->
<CurrentPlantCode>STRTYPE</CurrentPlantCode>
<!-- optional -->
<CurrentDriverID>INTTYPE</CurrentDriverID>
<!-- optional -->
<CurrentDriverCode>STRTYPE</CurrentDriverCode>
<!-- required -->
<TruckTypeID>INTTYPE</TruckTypeID>
<!-- required -->
<TruckTypeCode>STRTYPE</TruckTypeCode>
<!-- optional -->
<ProductLine>STRTYPE</ProductLine>
<!-- optional -->
<MinimumLoadSize>FLOATTYPE</MinimumLoadSize>
<!-- optional -->
<MinimumLoadSizeUnitID>INTTYPE</MinimumLoadSizeUnitID>
<!-- optional -->
<MinimumLoadSizeUnitCode>STRTYPE</MinimumLoadSizeUnitCode>
<!-- optional -->
<ScheduleLoadSize>FLOATTYPE</ScheduleLoadSize>
<!-- optional -->
<ScheduleLoadSizeUnitID>INTTYPE</ScheduleLoadSizeUnitID>
<!-- optional -->
<ScheduleLoadSizeUnitCode>STRTYPE</ScheduleLoadSizeUnitCode>
<!-- optional -->
<MaximumLoadSize>FLOATTYPE</MaximumLoadSize>
<!-- optional -->
<MaximumLoadSizeUnitID>INTTYPE</MaximumLoadSizeUnitID>
<!-- optional -->
<MaximumLoadSizeUnitCode>STRTYPE</MaximumLoadSizeUnitCode>
<!-- optional -->
<TareWeight>FLOATTYPE</TareWeight>
<!-- optional -->
<TareWeightUnitID>INTTYPE</TareWeightUnitID>
<!-- optional -->
<TareWeightUnitCode>STRTYPE</TareWeightUnitCode>
<!-- optional -->
<DaysTareIsValid>INTTYPE</DaysTareIsValid>
<!-- optional -->
<TareType>STRTYPE</TareType>
```

```
      <!-- optional -->
      <DeliveryMethod>STRTYPE</DeliveryMethod>
      <!-- optional -->
      <FOBonly>BOOLTYPE</FOBonly>
      <!-- optional -->
      <RadioCode>STRTYPE</RadioCode>
      <!-- optional -->
      <AutomaticSignaling>BOOLTYPE</AutomaticSignaling>
      <!-- optional -->
      <EnableGPS>BOOLTYPE</EnableGPS>
      <!-- optional -->
      <EnableAutoStatusing>BOOLTYPE</EnableAutoStatusing>
      <!-- optional -->
      <NumberOfDrops>INTTYPE</NumberOfDrops>
      <!-- optional -->
      <SignalingUnitCode>STRTYPE</SignalingUnitCode>
      <!-- optional -->
      <SetupDate>DATETYPE</SetupDate>
      <!-- optional -->
      <VIN>STRTYPE</VIN>
      <!-- optional -->
      <Flag>STRTYPE</Flag>
      <!-- optional -->
      <ColorCode>STRTYPE</ColorCode>
      <!-- optional -->
      <FontColorCode>STRTYPE</FontColorCode>
      <!-- optional -->
      <PermanentColorCode>STRTYPE</PermanentColorCode>
    </TruckUpdate>
    <!--optional, may repeat -->
    <IncludeRetElement>STRTYPE</IncludeRetElement>
   </TruckUpdateRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TruckUpdateRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TruckRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
```

```
    <Code>INTTYPE</Code>
    <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
    <Action>STRTYPE</Action>
  </TruckRet>
 </TruckUpdateRs>
 </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTruckUpdateRequest(string code, string description, string plantCode)
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TruckUpdateRq",
                    new XElement("Code", code),
                    new XElement("Description", description),
                    new XElement("PlantCode", plantCode)))));

    return x.ToString();
}
```

Employee

➢ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <EmployeeQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
```

```
      <Code>STRTYPE</Code>
      <!--  opt may reppeat-->
      <PlantID>INTTYPE</PlantID>
      <!-- OR -->
      <!--  opt may repeat-->
      <PlantCode>STRTYPE</PlantCode>
      <!--  opt may repeat-->
      <EmployeeType>STRTYPE</EmployeeType>
      <!-- END OR -->
      <!--  opt, may rep -->
      <!-- optional -->
      <ListOnly>BOOLTYPE</ListOnly>
      <IncludeInactive>BOOLTYPE</IncludeInactive>
    </EmployeeQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <EmployeeQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <EmployeeRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- optional -->
        <Name>STRTYPE</Name>
         <!-- optional -->
         <Active>BOOLTYPE</Active>
        <!-- EmployeeType DRIVER|SALESMAN|WEIGHMASTER|CREDITPERSON -->
        <EmployeeType>STRTYPE</EmployeeType>
        <!-- optional -->
        <Address1>STRTYPE</Address1>
        <!-- optional -->
        <Address2>STRTYPE</Address2>
        <!-- optional -->
        <City>STRTYPE</City>
        <!-- optional -->
        <State>STRTYPE</State>
        <!-- optional -->
        <Country>STRTYPE</Country>
        <!-- optional -->
```

```
        <PostalCode>STRTYPE</PostalCode>
        <!-- optional -->
        <Phone>STRTYPE</Phone>
        <!-- optional -->
        <PhoneExt>STRTYPE</PhoneExt>
        <!-- optional -->
        <Email>STRTYPE</Email>
        <!-- optional -->
        <Fax>STRTYPE</Fax>
        <!-- optional -->
        <PlantID>INTTYPE</PlantID>
        <!-- optional -->
        <PlantCode>STRTYPE</PlantCode>
         <!-- optional -->
         <Payroll>STRTYPE</Payroll>
       </EmployeeRet>
     </EmployeeQueryRs>
   </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public static string GetEmployeeQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("EmployeeQueryRq", ""))));

    return x.ToString();
}
```

➢ Update

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <EmployeeUpdateRq  requestID="UUIDTYPE">
      <EmployeeUpdate>
```

```xml
        <!-- BEGIN OR-->
        <!-- optional-->
        <ID>INTTYPE</ID>
        <!-- OR -->
        <!-- optional-->
        <Code>STRTYPE</Code>
        <!-- END OR -->
        <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
        <Action>STRTYPE</Action>
        <!-- optional -->
        <Name>STRTYPE</Name>
        <!-- optional -->
        <Active>BOOLTYPE</Active>
        <!-- EmployeeType
DRIVER|SALESMAN|WEIGHMASTER|CREDITPERSON|BATCHER|!DRIVER|!SALESMAN|!WEIGHMASTER|!CREDITPERSON|
!BATCHER may repeat-->
        <EmployeeType>STRTYPE</EmployeeType>
        <!-- optional -->
        <Address1>STRTYPE</Address1>
        <!-- optional -->
        <Address2>STRTYPE</Address2>
        <!-- optional -->
        <City>STRTYPE</City>
        <!-- optional -->
        <State>STRTYPE</State>
        <!-- optional -->
        <Country>STRTYPE</Country>
        <!-- optional -->
        <PostalCode>STRTYPE</PostalCode>
        <!-- optional -->
        <Phone>STRTYPE</Phone>
        <!-- optional -->
        <PhoneExt>STRTYPE</PhoneExt>
        <!-- optional -->
        <Email>STRTYPE</Email>
        <!-- optional -->
        <Fax>STRTYPE</Fax>
        <!-- optional -->
        <PlantID>INTTYPE</PlantID>
        <!-- optional -->
        <PlantCode>STRTYPE</PlantCode>
        <!-- optional -->
        <Payroll>STRTYPE</Payroll>
      </EmployeeUpdate>
      <!--optional, may repeat -->
      <IncludeRetElement>STRTYPE</IncludeRetElement>
    </EmployeeUpdateRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <EmployeeUpdateRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <EmployeeRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>INTTYPE</Code>
        <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
        <Action>STRTYPE</Action>
      </EmployeeRet>
    </EmployeeUpdateRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetEmployeeUpdateRequest(string code, string name, string employeeType)
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("EmployeeUpdateRq",
                    new XElement("Code", code),
                    new XElement("Name", name),
                    new XElement("EmployeeType", employeeType)))));

    return x.ToString();
}
```

Customer

➢ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <CustomerQueryRq requestID="UUIDTYPE" metaData="ENUMTYPE" iterator="ENUMTYPE"
iteratorID="UUIDTYPE">
      <!-- BEGIN OR-->
      <!-- optional, may repeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!-- optional, may repeat-->
      <Code>STRTYPE</Code>
      <!-- OR -->
      <!-- optional, may repeat-->
      <Name>STRTYPE</Name>
      <!-- OR -->
      <!-- optional -->
      <MaxReturned >INTTYPE</MaxReturned>
      <!-- optional -->
      <ListOnly>BOOLTYPE</ListOnly>
      <!-- optional -->
      <InActive>BOOLTYPE</InActive>
      <!-- optional -->
      <FromSetupDate>DATETIMETYPE</FromSetupDate>
      <!-- optional -->
      <ToSetupDate>DATETIMETYPE</ToSetupDate>
      <!-- optional -->
      <FromUpdateDate>DATETIMETYPE</FromUpdateDate>
      <!-- optional -->
      <ToUpdateDate>DATETIMETYPE</ToUpdateDate>
      <!-- optional, may repeat-->
      <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
      <!-- optional, may repeat-->
      <SalesmanCode>STRTYPE</SalesmanCode>
      <!-- optional, may repeat-->
      <SalesmanName>STRTYPE</SalesmanName>
      <!-- optional, may repeat-->
      <PriceCategoryCode>STRTYPE</PriceCategoryCode>
      <!-- optional, may repeat-->
      <PricingPlantCode>STRTYPE</PricingPlantCode>
```

```
      <!-- optional, may repeat-->
      <TermsCode>STRTYPE</TermsCode>
      <!-- optional, may repeat-->
      <ZoneCode>STRTYPE</ZoneCode>
      <!-- optional, may repeat-->
      <StatementCycle>STRTYPE</StatementCycle>
      <!-- optional, may repeat-->
      <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
      <!-- END OR -->
      <!-- optional, may repeat can be SUNDRYCHARGE | USERDEFINEDFIELD  -->
      <IncludeRetElement>STRTYPE</IncludeRetElement>
    </CustomerQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <CustomerQueryRs  requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE"  retCount = "INTTYPE" iteratorRemainingCount = "INTTYPE" iteratorID =
"UUIDTYPE">
      <!-- optional, may repeat-->
      <CustomerRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- optional -->
        <SetupDate>DATETIMETYPE</SetupDate>
        <!-- optional -->
        <SortName>STRTYPE</SortName>
        <!-- optional -->
        <Address>
          <!-- optional -->
          <Addr1>STRTYPE</Addr1>
          <!-- optional -->
          <Addr2>STRTYPE</Addr2>
          <!-- optional -->
          <Addr3>STRTYPE</Addr3>
          <!-- optional -->
          <City>STRTYPE</City>
          <!-- optional -->
          <State>STRTYPE</State>
```

```xml
  <!-- optional -->
  <PostalCode>STRTYPE</PostalCode>
  <!-- optional -->
  <Country>STRTYPE</Country>
</Address>
<!-- optional -->
<InvoiceAddress>
  <!-- optional -->
  <Name>STRTYPE</Name>
  <!-- optional -->
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
  <City>STRTYPE</City>
  <!-- optional -->
  <State>STRTYPE</State>
  <!-- optional -->
  <PostalCode>STRTYPE</PostalCode>
  <!-- optional -->
  <Country>STRTYPE</Country>
</InvoiceAddress>
<!-- optional -->
<StatementAddress>
  <!-- optional -->
  <Name>STRTYPE</Name>
  <!-- optional -->
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
  <City>STRTYPE</City>
  <!-- optional -->
  <State>STRTYPE</State>
  <!-- optional -->
  <PostalCode>STRTYPE</PostalCode>
  <!-- optional -->
  <Country>STRTYPE</Country>
</StatementAddress>
<!-- optional -->
<Contact>STRTYPE</Contact>
<!-- optional -->
<Phone>STRTYPE</Phone>
<!-- optional -->
<Fax>STRTYPE</Fax>
<!-- optional -->
<Cellular>STRTYPE</Cellular>
<!-- optional -->
<Email>STRTYPE</Email>
<!-- optional -->
```

```xml
<QBInvoiceEmailChecked>BOOL</QBInvoiceEmailChecked>
<!-- optional -->
<Sales>
  <!-- optional -->
  <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
  <!-- optional -->
  <SalesmanCode>STRTYPE</SalesmanCode>
  <!-- optional -->
  <SalesmanName>STRTYPE</SalesmanName>
</Sales>
<!-- optional -->
<Taxing>
  <!-- optional -->
  <TaxID>STRTYPE</TaxID>
  <!-- optional -->
  <TaxCode>STRTYPE</TaxCode>
  <!-- optional -->
  <Taxable>BOOLTYPE</Taxable>
  <!-- optional -->
  <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
  <!-- optional, may repeat -->
  <TaxExcempt>
    <!-- optional -->
    <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
    <!-- optional -->
    <TaxExemptID>STRTYPE</TaxExemptID>
  </TaxExcempt>
</Taxing>
<!-- optional -->
<Pricing>
  <!-- optional -->
  <PriceCategoryCode>STRTYPE</PriceCategoryCode>
  <!-- optional -->
  <PriceCategoryName>STRTYPE</PriceCategoryName>
  <!-- optional -->
  <PriceCategoryDescription>STRTYPE</PriceCategoryDescription>
  <!-- optional -->
  <PricingPlantCode>STRTYPE</PricingPlantCode>
  <!-- optional -->
  <TradeDiscountPercent>PERCENTTYPE</TradeDiscountPercent>
  <!-- optional -->
  <TradeDiscountAmount>FLOATTYPE</TradeDiscountAmount>
  <!-- optional -->
  <TradeDiscountAmountUnitCode>STRTYPE</TradeDiscountAmountUnitCode>
  <!-- optional -->
  <TermCode>STRTYPE</TermCode>
  <!-- optional -->
  <ZoneCode>STRTYPE</ZoneCode>
  <!-- optional -->
  <OverrideChargeRate>FLOATTYPE</OverrideChargeRate>
```

```
          <!-- optional -->
          <OverrideChargeEfftiveDate>DATETIEMTYPE</OverrideChargeEfftiveDate>
          <!-- optional -->
          <PreviousRate>DATETIMETYPE</PreviousRate>
          <!-- optional -->
          <ApplyZoneCharges>BOOLTYPE</ApplyZoneCharges>
          <!-- optional -->
          <AllowPriceChangeInOrderEntry>BOOLTYPE</AllowPriceChangeInOrderEntry>
          <!-- optional -->
          <ControlPricePrintInOE>BOOLTYPE</ControlPricePrintInOE>
          <!-- optional -->
          <PrintPricesOnTicket>BOOLTYPE</PrintPricesOnTicket>
          <!-- optional -->
          <RestrictOrderstoCustomerProducts>BOOLTYPE</RestrictOrderstoCustomerProducts>
          <!-- optional -->
          <AllowAutomaticPriceAjustment>BOOLTYPE</AllowAutomaticPriceAjustment>
        </Pricing>
        <!-- optional -->
        <Charges>
          <!-- optional -->
          <MinimumLoadChargeTableCode>STRTYPE</MinimumLoadChargeTableCode>
          <!-- optional -->
          <SeasonalChargeTableCode>STRTYPE</SeasonalChargeTableCode>
          <!-- optional -->
          <UnloadingChargeTableCode>STRTYPE</UnloadingChargeTableCode>
          <!-- optional -->
          <ApplyMinimumLoadCharge>BOOLTYPE</ApplyMinimumLoadCharge>
          <!-- optional -->
          <ApplySeasonalCharge>BOOLTYPE</ApplySeasonalCharge>
          <!-- optional -->
          <ApplyUnloadingCharge>BOOLTYPE</ApplyUnloadingCharge>
          <!-- optional -->

<PrintMinimumLoadChargeOnSeperateInvoice>BOOLTYPE</PrintMinimumLoadChargeOnSeperateInvoice>
          <!-- optional -->

<PrintSeasonalChargeOnSeperateInvoice>BOOLTYPE</PrintSeasonalChargeOnSeperateInvoice>
          <!-- optional -->

<PrintUnloadingChargeOnSeperateInvoice>BOOLTYPE</PrintUnloadingChargeOnSeperateInvoice>
          <!-- optional -->

<PrintAutomaticSundryChargeOnSeperateInvoice>BOOLTYPE</PrintAutomaticSundryChargeOnSeperateInvoice>
          <!-- optional →
          <SundryCharges>
            <!-- optional may repeat -->
            <SundryCharge>
              <!-- optional -->
              <ID>INTTYPE</ID>
```

```xml
        <!-- optional -->
        <SundryChargeID>INTTYPE</SundryChargeID>
        <!-- optional -->
        <SundryChargeCode>STRTYPE</SundryChargeCode>
        <!-- optional -->
        <ApplySundryCharge>BOOLTYPE</ApplySundryCharge>
        <!-- optional -->
        <Price>FLOATTYPE</Price>
        <!-- optional -->
        <PriceUnitID>INTTYPE</PriceUnitID>
        <!-- optional -->
        <PriceUnitCode>STRTYPE</PriceUnitCode>
        <!-- optional -->
        <PriceUnit>STRTYPE</PriceUnit>
        <!-- optional -->
        <PriceExtensionCode>STRTYPE</PriceExtensionCode>
        <!-- optional -->
        <EffectiveDate>DATETIMETYPE</EffectiveDate>
        <!-- optional -->
        <PreviousPrice>FLOATTYPE</PreviousPrice>
        <!-- optional -->
        <PreviousPriceUnitID>INTTYPE</PreviousPriceUnitID>
        <!-- optional -->
        <PreviousPriceUnitCode>INTTYPE</PreviousPriceUnitCode>
        <!-- optional -->
        <PreviousPriceUnit>STRTYPE</PreviousPriceUnit>
        <!-- optional -->
        <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
        <!-- optional -->
        <CreateSeperateInvoice>BOOLTYPE</CreateSeperateInvoice>
      </SundryCharge>
    </SundryCharges>
</Charges>
<!-- optional -->
<Accounting>
  <!-- optional -->
  <StatementCycle>STRTYPE</StatementCycle>
  <!-- optional -->
  <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
  <!-- optional -->
  <ApplyFinanceCharges>BOOLTYPE</ApplyFinanceCharges>
  <!-- optional -->
  <PrintStatements>BOOLTYPE</PrintStatements>
  <!-- optional -->
  <CreditCard>
    <!-- optional -->
    <CardName>STRTYPE</CardName>
    <!-- optional -->
    <CardNumber>STRTYPE</CardNumber>
    <!-- optional -->
```

```
      <ResponsibleName>STRTYPE</ResponsibleName>
      <!-- optional -->
      <ExpirationDate>STRTYPE</ExpirationDate>
    </CreditCard>
    <!-- optional -->
    <CreditInformation>
      <!-- optional, may repeat -->
      <Credit>
        <!-- required -->
        <CompanyCode>STRTYPE</CompanyCode>
        <!-- required -->
        <CreditCode>STRTYPE</CreditCode>
        <!-- optional -->
        <CreditChangeDate>DATETIMETYPE</CreditChangeDate>
        <!-- optional -->
        <CreditLimit>AMTTYPE</CreditLimit>
        <!-- optional -->
        <CurrentBalance>AMTTYPE</CurrentBalance>
        <!-- optional -->
        <HighBalance>AMTTYPE</HighBalance>
        <!-- optional -->
        <UpdateCredit>BOOLTYPE</UpdateCredit>
        <!-- optional -->
        <CreditUpdateDate>DATETIMETYPE</CreditUpdateDate>
        <!-- optional -->
        <HighBalanceDate>DATETIMETYPE</HighBalanceDate>
        <!-- optional -->
        <LastInvoiceDate>DATETIMETYPE</LastInvoiceDate>
        <!-- optional -->
        <CreditPersonCode>STRTYPE</CreditPersonCode>
        <!-- optional -->
        <CreditPersonName>STRTYPE</CreditPersonName>
      </Credit>
    </CreditInformation>
    <!-- optional -->
    <PurchaseOrderRequiredInOrderEntry>BOOLTYPE</PurchaseOrderRequiredInOrderEntry>
    <!-- optional -->
    <CustomerJobRequiredInOrderEntry>BOOLTYPE</CustomerJobRequiredInOrderEntry>
    <!-- optional -->
    <ExternalLiensRequiredInOrderEntry>BOOLTYPE</ExternalLiensRequiredInOrderEntry>
    <!-- optional -->
    <SuspendOrderReasonCode>BOOLTYPE</SuspendOrderReasonCode>
    <!-- optional -->
    <UsageCodeRequiredInOrderEntry>BOOLTYPE</UsageCodeRequiredInOrderEntry>
</Accounting>
<!-- optional -->
<Distribution>
  <!-- optional -->
  <TrackingOrderColorCode>STRTYPE</TrackingOrderColorCode>
  <!-- optional -->
```

```xml
      <PrintMixWeightOnTicket>BOOLTYPE</PrintMixWeightOnTicket>
      <!-- optional -->
      <PrinterSelector>STRTYPE</PrinterSelector>
    </Distribution>
    <!-- required -->
    <DivisionID>INTTYPE</DivisionID>
    <!-- required -->
    <DivisionCode>STRTYPE</DivisionCode>
    <!-- required -->
    <UpdateDate>DATETIMETYPE</UpdateDate>
    <!-- optional -->
    <InActive>BOOLTYPE</InActive>
    <!-- optional -->
    <UserDefinedFields>
      <!-- optional, may rep -->
      <UserDefinedField>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- required -->
        <Value>STRTYPE</Value>
      </UserDefinedField>
    </UserDefinedFields>
   </CustomerRet>
  </CustomerQueryRs>
 </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetCustomerQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("CustomerQueryRq", ""))));

    return x.ToString();
}
```

➢ Update

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <CustomerUpdateRq>
      <CustomerUpdate>
        <!-- BEGIN OR-->
        <!-- optional-->
        <ID>INTTYPE</ID>
        <!-- OR -->
        <!-- optional-->
        <Code>STRTYPE</Code>
        <!-- OR -->
        <!-- optional-->
        <Name>STRTYPE</Name>
        <!-- END OR -->
        <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
        <Action>STRTYPE</Action>
        <!-- optional -->
        <SetupDate>DATETIMETYPE</SetupDate>
        <!-- optional -->
        <SortName>STRTYPE</SortName>
        <!-- optional -->
        <Address>
          <!-- optional -->
          <Addr1>STRTYPE</Addr1>
          <!-- optional -->
          <Addr2>STRTYPE</Addr2>
          <!-- optional -->
          <Addr3>STRTYPE</Addr3>
          <!-- optional -->
          <City>STRTYPE</City>
          <!-- optional -->
          <State>STRTYPE</State>
          <!-- optional -->
          <PostalCode>STRTYPE</PostalCode>
          <!-- optional -->
          <Country>STRTYPE</Country>
        </Address>
        <!-- optional -->
        <InvoiceAddress>
          <!-- optional -->
          <Name>STRTYPE</Name>
          <!-- optional -->
          <Addr1>STRTYPE</Addr1>
          <!-- optional -->
          <Addr2>STRTYPE</Addr2>
          <!-- optional -->
          <City>STRTYPE</City>
```

```xml
  <!-- optional -->
  <State>STRTYPE</State>
  <!-- optional -->
  <PostalCode>STRTYPE</PostalCode>
  <!-- optional -->
  <Country>STRTYPE</Country>
</InvoiceAddress>
<!-- optional -->
<StatementAddress>
  <!-- optional -->
  <Name>STRTYPE</Name>
  <!-- optional -->
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
  <City>STRTYPE</City>
  <!-- optional -->
  <State>STRTYPE</State>
  <!-- optional -->
  <PostalCode>STRTYPE</PostalCode>
  <!-- optional -->
  <Country>STRTYPE</Country>
</StatementAddress>
<!-- optional -->
<Contact>STRTYPE</Contact>
<!-- optional -->
<Phone>STRTYPE</Phone>
<!-- optional -->
<Fax>STRTYPE</Fax>
<!-- optional -->
<Cellular>STRTYPE</Cellular>
<!-- optional -->
<Email>STRTYPE</Email>
<!-- optional -->
<QBInvoiceEmailChecked>BOOL</QBInvoiceEmailChecked>
<!-- optional -->
<Sales>
  <!-- optional -->
  <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
  <!-- optional -->
  <SalesmanCode>STRTYPE</SalesmanCode>
  <!-- optional -->
  <SalesmanName>STRTYPE</SalesmanName>
</Sales>
<!-- optional -->
<Taxing>
  <!-- optional -->
  <TaxID>STRTYPE</TaxID>
  <!-- optional -->
```

```
    <TaxCode>STRTYPE</TaxCode>
    <!-- optional -->
    <Taxable>BOOLTYPE</Taxable>
    <!-- optional -->
    <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
    <!-- optional, may repeat -->
    <TaxExcempt>
      <!-- optional -->
      <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
      <!-- optional -->
      <TaxExemptID>STRTYPE</TaxExemptID>
    </TaxExcempt>
  </Taxing>
  <!-- optional -->
  <Pricing>
    <!-- optional -->
    <PriceCategoryCode>STRTYPE</PriceCategoryCode>
    <!-- optional -->
    <PricingPlantCode>STRTYPE</PricingPlantCode>
    <!-- optional -->
    <TradeDiscountPercent>PERCENTTYPE</TradeDiscountPercent>
    <!-- optional -->
    <TradeDiscountAmount>FLOATTYPE</TradeDiscountAmount>
    <!-- optional -->
    <TradeDiscountAmountUnitCode>STRTYPE</TradeDiscountAmountUnitCode>
    <!-- optional -->
    <TermCode>STRTYPE</TermCode>
    <!-- optional -->
    <ZoneCode>STRTYPE</ZoneCode>
    <!-- optional -->
    <OverrideChargeRate>FLOATTYPE</OverrideChargeRate>
    <!-- optional -->
    <OverrideChargeEfftiveDate>DATETIEMTYPE</OverrideChargeEfftiveDate>
    <!-- optional -->
    <PreviousRate>DATETIMETYPE</PreviousRate>
    <!-- optional -->
    <ApplyZoneCharges>BOOLTYPE</ApplyZoneCharges>
    <!-- optional -->
    <AllowPriceChangeInOrderEntry>BOOLTYPE</AllowPriceChangeInOrderEntry>
    <!-- optional -->
    <ControlPricePrintInOE>BOOLTYPE</ControlPricePrintInOE>
    <!-- optional -->
    <PrintPricesOnTicket>BOOLTYPE</PrintPricesOnTicket>
    <!-- optional -->
    <RestrictOrderstoCustomerProducts>BOOLTYPE</RestrictOrderstoCustomerProducts>
    <!-- optional -->
    <AllowAutomaticPriceAjustment>BOOLTYPE</AllowAutomaticPriceAjustment>
  </Pricing>
  <!-- optional -->
  <Charges>
```

```
        <!-- optional -->
        <MinimumLoadChargeTableCode>STRTYPE</MinimumLoadChargeTableCode>
        <!-- optional -->
        <SeasonalChargeTableCode>STRTYPE</SeasonalChargeTableCode>
        <!-- optional -->
        <UnloadingChargeTableCode>STRTYPE</UnloadingChargeTableCode>
        <!-- optional -->
        <ApplyMinimumLoadCharge>BOOLTYPE</ApplyMinimumLoadCharge>
        <!-- optional -->
        <ApplySeasonalCharge>BOOLTYPE</ApplySeasonalCharge>
        <!-- optional -->
        <ApplyUnloadingCharge>BOOLTYPE</ApplyUnloadingCharge>
        <!-- optional -->

<PrintMinimumLoadChargeOnSeperateInvoice>BOOLTYPE</PrintMinimumLoadChargeOnSeperateInvoice>
        <!-- optional -->

<PrintSeasonalChargeOnSeperateInvoice>BOOLTYPE</PrintSeasonalChargeOnSeperateInvoice>
        <!-- optional -->

<PrintUnloadingChargeOnSeperateInvoice>BOOLTYPE</PrintUnloadingChargeOnSeperateInvoice>
        <!-- optional -->

<PrintAutomaticSundryChargeOnSeperateInvoice>BOOLTYPE</PrintAutomaticSundryChargeOnSeperateInvoice>
        <!-- optional Method: PUT|PATCH, default PATCH -->
        <SundryCharges Method="STRTYPE">
        <!-- optional may repeat Action: UPSERT|DELETE-->
        <SundryCharge  Action="STRTYPE">
          <!-- required BEGIN OR-->
          <!-- optional -->
          <SundryChargeID>INTTYPE</SundryChargeID>
          <!-- optional -->
          <SundryChargeCode>STRTYPE</SundryChargeCode>
          <!-- END OR -->
          <!-- required -->
          <ApplySundryCharge>BOOLTYPE</ApplySundryCharge>
          <!-- optional -->
          <Price>FLOATTYPE</Price>
          <!-- optional BEGIN OR-->
          <!-- optional -->
          <PriceUnitID>INTTYPE</PriceUnitID>
          <!-- optional -->
          <PriceUnitCode>STRTYPE</PriceUnitCode>
          <!-- optional -->
          <PriceUnit>STRTYPE</PriceUnit>
          <!-- END OR -->
          <!-- optional -->
          <PriceExtensionCode>STRTYPE</PriceExtensionCode>
          <!-- optional -->
```

```
        <EffectiveDate>DATETIMETYPE</EffectiveDate>
        <!-- optional -->
        <PreviousPrice>FLOATTYPE</PreviousPrice>
        <!-- optional BEGIN OR-->
        <PreviousPriceUnitID>INTTYPE</PreviousPriceUnitID>
        <!-- optional -->
        <PreviousPriceUnitCode>INTTYPE</PreviousPriceUnitCode>
        <!-- optional -->
        <PreviousPriceUnit>STRTYPE</PreviousPriceUnit>
        <!-- END OR -->
        <!-- optional -->
        <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
        <!-- optional -->
        <CreateSeperateInvoice>BOOLTYPE</CreateSeperateInvoice>
      </SundryCharge>
    </SundryCharges>
</Charges>
<!-- optional -->
<Accounting>
  <!-- optional -->
  <StatementCycle>STRTYPE</StatementCycle>
  <!-- optional -->
  <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
  <!-- optional -->
  <ApplyFinanceCharges>BOOLTYPE</ApplyFinanceCharges>
  <!-- optional -->
  <PrintStatements>BOOLTYPE</PrintStatements>
  <!-- optional -->
  <CreditCard>
    <!-- optional -->
    <CardName>STRTYPE</CardName>
    <!-- optional -->
    <CardNumber>STRTYPE</CardNumber>
    <!-- optional -->
    <ResponsibleName>STRTYPE</ResponsibleName>
    <!-- optional -->
    <ExpirationDate>STRTYPE</ExpirationDate>
  </CreditCard>
  <!-- optional -->
  <CreditInformation>
    <!-- optional, may repeat -->
    <Credit>
      <!-- required -->
      <CompanyCode>STRTYPE</CompanyCode>
      <!-- required -->
      <CreditCode>STRTYPE</CreditCode>
      <!-- optional -->
      <CreditChangeDate>DATETIMETYPE</CreditChangeDate>
      <!-- optional -->
      <CreditLimit>AMTTYPE</CreditLimit>
```

```
          <!-- optional -->
          <CurrentBalance>AMTTYPE</CurrentBalance>
          <!-- optional -->
          <HighBalance>AMTTYPE</HighBalance>
          <!-- optional -->
          <UpdateCredit>BOOLTYPE</UpdateCredit>
          <!-- optional -->
          <CreditUpdateDate>DATETIMETYPE</CreditUpdateDate>
          <!-- optional -->
          <HighBalanceDate>DATETIMETYPE</HighBalanceDate>
          <!-- optional -->
          <LastInvoiceDate>DATETIMETYPE</LastInvoiceDate>
          <!-- optional -->
          <CreditPersonCode>STRTYPE</CreditPersonCode>
          <!-- optional -->
          <CreditPersonName>STRTYPE</CreditPersonName>
        </Credit>
      </CreditInformation>
      <!-- optional -->
      <PurchaseOrderRequiredInOrderEntry>BOOLTYPE</PurchaseOrderRequiredInOrderEntry>
      <!-- optional -->
      <CustomerJobRequiredInOrderEntry>BOOLTYPE</CustomerJobRequiredInOrderEntry>
      <!-- optional -->
      <ExternalLiensRequiredInOrderEntry>BOOLTYPE</ExternalLiensRequiredInOrderEntry>
      <!-- optional -->
      <SuspendOrderReasonCode>BOOLTYPE</SuspendOrderReasonCode>
      <!-- optional -->
      <UsageCodeRequiredInOrderEntry>BOOLTYPE</UsageCodeRequiredInOrderEntry>
    </Accounting>
    <!-- optional -->
    <Distribution>
      <!-- optional -->
      <TrackingOrderColorCode>STRTYPE</TrackingOrderColorCode>
      <!-- optional -->
      <PrintMixWeightOnTicket>BOOLTYPE</PrintMixWeightOnTicket>
      <!-- optional -->
      <PrinterSelector>STRTYPE</PrinterSelector>
    </Distribution>
    <!-- BEGIN OR -->
    <!-- required -->
    <DivisionID>INTTYPE</DivisionID>
    <!-- OR -->
    <DivisionCode>STRTYPE</DivisionCode>
    <!-- END OR -->
    <!-- optional -->
    <InActive>BOOLTYPE</InActive>
  </CustomerUpdate>
  <!--optional, may repeat -->
  <IncludeRetElement>STRTYPE</IncludeRetElement>
</CustomerUpdateRq>
```

```
    </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
      <CustomerQueryRs  statusCode="INTTYPE" statusSeverity="STRTYPE" statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <CustomerRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- optional -->
        <SetupDate>DATETIMETYPE</SetupDate>
        <!-- optional -->
        <SortName>STRTYPE</SortName>
        <!-- optional -->
        <Address>
          <!-- optional -->
          <Addr1>STRTYPE</Addr1>
          <!-- optional -->
          <Addr2>STRTYPE</Addr2>
          <!-- optional -->
          <Addr3>STRTYPE</Addr3>
          <!-- optional -->
          <City>STRTYPE</City>
          <!-- optional -->
          <State>STRTYPE</State>
          <!-- optional -->
          <PostalCode>STRTYPE</PostalCode>
          <!-- optional -->
          <Country>STRTYPE</Country>
        </Address>
        <!-- optional -->
        <InvoiceAddress>
          <!-- optional -->
          <Name>STRTYPE</Name>
          <!-- optional -->
          <Addr1>STRTYPE</Addr1>
          <!-- optional -->
          <Addr2>STRTYPE</Addr2>
          <!-- optional -->
```

```
      <City>STRTYPE</City>
      <!-- optional -->
      <State>STRTYPE</State>
      <!-- optional -->
      <PostalCode>STRTYPE</PostalCode>
      <!-- optional -->
      <Country>STRTYPE</Country>
    </InvoiceAddress>
    <!-- optional -->
    <StatementAddress>
      <!-- optional -->
      <Name>STRTYPE</Name>
      <!-- optional -->
      <Addr1>STRTYPE</Addr1>
      <!-- optional -->
      <Addr2>STRTYPE</Addr2>
      <!-- optional -->
      <City>STRTYPE</City>
      <!-- optional -->
      <State>STRTYPE</State>
      <!-- optional -->
      <PostalCode>STRTYPE</PostalCode>
      <!-- optional -->
      <Country>STRTYPE</Country>
    </StatementAddress>
    <!-- optional -->
    <Contact>STRTYPE</Contact>
    <!-- optional -->
    <Phone>STRTYPE</Phone>
    <!-- optional -->
    <Fax>STRTYPE</Fax>
    <!-- optional -->
    <Cellular>STRTYPE</Cellular>
    <!-- optional -->
    <Email>STRTYPE</Email>
    <!-- optional -->
    <QBInvoiceEmailChecked>BOOL</QBInvoiceEmailChecked>
    <!-- optional -->
    <Sales>
      <!-- optional -->
      <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
      <!-- optional -->
      <SalesmanCode>STRTYPE</SalesmanCode>
      <!-- optional -->
      <SalesmanName>STRTYPE</SalesmanName>
    </Sales>
    <!-- optional -->
    <Taxing>
      <!-- optional -->
      <TaxID>STRTYPE</TaxID>
```

```xml
    <!-- optional -->
    <TaxCode>STRTYPE</TaxCode>
    <!-- optional -->
    <Taxable>BOOLTYPE</Taxable>
    <!-- optional -->
    <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
    <!-- optional, may repeat -->
    <TaxExcempt>
      <!-- optional -->
      <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
      <!-- optional -->
      <TaxExemptID>STRTYPE</TaxExemptID>
    </TaxExcempt>
</Taxing>
<!-- optional -->
<Pricing>
  <!-- optional -->
  <PriceCategoryCode>STRTYPE</PriceCategoryCode>
  <!-- optional -->
  <PricingPlantCode>STRTYPE</PricingPlantCode>
  <!-- optional -->
  <TradeDiscountPercent>PERCENTTYPE</TradeDiscountPercent>
  <!-- optional -->
  <TradeDiscountAmount>FLOATTYPE</TradeDiscountAmount>
  <!-- optional -->
  <TradeDiscountAmountUnitCode>STRTYPE</TradeDiscountAmountUnitCode>
  <!-- optional -->
  <TermCode>STRTYPE</TermCode>
  <!-- optional -->
  <ZoneCode>STRTYPE</ZoneCode>
  <!-- optional -->
  <OverrideChargeRate>FLOATTYPE</OverrideChargeRate>
  <!-- optional -->
  <OverrideChargeEfftiveDate>DATETIEMTYPE</OverrideChargeEfftiveDate>
  <!-- optional -->
  <PreviousRate>DATETIMETYPE</PreviousRate>
  <!-- optional -->
  <ApplyZoneCharges>BOOLTYPE</ApplyZoneCharges>
  <!-- optional -->
  <AllowPriceChangeInOrderEntry>BOOLTYPE</AllowPriceChangeInOrderEntry>
  <!-- optional -->
  <PrintPricesOnTicket>BOOLTYPE</PrintPricesOnTicket>
  <!-- optional -->
  <RestrictOrderstoCustomerProducts>BOOLTYPE</RestrictOrderstoCustomerProducts>
  <!-- optional -->
  <AllowAutomaticPriceAjustment>BOOLTYPE</AllowAutomaticPriceAjustment>
</Pricing>
<!-- optional -->
<Charges>
  <!-- optional -->
```

```xml
            <MinimumLoadChargeTableCode>STRTYPE</MinimumLoadChargeTableCode>
            <!-- optional -->
            <SeasonalChargeTableCode>STRTYPE</SeasonalChargeTableCode>
            <!-- optional -->
            <UnloadingChargeTableCode>STRTYPE</UnloadingChargeTableCode>
            <!-- optional -->
            <ApplyMinimumLoadCharge>BOOLTYPE</ApplyMinimumLoadCharge>
            <!-- optional -->
            <ApplySeasonalCharge>BOOLTYPE</ApplySeasonalCharge>
            <!-- optional -->
            <ApplyUnloadingCharge>BOOLTYPE</ApplyUnloadingCharge>
            <!-- optional -->

<PrintMinimumLoadChargeOnSeperateInvoice>BOOLTYPE</PrintMinimumLoadChargeOnSeperateInvoice>
            <!-- optional -->

<PrintSeasonalChargeOnSeperateInvoice>BOOLTYPE</PrintSeasonalChargeOnSeperateInvoice>
            <!-- optional -->

<PrintUnloadingChargeOnSeperateInvoice>BOOLTYPE</PrintUnloadingChargeOnSeperateInvoice>
            <!-- optional -->

<PrintAutomaticSundryChargeOnSeperateInvoice>BOOLTYPE</PrintAutomaticSundryChargeOnSeperateInvoice>
        </Charges>
        <!-- optional -->
        <Accounting>
          <!-- optional -->
          <StatementCycle>STRTYPE</StatementCycle>
          <!-- optional -->
          <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
          <!-- optional -->
          <ApplyFinanceCharges>BOOLTYPE</ApplyFinanceCharges>
          <!-- optional -->
          <PrintStatements>BOOLTYPE</PrintStatements>
          <!-- optional -->
          <CreditCard>
            <!-- optional -->
            <CardName>STRTYPE</CardName>
            <!-- optional -->
            <CardNumber>STRTYPE</CardNumber>
            <!-- optional -->
            <ResponsibleName>STRTYPE</ResponsibleName>
            <!-- optional -->
            <ExpirationDate>STRTYPE</ExpirationDate>
          </CreditCard>
          <!-- optional -->
          <CreditInformation>
            <!-- optional, may repeat -->
            <Credit>
```

```xml
          <!-- required -->
          <CompanyCode>STRTYPE</CompanyCode>
          <!-- required -->
          <CreditCode>STRTYPE</CreditCode>
          <!-- optional -->
          <CreditChangeDate>DATETIMETYPE</CreditChangeDate>
          <!-- optional -->
          <CreditLimit>AMTTYPE</CreditLimit>
          <!-- optional -->
          <CurrentBalance>AMTTYPE</CurrentBalance>
          <!-- optional -->
          <HighBalance>AMTTYPE</HighBalance>
          <!-- optional -->
          <UpdateCredit>BOOLTYPE</UpdateCredit>
          <!-- optional -->
          <CreditUpdateDate>DATETIMETYPE</CreditUpdateDate>
          <!-- optional -->
          <HighBalanceDate>DATETIMETYPE</HighBalanceDate>
          <!-- optional -->
          <LastInvoiceDate>DATETIMETYPE</LastInvoiceDate>
          <!-- optional -->
          <CreditPersonCode>STRTYPE</CreditPersonCode>
          <!-- optional -->
          <CreditPersonName>STRTYPE</CreditPersonName>
        </Credit>
      </CreditInformation>
      <!-- optional -->
      <PurchaseOrderRequiredInOrderEntry>BOOLTYPE</PurchaseOrderRequiredInOrderEntry>
      <!-- optional -->
      <CustomerJobRequiredInOrderEntry>BOOLTYPE</CustomerJobRequiredInOrderEntry>
      <!-- optional -->
      <ExternalLiensRequiredInOrderEntry>BOOLTYPE</ExternalLiensRequiredInOrderEntry>
      <!-- optional -->
      <SuspendOrderReasonCode>BOOLTYPE</SuspendOrderReasonCode>
    </Accounting>
    <!-- optional -->
    <Distribution>
      <!-- optional -->
      <TrackingOrderColorCode>STRTYPE</TrackingOrderColorCode>
      <!-- optional -->
      <PrintMixWeightOnTicket>BOOLTYPE</PrintMixWeightOnTicket>
      <!-- optional -->
      <PrinterSelector>STRTYPE</PrinterSelector>
    </Distribution>
    <!-- required -->
    <DivisionID>INTTYPE</DivisionID>
    <UpdateDate>DATETIMETYPE</UpdateDate>
  </CustomerRet>
</CustomerQueryRs>
</WebcreteXMLMsgsRs>
```

```
</WebcreteXML>
```

C# example

```csharp
public string GetCustomerUpdateRequest(string code, string name, string sort)
{
    XDocument x = new System.Xml.Linq.XDocument(
     new XDeclaration("1.0", "utf-8", "yes"),
     new XProcessingInstruction("webcretexml", "version=\"1.0\""),
     new XElement("WebcreteXML",
         new XElement("WebcreteXMLMsgsRq",
             new XElement("CustomerUpdateRq",
                 new XElement("CustomerUpdate",
                     new XElement("Name",name),
                     new XElement("Code",code),
                     new XElement("Sort",sort))))));

    return x.ToString();
}
```

Item

➤ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
      <!-- BEGIN OR-->
      <!-- optional, may repeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!-- optional, may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!-- optional -->
      <ListOnly>BOOLTYPE</ListOnly>
      <!-- optional, may repeat-->
      <LocationCode>STRTYPE</LocationCode>
      <!-- optional, may repeat-->
      <CategoryID>INTTYPE</CategoryID>
```

```xml
      <!-- optional, may repeat-->
      <CategoryCode>STRTYPE</CategoryCode>
      <!-- optional, may repeat-->
      <ItemTypeID>INTTYPE</ItemTypeID>
      <!-- optional, may repeat-->
      <ItemType>STRTYPE</ItemType>
      <!-- optional -->
      <IsConstituent>BOOLTYPE</IsConstituent>
      <!-- optional -->
      <KeepInInventory>BOOLTYPE</KeepInInventory>
      <!-- optional -->
      <Resaleable>BOOLTYPE</Resaleable>
      <!-- optional -->
      <DoNotAllowTicketing>BOOLTYPE</DoNotAllowTicketing>
      <!-- optional -->
      <Taxable>BOOLTYPE</Taxable>
      <!-- optional -->
      <FromUpdateDate>DATETIMETYPE</FromUpdateDate>
      <!-- optional -->
      <ToUpdateDate>DATETIMETYPE</ToUpdateDate>
      <!-- optional -->
      <FromCreateDate>DATETIMETYPE</FromCreateDate>
      <!-- optional -->
      <ToCreateDate>DATETIMETYPE</ToCreateDate>
      <!-- optional -->
      <MaxReturned>INTTYPE</MaxReturned>
      <!-- optional, may repeat, can be
LOCATION|COST|PRICING|MIXDESIGN|BATCHING|TAXOVERRIDE|BATCHCODE|AUTOPRODUCT-->
      <IncludeRetElement>STRTYPE</IncludeRetElement>
    </ItemQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <ItemQueryRs  requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE"  retCount = "INTTYPE" iteratorRemainingCount = "INTTYPE" iteratorID =
"UUIDTYPE">
      <!-- optional, may repeat-->
      <ItemRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
```

```
<!-- required -->
<Description>STRTYPE</Description>
<!-- optional -->
<ShortDescription>STRTYPE</ShortDescription>
<!-- optional -->
<CategoryCode>STRTYPE</CategoryCode>
<!-- optional -->
<KeepInInventory>BOOLTYPE</KeepInInventory>
<!-- optional -->
<Resaleable>BOOLTYPE</Resaleable>
<!-- optional -->
<DoNotAllowTicketing>BOOLTYPE</DoNotAllowTicketing>
<!-- optional -->
<IsConstituent>BOOLTYPE</IsConstituent>
<!-- optional -->
<AccountLinkCode>STRTYPE</AccountLinkCode>
<!-- optional -->
<CategoryAccountLinkCode>STRTYPE</CategoryAccountLinkCode>
<!-- optional -->
<ProductLink>STRTYPE</ProductLink>
<!-- optional -->
<ItemTypeID>INTTYPE</ItemTypeID>
<!-- optional -->
<ItemType>INTTYPE</ItemType>
<!-- optional -->
<UOM>
        <!-- optional -->
  <OrderedQuantityUnitCode>STRTYPE</OrderedQuantityUnitCode>
  <!-- optional -->
  <OrderedQuantityUnit>STRTYPE</OrderedQuantityUnit>
  <!-- optional -->
  <OrderedQuantityExtCode>STRTYPE</OrderedQuantityExtCode>
        <!-- optional -->
  <DeliveredQuantityUnitCode>STRTYPE</DeliveredQuantityUnitCode>
  <!-- optional -->
  <DeliveredQuantityUnit>STRTYPE</DeliveredQuantityUnit>
  <!-- optional -->
  <TicketQuantityExtCode>STRTYPE</TicketQuantityExtCode>
        <!-- optional -->
        <PriceQuantityUnitCode>STRTYPE</PriceQuantityUnitCode>
  <!-- optional -->
  <PriceQuantityUnit>STRTYPE</PriceQuantityUnit>
  <!-- optional -->
  <PriceQuantityExtCode>STRTYPE</PriceQuantityExtCode>
        <!-- optional -->
  <BatchUnitCode>STRTYPE</BatchUnitCode>
  <!-- optional -->
  <BatchUnit>STRTYPE</BatchUnit>
        <!-- optional -->
  <InventoryUnitCode>STRTYPE</InventoryUnitCode>
```

```
      <!-- optional -->
      <InventoryUnit>STRTYPE</InventoryUnit>
              <!-- optional -->
      <PurchaseUnitCode>STRTYPE</PurchaseUnitCode>
      <!-- optional -->
      <PurchaseUnit>STRTYPE</PurchaseUnit>
              <!-- optional -->
      <ReportingUnitCode>STRTYPE</ReportingUnitCode>
      <!-- optional -->
      <ReportingUnit>STRTYPE</ReportingUnit>
      <!-- optional -->
      <DosageQuantity>INTTYPE</DosageQuantity>
      <!-- optional -->
      <PerCemWeightDivisor>INTTYPE</PerCemWeightDivisor>
      <!-- optional -->
      <UseDosageQuantityUOMInMixDesign>
        <!-- required -->
        <Enable>BOOLTYPE</Enable>
        <!-- required -->
        <DosageQuantityExtensionCode>STRTYPE</DosageQuantityExtensionCode>
        <!-- required -->
        <PerCemWeightDivisor>INTTYPE</PerCemWeightDivisor>
        <!-- required -->
        <DosageQuantity>FLOATTYPE</DosageQuantity>
      </UseDosageQuantityUOMInMixDesign>
  </UOM>
  <!-- optional -->
  <Sales>
    <!-- optional -->
    <Taxable>BOOLTYPE</Taxable>
    <!-- optional -->
    <TradeDiscountable>BOOLTYPE</TradeDiscountable>
    <!-- optional -->
    <TermDiscountable>BOOLTYPE</TermDiscountable>
    <!-- optional -->
    <UsageCode>STRTYPE</UsageCode>
     <!-- optional -->
     <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
    <!-- optional -->
    <ExpirationDate>DATETIMETYPE</ExpirationDate>
  </Sales>
  <!-- optional -->
  <Mix>
    <!-- optional -->
    <Strength>INTTYPE</Strength>
    <!-- optional -->
    <StrengthUnit>STRTYPE</StrengthUnit>
    <!-- optional -->
    <Slump>FLOATTYPE</Slump>
    <!-- optional -->
```

```xml
    <WaterCementRatio>FLOATTYPE</WaterCementRatio>
    <!-- optional -->
    <AggregateSize>STRTYPE</AggregateSize>
    <!-- optional -->
    <CementType>STRTYPE</CementType>
    <!-- optional -->
    <DaysToStrength>INTTYPE</DaysToStrength>
    <!-- optional -->
    <MaximumWater>FLOATTYPE</MaximumWater>
    <!-- optional -->
    <MinCementContent>FLOATTYPE</MinCementContent>
    <!-- optional -->
    <PercentAirVolume>FLOATTYPE</PercentAirVolume>
    <!-- optional -->
    <WaterHoldback>FLOATTYPE</WaterHoldback>
    <!-- optional -->
    <LightweightCubicFeet>FLOATTYPE</LightweightCubicFeet>
  </Mix>
  <!-- optional -->
  <Locations>
    <!-- optional, may repeat -->
    <Location>
      <LocationID>INTTYPE</LocationID>
      <LocationCode>STRTYPE</LocationCode>
      <!-- optional -->
      <Batching>
        <!-- optional -->
        <SpecificGravity>FLOATTYPE</SpecificGravity>
        <!-- optional -->
        <MoisturePercent>FLOATTYPE</MoisturePercent>
        <!-- optional -->
        <BatchUnit>STRTYPE</BatchUnit>
        <!-- optional -->
        <MaximumBatchSize>FLOATTYPE</MaximumBatchSize>
        <!-- optional -->
        <MixerTime>INTTYPE</MixerTime>
        <!-- optional -->
        <DownloadToBatchSystem>BOOLTYPE</DownloadToBatchSystem>
      </Batching>
      <!-- optional -->
      <MixDesign>
        <!-- optional, may repeat -->
        <Material>
          <Sort>INTTYPE</Sort>
          <Code>STRTYPE</Code>
          <Description>STRTYPE</Description>
          <Quantity>FLOATTYPE</Quantity>
          <DosageQuantity>FLOATTYPE</DosageQuantity>
          <Unit>STRTYPE</Unit>
        </Material>
```

```
</MixDesign>
<!-- optional -->
<Cost>
  <!-- optional -->
  <StandardCost>FLOATTYPE</StandardCost>
  <!-- optional -->
  <CostExtensionCode>STRTYPE</CostExtensionCode>
  <!-- optional -->
  <CostEffectiveDate>DATETIMETYPE</CostEffectiveDate>
  <!-- optional -->
  <PreviousCost>FLOATTYPE</PreviousCost>
  <!-- optional -->
  <PreviousCostExtensionCode>STRTYPE</PreviousCostExtensionCode>
</Cost>
<!-- optional -->
<Pricings>
  <!-- optional may repeat -->
  <Pricing>
    <!-- optional -->
    <PriceCategoryCode>STRTYPE</PriceCategoryCode>
    <!-- optional -->
    <PriceCategoryName>STRTYPE</PriceCategoryName>
    <!-- optional -->
    <Price>FLOATTYPE</Price>
    <!-- optional -->
    <PriceExtensionCode>STRTYPE</PriceExtensionCode>
    <!-- optional -->
    <PriceEffectiveDate>DATETIMETYPE</PriceEffectiveDate>
    <!-- optional -->
    <PreviousPrice>FLOATTYPE</PreviousPrice>
    <!-- optional -->
    <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
  </Pricing>
</Pricings>
<!-- optional -->
<BatchCodes>
  <!-- optional may repeat -->
  <BatchCode>
    <!-- optional -->
    <Code>STRTYPE</Code>
    <!-- optional -->
    <SortLineNumber>INTTYPE</SortLineNumber>
    <!-- optional -->
    <Description>STRTYPE</Description>
     <!-- optional -->
     <ShortDescription>STRTYPE</ShortDescription>
    <!-- optional -->
    <UpdateDate>DATETIMETYPE</UpdateDate>
  </BatchCode>
  <!-- optional -->
```

```xml
            <AutoProducts>
              <!-- optional may repeat -->
              <AutoProduct>
                <!-- optional -->
                <Code>STRTYPE</Code>
                <!-- optional -->
                <Quantity>FLOATTYPE</Quantity>
                <!-- optional -->
                <LoadQuantity>FLOATTYPE</LoadQuantity>
              </AutoProduct>
            </AutoProducts>

          </BatchCodes>

          <!-- optional -->
          <Inventory>
          </Inventory>
        </Location>
      </Locations>
      <!-- optional -->
      <TaxOverrides>
        <TaxOverride>
            <TaxAuthorityID>INTTYPE</TaxAuthorityID>
            <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
            <TaxLocationID>INTTYPE</TaxLocationID>
            <TaxLocationCode>STRTYPE</TaxLocationCode>
            <OverrideTaxable>BOOLTYPE</OverrideTaxable>
            <OverrideTaxRateLocationID>INTTYPE</OverrideTaxRateLocationID>
            <OverrideTaxRateLocationCode>STRTYPE</OverrideTaxRateLocationCode>
        </TaxOverride>
      </TaxOverrides>
      <!-- optional -->
      <SetupDate>DATETIMETYPE</SetupDate>
      <!-- optional -->
      <UpdateDate>DATETIMETYPE</UpdateDate>
    </ItemRet>
  </ItemQueryRs>
</WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetItemQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
```

```
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("ItemQueryRq", "")))));

    return x.ToString();
}

public string GetItemByItemCategoryQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("ItemQueryRq",
                new XElement("CategoryCode", "MIX"))))));

    return x.ToString();
}

public string GetMixItemQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("ItemQueryRq",
                new XElement("ItemType", "Concrete"))))));

    return x.ToString();
}

public string GetConstituentItemQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("ItemQueryRq",
                new XElement("IsConstituent", "True"))))));

    return x.ToString();
}


public string GetItemIncludeMixDesignQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
```

```
            new XDeclaration("1.0", "utf-8", "yes"),
            new XProcessingInstruction("webcretexml", "version=\"1.0\""),
            new XElement("WebcreteXML",
                new XElement("WebcreteXMLMsgsRq",
                    new XElement("ItemQueryRq",
                       new XElement("IncludeRetElement", "MixDesign"))))));

    return x.ToString();
}

public string GetItemIncludePricingQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("ItemQueryRq",
                   new XElement("IncludeRetElement", "Pricing"))))));

    return x.ToString();
}

public string GetItemIncludeBatchingQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("ItemQueryRq",
                   new XElement("IncludeRetElement", "Batching"))))));

    return x.ToString();
}

public string GetItemIncludeCostQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("ItemQueryRq",
                   new XElement("IncludeRetElement", "Cost"))))));

    return x.ToString();
}
```

➢ Update

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--     'requestID' is optional -->
    <ItemUpdateRq  requestID="UUIDTYPE">
      <ItemUpdate>
        <!-- BEGIN OR-->
        <!-- optional -->
        <ID>INTTYPE</ID>
        <!-- OR-->
        <!-- optional -->
        <Code>STRTYPE</Code>
        <!-- Action is optional and may have one of the following values: Add,Edit,Delete -->
        <Action>STRTYPE</Action>
        <!-- optional -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- optional required for new item -->
        <CategoryCode>STRTYPE</CategoryCode>
        <!-- optional -->
        <KeepInInventory>BOOLTYPE</KeepInInventory>
        <!-- optional -->
        <Resaleable>BOOLTYPE</Resaleable>
        <!-- optional -->
        <DoNotAllowTicketing>BOOLTYPE</DoNotAllowTicketing>
        <!-- optional -->
        <IsConstituent>BOOLTYPE</IsConstituent>
        <!-- optional -->
        <AccountLinkCode>STRTYPE</AccountLinkCode>
        <!-- optional -->
        <UOM>
                <!-- optional -->
          <OrderedQuantityUnitCode>STRTYPE</OrderedQuantityUnitCode>
          <!-- optional -->
          <OrderedQuantityUnit>STRTYPE</OrderedQuantityUnit>
          <!-- optional -->
          <OrderedQuantityExtCode>STRTYPE</OrderedQuantityExtCode>
                <!-- optional -->
          <DeliveredQuantityUnitCode>STRTYPE</DeliveredQuantityUnitCode>
          <!-- optional -->
          <DeliveredQuantityUnit>STRTYPE</DeliveredQuantityUnit>
          <!-- optional -->
```

```
<TicketQuantityExtCode>STRTYPE</TicketQuantityExtCode>
        <!-- optional -->
        <PriceQuantityUnitCode>STRTYPE</PriceQuantityUnitCode>
<!-- optional -->
<PriceQuantityUnit>STRTYPE</PriceQuantityUnit>
<!-- optional -->
<PriceQuantityExtCode>STRTYPE</PriceQuantityExtCode>
        <!-- optional -->
<BatchUnitCode>STRTYPE</BatchUnitCode>
<!-- optional -->
<BatchUnit>STRTYPE</BatchUnit>
        <!-- optional -->
<InventoryUnitCode>STRTYPE</InventoryUnitCode>
<!-- optional -->
<InventoryUnit>STRTYPE</InventoryUnit>
        <!-- optional -->
<PurchaseUnitCode>STRTYPE</PurchaseUnitCode>
<!-- optional -->
<PurchaseUnit>STRTYPE</PurchaseUnit>
        <!-- optional -->
<ReportingUnitCode>STRTYPE</ReportingUnitCode>
<!-- optional -->
<ReportingUnit>STRTYPE</ReportingUnit>
<!-- optional -->
<DosageQuantity>INTTYPE</DosageQuantity>
<!-- optional -->
<PerCemWeightDivisor>INTTYPE</PerCemWeightDivisor>
<!-- optional -->
<UseDosageQuantityUOMInMixDesign>
  <!-- required -->
  <Enable>BOOLTYPE</Enable>
  <!-- required -->
  <DosageQuantityExtensionCode>STRTYPE</DosageQuantityExtensionCode>
  <!-- required -->
  <PerCemWeightDivisor>INTTYPE</PerCemWeightDivisor>
  <!-- required -->
  <DosageQuantity>FLOATTYPE</DosageQuantity>
</UseDosageQuantityUOMInMixDesign>
</UOM>
<!-- optional -->
<Sales>
  <!-- optional -->
  <Taxable>BOOLTYPE</Taxable>
  <!-- optional -->
  <TradeDiscountable>BOOLTYPE</TradeDiscountable>
  <!-- optional -->
  <TermDiscountable>BOOLTYPE</TermDiscountable>
  <!-- optional -->
  <UsageCode>STRTYPE</UsageCode>
  <!-- optional -->
```

```xml
      <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
    <!-- optional -->
    <ExpirationDate>DATETIMETYPE</ExpirationDate>
  </Sales>
  <!-- optional -->
  <Mix>
    <!-- optional -->
    <Strength>INTTYPE</Strength>
    <!-- optional -->
    <StrengthUnit>STRTYPE</StrengthUnit>
    <!-- optional -->
    <Slump>FLOATTYPE</Slump>
    <!-- optional -->
    <WaterCementRatio>FLOATTYPE</WaterCementRatio>
    <!-- optional -->
    <AggregateSize>STRTYPE</AggregateSize>
    <!-- optional -->
    <CementType>STRTYPE</CementType>
    <!-- optional -->
    <DaysToStrength>INTTYPE</DaysToStrength>
    <!-- optional -->
    <MaximumWater>FLOATTYPE</MaximumWater>
    <!-- optional -->
    <MinCementContent>FLOATTYPE</MinCementContent>
    <!-- optional -->
    <PercentAirVolume>FLOATTYPE</PercentAirVolume>
    <!-- optional -->
    <WaterHoldback>FLOATTYPE</WaterHoldback>
    <!-- optional -->
    <LightweightCubicFeet>FLOATTYPE</LightweightCubicFeet>
  </Mix>
  <!-- optional -->
  <Locations>
    <!-- optional, may repeat -->
    <Location Active="BOOLTYPE">
      <LocationID>INTTYPE</LocationID>
      <LocationCode>STRTYPE</LocationCode>
      <!-- optional -->
      <Batching>
        <!-- optional -->
        <SpecificGravity>FLOATTYPE</SpecificGravity>
        <!-- optional -->
        <MoisturePercent>FLOATTYPE</MoisturePercent>
        <!-- optional -->
        <BatchUnit>STRTYPE</BatchUnit>
        <!-- optional -->
        <MaximumBatchSize>FLOATTYPE</MaximumBatchSize>
        <!-- optional -->
        <MixerTime>INTTYPE</MixerTime>
        <!-- optional -->
```

```
          <DownloadToBatchSystem>BOOLTYPE</DownloadToBatchSystem>
      </Batching>
      <!-- optional -->
      <MixDesign>
        <!-- optional, may repeat -->
        <Material>
          <MixOrder>INTTYPE</MixOrder>
          <Code>STRTYPE</Code>
          <Description>STRTYPE</Description>
          <Quantity>FLOATTYPE</Quantity>
          <DosageQuantity>FLOATTYPE</DosageQuantity>
          <Unit>STRTYPE</Unit>
        </Material>
      </MixDesign>
      <!-- optional -->
      <Cost>
        <!-- optional -->
        <StandardCost>FLOATTYPE</StandardCost>
        <!-- optional -->
        <CostExtensionCode>STRTYPE</CostExtensionCode>
        <!-- optional -->
        <CostEffectiveDate>DATETIMETYPE</CostEffectiveDate>
        <!-- optional -->
        <PreviousCost>FLOATTYPE</PreviousCost>
        <!-- optional -->
        <PreviousCostExtensionCode>STRTYPE</PreviousCostExtensionCode>
      </Cost>
      <!-- optional Method: PUT|PATCH, default PATCH -->
      <Pricings Method="STRTYPE">
        <!-- optional may repeat Action: UPSERT|DELETE, default UPSERT-->
        <Pricing Action="STRTYPE">
          <!-- optional -->
          <PriceCategoryCode>STRTYPE</PriceCategoryCode>
          <!-- optional -->
          <Price>FLOATTYPE</Price>
          <!-- optional -->
          <PriceExtensionCode>STRTYPE</PriceExtensionCode>
          <!-- optional -->
          <PriceEffectiveDate>DATETIMETYPE</PriceEffectiveDate>
          <!-- optional -->
          <PreviousPrice>FLOATTYPE</PreviousPrice>
          <!-- optional -->
          <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
        </Pricing>
      </Pricings>
      <!-- optional Method: PUT|PATCH, default PATCH -->
      <BatchCodes Method="STRTYPE">
        <!-- optional may repeat Action: UPSERT|DELETE, default UPSERT-->
        <BatchCode Action="STRTYPE">
          <!-- optional -->
```

```xml
            <Code>STRTYPE</Code>
            <!-- optional -->
            <SortLineNumber>INTTYPE</SortLineNumber>
            <!-- optional -->
            <Description>STRTYPE</Description>
            <!-- optional -->
            <ShortDescription>STRTYPE</ShortDescription>
          </BatchCode>
        </BatchCodes>
        <!-- optional Method: PUT|PATCH, default PATCH -->
          <AutoProducts Method="STRTYPE">
            <!-- optional may repeat Action: UPSERT|DELETE, default UPSERT-->
            <AutoProduct Action="STRTYPE">
              <!-- optional -->
              <Code>STRTYPE</Code>
              <!-- optional -->
              <Quantity>FLOATTYPE</Quantity>
              <!-- optional -->
              <LoadQuantity>FLOATTYPE</LoadQuantity>
            </AutoProduct>
          </AutoProducts>
        <!-- optional -->
        <Inventory>
        </Inventory>
      </Location>
    </Locations>
    <!-- optional -->
    <TaxOverrides>
      <TaxOverride>
          <TaxAuthorityID>INTTYPE</TaxAuthorityID>
          <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
          <TaxLocationID>INTTYPE</TaxLocationID>
          <TaxLocationCode>STRTYPE</TaxLocationCode>
          <OverrideTaxable>BOOLTYPE</OverrideTaxable>
          <OverrideTaxRateLocationID>INTTYPE</OverrideTaxRateLocationID>
         <OverrideTaxRateLocationCode>STRTYPE</OverrideTaxRateLocationCode>
        </TaxOverride>
      </TaxOverrides>
    </ItemUpdate>
    <!--optional, may repeat -->
    <IncludeRetElement>STRTYPE</IncludeRetElement>
  </ItemUpdateRq>
 </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
```

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <ItemUpdateRs>
      <!-- optional, may repeat-->
      <ItemRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
        <Action>STRTYPE</Action>
        <!-- required -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- optional -->
        <CategoryCode>STRTYPE</CategoryCode>
        <!-- optional -->
        <KeepInInventory>BOOLTYPE</KeepInInventory>
        <!-- optional -->
        <Resaleable>BOOLTYPE</Resaleable>
        <!-- optional -->
        <DoNotAllowTicketing>BOOLTYPE</DoNotAllowTicketing>
        <!-- optional -->
        <IsConstituent>BOOLTYPE</IsConstituent>
        <!-- optional -->
        <AccountLinkCode>STRTYPE</AccountLinkCode>
        <!-- optional -->
        <UOM>
          <!-- optional -->
          <OrderedQuantityUnit>STRTYPE</OrderedQuantityUnit>
          <!-- optional -->
          <OrderedQuantityExtCode>STRTYPE</OrderedQuantityExtCode>
          <!-- optional -->
          <DeliveredQuantityUnit>STRTYPE</DeliveredQuantityUnit>
          <!-- optional -->
          <TicketQuantityExtCode>STRTYPE</TicketQuantityExtCode>
          <!-- optional -->
          <PriceQuantityUnit>STRTYPE</PriceQuantityUnit>
          <!-- optional -->
          <PriceQuantityExtCode>STRTYPE</PriceQuantityExtCode>
          <!-- optional -->
          <BatchUnit>STRTYPE</BatchUnit>
          <!-- optional -->
          <InventoryUnit>STRTYPE</InventoryUnit>
          <!-- optional -->
          <PurchaseUnit>STRTYPE</PurchaseUnit>
          <!-- optional -->
```

```xml
      <ReportingUnit>STRTYPE</ReportingUnit>
</UOM>
<!-- optional -->
<Sales>
  <!-- optional -->
  <Taxable>BOOLTYPE</Taxable>
  <!-- optional -->
  <TradeDiscountable>BOOLTYPE</TradeDiscountable>
  <!-- optional -->
  <TermDiscountable>BOOLTYPE</TermDiscountable>
  <!-- optional -->
  <UsageCode>STRTYPE</UsageCode>
  <!-- optional -->
  <ExpirationDate>DATETIMETYPE</ExpirationDate>
</Sales>
<!-- optional -->
<Mix>
  <!-- optional -->
  <Strength>INTTYPE</Strength>
  <!-- optional -->
  <StrengthUnit>STRTYPE</StrengthUnit>
  <!-- optional -->
  <Slump>FLOATTYPE</Slump>
  <!-- optional -->
  <WaterCementRatio>FLOATTYPE</WaterCementRatio>
  <!-- optional -->
  <AggregateSize>STRTYPE</AggregateSize>
  <!-- optional -->
  <CementType>STRTYPE</CementType>
  <!-- optional -->
  <DaysToStrength>INTTYPE</DaysToStrength>
  <!-- optional -->
  <MaximumWater>FLOATTYPE</MaximumWater>
  <!-- optional -->
  <MinCementContent>FLOATTYPE</MinCementContent>
  <!-- optional -->
  <PercentAirVolume>FLOATTYPE</PercentAirVolume>
  <!-- optional -->
  <WaterHoldback>FLOATTYPE</WaterHoldback>
  <!-- optional -->
  <LightweightCubicFeet>FLOATTYPE</LightweightCubicFeet>
</Mix>
<!-- optional -->
<Locations>
  <!-- optional, may repeat -->
  <Location>
    <LocationID>INTTYPE</LocationID>
    <LocationCode>STRTYPE</LocationCode>
    <!-- optional -->
    <Batching>
```

```
      <!-- optional -->
      <SpecificGravity>FLOATTYPE</SpecificGravity>
      <!-- optional -->
      <MoisturePercent>FLOATTYPE</MoisturePercent>
      <!-- optional -->
      <BatchUnit>STRTYPE</BatchUnit>
      <!-- optional -->
      <MaximumBatchSize>FLOATTYPE</MaximumBatchSize>
      <!-- optional -->
      <MixerTime>INTTYPE</MixerTime>
      <!-- optional -->
      <DownloadToBatchSystem>BOOLTYPE</DownloadToBatchSystem>
    </Batching>
    <!-- optional -->
    <MixDesign>
      <!-- optional, may repeat -->
      <Material>
        <MixOrder>INTTYPE</MixOrder>
        <Code>STRTYPE</Code>
        <Quantity>FLOATTYPE</Quantity>
        <ByPercent>BOOLTYPE</ByPercent>
        <Unit>STRTYPE</Unit>
      </Material>
    </MixDesign>
    <!-- optional -->
    <Cost>
      <!-- optional -->
      <StandardCost>FLOATTYPE</StandardCost>
      <!-- optional -->
      <CostExtensionCode>STRTYPE</CostExtensionCode>
      <!-- optional -->
      <CostEffectiveDate>DATETIMETYPE</CostEffectiveDate>
      <!-- optional -->
      <PreviousCost>FLOATTYPE</PreviousCost>
      <!-- optional -->
      <PreviousCostExtensionCode>STRTYPE</PreviousCostExtensionCode>
    </Cost>
    <!-- optional -->
    <Pricings>
      <!-- optional , may repeat-->
      <Pricing>
        <!-- optional -->
        <PriceCategoryCode>STRTYPE</PriceCategoryCode>
        <!-- optional -->
        <Price>FLOATTYPE</Price>
        <!-- optional -->
        <PriceExtensionCode>STRTYPE</PriceExtensionCode>
        <!-- optional -->
        <PriceEffectiveDate>DATETIMETYPE</PriceEffectiveDate>
        <!-- optional -->
```

```
                    <PreviousPrice>FLOATTYPE</PreviousPrice>
                    <!-- optional -->
                    <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
                  </Pricing>
                </Pricings>
                <!-- optional -->
                <Inventory>
                </Inventory>
              </Location>
            </Locations>
          </ItemRet>
        </ItemUpdateRs>
      </WebcreteXMLMsgsRs>
    </WebcreteXML>
```

C# example

```csharp
public string GetItemUpdateRequest(string code, string description, string shortDescription,
string categoryCode)
{
    XDocument x = new System.Xml.Linq.XDocument(
     new XDeclaration("1.0", "utf-8", "yes"),
     new XProcessingInstruction("webcretexml", "version=\"1.0\""),
     new XElement("WebcreteXML",
         new XElement("WebcreteXMLMsgsRq",
             new XElement("ItemUpdateRq",
                 new XElement("ItemUpdate",
                     new XElement("Code", code),
                     new XElement("Description", description),
                     new XElement("ShortDescription", shortDescription),
                     new XElement("CategoryCode", categoryCode))))));

    return x.ToString();
}
```

Project

➢ Query

Request

```
<?webcretexml version="1.0"?>
```

```xml
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <ProjectQueryRq>
      <!-- BEGIN OR-->
      <!-- optional, may repeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!-- optional, may repeat-->
      <Code>STRTYPE</Code>
      <!-- OR -->
      <!-- optional, may repeat-->
      <Name>STRTYPE</Name>
      <!-- OR -->
      <!-- optional, may repeat-->
      <CustomerID>STRTYPE</CustomerID>
      <!-- OR -->
      <!-- optional, may repeat-->
      <CustomerCode>STRTYPE</CustomerCode>
      <!-- OR -->
      <!-- optional, may repeat-->
      <CustomerName>STRTYPE</CustomerName>
      <!-- OR →
      <!-- optional -->
      <ListOnly>BOOLTYPE</ListOnly>
      <!-- optional -->
      <FromUpdateDate>DATETIMETYPE</FromUpdateDate>
      <!-- optional -->
      <ToUpdateDate>DATETIMETYPE</ToUpdateDate>
      <!--optional, may repeat, can be SUNDRYCHARGE|CUSTOMER|PRODUCT -->
      <IncludeRetElement>STRTYPE</IncludeRetElement>
      <!-- END OR -->
    </ProjectQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <ProjectQueryRs  statusCode="INTTYPE" statusSeverity="STRTYPE" statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <ProjectRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
```

```xml
<!-- required -->
<Name>STRTYPE</Name>
<!-- required -->
<CustomerID>INTTYPE</CustomerID>
<!-- required -->
<CustomerCode>STRTYPE</CustomerCode>
<!-- required -->
<CustomerName>STRTYPE</CustomerName>
<!-- optional -->
<SetupDate>DATETIMETYPE</SetupDate>
<!-- optional -->
<DeliveryAddress>
  <!-- optional -->
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
  <Addr3>STRTYPE</Addr3>
</DeliveryAddress>
<!-- optional -->
<Instruction>
  <!-- optional -->
  <Instruction1>STRTYPE</Instruction1>
  <!-- optional -->
  <Instruction2>STRTYPE</Instruction2>
  <!-- optional -->
  <Instruction3>STRTYPE</Instruction3>
</Instruction>
<!-- optional -->
<InvoiceAddress>
  <!-- optional -->
  <Name>STRTYPE</Name>
  <!-- optional -->
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
  <City>STRTYPE</City>
  <!-- optional -->
  <State>STRTYPE</State>
  <!-- optional -->
  <PostalCode>STRTYPE</PostalCode>
  <!-- optional -->
  <Country>STRTYPE</Country>
</InvoiceAddress>
<!-- optional -->
<StatementAddress>
  <!-- optional -->
  <Name>STRTYPE</Name>
  <!-- optional -->
```

```xml
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
  <City>STRTYPE</City>
  <!-- optional -->
  <State>STRTYPE</State>
  <!-- optional -->
  <PostalCode>STRTYPE</PostalCode>
  <!-- optional -->
  <Country>STRTYPE</Country>
</StatementAddress>
<!-- optional -->
<Contact>STRTYPE</Contact>
<!-- optional -->
<Phone>STRTYPE</Phone>
<!-- optional -->
<Fax>STRTYPE</Fax>
<!-- optional -->
<Cellular>STRTYPE</Cellular>
<!-- optional -->
<Email>STRTYPE</Email>
<!-- optional -->
<CustomerJob>STRTYPE</CustomerJob>
<!-- optional -->
<PurchaseOrder>STRTYPE</PurchaseOrder>
<!-- optional -->
<ExpirationDate>STRTYPE</ExpirationDate>
<!-- optional -->
<ShippingCustomerCode>STRTYPE</ShippingCustomerCode>
<!-- optional -->
<ReferenceCustomerCode>STRTYPE</ReferenceCustomerCode>
<!-- optional -->
<Sales>
  <!-- optional -->
  <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
  <!-- optional -->
  <SalesmanCode>STRTYPE</SalesmanCode>
  <!-- optional -->
  <SalesmanName>STRTYPE</SalesmanName>
</Sales>
<!-- optional -->
<Taxing>
  <!-- optional -->
  <TaxID>STRTYPE</TaxID>
  <!-- optional -->
  <TaxCode>STRTYPE</TaxCode>
  <!-- optional -->
  <Taxable>BOOLTYPE</Taxable>
  <!-- optional -->
```

```
      <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
      <!-- optional, may repeat -->
      <TaxExcempt>
        <!-- optional -->
        <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
        <!-- optional -->
        <TaxExemptID>STRTYPE</TaxExemptID>
      </TaxExcempt>
    </Taxing>
    <!-- optional -->
    <Pricing>
      <!-- optional -->
      <PriceCategoryCode>STRTYPE</PriceCategoryCode>
      <!-- optional -->
      <PricingPlantCode>STRTYPE</PricingPlantCode>
      <!-- optional -->
      <TradeDiscountPercent>PERCENTTYPE</TradeDiscountPercent>
      <!-- optional -->
      <TradeDiscountAmount>FLOATTYPE</TradeDiscountAmount>
      <!-- optional -->
      <TradeDiscountAmountUnitCode>STRTYPE</TradeDiscountAmountUnitCode>
      <!-- optional -->
      <TermCode>STRTYPE</TermCode>
      <!-- optional -->
      <ZoneCode>STRTYPE</ZoneCode>
      <!-- optional -->
      <ApplyZoneCharges>BOOLTYPE</ApplyZoneCharges>
      <!-- optional -->
      <AllowPriceChangeInOrderEntry>BOOLTYPE</AllowPriceChangeInOrderEntry>
      <!-- optional -->
      <ControlPricePrintInOE>BOOLTYPE</ControlPricePrintInOE>
      <!-- optional -->
      <PrintPricesOnTicket>BOOLTYPE</PrintPricesOnTicket>
      <!-- optional -->
      <RestrictOrderstoProjectProducts>BOOLTYPE</RestrictOrderstoProjectProducts>
      <!-- optional -->
      <AllowAutomaticPriceAjustment>BOOLTYPE</AllowAutomaticPriceAjustment>
      <!-- optional →
      <RestrictOrdersToProjectMixProduct>BOOLTYPE</RestrictOrdersToProjectMixProduct>
    </Pricing>
    <!-- optional -->
    <Charges>
      <!-- optional -->
      <MinimumLoadChargeTableCode>STRTYPE</MinimumLoadChargeTableCode>
      <!-- optional -->
      <SeasonalChargeTableCode>STRTYPE</SeasonalChargeTableCode>
      <!-- optional -->
      <UnloadingChargeTableCode>STRTYPE</UnloadingChargeTableCode>
      <!-- optional -->
      <ApplyMinimumLoadCharge>BOOLTYPE</ApplyMinimumLoadCharge>
```

```
            <!-- optional -->
            <ApplySeasonalCharge>BOOLTYPE</ApplySeasonalCharge>
            <!-- optional -->
            <ApplyUnloadingCharge>BOOLTYPE</ApplyUnloadingCharge>
            <!-- optional -->

<PrintMinimumLoadChargeOnSeperateInvoice>BOOLTYPE</PrintMinimumLoadChargeOnSeperateInvoice>
            <!-- optional -->

<PrintSeasonalChargeOnSeperateInvoice>BOOLTYPE</PrintSeasonalChargeOnSeperateInvoice>
            <!-- optional -->

<PrintUnloadingChargeOnSeperateInvoice>BOOLTYPE</PrintUnloadingChargeOnSeperateInvoice>
            <!-- optional -->

<PrintAutomaticSundryChargeOnSeperateInvoice>BOOLTYPE</PrintAutomaticSundryChargeOnSeperateInvoice>
            <!-- optional -->
            <SundryCharges>
              <!-- optional may repeat -->
              <SundryCharge>
                <!-- optional -->
                <ID>INTTYPE</ID>
                <!-- optional -->
                <SundryChargeID>INTTYPE</SundryChargeID>
                <!-- optional -->
                <SundryChargeCode>STRTYPE</SundryChargeCode>
                <!-- optional -->
                <ApplySundryCharge>BOOLTYPE</ApplySundryCharge>
                <!-- optional -->
                <Price>FLOATTYPE</Price>
                <!-- optional -->
                <PriceUnitID>INTTYPE</PriceUnitID>
                <!-- optional -->
                <PriceUnitCode>STRTYPE</PriceUnitCode>
                <!-- optional -->
                <PriceUnit>STRTYPE</PriceUnit>
                <!-- optional -->
                <PriceExtensionCode>STRTYPE</PriceExtensionCode>
                <!-- optional -->
                <EffectiveDate>DATETIMETYPE</EffectiveDate>
                <!-- optional -->
                <PreviousPrice>FLOATTYPE</PreviousPrice>
                <!-- optional -->
                <PreviousPriceUnitID>INTTYPE</PreviousPriceUnitID>
                <!-- optional -->
                <PreviousPriceUnitCode>INTTYPE</PreviousPriceUnitCode>
                <!-- optional -->
                <PreviousPriceUnit>STRTYPE</PreviousPriceUnit>
                <!-- optional -->
```

```xml
<PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
          <!-- optional -->
          <CreateSeperateInvoice>BOOLTYPE</CreateSeperateInvoice>
        </SundryCharge>
      </SundryCharges>

    </Charges>
    <!-- optional -->
    <Accounting>
      <!-- optional -->
      <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
      <!-- optional -->
      <PrepaymentPercentage>FLOATTYPE</PrepaymentPercentage>
      <!-- optional -->
      <CreditCard>
        <!-- optional -->
        <CardName>STRTYPE</CardName>
        <!-- optional -->
        <CardNumber>STRTYPE</CardNumber>
        <!-- optional -->
        <ResponsibleName>STRTYPE</ResponsibleName>
        <!-- optional -->
        <ExpirationDate>STRTYPE</ExpirationDate>
      </CreditCard>
      <!-- optional -->
      <CreditInformation>
        <!-- optional  -->
        <Credit>
          <!-- required -->
          <CreditCode>STRTYPE</CreditCode>
          <!-- optional -->
          <CreditEffectiveDate>DATETIMETYPE</CreditEffectiveDate>
        </Credit>
      </CreditInformation>
      <!-- optional -->
      <PurchaseOrderRequiredInOrderEntry>BOOLTYPE</PurchaseOrderRequiredInOrderEntry>
      <!-- optional -->
      <CustomerJobRequiredInOrderEntry>BOOLTYPE</CustomerJobRequiredInOrderEntry>
      <!-- optional -->
      <LotBlockRequiredInOrderEntry>BOOLTYPE</LotBlockRequiredInOrderEntry>
      <!-- optional -->
      <LotBlock>STRTYPE</LotBlock>
      <!-- optional -->
      <SuspendOrderReasonCode>BOOLTYPE</SuspendOrderReasonCode>
      <!-- optional -->
      <UsageCodeRequiredInOrderEntry>BOOLTYPE</UsageCodeRequiredInOrderEntry>
    </Accounting>
    <!-- optional -->
    <Distribution>
```

```
      <!-- optional -->
      <TrackingOrderColorCode>STRTYPE</TrackingOrderColorCode>
      <!-- optional -->
      <PrintMixWeightOnTicket>BOOLTYPE</PrintMixWeightOnTicket>
      <!-- optional -->
      <ProjectType>STRTYPE</ProjectType>
      <!-- optional -->
      <Stage>STRTYPE</Stage>
      <!-- optional -->
      <MapPage>STRTYPE</MapPage>
      <!-- optional -->
      <EstimatedTravelTime>FLOATTYPE</EstimatedTravelTime>
      <!-- optional -->
      <TruckPollType>STRTYPE</TruckPollType>
      <!-- optional -->
      <UpdateProjectMapCoordinates>BOOLTYPE</UpdateProjectMapCoordinates>
      <!-- optional -->
      <UpdateOrderMapCoordinates>BOOLTYPE</UpdateOrderMapCoordinates>
      <!-- optional -->
      <DefaultOrderType>STRTYPE</DefaultOrderType>
      <!-- optional -->
      <SchedulePlantCode>STRTYPE</SchedulePlantCode>
      <!-- optional 1 Do Not Poll 2 Poll First Truck 3 Poll Every Truck-->
      <TruckTypeCode>STRTYPE</TruckTypeCode>
      <!-- optional -->
      <DeliveryMethod>STRTYPE</DeliveryMethod>
    </Distribution>
    <!-- optional -->
    <Products>
      <!-- optional may repeat -->
      <MixProduct>
        <!-- required -->
        <PlantID>STRTYPE</PlantID>
        <!-- required -->
        <PlantCode>STRTYPE</PlantCode>
        <!-- required -->
        <ItemID>INTTYPE</ItemID>
        <!-- required -->
        <ItemCode>STRTYPE</ItemCode>
        <!-- required -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- required -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <BatchCode>STRTYPE</BatchCode>
        <!-- optional -->
        <Slump>FLOATTYPE</Slump>
        <!-- optional -->
        <UsageCode>STRTYPE</UsageCode>
        <!-- optional -->
```

```
<AllowAuto>BOOLTYPE</AllowAuto>
<!-- optional -->
<Pricing>
  <!-- optional -->
  <EstimatedQuantity>FLOATTYPE</EstimatedQuantity>
  <!-- optional -->
  <EstimatedQuantityUnitID>INTTYPE</EstimatedQuantityUnitID>
  <!-- optional -->
  <EstimatedQuantityUnitCode>INTTYPE</EstimatedQuantityUnitCode>
  <!-- optional -->
  <EstimatedQuantityUnit>INTTYPE</EstimatedQuantityUnit>
  <!-- optional -->
  <Price>FLOATTYPE</Price>
  <!-- optional -->
  <PriceUnitID>INTTYPE</PriceUnitID>
  <!-- optional -->
  <PriceUnitCode>STRTYPE</PriceUnitCode>
  <!-- optional -->
  <PriceUnit>STRTYPE</PriceUnit>
  <!-- optional -->
  <PriceExtensionCode>STRTYPE</PriceExtensionCode>
  <!-- optional -->
  <EffectiveDate>DATETIMETYPE</EffectiveDate>
  <!-- optional -->
  <PreviousPrice>FLOATTYPE</PreviousPrice>
  <!-- optional -->
  <PreviousPriceUnitID>INTTYPE</PreviousPriceUnitID>
  <!-- optional -->
  <PreviousPriceUnitCode>INTTYPE</PreviousPriceUnitCode>
  <!-- optional -->
  <PreviousPriceUnit>STRTYPE</PreviousPriceUnit>
  <!-- optional -->
  <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
  <!-- optional -->
  <CreateSeperatedInvoice>BOOLTYPE</CreateSeperatedInvoice>
</Pricing>
<!-- optional may repeat -->
<AssocProduct>
  <!-- required -->
  <PlantID>STRTYPE</PlantID>
  <!-- required -->
  <PlantCode>STRTYPE</PlantCode>
  <!-- required -->
  <ItemID>INTTYPE</ItemID>
  <!-- required -->
  <ItemCode>STRTYPE</ItemCode>
  <!-- required -->
  <ShortDescription>STRTYPE</ShortDescription>
  <!-- required -->
  <Description>STRTYPE</Description>
```

```
    <!-- optional →
    <Pricing>
      <!-- optional -->
      <EstimatedQuantity>FLOATTYPE</EstimatedQuantity>
      <!-- optional -->
      <EstimatedQuantityUnitID>INTTYPE</EstimatedQuantityUnitID>
      <!-- optional -->
      <EstimatedQuantityUnitCode>INTTYPE</EstimatedQuantityUnitCode>
      <!-- optional -->
      <EstimatedQuantityUnit>INTTYPE</EstimatedQuantityUnit>
      <!-- optional -->
      <Price>FLOATTYPE</Price>
      <!-- optional -->
      <PriceUnitID>INTTYPE</PriceUnitID>
      <!-- optional -->
      <PriceUnitCode>STRTYPE</PriceUnitCode>
      <!-- optional -->
      <PriceUnit>STRTYPE</PriceUnit>
      <!-- optional -->
      <PriceExtensionCode>STRTYPE</PriceExtensionCode>
      <!-- optional -->
      <EffectiveDate>DATETIMETYPE</EffectiveDate>
      <!-- optional -->
      <PreviousPrice>FLOATTYPE</PreviousPrice>
      <!-- optional -->
      <PreviousPriceUnitID>INTTYPE</PreviousPriceUnitID>
      <!-- optional -->
      <PreviousPriceUnitCode>INTTYPE</PreviousPriceUnitCode>
      <!-- optional -->
      <PreviousPriceUnit>STRTYPE</PreviousPriceUnit>
      <!-- optional -->
      <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
      <!-- optional -->
      <CreateSeperatedInvoice>BOOLTYPE</CreateSeperatedInvoice>
    </Pricing>
  </AssocProduct>
</MixProduct>
<!-- optional may repeat →
<ExtraProduct>
  <!-- required -->
  <PlantID>STRTYPE</PlantID>
  <!-- required -->
  <PlantCode>STRTYPE</PlantCode>
  <!-- required -->
  <ItemID>INTTYPE</ItemID>
  <!-- required -->
  <ItemCode>STRTYPE</ItemCode>
  <!-- required -->
  <ShortDescription>STRTYPE</ShortDescription>
  <!-- required -->
```

```xml
      <Description>STRTYPE</Description>
      <!-- optional →
      <Pricing>
        <!-- optional -->
        <EstimatedQuantity>FLOATTYPE</EstimatedQuantity>
        <!-- optional -->
        <EstimatedQuantityUnitID>INTTYPE</EstimatedQuantityUnitID>
        <!-- optional -->
        <EstimatedQuantityUnitCode>INTTYPE</EstimatedQuantityUnitCode>
        <!-- optional -->
        <EstimatedQuantityUnit>INTTYPE</EstimatedQuantityUnit>
        <!-- optional -->
        <Price>FLOATTYPE</Price>
        <!-- optional -->
        <PriceUnitID>INTTYPE</PriceUnitID>
        <!-- optional -->
        <PriceUnitCode>STRTYPE</PriceUnitCode>
        <!-- optional -->
        <PriceUnit>STRTYPE</PriceUnit>
        <!-- optional -->
        <PriceExtensionCode>STRTYPE</PriceExtensionCode>
        <!-- optional -->
        <EffectiveDate>DATETIMETYPE</EffectiveDate>
        <!-- optional -->
        <PreviousPrice>FLOATTYPE</PreviousPrice>
        <!-- optional -->
        <PreviousPriceUnitID>INTTYPE</PreviousPriceUnitID>
        <!-- optional -->
        <PreviousPriceUnitCode>INTTYPE</PreviousPriceUnitCode>
        <!-- optional -->
        <PreviousPriceUnit>STRTYPE</PreviousPriceUnit>
        <!-- optional -->
        <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
        <!-- optional -->
        <CreateSeperatedInvoice>BOOLTYPE</CreateSeperatedInvoice>
      </Pricing>
    </ExtraProduct>
</Products>
<!-- optional -->
<EnablePriceEscalation>BOOLTYPE</EnablePriceEscalation>
<!-- optional -->
<PriceEscalationAmount>FLOATTYPE</PriceEscalationAmount>
<!-- optional -->
<PriceEscalationDate>DATETIMETYPE</PriceEscalationDate>
<!-- optional -->
<Latitude>FLOATTYPE</Latitude>
<!-- optional -->
<Longitude>FLOATTYPE</Longitude>
<!-- optional -->
<JobsiteRadius>INTTYPE</JobsiteRadius>
```

```xml
      <!-- optional -->
      <UpdateDate>DATETIMETYPE</UpdateDate>
    </ProjectRet>
  </ProjectQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetProjectQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("ProjectQueryRq", ""))));

    return x.ToString();
}
```

➤ Update

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <ProjectUpdateRq>
      <ProjectUpdate>
        <!-- BEGIN OR-->
        <!-- optional-->
        <ID>INTTYPE</ID>
        <!-- OR -->
        <!-- optional-->
        <Code>STRTYPE</Code>
        <!-- OR -->
        <!-- optional-->
        <Name>STRTYPE</Name>
        <!-- END OR -->
        <!-- BEGIN OR-->
        <!-- optional-->
        <CustomerID>INTTYPE</CustomerID>
        <!-- OR -->
```

```xml
      <!-- optional-->
      <CustomerCode>STRTYPE</CustomerCode>
      <!-- OR -->
      <!-- optional-->
      <CustomerName>STRTYPE</CustomerName>
      <!-- END OR -->
      <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
      <Action>STRTYPE</Action>
      <!-- optional -->
      <SetupDate>DATETIMETYPE</SetupDate>
      <!-- optional -->
      <DeliveryAddress>
        <!-- optional -->
        <Addr1>STRTYPE</Addr1>
        <!-- optional -->
        <Addr2>STRTYPE</Addr2>
        <!-- optional -->
        <Addr3>STRTYPE</Addr3>
      </DeliveryAddress>
      <!-- optional -->
      <Instruction>
        <!-- optional -->
        <Instruction1>STRTYPE</Instruction1>
        <!-- optional -->
        <Instruction2>STRTYPE</Instruction2>
        <!-- optional -->
        <Instruction3>STRTYPE</Instruction3>
      </Instruction>
      <!-- optional -->
      <InvoiceAddress>
        <!-- optional -->
        <Name>STRTYPE</Name>
        <!-- optional -->
        <Addr1>STRTYPE</Addr1>
        <!-- optional -->
        <Addr2>STRTYPE</Addr2>
        <!-- optional -->
        <City>STRTYPE</City>
        <!-- optional -->
        <State>STRTYPE</State>
        <!-- optional -->
        <PostalCode>STRTYPE</PostalCode>
        <!-- optional -->
        <Country>STRTYPE</Country>
      </InvoiceAddress>
      <!-- optional -->
      <StatementAddress>
        <!-- optional -->
        <Name>STRTYPE</Name>
```

```
      <!-- optional -->
      <Addr1>STRTYPE</Addr1>
      <!-- optional -->
      <Addr2>STRTYPE</Addr2>
      <!-- optional -->
      <City>STRTYPE</City>
      <!-- optional -->
      <State>STRTYPE</State>
      <!-- optional -->
      <PostalCode>STRTYPE</PostalCode>
      <!-- optional -->
      <Country>STRTYPE</Country>
    </StatementAddress>
    <!-- optional -->
    <Contact>STRTYPE</Contact>
    <!-- optional -->
    <Phone>STRTYPE</Phone>
    <!-- optional -->
    <Fax>STRTYPE</Fax>
    <!-- optional -->
    <Cellular>STRTYPE</Cellular>
    <!-- optional -->
    <Email>STRTYPE</Email>
    <!-- optional -->
    <CustomerJob>STRTYPE</CustomerJob>
    <!-- optional -->
    <PurchaseOrder>STRTYPE</PurchaseOrder>
    <!-- optional -->
    <ExpirationDate>STRTYPE</ExpirationDate>
    <!-- optional -->
    <ShippingCustomerCode>STRTYPE</ShippingCustomerCode>
    <!-- optional -->
    <ReferenceCustomerCode>STRTYPE</ReferenceCustomerCode>
    <!-- optional -->
    <Sales>
      <!-- optional -->
      <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
      <!-- optional -->
      <SalesmanCode>STRTYPE</SalesmanCode>
      <!-- optional -->
      <SalesmanName>STRTYPE</SalesmanName>
    </Sales>
    <!-- optional -->
    <Taxing>
      <!-- optional -->
      <TaxID>STRTYPE</TaxID>
      <!-- optional -->
      <TaxCode>STRTYPE</TaxCode>
      <!-- optional -->
      <Taxable>BOOLTYPE</Taxable>
```

```xml
    <!-- optional -->
    <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
    <!-- optional, may repeat -->
    <TaxExcempt>
      <!-- optional -->
      <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
      <!-- optional -->
      <TaxExemptID>STRTYPE</TaxExemptID>
    </TaxExcempt>
  </Taxing>
  <!-- optional -->
  <Pricing>
    <!-- optional -->
    <PriceCategoryCode>STRTYPE</PriceCategoryCode>
    <!-- optional -->
    <PricingPlantCode>STRTYPE</PricingPlantCode>
    <!-- optional -->
    <TradeDiscountPercent>PERCENTTYPE</TradeDiscountPercent>
    <!-- optional -->
    <TradeDiscountAmount>FLOATTYPE</TradeDiscountAmount>
    <!-- optional -->
    <TradeDiscountAmountUnitCode>STRTYPE</TradeDiscountAmountUnitCode>
    <!-- optional -->
    <TermCode>STRTYPE</TermCode>
    <!-- optional -->
    <ZoneCode>STRTYPE</ZoneCode>
    <!-- optional -->
    <ApplyZoneCharges>BOOLTYPE</ApplyZoneCharges>
    <!-- optional -->
    <AllowPriceChangeInOrderEntry>BOOLTYPE</AllowPriceChangeInOrderEntry>
    <!-- optional -->
    <ControlPricePrintInOE>BOOLTYPE</ControlPricePrintInOE>
    <!-- optional -->
    <PrintPricesOnTicket>BOOLTYPE</PrintPricesOnTicket>
    <!-- optional -->
    <RestrictOrderstoCustomerProducts>BOOLTYPE</RestrictOrderstoCustomerProducts>
    <!-- optional -->
    <AllowAutomaticPriceAjustment>BOOLTYPE</AllowAutomaticPriceAjustment>
  </Pricing>
  <!-- optional -->
  <Charges>
    <!-- optional -->
    <MinimumLoadChargeTableCode>STRTYPE</MinimumLoadChargeTableCode>
    <!-- optional -->
    <SeasonalChargeTableCode>STRTYPE</SeasonalChargeTableCode>
    <!-- optional -->
    <UnloadingChargeTableCode>STRTYPE</UnloadingChargeTableCode>
    <!-- optional -->
    <ApplyMinimumLoadCharge>BOOLTYPE</ApplyMinimumLoadCharge>
    <!-- optional -->
```

```
            <ApplySeasonalCharge>BOOLTYPE</ApplySeasonalCharge>
            <!-- optional -->
            <ApplyUnloadingCharge>BOOLTYPE</ApplyUnloadingCharge>
            <!-- optional -->

<PrintMinimumLoadChargeOnSeperateInvoice>BOOLTYPE</PrintMinimumLoadChargeOnSeperateInvoice>
            <!-- optional -->

<PrintSeasonalChargeOnSeperateInvoice>BOOLTYPE</PrintSeasonalChargeOnSeperateInvoice>
            <!-- optional -->

<PrintUnloadingChargeOnSeperateInvoice>BOOLTYPE</PrintUnloadingChargeOnSeperateInvoice>
            <!-- optional -->

<PrintAutomaticSundryChargeOnSeperateInvoice>BOOLTYPE</PrintAutomaticSundryChargeOnSeperateInv
oice>
            <!-- optional Method: PUT|PATCH, default PATCH -->
            <SundryCharges Method="STRTYPE">
              <!-- optional may repeat Action: UPSERT|DELETE-->
              <SundryCharge  Action="STRTYPE">
                <!-- required BEGIN OR-->
                <!-- optional -->
                <SundryChargeID>INTTYPE</SundryChargeID>
                <!-- optional -->
                <SundryChargeCode>STRTYPE</SundryChargeCode>
                <!-- END OR -->
                <!-- required -->
                <ApplySundryCharge>BOOLTYPE</ApplySundryCharge>
                <!-- optional -->
                <Price>FLOATTYPE</Price>
                <!-- optional BEGIN OR-->
                <!-- optional -->
                <PriceUnitID>INTTYPE</PriceUnitID>
                <!-- optional -->
                <PriceUnitCode>STRTYPE</PriceUnitCode>
                <!-- optional -->
                <PriceUnit>STRTYPE</PriceUnit>
                <!-- END OR -->
                <!-- optional -->
                <PriceExtensionCode>STRTYPE</PriceExtensionCode>
                <!-- optional -->
                <EffectiveDate>DATETIMETYPE</EffectiveDate>
                <!-- optional -->
                <PreviousPrice>FLOATTYPE</PreviousPrice>
                <!-- optional BEGIN OR-->
                <PreviousPriceUnitID>INTTYPE</PreviousPriceUnitID>
                <!-- optional -->
                <PreviousPriceUnitCode>INTTYPE</PreviousPriceUnitCode>
                <!-- optional -->
                <PreviousPriceUnit>STRTYPE</PreviousPriceUnit>
```

```
        <!-- END OR -->
        <!-- optional -->
        <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
        <!-- optional -->
        <CreateSeperateInvoice>BOOLTYPE</CreateSeperateInvoice>
      </SundryCharge>
    </SundryCharges>
  </Charges>
  <!-- optional -->
  <Accounting>
    <!-- optional -->
    <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
    <!-- optional -->
    <PrepaymentPercentage>FLOATTYPE</PrepaymentPercentage>
    <!-- optional -->
    <CreditCard>
      <!-- optional -->
      <CardName>STRTYPE</CardName>
      <!-- optional -->
      <CardNumber>STRTYPE</CardNumber>
      <!-- optional -->
      <ResponsibleName>STRTYPE</ResponsibleName>
      <!-- optional -->
      <ExpirationDate>STRTYPE</ExpirationDate>
    </CreditCard>
    <!-- optional -->
    <CreditInformation>
      <!-- optional  -->
      <Credit>
        <!-- required -->
        <CreditCode>STRTYPE</CreditCode>
        <!-- optional -->
        <CreditEffectiveDate>DATETIMETYPE</CreditEffectiveDate>
      </Credit>
    </CreditInformation>
    <!-- optional -->
    <PurchaseOrderRequiredInOrderEntry>BOOLTYPE</PurchaseOrderRequiredInOrderEntry>
    <!-- optional -->
    <CustomerJobRequiredInOrderEntry>BOOLTYPE</CustomerJobRequiredInOrderEntry>
    <!-- optional -->
    <LotBlockRequiredInOrderEntry>BOOLTYPE</LotBlockRequiredInOrderEntry>
    <!-- optional -->
    <LotBlock>STRTYPE</LotBlock>
    <!-- optional -->
    <SuspendOrderReasonCode>BOOLTYPE</SuspendOrderReasonCode>
    <!-- optional -->
    <UsageCodeRequiredInOrderEntry>BOOLTYPE</UsageCodeRequiredInOrderEntry>
  </Accounting>
  <!-- optional -->
  <Distribution>
```

```
      <!-- optional -->
      <TrackingOrderColorCode>STRTYPE</TrackingOrderColorCode>
      <!-- optional -->
      <PrintMixWeightOnTicket>BOOLTYPE</PrintMixWeightOnTicket>
      <!-- optional -->
      <ProjectType>STRTYPE</ProjectType>
      <!-- optional -->
      <Stage>STRTYPE</Stage>
      <!-- optional -->
      <MapPage>STRTYPE</MapPage>
      <!-- optional -->
      <EstimatedTravelTime>FLOATTYPE</EstimatedTravelTime>
      <!-- optional 1 Do Not Poll 2 Poll First Truck 3 Poll Every Truck-->
      <TruckPollType>STRTYPE</TruckPollType>
      <!-- optional -->
      <UpdateProjectMapCoordinates>BOOLTYPE</UpdateProjectMapCoordinates>
      <!-- optional -->
      <UpdateOrderMapCoordinates>BOOLTYPE</UpdateOrderMapCoordinates>
      <!-- optional -->
      <DefaultOrderType>STRTYPE</DefaultOrderType>
      <!-- optional -->
      <SchedulePlantCode>STRTYPE</SchedulePlantCode>
      <!-- optional -->
      <TruckTypeCode>STRTYPE</TruckTypeCode>
      <!-- optional -->
      <DeliveryMethod>STRTYPE</DeliveryMethod>
    </Distribution>
    <!-- optional Method: PUT|PATCH, default PATCH -->
    <Products Method="STRTYPE">
      <!-- optional may repeat Action: UPSERT|DELETE-->
      <MixProduct Action="STRTYPE">
        <!-- optional BEGIN OR-->
        <PlantID>INTTYPE</PlantID>
        <!-- optional-->
        <PlantCode>STRTYPE</PlantCode>
        <!-- END OR -->
        <!-- required BEGIN OR-->
        <!-- optional -->
        <ItemID>INTTYPE</ItemID>
        <!-- optional -->
        <ItemCode>STRTYPE</ItemCode>
        <!-- END OR -->
        <!-- required -->
        <ShortDescription>STRTYPE</ShortDescription>
        <!-- required -->
        <Description>STRTYPE</Description>
        <!-- optional -->
        <BatchCode>STRTYPE</BatchCode>
        <!-- optional -->
        <Slump>FLOATTYPE</Slump>
```

```xml
<!-- optional -->
<UsageCode>STRTYPE</UsageCode>
<!-- optional -->
<AllowAuto>BOOLTYPE</AllowAuto>
<!-- optional -->
<Pricing>
  <!-- optional -->
  <EstimatedQuantity>FLOATTYPE</EstimatedQuantity>
  <!-- optional BEGIN OR-->
  <!-- optional -->
  <EstimatedQuantityUnitID>INTTYPE</EstimatedQuantityUnitID>
  <!-- optional -->
  <EstimatedQuantityUnitCode>INTTYPE</EstimatedQuantityUnitCode>
  <!-- optional -->
  <EstimatedQuantityUnit>INTTYPE</EstimatedQuantityUnit>
  <!-- END OR -->
  <!-- optional -->
  <Price>FLOATTYPE</Price>
  <!-- optional BEGIN OR-->
  <!-- optional -->
  <PriceUnitID>INTTYPE</PriceUnitID>
  <!-- optional -->
  <PriceUnitCode>STRTYPE</PriceUnitCode>
  <!-- optional -->
  <PriceUnit>STRTYPE</PriceUnit>
  <!-- END OR -->
  <!-- optional -->
  <PriceExtensionCode>STRTYPE</PriceExtensionCode>
  <!-- optional -->
  <EffectiveDate>DATETIMETYPE</EffectiveDate>
  <!-- optional -->
  <PreviousPrice>FLOATTYPE</PreviousPrice>
  <!-- optional BEGIN OR-->
  <!-- optional -->
  <PreviousPriceUnitID>INTTYPE</PreviousPriceUnitID>
  <!-- optional -->
  <PreviousPriceUnitCode>INTTYPE</PreviousPriceUnitCode>
  <!-- optional -->
  <PreviousPriceUnit>STRTYPE</PreviousPriceUnit>
  <!-- END OR -->
  <!-- optional -->
  <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
  <!-- optional -->
  <CreateSeperatedInvoice>BOOLTYPE</CreateSeperatedInvoice>
</Pricing>
<!-- optional may repeat -->
<AssocProduct>
  <!-- optional BEGIN OR-->
  <PlantID>INTTYPE</PlantID>
  <!-- optional-->
```

```
<PlantCode>STRTYPE</PlantCode>
<!-- END OR -->
<!-- required BEGIN OR-->
<!-- optional -->
<ItemID>INTTYPE</ItemID>
<!-- optional -->
<ItemCode>STRTYPE</ItemCode>
<!-- END OR -->
<!-- required -->
<ShortDescription>STRTYPE</ShortDescription>
<!-- required -->
<Description>STRTYPE</Description>
<!-- optional -->
<Pricing>
  <!-- optional -->
  <EstimatedQuantity>FLOATTYPE</EstimatedQuantity>
  <!-- optional BEGIN OR-->
  <!-- optional -->
  <EstimatedQuantityUnitID>INTTYPE</EstimatedQuantityUnitID>
  <!-- optional -->
  <EstimatedQuantityUnitCode>INTTYPE</EstimatedQuantityUnitCode>
  <!-- optional -->
  <EstimatedQuantityUnit>INTTYPE</EstimatedQuantityUnit>
  <!-- END OR -->
  <!-- optional -->
  <Price>FLOATTYPE</Price>
  <!-- optional BEGIN OR-->
  <!-- optional -->
  <PriceUnitID>INTTYPE</PriceUnitID>
  <!-- optional -->
  <PriceUnitCode>STRTYPE</PriceUnitCode>
  <!-- optional -->
  <PriceUnit>STRTYPE</PriceUnit>
  <!-- END OR -->
  <!-- optional -->
  <PriceExtensionCode>STRTYPE</PriceExtensionCode>
  <!-- optional -->
  <EffectiveDate>DATETIMETYPE</EffectiveDate>
  <!-- optional -->
  <PreviousPrice>FLOATTYPE</PreviousPrice>
  <!-- optional BEGIN OR-->
  <!-- optional -->
  <PreviousPriceUnitID>INTTYPE</PreviousPriceUnitID>
  <!-- optional -->
  <PreviousPriceUnitCode>INTTYPE</PreviousPriceUnitCode>
  <!-- optional -->
  <PreviousPriceUnit>STRTYPE</PreviousPriceUnit>
  <!-- END OR -->
  <!-- optional -->
  <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
```

```
        <!-- optional -->
        <CreateSeperatedInvoice>BOOLTYPE</CreateSeperatedInvoice>
      </Pricing>
    </AssocProduct>
</MixProduct>
<!-- optional may repeat -->
<ExtraProduct>
  <!-- optional BEGIN OR-->
  <PlantID>INTTYPE</PlantID>
  <!-- optional-->
  <PlantCode>STRTYPE</PlantCode>
  <!-- END OR -->
  <!-- required BEGIN OR-->
  <!-- optional -->
  <ItemID>INTTYPE</ItemID>
  <!-- optional -->
  <ItemCode>STRTYPE</ItemCode>
  <!-- END OR -->
  <!-- required -->
  <ShortDescription>STRTYPE</ShortDescription>
  <!-- required -->
  <Description>STRTYPE</Description>
  <!-- optional -->
  <Pricing>
    <!-- optional -->
    <EstimatedQuantity>FLOATTYPE</EstimatedQuantity>
    <!-- optional BEGIN OR-->
    <!-- optional -->
    <EstimatedQuantityUnitID>INTTYPE</EstimatedQuantityUnitID>
    <!-- optional -->
    <EstimatedQuantityUnitCode>INTTYPE</EstimatedQuantityUnitCode>
    <!-- optional -->
    <EstimatedQuantityUnit>INTTYPE</EstimatedQuantityUnit>
    <!-- END OR -->
    <!-- optional -->
    <Price>FLOATTYPE</Price>
    <!-- optional BEGIN OR-->
    <!-- optional -->
    <PriceUnitID>INTTYPE</PriceUnitID>
    <!-- optional -->
    <PriceUnitCode>STRTYPE</PriceUnitCode>
    <!-- optional -->
    <PriceUnit>STRTYPE</PriceUnit>
    <!-- END OR -->
    <!-- optional -->
    <PriceExtensionCode>STRTYPE</PriceExtensionCode>
    <!-- optional -->
    <EffectiveDate>DATETIMETYPE</EffectiveDate>
    <!-- optional -->
    <PreviousPrice>FLOATTYPE</PreviousPrice>
```

```xml
            <!-- optional BEGIN OR-->
            <!-- optional -->
            <PreviousPriceUnitID>INTTYPE</PreviousPriceUnitID>
            <!-- optional -->
            <PreviousPriceUnitCode>INTTYPE</PreviousPriceUnitCode>
            <!-- optional -->
            <PreviousPriceUnit>STRTYPE</PreviousPriceUnit>
            <!-- END OR -->
            <!-- optional -->
            <PreviousPriceExtensionCode>STRTYPE</PreviousPriceExtensionCode>
            <!-- optional -->
            <CreateSeperatedInvoice>BOOLTYPE</CreateSeperatedInvoice>
          </Pricing>
        </ExtraProduct>
      </Products>

    </ProjectUpdate>
    <!--optional, may repeat -->
    <IncludeRetElement>STRTYPE</IncludeRetElement>
  </ProjectUpdateRq>
 </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <ProjectUpdateRs statusCode="INTTYPE" statusSeverity="STRTYPE" statusMessage="STRTYPE">
      <ProjectRet>
        <!-- BEGIN OR-->
        <!-- optional-->
        <ID>INTTYPE</ID>
        <!-- OR -->
        <!-- optional-->
        <Code>STRTYPE</Code>
        <!-- OR -->
        <!-- optional-->
        <Name>STRTYPE</Name>
        <!-- END OR -->
        <!-- BEGIN OR-->
        <!-- optional-->
        <CustomerID>INTTYPE</CustomerID>
        <!-- OR -->
        <!-- optional-->
        <CustomerCode>STRTYPE</CustomerCode>
        <!-- OR -->
```

```
            <!-- optional-->
            <CustomerName>STRTYPE</CustomerName>
            <!-- END OR -->
            <!-- Action is optional and may have one of the following values:
add,edit,update,delete -->
            <Action>STRTYPE</Action>
            <!-- optional -->
            <SetupDate>DATETIMETYPE</SetupDate>
            <!-- optional -->
            <DeliveryAddress>
              <!-- optional -->
              <Addr1>STRTYPE</Addr1>
              <!-- optional -->
              <Addr2>STRTYPE</Addr2>
              <!-- optional -->
              <Addr3>STRTYPE</Addr3>
            </DeliveryAddress>
            <!-- optional -->
            <Instruction>
              <!-- optional -->
              <Instruction1>STRTYPE</Instruction1>
              <!-- optional -->
              <Instruction2>STRTYPE</Instruction2>
              <!-- optional -->
              <Instruction3>STRTYPE</Instruction3>
            </Instruction>
            <!-- optional -->
            <InvoiceAddress>
              <!-- optional -->
              <Name>STRTYPE</Name>
              <!-- optional -->
              <Addr1>STRTYPE</Addr1>
              <!-- optional -->
              <Addr2>STRTYPE</Addr2>
              <!-- optional -->
              <City>STRTYPE</City>
              <!-- optional -->
              <State>STRTYPE</State>
              <!-- optional -->
              <PostalCode>STRTYPE</PostalCode>
              <!-- optional -->
              <Country>STRTYPE</Country>
            </InvoiceAddress>
            <!-- optional -->
            <StatementAddress>
              <!-- optional -->
              <Name>STRTYPE</Name>
              <!-- optional -->
              <Addr1>STRTYPE</Addr1>
              <!-- optional -->
```

```
    <Addr2>STRTYPE</Addr2>
    <!-- optional -->
    <City>STRTYPE</City>
    <!-- optional -->
    <State>STRTYPE</State>
    <!-- optional -->
    <PostalCode>STRTYPE</PostalCode>
    <!-- optional -->
    <Country>STRTYPE</Country>
  </StatementAddress>
  <!-- optional -->
  <Contact>STRTYPE</Contact>
  <!-- optional -->
  <Phone>STRTYPE</Phone>
  <!-- optional -->
  <Fax>STRTYPE</Fax>
  <!-- optional -->
  <Cellular>STRTYPE</Cellular>
  <!-- optional -->
  <Email>STRTYPE</Email>
  <!-- optional -->
  <CustomerJob>STRTYPE</CustomerJob>
  <!-- optional -->
  <PurchaseOrder>STRTYPE</PurchaseOrder>
  <!-- optional -->
  <ExpirationDate>STRTYPE</ExpirationDate>
  <!-- optional -->
  <ShippingCustomerCode>STRTYPE</ShippingCustomerCode>
  <!-- optional -->
  <ReferenceCustomerCode>STRTYPE</ReferenceCustomerCode>
  <!-- optional -->
  <Sales>
    <!-- optional -->
    <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
    <!-- optional -->
    <SalesmanCode>STRTYPE</SalesmanCode>
    <!-- optional -->
    <SalesmanName>STRTYPE</SalesmanName>
  </Sales>
  <!-- optional -->
  <Taxing>
    <!-- optional -->
    <TaxID>STRTYPE</TaxID>
    <!-- optional -->
    <TaxCode>STRTYPE</TaxCode>
    <!-- optional -->
    <Taxable>BOOLTYPE</Taxable>
    <!-- optional -->
    <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
    <!-- optional, may repeat -->
```

```
      <TaxExcempt>
        <!-- optional -->
        <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
        <!-- optional -->
        <TaxExemptID>STRTYPE</TaxExemptID>
      </TaxExcempt>
  </Taxing>
  <!-- optional -->
  <Pricing>
    <!-- optional -->
    <PriceCategoryCode>STRTYPE</PriceCategoryCode>
    <!-- optional -->
    <PricingPlantCode>STRTYPE</PricingPlantCode>
    <!-- optional -->
    <TradeDiscountPercent>PERCENTTYPE</TradeDiscountPercent>
    <!-- optional -->
    <TradeDiscountAmount>FLOATTYPE</TradeDiscountAmount>
    <!-- optional -->
    <TradeDiscountAmountUnitCode>STRTYPE</TradeDiscountAmountUnitCode>
    <!-- optional -->
    <TermCode>STRTYPE</TermCode>
    <!-- optional -->
    <ZoneCode>STRTYPE</ZoneCode>
    <!-- optional -->
    <ApplyZoneCharges>BOOLTYPE</ApplyZoneCharges>
    <!-- optional -->
    <AllowPriceChangeInOrderEntry>BOOLTYPE</AllowPriceChangeInOrderEntry>
    <!-- optional -->
    <PrintPricesOnTicket>BOOLTYPE</PrintPricesOnTicket>
    <!-- optional -->
    <RestrictOrderstoCustomerProducts>BOOLTYPE</RestrictOrderstoCustomerProducts>
    <!-- optional -->
    <AllowAutomaticPriceAjustment>BOOLTYPE</AllowAutomaticPriceAjustment>
  </Pricing>
  <!-- optional -->
  <Charges>
    <!-- optional -->
    <MinimumLoadChargeTableCode>STRTYPE</MinimumLoadChargeTableCode>
    <!-- optional -->
    <SeasonalChargeTableCode>STRTYPE</SeasonalChargeTableCode>
    <!-- optional -->
    <UnloadingChargeTableCode>STRTYPE</UnloadingChargeTableCode>
    <!-- optional -->
    <ApplyMinimumLoadCharge>BOOLTYPE</ApplyMinimumLoadCharge>
    <!-- optional -->
    <ApplySeasonalCharge>BOOLTYPE</ApplySeasonalCharge>
    <!-- optional -->
    <ApplyUnloadingCharge>BOOLTYPE</ApplyUnloadingCharge>
    <!-- optional -->
```

```
<PrintMinimumLoadChargeOnSeperateInvoice>BOOLTYPE</PrintMinimumLoadChargeOnSeperateInvoice>
        <!-- optional -->

<PrintSeasonalChargeOnSeperateInvoice>BOOLTYPE</PrintSeasonalChargeOnSeperateInvoice>
        <!-- optional -->

<PrintUnloadingChargeOnSeperateInvoice>BOOLTYPE</PrintUnloadingChargeOnSeperateInvoice>
        <!-- optional -->

<PrintAutomaticSundryChargeOnSeperateInvoice>BOOLTYPE</PrintAutomaticSundryChargeOnSeperateInvoice>
        </Charges>
        <!-- optional -->
        <Accounting>
          <!-- optional -->
          <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
          <!-- optional -->
          <PrepaymentPercentage>FLOATTYPE</PrepaymentPercentage>
          <!-- optional -->
          <CreditCard>
            <!-- optional -->
            <CardName>STRTYPE</CardName>
            <!-- optional -->
            <CardNumber>STRTYPE</CardNumber>
            <!-- optional -->
            <ResponsibleName>STRTYPE</ResponsibleName>
            <!-- optional -->
            <ExpirationDate>STRTYPE</ExpirationDate>
          </CreditCard>
          <!-- optional -->
          <CreditInformation>
            <!-- optional  -->
            <Credit>
              <!-- required -->
              <CreditCode>STRTYPE</CreditCode>
              <!-- optional -->
              <CreditEffectiveDate>DATETIMETYPE</CreditEffectiveDate>
            </Credit>
          </CreditInformation>
          <!-- optional -->
          <PurchaseOrderRequiredInOrderEntry>BOOLTYPE</PurchaseOrderRequiredInOrderEntry>
          <!-- optional -->
          <CustomerJobRequiredInOrderEntry>BOOLTYPE</CustomerJobRequiredInOrderEntry>
          <!-- optional -->
          <LotBlockRequiredInOrderEntry>BOOLTYPE</LotBlockRequiredInOrderEntry>
          <!-- optional -->
          <LotBlock>STRTYPE</LotBlock>
          <!-- optional -->
          <SuspendOrderReasonCode>BOOLTYPE</SuspendOrderReasonCode>
```

```xml
      </Accounting>
      <!-- optional -->
      <Distribution>
        <!-- optional -->
        <TrackingOrderColorCode>STRTYPE</TrackingOrderColorCode>
        <!-- optional -->
        <PrintMixWeightOnTicket>BOOLTYPE</PrintMixWeightOnTicket>
        <!-- optional -->
        <ProjectType>STRTYPE</ProjectType>
        <!-- optional -->
        <Stage>STRTYPE</Stage>
        <!-- optional -->
        <MapPage>STRTYPE</MapPage>
        <!-- optional -->
        <EstimatedTravelTime>FLOATTYPE</EstimatedTravelTime>
        <!-- optional -->
        <TruckPollType>STRTYPE</TruckPollType>
        <!-- optional -->
        <UpdateProjectMapCoordinates>BOOLTYPE</UpdateProjectMapCoordinates>
        <!-- optional -->
        <UpdateOrderMapCoordinates>BOOLTYPE</UpdateOrderMapCoordinates>
        <!-- optional -->
        <DefaultOrderType>STRTYPE</DefaultOrderType>
        <!-- optional -->
        <SchedulePlantCode>STRTYPE</SchedulePlantCode>
        <!-- optional -->
        <TruckTypeCode>STRTYPE</TruckTypeCode>
        <!-- optional -->
        <DeliveryMethod>STRTYPE</DeliveryMethod>
      </Distribution>
    </ProjectRet>
    <!--optional, may repeat -->
    <IncludeRetElement>STRTYPE</IncludeRetElement>
  </ProjectUpdateRs>
 </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetProjectUpdateRequest(string customerCode, string code, string name)
{
    XDocument x = new System.Xml.Linq.XDocument(
     new XDeclaration("1.0", "utf-8", "yes"),
     new XProcessingInstruction("webcretexml", "version=\"1.0\""),
     new XElement("WebcreteXML",
         new XElement("WebcreteXMLMsgsRq",
             new XElement("ProjectUpdateRq",
                 new XElement("ProjectUpdate",
```

```
                    new XElement("CustomerCode", customerCode),
                    new XElement("Name", name),
                    new XElement("Code", code))))));

    return x.ToString();
}
```

Job

➢ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <JobQueryRq>
        <!-- BEGIN OR-->
        <!-- optional, may repeat-->
        <ID>INTTYPE</ID>
        <!-- OR -->
        <!-- optional, may repeat-->
        <Code>STRTYPE</Code>
        <!-- OR -->
        <!-- optional, may repeat-->
        <Name>STRTYPE</Name>
        <!-- OR -->
        <!-- optional, may repeat-->
        <CustomerID>STRTYPE</CustomerID>
        <!-- OR -->
        <!-- optional, may repeat-->
        <CustomerCode>STRTYPE</CustomerCode>
        <!-- OR -->
        <!-- optional, may repeat-->
        <CustomerName>STRTYPE</CustomerName>
        <!-- OR -->
        <!-- optional -->
        <MaxReturned >INTTYPE</MaxReturned>
        <!-- optional -->
        <ListOnly>BOOLTYPE</ListOnly>
        <!-- optional -->
        <FromSetupDate>DATETIMETYPE</FromSetupDate>
```

```
        <!-- optional -->
        <ToSetupDate>DATETIMETYPE</ToSetupDate>
        <!-- optional -->
        <FromUpdateDate>DATETIMETYPE</FromUpdateDate>
        <!-- optional -->
        <ToUpdateDate>DATETIMETYPE</ToUpdateDate>
        <!-- optional, may repeat-->
        <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
        <!-- optional, may repeat-->
        <SalesmanCode>STRTYPE</SalesmanCode>
        <!-- optional, may repeat-->
        <SalesmanName>STRTYPE</SalesmanName>
        <!-- optional, may repeat-->
        <PriceCategoryCode>STRTYPE</PriceCategoryCode>
        <!-- optional, may repeat-->
        <PricingPlantCode>STRTYPE</PricingPlantCode>
        <!-- optional, may repeat-->
        <TermsCode>STRTYPE</TermsCode>
        <!-- optional, may repeat-->
        <ZoneCode>STRTYPE</ZoneCode>
        <!-- optional, may repeat-->
        <StatementCycle>STRTYPE</StatementCycle>
        <!-- optional, may repeat-->
        <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
        <!--optional, may repeat, can be CUSTOMER -->
        <IncludeRetElement>STRTYPE</IncludeRetElement>
        <!-- END OR -->
        </JobQueryRq>
    </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
     <JobQueryRs  statusCode="INTTYPE" statusSeverity="STRTYPE" statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <JobRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- required -->
        <CustomerID>INTTYPE</CustomerID>
```

```
<!-- required -->
<CustomerCode>STRTYPE</CustomerCode>
<!-- required -->
<CustomerName>STRTYPE</CustomerName>
<!-- optional -->
<SetupDate>DATETIMETYPE</SetupDate>
<!-- optional -->
<DeliveryAddress>
  <!-- optional -->
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
  <Addr3>STRTYPE</Addr3>
</DeliveryAddress>
<!-- optional -->
<Instruction>
  <!-- optional -->
  <Instruction1>STRTYPE</Instruction1>
  <!-- optional -->
  <Instruction2>STRTYPE</Instruction2>
  <!-- optional -->
  <Instruction3>STRTYPE</Instruction3>
</Instruction>
<!-- optional -->
<InvoiceAddress>
  <!-- optional -->
  <Name>STRTYPE</Name>
  <!-- optional -->
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
  <City>STRTYPE</City>
  <!-- optional -->
  <State>STRTYPE</State>
  <!-- optional -->
  <PostalCode>STRTYPE</PostalCode>
  <!-- optional -->
  <Country>STRTYPE</Country>
</InvoiceAddress>
<!-- optional -->
<StatementAddress>
  <!-- optional -->
  <Name>STRTYPE</Name>
  <!-- optional -->
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
```

```
  <City>STRTYPE</City>
  <!-- optional -->
  <State>STRTYPE</State>
  <!-- optional -->
  <PostalCode>STRTYPE</PostalCode>
  <!-- optional -->
  <Country>STRTYPE</Country>
</StatementAddress>
<!-- optional -->
<Contact>STRTYPE</Contact>
<!-- optional -->
<Phone>STRTYPE</Phone>
<!-- optional -->
<Fax>STRTYPE</Fax>
<!-- optional -->
<Cellular>STRTYPE</Cellular>
<!-- optional -->
<Email>STRTYPE</Email>
<!-- optional -->
<CustomerJob>STRTYPE</CustomerJob>
<!-- optional -->
<PurchaseOrder>STRTYPE</PurchaseOrder>
<!-- optional -->
<ExpirationDate>STRTYPE</ExpirationDate>
<!-- optional -->
<ShippingCustomerCode>STRTYPE</ShippingCustomerCode>
<!-- optional -->
<ReferenceCustomerCode>STRTYPE</ReferenceCustomerCode>
<!-- optional -->
<Sales>
  <!-- optional -->
  <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
  <!-- optional -->
  <SalesmanCode>STRTYPE</SalesmanCode>
  <!-- optional -->
  <SalesmanName>STRTYPE</SalesmanName>
</Sales>
<!-- optional -->
<Taxing>
  <!-- optional -->
  <TaxID>STRTYPE</TaxID>
  <!-- optional -->
  <TaxCode>STRTYPE</TaxCode>
  <!-- optional -->
  <Taxable>BOOLTYPE</Taxable>
  <!-- optional -->
  <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
  <!-- optional, may repeat -->
  <TaxExcempt>
    <!-- optional -->
```

```
        <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
        <!-- optional -->
        <TaxExemptID>STRTYPE</TaxExemptID>
      </TaxExcempt>
    </Taxing>
    <!-- optional -->
    <Pricing>
      <!-- optional -->
      <PriceCategoryCode>STRTYPE</PriceCategoryCode>
      <!-- optional -->
      <PricingPlantCode>STRTYPE</PricingPlantCode>
      <!-- optional -->
      <TradeDiscountPercent>PERCENTTYPE</TradeDiscountPercent>
      <!-- optional -->
      <TradeDiscountAmount>FLOATTYPE</TradeDiscountAmount>
      <!-- optional -->
      <TradeDiscountAmountUnitCode>STRTYPE</TradeDiscountAmountUnitCode>
      <!-- optional -->
      <TermCode>STRTYPE</TermCode>
      <!-- optional -->
      <ZoneCode>STRTYPE</ZoneCode>
      <!-- optional -->
      <ApplyZoneCharges>BOOLTYPE</ApplyZoneCharges>
      <!-- optional -->
      <AllowPriceChangeInOrderEntry>BOOLTYPE</AllowPriceChangeInOrderEntry>
      <!-- optional -->
      <PrintPricesOnTicket>BOOLTYPE</PrintPricesOnTicket>
      <!-- optional -->
      <RestrictOrderstoProjectProducts>BOOLTYPE</RestrictOrderstoProjectProducts>
      <!-- optional -->
      <AllowAutomaticPriceAjustment>BOOLTYPE</AllowAutomaticPriceAjustment>
      <!-- optional →
      <RestrictOrdersToProjectMixProduct>BOOLTYPE</RestrictOrdersToProjectMixProduct>
    </Pricing>
    <!-- optional -->
    <Charges>
      <!-- optional -->
      <MinimumLoadChargeTableCode>STRTYPE</MinimumLoadChargeTableCode>
      <!-- optional -->
      <SeasonalChargeTableCode>STRTYPE</SeasonalChargeTableCode>
      <!-- optional -->
      <UnloadingChargeTableCode>STRTYPE</UnloadingChargeTableCode>
      <!-- optional -->
      <ApplyMinimumLoadCharge>BOOLTYPE</ApplyMinimumLoadCharge>
      <!-- optional -->
      <ApplySeasonalCharge>BOOLTYPE</ApplySeasonalCharge>
      <!-- optional -->
      <ApplyUnloadingCharge>BOOLTYPE</ApplyUnloadingCharge>
      <!-- optional -->
```

```
        PrintMinimumLoadChargeOnSeperateInvoice>BOOLTYPE</PrintMinimumLoadChargeOnSeperateInvoi
ce>
        <!-- optional -->
<PrintSeasonalChargeOnSeperateInvoice>BOOLTYPE</PrintSeasonalChargeOnSeperateInvoice>
        <!-- optional -->
<PrintUnloadingChargeOnSeperateInvoice>BOOLTYPE</PrintUnloadingChargeOnSeperateInvoice>
        <!-- optional -->
<PrintAutomaticSundryChargeOnSeperateInvoice>BOOLTYPE</PrintAutomaticSundryChargeOnSeperateInv
oice>
        </Charges>
        <!-- optional -->
        <Accounting>
          <!-- optional -->
          <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
          <!-- optional -->
          <PrepaymentPercentage>FLOATTYPE</PrepaymentPercentage>
          <!-- optional -->
          <CreditCard>
            <!-- optional -->
            <CardName>STRTYPE</CardName>
            <!-- optional -->
            <CardNumber>STRTYPE</CardNumber>
            <!-- optional -->
            <ResponsibleName>STRTYPE</ResponsibleName>
            <!-- optional -->
            <ExpirationDate>STRTYPE</ExpirationDate>
          </CreditCard>
          <!-- optional -->
          <CreditInformation>
            <!-- optional  -->
            <Credit>
              <!-- required -->
              <CreditCode>STRTYPE</CreditCode>
              <!-- optional -->
              <CreditEffectiveDate>DATETIMETYPE</CreditEffectiveDate>
            </Credit>
          </CreditInformation>
          <!-- optional -->
          <PurchaseOrderRequiredInOrderEntry>BOOLTYPE</PurchaseOrderRequiredInOrderEntry>
          <!-- optional -->
          <CustomerJobRequiredInOrderEntry>BOOLTYPE</CustomerJobRequiredInOrderEntry>
          <!-- optional -->
          <LotBlockRequiredInOrderEntry>BOOLTYPE</LotBlockRequiredInOrderEntry>
          <!-- optional -->
          <LotBlock>STRTYPE</LotBlock>
          <!-- optional -->
          <SuspendOrderReasonCode>BOOLTYPE</SuspendOrderReasonCode>
        </Accounting>
        <!-- optional -->
        <Distribution>
```

```
    <!-- optional -->
    <TrackingOrderColorCode>STRTYPE</TrackingOrderColorCode>
    <!-- optional -->
    <PrintMixWeightOnTicket>BOOLTYPE</PrintMixWeightOnTicket>
    <!-- optional -->
    <ProjectType>STRTYPE</ProjectType>
    <!-- optional -->
    <Stage>STRTYPE</Stage>
    <!-- optional -->
    <MapPage>STRTYPE</MapPage>
    <!-- optional -->
    <EstimatedTravelTime>FLOATTYPE</EstimatedTravelTime>
    <!-- optional 1 Do Not Poll 2 Poll First Truck 3 Poll Every Truck-->
    <TruckPollType>STRTYPE</TruckPollType>
    <!-- optional -->
    <UpdateProjectMapCoordinates>BOOLTYPE</UpdateProjectMapCoordinates>
    <!-- optional -->
    <UpdateOrderMapCoordinates>BOOLTYPE</UpdateOrderMapCoordinates>
    <!-- optional -->
    <DefaultOrderType>STRTYPE</DefaultOrderType>
    <!-- optional -->
    <SchedulePlantCode>STRTYPE</SchedulePlantCode>
    <!-- optional -->
    <TruckTypeCode>STRTYPE</TruckTypeCode>
    <!-- optional -->
    <DeliveryMethod>STRTYPE</DeliveryMethod>
</Distribution>
        <!-- optional -->
        <EnablePriceEscalation>BOOLTYPE</EnablePriceEscalation>
        <!-- optional -->
        <PriceEscalationAmount>FLOATTYPE</PriceEscalationAmount>
<!-- optional -->
        <PriceEscalationDate>DATETIMETYPE</PriceEscalationDate>
        <!-- optional -->
        <Owner>STRTYPE</Owner>
        <!-- optional -->
        <Architect>STRTYPE</Architect>
        <!-- optional -->
        <Engineer>STRTYPE</Engineer>
        <!-- optional -->
        <GeneralContractor>STRTYPE</GeneralContractor>
        <!-- optional -->
        <JobBidDate>DATETIMETYPE</JobBidDate>
        <!-- optional -->
        <JobAwardDate>DATETIMETYPE</JobAwardDate>
        <!-- optional -->
        <JobBeginDate>DATETIMETYPE</JobBeginDate>
        <!-- optional -->
        <JobCompletionDate>DATETIMETYPE</JobCompletionDate>
        <!-- optional -->
```

```
        <UpdateDate>DATETIMETYPE</UpdateDate>
      </JobRet>
    </JobQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetProjectQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("JobQueryRq", ""))));

    return x.ToString();
}
```

Quote

➤ Query

Request

```xml
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <QuoteQueryRq>
      <!-- BEGIN OR-->
      <!-- optional, may repeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!-- optional, may repeat-->
      <Code>STRTYPE</Code>
      <!-- OR -->
      <!-- optional, may repeat-->
      <Name>STRTYPE</Name>
      <!-- OR -->
      <!-- optional, may repeat-->
      <CustomerID>STRTYPE</CustomerID>
```

```
        <!-- OR -->
        <!-- optional, may repeat-->
        <CustomerCode>STRTYPE</CustomerCode>
        <!-- OR -->
        <!-- optional, may repeat-->
        <CustomerName>STRTYPE</CustomerName>
        <!-- OR -->
        <!-- optional -->
        <MaxReturned >INTTYPE</MaxReturned>
        <!-- optional -->
        <ListOnly>BOOLTYPE</ListOnly>
        <!-- optional -->
        <FromSetupDate>DATETIMETYPE</FromSetupDate>
        <!-- optional -->
        <ToSetupDate>DATETIMETYPE</ToSetupDate>
        <!-- optional -->
        <FromUpdateDate>DATETIMETYPE</FromUpdateDate>
        <!-- optional -->
        <ToUpdateDate>DATETIMETYPE</ToUpdateDate>
        <!-- optional, may repeat-->
        <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
        <!-- optional, may repeat-->
        <SalesmanCode>STRTYPE</SalesmanCode>
        <!-- optional, may repeat-->
        <SalesmanName>STRTYPE</SalesmanName>
        <!-- optional, may repeat-->
        <PriceCategoryCode>STRTYPE</PriceCategoryCode>
        <!-- optional, may repeat-->
        <PricingPlantCode>STRTYPE</PricingPlantCode>
        <!-- optional, may repeat-->
        <TermsCode>STRTYPE</TermsCode>
        <!-- optional, may repeat-->
        <ZoneCode>STRTYPE</ZoneCode>
        <!-- optional, may repeat-->
        <StatementCycle>STRTYPE</StatementCycle>
        <!-- optional, may repeat-->
        <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
        <!--optional, may repeat, can be CUSTOMER -->
        <IncludeRetElement>STRTYPE</IncludeRetElement>
        <!-- END OR -->
        </QuoteQueryRq>
    </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
```

```xml
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <QuoteQueryRs  statusCode="INTTYPE" statusSeverity="STRTYPE" statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <QuoteRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- required -->
        <CustomerID>INTTYPE</CustomerID>
        <!-- required -->
        <CustomerCode>STRTYPE</CustomerCode>
        <!-- required -->
        <CustomerName>STRTYPE</CustomerName>
        <!-- optional -->
        <SetupDate>DATETIMETYPE</SetupDate>
        <!-- optional -->
        <DeliveryAddress>
          <!-- optional -->
          <Addr1>STRTYPE</Addr1>
          <!-- optional -->
          <Addr2>STRTYPE</Addr2>
          <!-- optional -->
          <Addr3>STRTYPE</Addr3>
        </DeliveryAddress>
        <!-- optional -->
        <Instruction>
          <!-- optional -->
          <Instruction1>STRTYPE</Instruction1>
          <!-- optional -->
          <Instruction2>STRTYPE</Instruction2>
          <!-- optional -->
          <Instruction3>STRTYPE</Instruction3>
        </Instruction>
        <!-- optional -->
        <InvoiceAddress>
          <!-- optional -->
          <Name>STRTYPE</Name>
          <!-- optional -->
          <Addr1>STRTYPE</Addr1>
          <!-- optional -->
          <Addr2>STRTYPE</Addr2>
          <!-- optional -->
          <City>STRTYPE</City>
          <!-- optional -->
          <State>STRTYPE</State>
          <!-- optional -->
```

```
    <PostalCode>STRTYPE</PostalCode>
    <!-- optional -->
    <Country>STRTYPE</Country>
  </InvoiceAddress>
  <!-- optional -->
  <StatementAddress>
    <!-- optional -->
    <Name>STRTYPE</Name>
    <!-- optional -->
    <Addr1>STRTYPE</Addr1>
    <!-- optional -->
    <Addr2>STRTYPE</Addr2>
    <!-- optional -->
    <City>STRTYPE</City>
    <!-- optional -->
    <State>STRTYPE</State>
    <!-- optional -->
    <PostalCode>STRTYPE</PostalCode>
    <!-- optional -->
    <Country>STRTYPE</Country>
  </StatementAddress>
  <!-- optional -->
  <Contact>STRTYPE</Contact>
  <!-- optional -->
  <Phone>STRTYPE</Phone>
  <!-- optional -->
  <Fax>STRTYPE</Fax>
  <!-- optional -->
  <Cellular>STRTYPE</Cellular>
  <!-- optional -->
  <Email>STRTYPE</Email>
  <!-- optional -->
  <CustomerJob>STRTYPE</CustomerJob>
  <!-- optional -->
  <PurchaseOrder>STRTYPE</PurchaseOrder>
  <!-- optional -->
  <ExpirationDate>STRTYPE</ExpirationDate>
  <!-- optional -->
  <ShippingCustomerCode>STRTYPE</ShippingCustomerCode>
  <!-- optional -->
  <ReferenceCustomerCode>STRTYPE</ReferenceCustomerCode>
  <!-- optional -->
  <Sales>
    <!-- optional -->
    <SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
    <!-- optional -->
    <SalesmanCode>STRTYPE</SalesmanCode>
    <!-- optional -->
    <SalesmanName>STRTYPE</SalesmanName>
  </Sales>
```

```xml
      <!-- optional -->
      <Taxing>
        <!-- optional -->
        <TaxID>STRTYPE</TaxID>
        <!-- optional -->
        <TaxCode>STRTYPE</TaxCode>
        <!-- optional -->
        <Taxable>BOOLTYPE</Taxable>
        <!-- optional -->
        <NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
        <!-- optional, may repeat -->
        <TaxExcempt>
          <!-- optional -->
          <TaxAuthorityCode>STRTYPE</TaxAuthorityCode>
          <!-- optional -->
          <TaxExemptID>STRTYPE</TaxExemptID>
        </TaxExcempt>
      </Taxing>
      <!-- optional -->
      <Pricing>
        <!-- optional -->
        <PriceCategoryCode>STRTYPE</PriceCategoryCode>
        <!-- optional -->
        <PricingPlantCode>STRTYPE</PricingPlantCode>
        <!-- optional -->
        <TradeDiscountPercent>PERCENTTYPE</TradeDiscountPercent>
        <!-- optional -->
        <TradeDiscountAmount>FLOATTYPE</TradeDiscountAmount>
        <!-- optional -->
        <TradeDiscountAmountUnitCode>STRTYPE</TradeDiscountAmountUnitCode>
        <!-- optional -->
        <TermCode>STRTYPE</TermCode>
        <!-- optional -->
        <ZoneCode>STRTYPE</ZoneCode>
        <!-- optional -->
        <ApplyZoneCharges>BOOLTYPE</ApplyZoneCharges>
        <!-- optional -->
        <AllowPriceChangeInOrderEntry>BOOLTYPE</AllowPriceChangeInOrderEntry>
        <!-- optional -->
        <PrintPricesOnTicket>BOOLTYPE</PrintPricesOnTicket>
        <!-- optional -->
        <RestrictOrderstoProjectProducts>BOOLTYPE</RestrictOrderstoProjectProducts>
        <!-- optional -->
        <AllowAutomaticPriceAjustment>BOOLTYPE</AllowAutomaticPriceAjustment>
            <!-- optional -->

<RestrictOrdersToProjectMixProduct>BOOLTYPE</RestrictOrdersToProjectMixProduct>
      </Pricing>
      <!-- optional -->
      <Charges>
```

```
            <!-- optional -->
            <MinimumLoadChargeTableCode>STRTYPE</MinimumLoadChargeTableCode>
            <!-- optional -->
            <SeasonalChargeTableCode>STRTYPE</SeasonalChargeTableCode>
            <!-- optional -->
            <UnloadingChargeTableCode>STRTYPE</UnloadingChargeTableCode>
            <!-- optional -->
            <ApplyMinimumLoadCharge>BOOLTYPE</ApplyMinimumLoadCharge>
            <!-- optional -->
            <ApplySeasonalCharge>BOOLTYPE</ApplySeasonalCharge>
            <!-- optional -->
            <ApplyUnloadingCharge>BOOLTYPE</ApplyUnloadingCharge>
            <!-- optional -->

<PrintMinimumLoadChargeOnSeperateInvoice>BOOLTYPE</PrintMinimumLoadChargeOnSeperateInvoice>
            <!-- optional -->

<PrintSeasonalChargeOnSeperateInvoice>BOOLTYPE</PrintSeasonalChargeOnSeperateInvoice>
            <!-- optional -->

<PrintUnloadingChargeOnSeperateInvoice>BOOLTYPE</PrintUnloadingChargeOnSeperateInvoice>
            <!-- optional -->

<PrintAutomaticSundryChargeOnSeperateInvoice>BOOLTYPE</PrintAutomaticSundryChargeOnSeperateInv
oice>
          </Charges>
          <!-- optional -->
          <Accounting>
            <!-- optional -->
            <AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
            <!-- optional -->
            <PrepaymentPercentage>FLOATTYPE</PrepaymentPercentage>
            <!-- optional -->
            <CreditCard>
              <!-- optional -->
              <CardName>STRTYPE</CardName>
              <!-- optional -->
              <CardNumber>STRTYPE</CardNumber>
              <!-- optional -->
              <ResponsibleName>STRTYPE</ResponsibleName>
              <!-- optional -->
              <ExpirationDate>STRTYPE</ExpirationDate>
            </CreditCard>
            <!-- optional -->
            <CreditInformation>
              <!-- optional  -->
              <Credit>
                <!-- required -->
                <CreditCode>STRTYPE</CreditCode>
                <!-- optional -->
```

```
            <CreditEffectiveDate>DATETIMETYPE</CreditEffectiveDate>
          </Credit>
      </CreditInformation>
      <!-- optional -->
      <PurchaseOrderRequiredInOrderEntry>BOOLTYPE</PurchaseOrderRequiredInOrderEntry>
      <!-- optional -->
      <CustomerJobRequiredInOrderEntry>BOOLTYPE</CustomerJobRequiredInOrderEntry>
      <!-- optional -->
      <LotBlockRequiredInOrderEntry>BOOLTYPE</LotBlockRequiredInOrderEntry>
      <!-- optional -->
      <LotBlock>STRTYPE</LotBlock>
      <!-- optional -->
      <SuspendOrderReasonCode>BOOLTYPE</SuspendOrderReasonCode>
    </Accounting>
    <!-- optional -->
    <Distribution>
      <!-- optional -->
      <TrackingOrderColorCode>STRTYPE</TrackingOrderColorCode>
      <!-- optional -->
      <PrintMixWeightOnTicket>BOOLTYPE</PrintMixWeightOnTicket>
      <!-- optional -->
      <ProjectType>STRTYPE</ProjectType>
      <!-- optional -->
      <Stage>STRTYPE</Stage>
      <!-- optional -->
      <MapPage>STRTYPE</MapPage>
      <!-- optional -->
      <EstimatedTravelTime>FLOATTYPE</EstimatedTravelTime>
      <!-- optional 1 Do Not Poll 2 Poll First Truck 3 Poll Every Truck-->
      <TruckPollType>STRTYPE</TruckPollType>
      <!-- optional -->
      <UpdateProjectMapCoordinates>BOOLTYPE</UpdateProjectMapCoordinates>
      <!-- optional -->
      <UpdateOrderMapCoordinates>BOOLTYPE</UpdateOrderMapCoordinates>
      <!-- optional -->
      <DefaultOrderType>STRTYPE</DefaultOrderType>
      <!-- optional -->
      <SchedulePlantCode>STRTYPE</SchedulePlantCode>
      <!-- optional -->
      <TruckTypeCode>STRTYPE</TruckTypeCode>
      <!-- optional -->
      <DeliveryMethod>STRTYPE</DeliveryMethod>
    </Distribution>
            <!-- optional -->
            <EnablePriceEscalation>BOOLTYPE</EnablePriceEscalation>
            <!-- optional -->
            <PriceEscalationAmount>FLOATTYPE</PriceEscalationAmount>
    <!-- optional -->
            <PriceEscalationDate>DATETIMETYPE</PriceEscalationDate>
            <!-- optional -->
```

```
            <QuoteRequiredDate>DATETIMETYPE</QuoteRequiredDate>
            <!-- optional -->
            <QuoteExpirationDate>DATETIMETYPE</QuoteExpirationDate>
        <!-- optional -->
        <UpdateDate>DATETIMETYPE</UpdateDate>
      </QuoteRet>
    </QuoteQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetProjectQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("QuoteQueryRq", ""))));

    return x.ToString();
}
```

Order

➢ Query

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <OrderQueryRq>
     <!-- optional in format MM/dd/yyyy-->
     <FromOrderDate>DATETIMETYPE</FromOrderDate>
     <!-- optional -->
     <ToOrderDate>DATETIMETYPE</ToOrderDate>
     <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
     <FromUpdateTime>DATETIMETYPE</FromUpdateTime>
     <!-- optional -->
```

```
        <ToUpdateTime>DATETIMETYPE</ToUpdateTime>
        <!-- optional,may repeat -->
        <OrderID>STRTYPE</OrderID>
        <!-- optional,may repeat -->
        <OrderCode>STRTYPE</OrderCode>
        <!-- optional,may repeat -->
        <PlantCode>STRTYPE</PlantCode>
        <!-- optional,may repeat -->
        <CustomerCode>STRTYPE</CustomerCode>
        <!-- optional,may repeat -->
        <ProjectCode>STRTYPE</ProjectCode>
        <!-- optional -->
        <Reviewed>BOOLTYPE</Reviewed>
        <!-- optional -->
        <IncludeRemovedOrder>BOOLTYPE</IncludeRemovedOrder>
        <!--optional, may repeat can be  PRODUCT |SCHEDULE |SCHEDULELOAD |USERDEFINEDFIELD
|ORDERNOTE-->
        <IncludeRetElement>STRTYPE</IncludeRetElement>
        <!-- optional -->
        <FailOnOrderLock>BOOLTYPE</FailOnOrderLock>
      </OrderQueryRq>
    </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <OrderQueryRs>
      <!-- optional, may rep -->
      <OrderRet>
        <!-- required -->
        <OrderID>INTTYPE</OrderID>
        <!-- required -->
        <CreatedDate>DATETIMETYPE</CreatedDate>
        <!-- required -->
        <OrderDate>DATETIMETYPE</OrderDate>
       <!-- required -->
        <UpdateTime>DATETIMETYPE</UpdateTime>
        <!-- required -->
        <OrderCode>STRTYPE</OrderCode>
       <!-- required -->
        <OrderType>INTTYPE</OrderType>
        <!-- required -->
        <OrderTypeDescription>STRTYPE</OrderTypeDescription>
        <!-- required -->
```

```xml
        <CustomerCode>STRTYPE</CustomerCode>
        <!-- required -->
        <CustomerName>STRTYPE</CustomerName>
        <!-- optional -->
        <CustomerJob>STRTYPE</CustomerJob>
        <!-- optional -->
        <PaymentForm>INTTYPE</PaymentForm>
        <!-- optional -->
        <ProjectCode>STRTYPE</ProjectCode>
        <!-- optional -->
        <ProjectName>STRTYPE</ProjectName>
        <!-- optional -->
        <LotBlockNumber>STRTYPE</LotBlockNumber>
        <!-- optional -->
        <PurchaseOrder>STRTYPE</PurchaseOrder>
        <!-- optional -->
        <JobNumber>STRTYPE</JobNumber>
        <!-- optional -->
        <DeliveryAddr1>STRTYPE</DeliveryAddr1>
        <!-- optional -->
        <DeliveryAddr2>STRTYPE</DeliveryAddr2>
        <!-- optional -->
        <DeliveryAddr3>STRTYPE5</DeliveryAddr3>
        <!-- optional -->
        <InstructionAddr1>STRTYPE</InstructionAddr1>
        <!-- optional -->
        <InstructionAddr2>STRTYPE</InstructionAddr2>
        <!-- optional -->
        <InstructionAddr3>STRTYPE</InstructionAddr3>
        <!-- optional -->
        <InstructionAddr4>STRTYPE</InstructionAddr4>
        <!-- optional -->
        <InstructionAddr5>STRTYPE</InstructionAddr5>
        <!-- optional -->
        <InstructionAddr6>STRTYPE</InstructionAddr6>
        <!-- optional -->
        <MapPage>STRTYPE</MapPage>
        <!-- optional -->
        <ZoneCode>STRTYPE</ZoneCode>
        <!-- optional -->
        <ZoneName>STRTYPE</ZoneName>
        <!-- required  0:normal 1:will call 2:Weather Permitting 3:Hold Delivery 4:Completed
5:Wait List-->
        <CurrentStatus>INTTYPE</CurrentStatus>
        <!-- optional -->
        <Removed>BOOLTYPE</Removed>
        <!-- optional -->
        <RemoveReasonCode>STRTYPE</RemoveReasonCode>
        <!-- optional -->
        <HaulerCode>STRTYPE</HaulerCode>
```

```xml
<!-- optional -->
<HaulerName>STRTYPE</HaulerName>
<!-- optional -->
<PriceCategoryCode>STRTYPE</PriceCategoryCode>
<!-- optional -->
<PriceCategoryName>STRTYPE</PriceCategoryName>
<!-- optional -->
<PricingPlantCode>STRTYPE</PricingPlantCode>
<!-- required -->
<TaxCode>STRTYPE</TaxCode>
<!-- required -->
<Taxable>BOOLTYPE</Taxable>
<!-- optional -->
<NonTaxableReasonCode>STRTYPE</NonTaxableReasonCode>
<!-- optional -->
<NonTaxableReasonShortDescription>STRTYPE</NonTaxableReasonShortDescription>
<!-- optional -->
<TakenByEmployeeID>STRTYPE</TakenByEmployeeID
<!-- optional -->
<TakenByEmployeeCode>STRTYPE</TakenByEmployeeCode>
<!-- optional -->
<TakenOnExtension>STRTYPE</TakenOnExtension>
<!-- optional -->
<OrderedByName>STRTYPE</OrderedByName>
<!-- optional -->
<OrderedByPhone>STRTYPE</OrderedByPhone>
<!-- optional -->
<PocketNumber>STRTYPE</PocketNumber>
<!-- optional -->
<SalesmanID>STRTYPE</SalesmanID>
<!-- optional -->
<SalesmanCode>STRTYPE</SalesmanCode>
 <!-- optional -->
<SalesmanName>STRTYPE</SalesmanName>
<!-- optional -->
<SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
<!-- optional -->
<TradeDiscountPercent>PERCENTTYPE</TradeDiscountPercent>
<!-- optional -->
<TradeDiscountAmount>AMTTYPE</TradeDiscountAmount>
<!-- optional -->
<GrandTotalAmount>AMTTYPE</GrandTotalAmount>
<!-- optional -->
<IsSuspended>BOOLTYPE</IsSuspended>
<!-- optional -->
<SuspendReasonCode>STRTYPE</SuspendReasonCode>
<!-- optional -->
<SuspendShortDescription>STRTYPE</SuspendShortDescription>
<!-- optional -->
<CreditOverrideUser>STRTYPE</CreditOverrideUser>
```

```
<!-- optional -->
<Latitude>STRTYPE</Latitude>
<!-- optional -->
<Longitude>STRTYPE</Longitude>
<!-- optional -->
<UsageCode>STRTYPE</UsageCode>
<!-- optional -->
<UsageShort>STRTYPE</UsageShort>
<!-- optional -->
<RemovedBy>STRTYPE</RemovedBy>
<!-- optional -->
<BuildingPermit>STRTYPE</BuildingPermit>
<!-- optional -->
<ConfirmedBy>STRTYPE</ConfirmedBy>
<!-- optional -->
<JobsiteRadius>INTTYPE</JobsiteRadius>
<!-- optional -->
<Reviewed>BOOLTYPE</Reviewed>
<!-- optional -->
<PaymentAmount>AMTTYPE</PaymentAmount>
<!-- optional -->
<CheckNumber>STRTYPE</CheckNumber>
<!-- optional -->
<CreditCardLastFourDigits>STRTYPE</CreditCardLastFourDigits>
<!-- optional -->
<CreditCardExpirationDate>STRTYPE</CreditCardExpirationDate>
<!-- optional -->
<CreditCardAuthorizationCode>STRTYPE</CreditCardAuthorizationCode>
<!-- optional -->
<BankAccount>STRTYPE</BankAccount>
<!-- optional -->
<Products>
  <!-- optional, may rep -->
  <Product>
    <!-- required -->
    <ProductID>INTTYPE</ProductID>
    <!-- required -->
    <ItemID>INTTYPE</ItemID>
    <!-- required -->
    <ItemCode>STRTYPE</ItemCode>
    <!-- required -->
    <Description>STRTYPE</Description>
    <!-- required -->
    <ShortDescription>STRTYPE</ShortDescription>
    <!-- required -->
    <IsMix>BOOLTYPE</IsMix>
    <!-- required -->
    <IsAssoc>BOOLTYPE</IsAssoc>
    <!-- required -->
    <Price>FLOATTYPE</Price>
```

```xml
<!-- required -->
<PriceUnit>STRTYPE</PriceUnit>
<!-- required -->
<OrderQty>FLOATTYPE</OrderQty>
<!-- required -->
<OrderQtyUnit>cy</OrderQtyUnit>
<!-- required -->
<LoadQty>FLOATTYPE</LoadQty>
<!-- required -->
<DelvQty>FLOATTYPE</DelvQty>
<!-- required -->
<DelvQtyUnit>STRTYPE</DelvQtyUnit>
<!-- optional -->
<Slump>STRTYPE</Slump>
<!-- optional -->
<TrimPercent>FLOATTYPE</TrimPercent>
<!-- optional -->
<Comments>STRTYPE</Comments>
<!-- optional -->
<UsageCode>STRTYPE</UsageCode>
<!-- optional -->
<UsageName>STRTYPE</UsageName>
<!-- required -->
<Taxable>BOOLTYPE</Taxable>
<!-- required -->
<TradeDiscountable>BOOLTYPE</TradeDiscountable>
<!-- optional -->
<Schedules>
  <!-- optional, may rep -->
  <Schedule>
    <!-- required -->
    <ProductScheduleID>INTTYPE</ProductScheduleID>
    <!-- required -->
    <PlantID>INTTYPE</PlantID>
    <!-- required -->
    <PlantCode>STRTYPE</PlantCode>
    <!-- required -->
    <StartTime>DATETIMETYPE</StartTime>
    <!-- required -->
    <ScheduleQty>FLOATTYPE</ScheduleQty>
    <!-- required -->
    <ScheduleDelvQty>FLOATTYPE</ScheduleDelvQty>
    <!-- required -->
    <HoldQty>FLOATTYPE</HoldQty>
    <!-- required -->
    <TruckTypeID>INTTYPE</TruckTypeID>
    <!-- required -->
    <TruckTypeCode>STRTYPE</TruckTypeCode>
    <!-- required -->
    <TruckTypeName>STRTYPE</TruckTypeName>
```

```xml
<!-- required -->
<LoadQty>FLOATTYPE</LoadQty>
<!-- required -->
<JobWashTime>INTTYPE</JobWashTime>
<!-- optional -->
<PouringMethodCode>STRTYPE</PouringMethodCode>
<!-- optional -->
<PouringMethodShort>STRTYPE</PouringMethodShort>
<!-- optional -->
<UnloadRatePerHour>FLOATTYPE</UnloadRatePerHour>
<!-- optional -->
<Distance>FLOATTYPE</Distance>
<!-- required -->
<TimeToJob>INTTYPE</TimeToJob>
<!-- required -->
<TimeToPlant>INTTYPE</TimeToPlant>
<!-- required -->
<TruckSpace>INTTYPE</TruckSpace>
<!-- required -->
<UnloadTime>INTTYPE</UnloadTime>
<!-- required -->
<DeliveryRatePerHour>FLOATTYPE</DeliveryRatePerHour>
<!-- required -->
<TrucksRequired>FLOATTYPE</TrucksRequired>
  <!-- required -->
<NumberOfLoads>INTTYPE</NumberOfLoads>
<!-- optional -->
<ScheduleLoads>
  <!-- optional, may rep -->
  <ScheduleLoad>
    <!-- required -->
    <ScheduleLoadID>INTTYPE</ScheduleLoadID>
    <!-- required -->
    <FromPlantID>INTTYPE</FromPlantID>
    <!-- required -->
    <FromPlant>STRTYPE</FromPlant>
    <!-- required -->
    <LoadQty>FLOATTYPE</LoadQty>
    <!-- optional -->
    <TruckID>INTTYPE</TruckID>
    <!-- optional -->
    <TruckCode>STRTYPE</TruckCode>
    <!-- required -->
    <ToPlantID>INTTYPE</ToPlantID>
    <!-- required -->
    <ToPlant>STRTYPE</ToPlant>
    <!-- required -->
    <TimeToJob>INTTYPE</TimeToJob>
    <!-- required -->
    <UnloadTime>INTTYPE</UnloadTime>
```

```
              <!-- required -->
              <TimeToPlant>INTTYPE</TimeToPlant>
              <!-- required -->
              <TruckSpace>INTTYPE</TruckSpace>
              <!-- required -->
              <PrintedTime>DATETIMETYPE</PrintedTime>
              <!-- required -->
              <LoadTime>DATETIMETYPE</LoadTime>
              <!-- required -->
              <OnJobTime>DATETIMETYPE</OnJobTime>
              <!-- required -->
              <FinPourTime>DATETIMETYPE</FinPourTime>
              <!-- required -->
              <AtPlantTime>DATETIMETYPE</AtPlantTime>
              <!-- required -->
              <TimeToWash>INTTYPE</TimeToWash>
              <!-- optional -->
              <TicketID>INTTYPE</TicketID>
              <!-- optional -->
              <TicketCode>STRTYPE</TicketCode>
            </ScheduleLoad>
          </ScheduleLoads>
        </Schedule>
      </Schedules>
    </Product>
  </Products>
  <!-- optional -->
  <Notes>
    <!-- optional, may rep -->
    <Note>
      <!-- required -->
      <NoteID>INTTYPE</NoteID>
      <!-- required -->
      <NoteDescription>STRTYPE</NoteDescription>
    <!-- required -->
      <NoteDate>DATETIMETYPE</NoteDate>
    </Note>
  </Notes>
  <!-- optional -->
  <UserDefinedFields>
    <!-- optional, may rep -->
    <UserDefinedField>
      <!-- required -->
      <Name>STRTYPE</Name>
      <!-- required -->
      <Value>STRTYPE</Value>
    </UserDefinedField>
  </UserDefinedFields>
  </OrderRet>
</OrderQueryRs>
```

```
    </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetOrderQueryRequest(DateTime dtOrderFrom, DateTime dtOrderTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("OrderQueryRq",
                  new XElement("FromOrderDate",dtOrderFrom.ToShortDateString()),
                  new XElement("ToOrderDate",dtOrderTo.ToShortDateString(),
                  new XElement("IncludeRetElement","PRODUCT"),
                  new XElement("IncludeRetElement","SCHEDULE")))));

    return x.ToString();
}
```

➢ Update

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <OrderUpdateRq   requestID="UUIDTYPE">
        <!-- required, may repeat-->
        <OrderUpdate>
           <!-- required -->
           <ID>INTTYPE</ID>
           <!-- optional -->
           <Invoiced>BOOLTYPE</Invoiced>
        </OrderUpdate>
    </OrderUpdateRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <OrderUpdateRs  requestID="UUIDTYPE">
        <!-- required, may repeat-->
        <OrderRet>
           <!-- required -->
           <ID>INTTYPE</ID>
           <Action>STRTYPE</Action>
        </OrderRet>
    </OrderUpdateRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetOrderUpdateRequest(int orderID, bool invoiced)

{

    XDocument x = new System.Xml.Linq.XDocument(

        new XDeclaration("1.0", "utf-8", "yes"),

        new XProcessingInstruction("webcretexml", "version=\"1.0\""),

        new XElement("WebcreteXML",

            new XElement("WebcreteXMLMsgsRq",

                new XElement("OrderUpdateRq",

                    new XElement("OrderUpdate",

                        new XElement("ID", orderID),

                        new XElement("Invoiced", invoiced))))));

    return x.ToString();

}
```

Ticket

➢ Query

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <TicketQueryRq>
      <!-- optional in format MM/dd/yyyy-->
      <FromOrderDate>DATETIMETYPE</FromOrderDate>
      <!-- optional -->
      <ToOrderDate>DATETIMETYPE</ToOrderDate>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <FromTicketTime>DATETIMETYPE</FromTicketTime>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <ToTicketTime>DATETIMETYPE</ToTicketTime>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <FromUpdateTime>DATETIMETYPE</FromUpdateTime>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <ToUpdateTime>DATETIMETYPE</ToUpdateTime>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <FromLoadTime>DATETIMETYPE</FromLoadTime>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <ToLoadTime>DATETIMETYPE</ToLoadTime>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <FromCreatedDate>DATETIMETYPE</FromCreatedDate>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <ToCreatedDate>DATETIMETYPE</ToCreatedDate>
      <!-- optional,may repeat -->
      <OrderID>STRTYPE</OrderID>
      <!-- optional,may repeat -->
      <TicketID>STRTYPE</TicketID>
      <!-- optional,may repeat -->
      <TicketCode>STRTYPE</TicketCode>
      <!-- optional,may repeat -->
      <PlantCode>STRTYPE</PlantCode>
      <!-- optional,may repeat -->
      <CustomerCode>STRTYPE</CustomerCode>
      <!-- optional,may repeat -->
      <ProjectCode>STRTYPE</ProjectCode>
      <!-- optional,may repeat -->
      <MixCode>STRTYPE</MixCode>
      <!-- optional -->
      <ListOnly>STRTYPE</ListOnly>
      <!-- optional -->
      <OrderBy>STRTYPE</OrderBy>
      <!-- optional -->
      <Reviewed>BOOLTYPE</Reviewed>
```

```xml
      <!-- optional -->
      <IncludeRemovedTicket>BOOLTYPE</IncludeRemovedTicket>
      <!-- optional -->
      <IncludeSuspendedTicket>BOOLTYPE</IncludeSuspendedTicket>
      <!-- optional -->
      <IncludeInvoicedTicket>BOOLTYPE</IncludeInvoicedTicket>
      <!-- optional -->
      <WithBatchWeightsOnly>BOOLTYPE</WithBatchWeightsOnly>
      <!-- optional, may repeat, can be USERDEFINEDFIELD | ORDERUSERDEFINEDFIELD |
CUSTOMERUSERDEFINEDFIELD-->
      <IncludeRetElement>STRTYPE</IncludeRetElement>
      <!-- optional -->
      <MarkOrderAsInvoiced>BOOLTYPE</MarkOrderAsInvoiced>
      <!-- optional -->
      <MarkTicketAsInvoiced>BOOLTYPE</MarkTicketAsInvoiced>
      <!-- optional -->
      <FailOnOrderLock>BOOLTYPE</FailOnOrderLock>
    </TicketQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TicketQueryRs statusCode="INTTYPE" statusSeverity="STRTYPE" statusMessage="STRTYPE">
      <!-- optional, may rep -->
      <TicketRet>
        <!-- required -->
        <TicketID>INTTYPE</TicketID>
        <!-- required -->
        <CreatedDate>DATETIMETYPE</CreatedDate>
        <!-- required -->
        <PlantID>INTTYPE</PlantID>
        <!-- required -->
        <PlantCode>STRTYPE</PlantCode>
        <!-- optional -->
        <PlantName>STRTYPE</PlantName>
        <!-- required -->
        <LocationID>INTTYPE</LocationID>
        <!-- required -->
        <LocationCode>STRTYPE</LocationCode>
        <!-- required -->
        <LocationName>STRTYPE</LocationName>
        <!-- optional →
        <PricingPlantCode>STRTYPE</PricingPlantCode>
```

```
        <!-- required -->
        <TicketCode>STRTYPE</TicketCode>
        <!-- required -->
        <OrderDate>DATETIMETYPE</OrderDate>
        <!-- required -->
        <OrderID>INTTYPE</OrderID>
        <!-- required -->
        <OrderCode>STRTYPE</OrderCode>
        <!-- required 0:normal 1:will call 2:Weather Permitting 3:Hold Delivery 4:Completed
5:Wait List-->
        <CurrentStatus>INTTYPE</CurrentStatus>
        <!-- required 0:normal 1:will call 2:Weather Permitting 3:Hold Delivery 4:Completed
5:Wait List-->
        <OrderCurrentStatus>INTTYPE</OrderCurrentStatus>
        <!-- required -->
        <PaymentForm>ENUMTYPE</PaymentForm>
        <!-- optional -->
        <TruckCode>STRTYPE</TruckCode>
        <!-- optional -->
        <DriverCode>STRTYPE</DriverCode>
        <!-- optional -->
        <DriverName>STRTYPE</DriverName>
        <!-- required -->
        <CustomerID>INTTYPE</CustomerID>
        <!-- required -->
        <CustomerCode>STRTYPE</CustomerCode>
        <!-- required -->
        <CustomerName>STRTYPE</CustomerName>
        <!-- required →
        <CustomerDivisionCode>STRTYPE</CustomerDivisionCode>
        <!-- optional -->
        <CustomerJob>STRTYPE</CustomerJob>
        <!-- optional -->
        <ProjectID>INTTYPE</ProjectID>
        <!-- optional -->
        <ProjectCode>STRTYPE</ProjectCode>
        <!-- optional -->
        <ProjectName>STRTYPE</ProjectName>
        <!-- optional -->
        <LotBlockNumber>STRTYPE</LotBlockNumber>
        <!-- optional -->
        <PurchaseOrder>STRTYPE</PurchaseOrder>
        <!-- optional -->
        <PocketNumber>STRTYPE</PocketNumber>
        <!-- optional -->
        <JobNumber>STRTYPE</JobNumber>
        <!-- optional -->
        <DeliveryAddr1>STRTYPE</DeliveryAddr1>
        <!-- optional -->
        <DeliveryAddr2>STRTYPE</DeliveryAddr2>
```

```xml
<!-- optional -->
<DeliveryAddr3>STRTYPE</DeliveryAddr3>
<!-- optional -->
<InstructionAddr1>STRTYPE</InstructionAddr1>
<!-- optional -->
<InstructionAddr2>STRTYPE</InstructionAddr2>
<!-- optional -->
<InstructionAddr3>STRTYPE</InstructionAddr3>
<!-- optional -->
<InstructionAddr4>STRTYPE</InstructionAddr4>
<!-- optional -->
<InstructionAddr5>STRTYPE</InstructionAddr5>
<!-- optional -->
<InstructionAddr6>STRTYPE</InstructionAddr6>
<!-- optional -->
<ZoneCode>STRTYPE</ZoneCode>
<!-- optional -->
<ZoneName>STRTYPE</ZoneName>
<!-- optional -->
<RemoveReasonCode>STRTYPE</RemoveReasonCode>
<!-- optional -->
<TaxCode>STRTYPE</TaxCode>
 <!-- optional -->
<TaxCodeDescription>STRTYPE</TaxCodeDescription>
 <!-- optional -->
<TaxCodeShortDescription>STRTYPE</TaxCodeShortDescription>
<!-- optional -->
<Taxable>BOOLTYPE</Taxable>
<!-- optional -->
<HaulerCode>STRTYPE</HaulerCode>
<!-- optional -->
<HaulerName>STRTYPE</HaulerName>
<!-- optional -->
<UsageCode>STRTYPE</UsageCode>
<!-- optional -->
<UsageShort>STRTYPE</UsageShort>
<!-- optional -->
<WeightMasterCode>STRTYPE</WeightMasterCode>
<!-- optional -->
<WeightMasterName>STRTYPE</WeightMasterName>
<!-- optional -->
<WaterAddedOnJob>FLOATTYPE</WaterAddedOnJob>
<!-- optional -->
<QBInvoiceEmailChecked>BOOL</QBInvoiceEmailChecked>
<!-- optional -->
<ScheduledOnJobTime>DATETIMETYPE</ScheduledOnJobTime>
 <!-- optional -->
<PrintedTime>DATETIMETYPE</PrintedTime>
<!-- optional -->
<LoadTime>DATETIMETYPE</LoadTime>
```

```xml
<!-- optional →
<LoadedTime>DATETIMETYPE</LoadedTime>
<!-- optional -->
<ToJobTime>DATETIMETYPE</ToJobTime>
<!-- optional -->
<OnJobTime>DATETIMETYPE</OnJobTime>
<!-- optional -->
<UnloadTime>DATETIMETYPE</UnloadTime>
<!-- optional -->
<EndUnload>DATETIMETYPE</EndUnload>
<!-- optional -->
<WashTime>DATETIMETYPE</WashTime>
<!-- optional -->
<ToPlantTime>DATETIMETYPE</ToPlantTime>
<!-- optional -->
<AtPlantTime>DATETIMETYPE</AtPlantTime>
<!-- required -->
<Active>BOOLTYPE</Active>
<!-- optional -->
<Amount>AMTTYPE</Amount>
<!-- optional -->
<TotalAmount>AMTTYPE</TotalAmount>
<!-- optional -->
<TaxAmount>AMTTYPE</TaxAmount>
<!-- optional -->
<TradeDiscountPercent>PERCENTTYPE</TradeDiscountPercent>
<!-- optional -->
<TaxExemptID1>STRTYPE</TaxExemptID1>
<!-- optional -->
<TradeDiscountAmount>AMTTYPE</TradeDiscountAmount>
<!-- optional -->
<BuildingPermit>AMTTYPE</BuildingPermit>
<!-- optional -->
<Removed>BOOLTYPE</Removed>
<!-- optional -->
<PrintMixWeight>BOOLTYPE</PrintMixWeight>
<!-- optional -->
<PaymentTermsCode>AMTTYPE</PaymentTermsCode>
<!-- optional -->
<PaymentTermsName>AMTTYPE</PaymentTermsName>
<!-- optional -->
<SalesmanID>AMTTYPE</SalesmanID>
<!-- optional -->
<SalesmanCode>AMTTYPE</SalesmanCode>
<!-- optional -->
<SalesmanName>AMTTYPE</SalesmanName>
<!-- optional -->
<SalesAnalysisCode>STRTYPE</SalesAnalysisCode>
<!-- optional -->
<SchedulingTruckTypeCode>STRTYPE</SchedulingTruckTypeCode>
```

```
<!-- optional -->
<UpdateTime>DATETIMETYPE</UpdateTime>
<!-- optional -->
<Reviewed>BOOLTYPE</Reviewed>
<!-- optional -->
<Suspended>BOOLTYPE</Suspended>
<!-- optional -->
<Invoiced>BOOLTYPE</Invoiced>
<!-- optional -->
<CostAmount>AMTTYPE</CostAmount>
<!-- optional -->
<Products>
  <!-- optional may repeat-->
  <Product>
    <!-- required →
    <ProductID>INTTYPE</ProductID>
    <!-- required -->
    <ItemID>INTTYPE</ItemID>
    <!-- required -->
    <ItemCode>STRTYPE</ItemCode>
    <!-- optional -->
    <Description>STRTYPE</Description>
    <!-- optional -->
    <ShortDescription>STRTYPE</ShortDescription>
    <!-- required -->
    <IsMix>BOOLTYPE</IsMix>
    <!-- required -->
    <IsAssoc>BOOLTYPE</IsAssoc>
    <!-- required -->
    <ChargeType>ENUMTYPE</ChargeType>
    <!-- optional -->
    <Price>PRICETYPE</Price>
    <!-- optional -->
    <PriceUnit>STRTYPE</PriceUnit>
    <!-- optional -->
    <OrderQty>FLOATTYPE</OrderQty>
    <!-- optional -->
    <OrderQtyUnit>STRTYPE</OrderQtyUnit>
    <!-- optional -->
    <LoadQty>FLOATTYPE</LoadQty>
    <!-- optional -->
    <DelvQty>FLOATTYPE</DelvQty>
    <!-- optional -->
    <DelvQtyUnit>STRTYPE</DelvQtyUnit>
    <!-- optional -->
    <AccDelvQty>FLOATTYPE</AccDelvQty>
    <!-- optional -->
    <PreQty>FLOATTYPE</PreQty>
    <!-- optional -->
    <TicketQty>FLOATTYPE</TicketQty>
```

```
      <!-- optional -->
      <TicketQtyUnit>STRTYPE</TicketQtyUnit>
      <!-- optional -->
      <PriceQty>FLOATTYPE</PriceQty>
      <!-- optional -->
      <PriceQtyUnit>STRTYPE</PriceQtyUnit>
      <!-- optional -->
      <Slump>FLOATTYPE</Slump>
      <!-- optional -->
      <TrimPercent>PERCENTTYPE</TrimPercent>
      <!-- optional -->
      <TradeDiscountable>BOOLTYPE</TradeDiscountable>
      <!-- optional -->
      <Taxable>BOOLTYPE</Taxable>
      <!-- optional -->
      <Tax1>AMTTYPE</Tax1>
      <!-- optional -->
      <Tax2>AMTTYPE</Tax2>
      <!-- optional -->
      <Tax3>AMTTYPE</Tax3>
      <!-- optional -->
      <Tax4>AMTTYPE</Tax4>
      <!-- optional -->
      <Tax5>AMTTYPE</Tax5>
      <!-- optional -->
      <TaxAmount>AMTTYPE</TaxAmount>
      <!-- optional -->
      <Amount>AMTTYPE</Amount>
      <!-- optional -->
      <TotalAmount>AMTTYPE</TotalAmount>
      <!-- optional -->
      <AccountLinkCode>STRTYPE</AccountLinkCode>
      <!-- optional -->
      <ItemCategoryID>INTTYPE</ItemCategoryID>
      <!-- optional -->
      <ItemCategoryCode>STRTYPE</ItemCategoryCode>
      <!-- optional -->
      <ItemCategoryAccountLinkCode>STRTYPE</ItemCategoryAccountLinkCode>
      <!-- optional -->
      <ItemTypeID>INTTYPE</ItemTypeID>
      <!-- optional -->
      <ItemTypeName>STRTYPE</ItemTypeName>
      <!-- optional -->
      <Cost>FLOATTYPE</Cost>
      <!-- optional -->
      <CostUnit>STRTYPE</CostUnit>
      <!-- optional -->
      <CostAmount>AMTTYPE</CostAmount>
   </Product>
</Products>
```

```xml
<!-- optional -->
<BatchResult>
  <!-- optional -->
  <TemperWater>FLOATTYPE</TemperWater>
  <!-- optional -->
  <TemperWaterUnit>STRTYPE</TemperWaterUnit>
  <!-- optional -->
  <BatchWeight>
    <!-- optional may repeat-->
    <Material>
      <!-- required -->
      <ItemID>STRTYPE</ItemID>
      <!-- required -->
      <ItemCode>STRTYPE</ItemCode>
      <!-- required -->
      <Name>STRTYPE</Name>
      <!-- required -->
      <BatchTarget>FLOATTYPE</BatchTarget>
      <!-- required -->
      <BatchActual>FLOATTYPE</BatchActual>
      <!-- required -->
      <BatchUnit>STRTYPE</BatchUnit>
      <!-- optional -->
      <MoisturePercent>FLOATTYPE</MoisturePercent>
      <!-- optional -->
      <ItemCategoryID>INTTYPE</ItemCategoryID>
      <!-- optional -->
      <ItemCategoryCode>STRTYPE</ItemCategoryCode>
      <!-- optional -->
      <ProductLink>STRTYPE</ProductLink>
      <!-- optional -->
      <ItemTypeID>INTTYPE</ItemTypeID>
      <!-- optional -->
      <ItemTypeName>STRTYPE</ItemTypeName>
    </Material>
  </BatchWeight>
</BatchResult>
<!-- optional -->
<UserDefinedFields>
  <!-- optional, may rep -->
  <UserDefinedField>
    <!-- required -->
    <Name>STRTYPE</Name>
    <!-- required -->
    <Value>STRTYPE</Value>
  </UserDefinedField>
</UserDefinedFields>
<OrderUserDefinedFields>
  <!-- optional, may rep -->
  <UserDefinedField>
```

```xml
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- required -->
        <Value>STRTYPE</Value>
      </UserDefinedField>
    </OrderUserDefinedFields>
    <!-- optional -->
    <CustomerUserDefinedFields>
      <!-- optional, may rep -->
      <UserDefinedField>
        <!-- required -->
        <Name>STRTYPE</Name>
        <!-- required -->
        <Value>STRTYPE</Value>
      </UserDefinedField>
    </CustomerUserDefinedFields>
    </TicketRet>
  </TicketQueryRs>
 </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTicketQueryRequest(DateTime dtOrderFrom, DateTime dtOrderTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("TicketQueryRq",
                  new XElement("FromOrderDate",dtOrderFrom.ToShortDateString()),
                  new XElement("ToOrderDate",dtOrderTo.ToShortDateString())))));

    return x.ToString();
}
```

⚠ The ticket query does not include the removed tickets by default. If you want to include the removed tickets, make sure to include the following filter in the request:
`<IncludeRemovedTicket>BOOLTYPE</IncludeRemovedTicket>`

➢ Update

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <TicketUpdateRq  requestID="UUIDTYPE">
        <!-- required, may repeat-->
        <TicketUpdate>
           <!-- required -->
           <ID>INTTYPE</ID>
           <!-- optional -->
           <Invoiced>BOOLTYPE</Invoiced>
        </TicketUpdate>
    </TicketUpdateRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TicketUpdateRs  requestID="UUIDTYPE">
        <!-- required, may repeat-->
        <TicketRet>
           <!-- required -->
           <ID>INTTYPE</ID>
           <Action>STRTYPE</Action>
        </TicketRet>
    </TicketUpdateRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTicketUpdateRequest(int ticketId, bool invoiced)
{
    XDocument x = new System.Xml.Linq.XDocument(

        new XDeclaration("1.0", "utf-8", "yes"),
```

```
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),

        new XElement("WebcreteXML",

            new XElement("WebcreteXMLMsgsRq",

                new XElement("TicketUpdateRq",

                    new XElement("TicketUpdate",

                        new XElement("ID", ticketId),

                        new XElement("Invoiced", invoiced))))));

    return x.ToString();

}
```

Truck Status

➢ Query

Request

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--  TruckStatusQueryRq contains 1 optional attribute: 'requestID' -->
    <TruckStatusQueryRq  requestID="UUIDTYPE">
      <!-- BEGIN OR -->
      <!--  opt may reppeat-->
      <ID>INTTYPE</ID>
      <!-- OR -->
      <!--  opt may repeat-->
      <Code>STRTYPE</Code>
      <!-- END OR -->
      <!--  opt may reppeat-->
      <PlantID>INTTYPE</PlantID>
      <!--  opt may repeat-->
      <PlantCode>STRTYPE</PlantCode>
      <!-- optional -->
      <Active>BOOLTYPE</Active>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
      <FromStatusTimeStamp>DATETIMETYPE</FromStatusTimeStamp>
      <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
```

```
        <ToStatusTimeStamp>DATETIMETYPE</ToStatusTimeStamp>
        <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
        <FromLocationUpdateTime>DATETIMETYPE</FromLocationUpdateTime>
        <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
        <ToLocationUpdateTime>DATETIMETYPE</ToLocationUpdateTime>
      </TruckStatusQueryRq>
    </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TruckStatusQueryRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TruckStatusRet>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Code>STRTYPE</Code>
        <!-- optional -->
        <CurrentPlantID>INTTYPE</CurrentPlantID>
        <!-- optional -->
        <CurrentPlantCode>STRTYPE</CurrentPlantCode>
        <!-- optional -->
        <CurrentPlantName>STRTYPE</CurrentPlantName>
        <!-- optional -->
        <CurrentDriverID>INTTYPE</CurrentDriverID>
        <!-- optional -->
        <CurrentDriverCode>STRTYPE</CurrentDriverCode>
        <!-- optional -->
        <CurrentDriverName>STRTYPE</CurrentDriverName>
        <!-- optional -->
        <SignalingUnitCode>STRTYPE</SignalingUnitCode>
        <!-- optional -->
        <Latitude>STRTYPE</Latitude>
        <!-- optional -->
        <Longitude>STRTYPE</Longitude>
        <!-- optional -->
        <LocationUpdateTime>DATETIMETYPE</LocationUpdateTime>
        <!-- optional
TICKETED|LOADING|LOADED|TOJOB|ONJOB|POURING|WASHING|TOPLANT|ATPLANT|INSERVICE|OUTOFSERVICE|CLO
CKEDIN|CLOCKEDOUT|DEADHEAD-->
        <StatusCode>STRTYPE</StatusCode>
        <!-- optional use sortable format like 2009-06-15T13:45:30 -->
```

```xml
        <StatusTimeStamp>DATETIMETYPE</StatusTimeStamp>
        <!-- optional -->
        <TicketID>INTTYPE</TicketID>
        <!-- optional -->
        <ReturnedMaterialQty>FLOATTYPE</ReturnedMaterialQty>
      </TruckStatusRet>
    </TruckStatusQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTruckStatusQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TruckQueryRq", ""))));

    return x.ToString();
}

public string GetTruckStatusQueryByStatusUpdateTimeRequest(DateTime dtUpdateTimeFrom, DateTime dtUpdateTimeTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TruckQueryRq",
                    new XElement("FromStatusTimeStamp", dtUpdateTimeFrom.ToString("s")),
                    new XElement("ToStatusTimeStamp", dtUpdateTimeTo.ToString("s"))))));

    return x.ToString();
}

public string GetTruckStatusQueryByLocationUpdateTimeRequest(DateTime dtUpdateTimeFrom, DateTime dtUpdateTimeTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TruckQueryRq",
```

```
                new XElement("FromLocationUpdateTime", dtUpdateTimeFrom.ToString("s")),
                new XElement("ToLocationUpdateTime", dtUpdateTimeTo.ToString("s")))))));

    return x.ToString();
}
```

➢ Update

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <TruckStatusUpdateRq>
      <!-- required, may repeat-->
      <TruckStatusUpdate>
        <!-- required -->
        <SignalingUnitCode>STRTYPE</SignalingUnitCode>
        <!-- required -->
        <TruckCode>STRTYPE</TruckCode>
        <!-- optional -->
        <DriverCode>STRTYPE</DriverCode>
        <!-- optional -->
        <TicketCode>STRTYPE</TicketCode>
        <!-- required
TICKETED|LOADING|LOADED|TOJOB|ONJOB|POURING|WASHING|TOPLANT|ATPLANT|INSERVICE|OUTOFSERVICE|CLO
CKEDIN|CLOCKEDOUT|DEADHEAD -->
        <StatusCode>STRTYPE</StatusCode>
        <!-- required use sortable format like 2009-06-15T13:45:30 -->
        <StatusTimeStamp>DATETIMETYPE</StatusTimeStamp>
        <!-- optional -->
        <PlantCode>STRTYPE</PlantCode>
        <!-- optional -->
        <Latitude>STRTYPE</Latitude>
        <!-- optional -->
        <Longitude>STRTYPE</Longitude>
        <!-- optional ->
        <ReturnedMaterialQty>FLOATTYPE</ReturnedMaterialQty>
      </TruckStatusUpdate>
    </TruckStatusUpdateRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TruckStatusUpdateRs   statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- required, may repeat-->
      <TruckStatusUpdateRet>
        <!-- required -->
        <SignalingUnitCode>STRTYPE</SignalingUnitCode>
        <!-- required -->
        <TruckCode>STRTYPE</TruckCode>
        <!-- optional -->
        <DriverCode>STRTYPE</DriverCode>
        <!-- optional -->
        <TicketCode>STRTYPE</TicketCode>
        <!-- required
TICKETED|LOADING|LOADED|TOJOB|ONJOB|POURING|WASHING|TOPLANT|ATPLANT|INSERVICE|OUTOFSERVICE|CLO
CKEDIN|CLOCKEDOUT|DEADHEAD -->
        <StatusCode>STRTYPE</StatusCode>
        <!-- required use sortable format like 2009-06-15T13:45:30 -->
        <StatusTimeStamp>DATETIMETYPE</StatusTimeStamp>
        <!-- optional -->
        <PlantCode>STRTYPE</PlantCode>
        <!-- optional -->
        <Latitude>STRTYPE</Latitude>
        <!-- optional -->
        <Longitude>STRTYPE</Longitude>
        <!-- optional →
        <ReturnedMaterialQty>FLOATTYPE</ReturnedMaterialQty>
      </TruckStatusUpdateRet>
    </TruckStatusUpdateRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTruckStatusUpdateRequest(string code, string truckCode, string statusCode,
DateTime statusTimeStamp)
{
    XDocument x = new System.Xml.Linq.XDocument(
     new XDeclaration("1.0", "utf-8", "yes"),
     new XProcessingInstruction("webcretexml", "version=\"1.0\""),
     new XElement("WebcreteXML",
        new XElement("WebcreteXMLMsgsRq",
            new XElement("TruckStatusUpdateRq",
                new XElement("TruckStatusUpdate",
```

```
                new XElement("SignalingUnitCode", code),
                new XElement("TruckCode", truckCode),
                new XElement("StatusCode", statusCode),
                new XElement("StatusTimeStamp", statusTimeStamp.ToString("s")))))))));

    return x.ToString();
}
```

Third party GPS system can use Truck Status Update to sync the truck status to ConcreteGo.

⊗ Signaling Unit configuration is required before the integration. In ConcreteGO, each Signaling Unit is configured for each GPS system. Each truck can only be assigned to one signaling unit. The code for the signaling unit is needed in the api calls.

Truck GPS

➢ Update

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <TruckGpsUpdateRq>
      <!-- required, may repeat-->
      <TruckGpsUpdate>
        <!-- required -->
        <SignalingUnitCode>STRTYPE</SignalingUnitCode>
        <!-- required -->
        <TruckCode>STRTYPE</TruckCode>
        <!-- required -->
        <Latitude>STRTYPE</Latitude>
        <!-- required -->
        <Longitude>STRTYPE</Longitude>
        <!-- optional -->
        <Speed>STRTYPE</Speed>
        <!-- optional -->
        <Heading>STRTYPE</Heading>
        <!-- use sortable format like 2009-06-15T13:45:30 -->
        <GpsTimeStamp>DATETIMETYPE</GpsTimeStamp>
      </TruckGpsUpdate>
    </TruckGpsUpdateRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TruckGpsUpdateRs requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
      <!-- required, may repeat-->
      <TruckGpsUpdateRet>
        <!-- required -->
        <SignalingUnitCode>STRTYPE</SignalingUnitCode>
        <!-- required -->
        <TruckCode>STRTYPE</TruckCode>
        <!-- optional -->
        <Latitude>STRTYPE</Latitude>
        <!-- optional -->
        <Longitude>STRTYPE</Longitude>
        <!-- optional -->
        <Speed>STRTYPE</Speed>
        <!-- optional -->
```

```
    <Heading>STRTYPE</Heading>
    <!-- use sortable format like 2009-06-15T13:45:30 -->
    <GpsTimeStamp>DATETIMETYPE</GpsTimeStamp>
   </TruckGpsUpdateRet>
  </TruckGpsUpdateRs>
 </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTruckGpsUpdateRequest(string code, string truckCode, string latitue, string
longitue, DateTime gpsTimeStamp)
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("TruckGpsUpdateRq",
                  new XElement("TruckGpsUpdate",
                      new XElement("SignalingUnitCode", code),
                      new XElement("TruckCode", truckCode),
                      new XElement("Latitude", latitue),
                      new XElement("Longitude", longitue),
                      new XElement("GpsTimeStamp", gpsTimeStamp.ToString("s")))))))); 

    return x.ToString();
}
```

Truck Status Message

➤ Query

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--    'requestID' is optional -->
    <TruckStatusMessageQueryRq  requestID = "UUIDTYPE">
      <!-- required pass 0 for inital query-->
```

```xml
        <LastTruckStatusMessageID>INTTYPE</LastTruckStatusMessageID>
        <!-- BEGIN OR -->
        <!--   optional can repeat-->
        <TruckID>INTTYPE</TruckID>
        <!-- OR -->
        <!--   optional -->
        <TruckCode>STRTYPE</TruckCode>
        <!-- END OR can repeat-->
        <!-- BEGIN OR -->
        <!--   optional -->
        <SignalingUnitID>INTTYPE</SignalingUnitID>
        <!-- OR -->
        <!--   optional -->
        <SignalingUnitCode>STRTYPE</SignalingUnitCode>
        <!-- END OR -->
        <!-- BEGIN OR -->
        <!--   optional can repeat -->
        <TicketID>INTTYPE</TicketID>
        <!-- OR -->
        <!--   optional can repeat -->
        <TicketCode>STRTYPE</TicketCode>
        <!-- END OR -->
        <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
        <FromStatusBeginTime>DATETIMETYPE</FromStatusBeginTime>
        <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
        <ToStatusBeginTime>DATETIMETYPE</ToStatusBeginTime>
        <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
        <FromUpdateTime>DATETIMETYPE</FromUpdateTime>
        <!-- optional in format yyyy-MM-dd HH:mm:ss.fff-->
        <ToUpdateTime>DATETIMETYPE</ToUpdateTime>
      </TruckStatusMessageQueryRq>
    </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
        <TruckStatusMessageQueryRs requestID="UUIDTYPE" statusCode="INTTYPE"
statusSeverity="STRTYPE" statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TruckStatusMessageRet>
        <!-- required -->
        <TruckStatusMessageID>INTTYPE</TruckStatusMessageID>
         <!-- required -->
        <TruckID>INTTYPE</TruckID>
```

```xml
        <!-- required -->
        <TruckCode>STRTYPE</TruckCode>
         <!-- optional -->
        <TicketID>INTTYPE</TicketID>
        <!-- optional -->
        <TicketCode>STRTYPE</TicketCode>
         <!-- optional -->
        <OrderDate>DATETIMETYPE</OrderDate>
         <!-- optional -->
        <StatusID>INTTYPE</StatusID>
         <!-- optional
TICKETED|LOADING|LOADED|TOJOB|ONJOB|POURING|WASHING|TOPLANT|ATPLANT|INSERVICE|OUTOFSERVICE|CLO
CKEDIN|CLOCKEDOUT|DEADHEAD-->
        <StatusCode>STRTYPE</StatusCode>
         <!-- optional -->
        <StatusDescription>STRTYPE</StatusDescription>
         <!-- optional -->
        <PlantID>INTTYPE</PlantID>
         <!-- optional -->
        <PlantCode>STRTYPE</PlantCode>
         <!-- optional -->
        <PlantName>STRTYPE</PlantName>
         <!-- optional -->
        <SignalingUnitID>INTTYPE</SignalingUnitID>
         <!-- optional -->
        <SignalingUnitCode>STRTYPE</SignalingUnitCode>
         <!-- optional -->
        <StatusBeginTime>DATETIMETYPE</StatusBeginTime>
         <!-- optional -->
        <UpdateTime>DATETIMETYPE</UpdateTime>
         <!-- optional -->
        <StatusDuration>INTTYPE</StatusDuration>
      </TruckStatusMessageRet>
    </TruckStatusMessageQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTruckStatusMessageQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TruckStatusMessageQueryRq",
                 new XElement("LastTruckStatusMessageID", "0")))));
```

```
        return x.ToString();
}

public string GetTruckStatusMessageByStatusBeginTimeQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TruckStatusMessageQueryRq",
                 new XElement("LastTruckStatusMessageID", "0"),
                 new XElement("FromStatusBeginTime", DateTime.Now.AddDays(-3).ToString("s")),
                 new XElement("ToStatusBeginTime", DateTime.Now.ToString("s"))))));

    return x.ToString();
}

public string GetTruckStatusMessageByUpdateTimeQueryRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
        new XDeclaration("1.0", "utf-8", "yes"),
        new XProcessingInstruction("webcretexml", "version=\"1.0\""),
        new XElement("WebcreteXML",
            new XElement("WebcreteXMLMsgsRq",
                new XElement("TruckStatusMessageQueryRq",
                 new XElement("LastTruckStatusMessageID", "0"),
                 new XElement("FromUpdateTime", DateTime.Now.AddDays(-3).ToString("s")),
                 new XElement("ToUpdateTime", DateTime.Now.ToString("s"))))));

    return x.ToString();
}
```

Ticket Message

➢ Query

Request

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
```

```
    <!--    'requestID' is optional -->
    <TicketMessageQueryRq  requestID = "UUIDTYPE">
      <!-- optional -->
      <SignalingUnitCode>STRTYPE</SignalingUnitCode>
      <!-- required, 1/2/3 -->
      <MessageQueueID>INTTYPE</MessageQueueID>
      <!-- required -->
      <LastTicketMessageID>INTTYPE</LastTicketMessageID>
    </TicketMessageQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TicketMessageQueryRs statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE"  retCount = "INTTYPE" iteratorRemainingCount = "INTTYPE" iteratorID =
"UUIDTYPE">
      <!-- optional, may repeat -->
      <TicketMessageRet>
        <TicketMessageID>INTTYPE</TicketMessageID>
        <!-- 1:new ticket 2:update ticket -1: remove ticket -->
        <MessageComand>INTTYPE</MessageComand>
        <OrderDate>DATETIMETYPE</OrderDate>
        <OrderCode>INTTYPE</OrderCode>
        <OrderId>INTTYPE</OrderId>
        <!-- required 0:normal 1:will call 2:Weather Permitting 3:Hold Delivery 4:Completed
5:Wait List-->
        <CurrentStatus>INTTYPE</CurrentStatus>
        <TicketId>INTTYPE</TicketId>
        <TicketCode>STRTYPE</TicketCode>
        <CreatedDate>DATETIMETYPE</CreatedDate>
        <TruckId>INTTYPE</TruckId>
        <TruckCode>STRTYPE</TruckCode>
        <DriverId>INTTYPE</DriverId>
        <DriverCode>STRTYPE</DriverCode>
        <DriverName>STRTYPE</DriverName>
        <CustomerId>INTTYPE</CustomerId>
        <CustomerCode>STRTYPE</CustomerCode>
        <CustomerName>STRTYPE</CustomerName>
        <ProjectId>INTTYPE</ProjectId>
        <ProjectCode>STRTYPE</ProjectCode>
        <ProjectName>STRTYPE</ProjectName>
        <PlantId>INTTYPE</PlantId>
        <PlantCode>STRTYPE</PlantCode>
```

```xml
<CustomerJob>STRTYPE</CustomerJob>
<PurchaseOrder>STRTYPE</PurchaseOrder>
<PocketNumber>STRTYPE</PocketNumber>
<ScheduledOnJobTime>DATETIMETYPE</ScheduledOnJobTime>
<JobNumber>STRTYPE</JobNumber>
<DeliveryAddr1>STRTYPE</DeliveryAddr1>
<DeliveryAddr2>STRTYPE</DeliveryAddr2>
<DeliveryAddr3>STRTYPE</DeliveryAddr3>
<Latitude>FLOATTYPE</Latitude>
<Longitude>FLOATTYPE</Longitude>
<JobsiteRadius>INTTYPE</JobsiteRadius>
<JobsiteRadiusUnit>STRTYPE</JobsiteRadiusUnit>
<Instruction1>STRTYPE</Instruction1>
<Instruction2>STRTYPE</Instruction2>
<Instruction3>STRTYPE</Instruction3>
<Instruction4>STRTYPE</Instruction4>
<Instruction5>STRTYPE</Instruction5>
<Instruction6>STRTYPE</Instruction6>
<ZoneCode>STRTYPE</ZoneCode>
<ZoneName>STRTYPE</ZoneName>
<TaxCode>STRTYPE</TaxCode>
<UsageCode>STRTYPE</UsageCode>
<OrderedByName>STRTYPE</OrderedByName>
<OrderedByPhone>STRTYPE</OrderedByPhone>
<Amount>FLOATTYPE</Amount>
<TaxAmount>FLOATTYPE</TaxAmount>
<TotalAmount>FLOATTYPE</TotalAmount>
<!-- optional -->
<PrintMixWeight>BOOLTYPE</PrintMixWeight>
<ScheduleLoadId>INTTYPE</ScheduleLoadId>
<Products>
  <!-- optional may repeat-->
  <Product>
    <TicketProductId>INTTYPE</TicketProductId>
    <OrderProductId>INTTYPE</OrderProductId>
    <ItemId>INTTYPE</ItemId>
    <ItemCode>STRTYPE</ItemCode>
    <IsMix>BOOLTYPE</IsMix>
    <IsAssoc>BOOLTYPE</IsAssoc>
    <ChargeType>INTTYPE</ChargeType>
    <ItemDescription>STRTYPE</ItemDescription>
    <ItemShortDescription>STRTYPE</ItemShortDescription>
    <Slump>STRTYPE</Slump>
    <Price>FLOATTYPE</Price>
    <PriceUnit>STRTYPE</PriceUnit>
    <DelvQty>FLOATTYPE</DelvQty>
    <DelvQtyUnit>STRTYPE</DelvQtyUnit>
    <OrderQty>FLOATTYPE</OrderQty>
    <OrderQtyUnit>STRTYPE</OrderQtyUnit>
    <AccDelvQty>FLOATTYPE</AccDelvQty>
```

```
        <PriceQty>FLOATTYPE</PriceQty>
        <PriceQtyUnit>STRTYPE</PriceQtyUnit>
        <Amount>FLOATTYPE</Amount>
        <TaxAmount>FLOATTYPE</TaxAmount>
        <TotalAmount>FLOATTYPE</TotalAmount>
      </Product>
    </Products>
  </TicketMessageRet>
 </TicketMessageQueryRs>
 </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTicketMessageQueryRequest(string code, string messageQueueID, string
LastTicketMessageID)
{
    XDocument x = new System.Xml.Linq.XDocument(
     new XDeclaration("1.0", "utf-8", "yes"),
     new XProcessingInstruction("webcretexml", "version=\"1.0\""),
     new XElement("WebcreteXML",
         new XElement("WebcreteXMLMsgsRq",
             new XElement("TicketMessageQueryRq",
                  new XElement("SignalingUnitCode", code),
                  new XElement("MessageQueueID", messageQueueID),
                  new XElement("LastTicketMessageID", LastTicketMessageID)))));

    return x.ToString();
}
```

Ticket Message is a queued message that can be used to retrieve the new tickets. The ticket message will be removed from the queue as soon as the message is retrieved through api.

Ticket Batch Result Message

➢ Query

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
    <!--    'requestID' is optional -->
    <TicketBatchResultMessageQueryRq  requestID = "UUIDTYPE">
      <!-- required, 1/2/3 -->
      <MessageQueueID>INTTYPE</MessageQueueID>
      <!-- required -->
      <LastTicketBatchResultMessageID>INTTYPE</LastTicketBatchResultMessageID>
    </TicketBatchResultMessageQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <!--    'requestID' is optional   -->
    <!--    'statusCode' is required -->
    <!--    'statusSeverity' is required -->
    <!--    'statusMessage' is optional -->
    <TicketBatchResultMessageQueryRs requestID="UUIDTYPE" statusCode="INTTYPE"
statusSeverity="STRTYPE" statusMessage="STRTYPE">
      <!-- optional, may repeat-->
      <TicketBatchResultMessageRet>
        <!-- required -->
        <BatchResultMessageID>INTTYPE</BatchResultMessageID>
        <!-- required -->
        <TicketID>INTTYPE</TicketID>
        <!-- required -->
        <TicketCode>STRTYPE</TicketCode>
        <!-- optional -->
        <TruckCode>STRTYPE</TruckCode>
        <!-- required -->
        <LoadSize>FLOATTYPE</LoadSize>
        <!-- required -->
        <MixCode>STRTYPE</MixCode>
        <!-- optional -->
        <QuantityOnBoard>FLOATTYPE</QuantityOnBoard>
        <!-- required -->
        <LoadTime>DATETIMETYPE</LoadTime>
        <!-- optional -->
```

```xml
<DriverName>STRTYPE</DriverName>
<!-- optional -->
<SpecificGravityofSlurry>FLOATTYPE</SpecificGravityofSlurry>
<!-- optional -->
<ActivityofSlurry>FLOATTYPE</ActivityofSlurry>
<!-- optional -->
<SubstitutionofSlurry>FLOATTYPE</SubstitutionofSlurry>
<!-- optional -->
<TempWater>FLOATTYPE</TempWater>
<!-- optional -->
<TemperWaterUnits>STRTYPE</TemperWaterUnits>
<!-- optional -->
<Metric>BOOLTYPE</Metric>
<!-- required -->
<OrderDate>DATETIMETYPE</OrderDate>
<!-- required -->
<OrderCode>STRTYPE</OrderCode>
<!-- required -->
<CustomerName>STRTYPE</CustomerName>
<!-- required -->
<ProjectName>STRTYPE</ProjectName>
<!-- required -->
<PlantCode>STRTYPE</PlantCode>
<!-- required -->
<TicketPrintedTime>DATETIMETYPE</TicketPrintedTime>
<!-- required -->
<TicketLoadTime>DATETIMETYPE</TicketLoadTime>
<!-- required -->
<MixDescription>STRTYPE</MixDescription>
<!-- required -->
<MixUnit>STRTYPE</MixUnit>
<!-- required -->
<BatchWeights>
  <!-- optional, may repeat-->
  <Material>
    <!-- required →
    <ItemID>STRTYPE</ItemID>
    <!-- required -->
    <ItemCode>STRTYPE</ItemCode>
    <!-- required -->
    <Name>STRTYPE</Name>
    <!-- required -->
    <Unit>STRTYPE</Unit>
    <!-- required -->
    <Target>FLOATTYPE</Target>
    <!-- required -->
    <Actual>FLOATTYPE</Actual>
    <!-- optional -->
    <Moisture>FLOATTYPE</Moisture>
  </Material>
```

```
        </BatchWeights>
      </TicketBatchResultMessageRet>
    </TicketBatchResultMessageQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetTicketBatchResultMessageQueryRequest(string messageQueueID, string
lastTicketBatchResultMessageID)
{
    XDocument x = new System.Xml.Linq.XDocument(
     new XDeclaration("1.0", "utf-8", "yes"),
     new XProcessingInstruction("webcretexml", "version=\"1.0\""),
     new XElement("WebcreteXML",
         new XElement("WebcreteXMLMsgsRq",
             new XElement("TicketBatchResultMessageQueryRq",
                     new XElement("MessageQueueID", messageQueueID),
                     new XElement("LastTicketBatchResultMessageID",
lastTicketBatchResultMessageID))))));

    return x.ToString();
}
```

Ticket Batch Result Message is a queued message that can be used to retrieve the new ticket batch result. The ticket batch result message will be removed from the queue as soon as the message is retrieved through api.

Invoice

➢ Query

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
```

```xml
    <!--    'requestID' is optional -->
    <InvoiceQueryRq  requestID="UUIDTYPE" metaData="ENUMTYPE" iterator="ENUMTYPE"
iteratorID="UUIDTYPE">
        <!-- BEGIN OR-->
        <!-- optional, may repeat-->
        <ID>INTTYPE</ID>
        <!-- OR -->
        <!-- optional, may repeat-->
        <InvoiceNumber>STRTYPE</InvoiceNumber>
        <!-- OR -->
        <!-- optional, may repeat-->
        <CustomerID>STRTYPE</CustomerID>
        <!-- OR -->
        <!-- optional, may repeat-->
        <CustomerCode>STRTYPE</CustomerCode>
        <!-- OR -->
        <!-- optional, may repeat-->
        <CustomerName>STRTYPE</CustomerName>
        <!-- OR -->
        <!-- optional, may repeat-->
        <DivisionID>STRTYPE</DivisionID>
        <!-- OR -->
        <!-- optional, may repeat-->
        <DivisionCode>STRTYPE</DivisionCode>
        <!-- END OR -->
        <!-- optional -->
        <FromInvoiceDate>DATETIMETYPE</FromInvoiceDate>
        <!-- optional -->
        <ToInvoiceDate>DATETIMETYPE</ToInvoiceDate>
        <!-- optional -->
        <ListOnly>BOOLTYPE</ListOnly>
        <!-- optional -->
        <IncludeRemovedInvoice>BOOLTYPE</IncludeRemovedInvoice>
    </InvoiceQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <InvoiceQueryRs  requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE"  retCount = "INTTYPE" iteratorRemainingCount = "INTTYPE" iteratorID =
"UUIDTYPE">
        <!-- optional, may repeat-->
        <InvoiceRet>
```

```
<!-- required -->
<ID>INTTYPE</ID>
<!-- required -->
<InvoiceNumber>STRTYPE</InvoiceNumber>
<!-- required -->
<InvoiceDate>STRTYPE</InvoiceDate>
<!-- required -->
<OrderDate>STRTYPE</OrderDate>
<!-- required -->
<CustomerID>INTTYPE</CustomerID>
<!-- required -->
<CustomerCode>STRTYPE</CustomerCode>
<!-- required -->
<CustomerName>STRTYPE</CustomerName>
<!-- required -->
<DivisionID>INTTYPE</DivisionID>
<!-- required -->
<DivisionCode>STRTYPE</DivisionCode>
<!-- required -->
<ProjectID>INTTYPE</ProjectID>
<!-- required -->
<ProjectCode>STRTYPE</ProjectCode>
<!-- required -->
<ProjectName>STRTYPE</ProjectName>
<!-- required -->
<JobNumber>STRTYPE</JobNumber>
<!-- required -->
<PurchaseOrder>STRTYPE</PurchaseOrder>
<!-- optional -->
<DeliveryAddress>
  <!-- optional -->
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
  <Addr3>STRTYPE</Addr3>
</DeliveryAddress>
<!-- optional -->
<InvoiceAddress>
  <!-- optional -->
  <Addr1>STRTYPE</Addr1>
  <!-- optional -->
  <Addr2>STRTYPE</Addr2>
  <!-- optional -->
  <City>STRTYPE</City>
  <!-- optional -->
  <State>STRTYPE</State>
  <!-- optional -->
  <PostalCode>STRTYPE</PostalCode>
  <!-- optional -->
```

```
    <Country>STRTYPE</Country>
</InvoiceAddress>
<!-- optional -->
<PaymentTerm>
  <!-- optional -->
  <ID>STRTYPE</ID>
  <!-- optional -->
  <Code>STRTYPE</Code>
  <!-- optional -->
  <Name>STRTYPE</Name>
  <!-- optional -->
  <DiscountType>STRTYPE</DiscountType>
  <!-- optional -->
  <Description>STRTYPE</Description>
  <!-- optional -->
  <NetDueDays>STRTYPE</NetDueDays>
  <!-- optional -->
  <Discount>STRTYPE</Discount>
  <!-- optional -->
  <DiscountPayDays>STRTYPE</DiscountPayDays>
</PaymentTerm>
<!-- optional -->
<TicketCodes>STRTYPE</TicketCodes>
<!-- optional -->
<MessageText>STRTYPE</MessageText>
<!-- optional -->
<AccountingCategoryCode>STRTYPE</AccountingCategoryCode>
<!-- optional -->
<PricingPlantCode>STRTYPE</PricingPlantCode>
<!-- optional -->
<CustomerJob>STRTYPE</CustomerJob>
<!-- optional -->
<IsRemoved>STRTYPE</IsRemoved>
<!-- optional -->
<RemoveReason>STRTYPE</RemoveReason>
<!-- optional -->
<TaxCode>STRTYPE</TaxCode>
<!-- optional -->
<TaxCodeDescription>STRTYPE</TaxCodeDescription>
<!-- optional -->
<TaxCodeShortDescription>STRTYPE</TaxCodeShortDescription>

<!-- required -->
<Taxable>BOOLTYPE</Taxable>
<!-- optional -->
<PaymentForm>STRTYPE</PaymentForm>
<!-- optional -->
<Amount>AMTTYPE</Amount>
 <!-- optional -->
 <TaxAmount>AMTTYPE</TaxAmount>
```

```xml
<!-- optional -->
<TotalAmount>AMTTYPE</TotalAmount>
<!-- optional -->
<Products>
  <!-- optional may repeat-->
  <Product>
  <!-- optional -->
  <ProductID>INTTYPE</ProductID>
  <!-- optional -->
  <OrderID>INTTYPE</OrderID>
  <!-- optional -->
  <OrderCode>STRTYPE</OrderCode>
  <!-- optional -->
  <TicketID>INTTYPE</TicketID>
  <!-- optional -->
  <TicketCode>STRTYPE</TicketCode>
  <!-- optional -->
  <TicketTime>STRTYPE</TicketTime>
  <!-- optional -->
  <TicketProductID>INTTYPE</TicketProductID>
  <!-- optional -->
  <ItemID>INTTYPE</ItemID>
  <!-- optional -->
  <ItemCode>STRTYPE</ItemCode>
  <!-- optional -->
  <ItemDescription>STRTYPE</ItemDescription>
  <!-- optional -->
  <AccountLinkCode>STRTYPE</AccountLinkCode>
  <!-- optional -->
  <IsMix>BOOLTYPE</IsMix>
  <!-- optional -->
  <PriceQty>STRTYPE</PriceQty>
  <!-- optional -->
  <Price>STRTYPE</Price>
  <!-- optional -->
  <PriceQtyUnit>STRTYPE</PriceQtyUnit>
  <!-- optional -->
  <OrderQtyUnit>STRTYPE</OrderQtyUnit>
  <!-- required -->
  <Taxable>BOOLTYPE</Taxable>
  <!-- optional -->
  <Amount>AMTTYPE</Amount>
  <!-- optional -->
  <TaxAmount>AMTTYPE</TaxAmount>
  <!-- optional -->
  <TotalAmount>AMTTYPE</TotalAmount>
  <!-- optional -->
  <TicketAmount>AMTTYPE</TicketAmount>
  <!-- optional -->
  <TicketTaxAmount>AMTTYPE</TicketTaxAmount>
```

```
            <!-- optional -->
            <TicketTotalAmount>AMTTYPE</TicketTotalAmount>
             </Product>
            </Products>
        </InvoiceRet>
      </InvoiceQueryRs>
    </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetInvoiceQueryByInvoiceDateRequest(DateTime dtInvoiceFrom, DateTime
      dtInvoiceTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("InvoiceQueryRq",
                  new XElement("FromInvoiceDate", dtInvoiceFrom.ToShortDateString()),
                  new XElement("ToInvoiceDate", dtInvoiceTo.ToShortDateString())))));

    return x.ToString();
}
```

Inventory Transaction

➢ Query

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
      <!--  InventoryQueryRq contains 1 optional attribute: 'requestID' -->
      <InventoryTransactionQueryRq  requestID="UUIDTYPE">
              <!-- BEGIN OR-->
              <!-- optional, may repeat-->
              <ID>INTTYPE</ID>
              <!-- OR -->
```

```
            <!-- optional, may repeat-->
            <DocumentNumber>STRTYPE</DocumentNumber>
            <!-- END OR -->
            <!-- BEGIN OR-->
            <!-- optional, may repeat-->
            <LocationID>STRTYPE</LocationID>
            <!-- OR -->
            <!-- optional, may repeat-->
            <LocationCode>STRTYPE</LocationCode>
            <!-- END OR -->
            <!-- optional -->
            <FromTransactionDate>DATETIMETYPE</FromTransactionDate>
            <!-- optional -->
            <ToTransactionDate>DATETIMETYPE</ToTransactionDate>
            <!-- optional, may repeat, can be
RAWMATERIALRECEIPT|PURCHASEORDERRECEIPT|USAGE|TRANSFER|ITEMCONVERSION|QUANTITYADJUSTMENT|-->
            <TransactionType>STRTYPE</TransactionType>
            <!-- optional, may repeat, can be
QUANTITYPOSTED|RELEASED|ONHOLD|POSTED|ABORTEDORREJECTED-->
            <PostStatus>STRTYPE</PostStatus>
        </InventoryTransactionQueryRq>
    </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <!--     'requestID' is optional    -->
    <!--     'statusCode' is required -->
    <!--     'statusSeverity' is required -->
    <!--     'statusMessage' is optional -->
    <InventoryTransactionQueryRs   requestID="UUIDTYPE" statusCode="INTTYPE"
statusSeverity="STRTYPE" statusMessage="STRTYPE">
            <!-- optional -->
            <RawMaterialReceipts>
                <!-- optional -->
                <Transaction>
                        <!-- required -->
                        <TransactionID>INTTYPE</TransactionID>
                        <!-- required RawMaterialReceipt-->
                        <TransactionType>STRTYPE</TransactionType>
                        <!-- required -->
                        <TransactionHeaderID>INTTYPE</TransactionHeaderID>
                        <!-- required -->
                        <TransactionDate>DATETIMETYPE</TransactionDate>
```

```xml
                                    <!-- required -->
                                    <SeqNumber>INTTYPE</SeqNumber>
                                    <!-- required -->
                                    <DocumentNumber>INTTYPE</DocumentNumber>
                                    <!-- required -->
                                    <LocationID>INTTYPE</LocationID>
                                    <!-- required -->
                                    <LocationCode>STRTYPE</LocationCode>
                                    <!-- required -->
                                    <LocationName>STRTYPE</LocationName>
                                    <!-- required -->
                                    <ItemID>INTTYPE</ItemID>
                                    <!-- required -->
                                    <ItemCode>STRTYPE</ItemCode>
                                    <!-- required -->
                                    <ItemDescription>STRTYPE</ItemDescription>
                                    <!-- optional -->
                                    <TicketCode>STRTYPE</TicketCode>
                                    <!-- required -->
                                    <Quantity>FLOATTYPE</Quantity>
                                    <!-- required -->
                                    <UnitID>INTTYPE</UnitID>
                                    <!-- required -->
                                    <UnitName>STRTYPE</UnitName>
                                    <!-- optional -->
                                    <MaterialVendorID>INTTYPE</MaterialVendorID>
                                    <!-- optional -->
                                    <MaterialVendorName>STRTYPE</MaterialVendorName>
                                    <!-- optional -->
                                    <HaulVendorID>INTTYPE</HaulVendorID>
                                    <!-- optional -->
                                    <HaulVendorName>STRTYPE</HaulVendorName>
                                    <!-- optional -->
                                    <HaulerID>INTTYPE</HaulerID>
                                    <!-- optional -->
                                    <HaulerCode>STRTYPE</HaulerCode>
                                    <!-- optional -->
                                    <FreightMethodID>INTTYPE</FreightMethodID>
                                    <!-- optional -->
                                    <FreightMethodCode>STRTYPE</FreightMethodCode>
                                    <!-- optional -->
                                    <FreightMethodDescription>STRTYPE</FreightMethodDescription>
                                    <!-- optional -->

<FreightMethodShortDescription>STRTYPE</FreightMethodShortDescription>
                                    <!-- required -->
                                    <CreateTime>DATETIMETYPE</CreateTime>
                                    <!-- required
QUANTITYPOSTED|RELEASED|ONHOLD|POSTED|ABORTEDORREJECTED-->
                                    <PostStatus>STRTYPE</PostStatus>
```

```
                </Transaction>
            </RawMaterialReceipts>
            <!-- optional -->
            <Usages>
                <!-- optional -->
                <Transaction>
                    <!-- required -->
                    <TransactionID>INTTYPE</TransactionID>
                    <!-- required Usage-->
                    <TransactionType>STRTYPE</TransactionType>
                    <!-- required -->
                    <TransactionHeaderID>INTTYPE</TransactionHeaderID>
                    <!-- required -->
                    <TransactionDate>DATETIMETYPE</TransactionDate>
                    <!-- required -->
                    <SeqNumber>INTTYPE</SeqNumber>
                    <!-- required -->
                    <DocumentNumber>INTTYPE</DocumentNumber>
                    <!-- required -->
                    <LocationID>INTTYPE</LocationID>
                    <!-- required -->
                    <LocationCode>STRTYPE</LocationCode>
                    <!-- required -->
                    <LocationName>STRTYPE</LocationName>
                    <!-- required -->
                    <ItemID>INTTYPE</ItemID>
                    <!-- required -->
                    <ItemCode>STRTYPE</ItemCode>
                    <!-- required -->
                    <ItemDescription>STRTYPE</ItemDescription>
                    <!-- optional -->
                    <TicketID>INTTYPE</TicketID>
                    <!-- optional -->
                    <TicketCode>STRTYPE</TicketCode>
                    <!-- required -->
                    <Quantity>FLOATTYPE</Quantity>
                    <!-- required -->
                    <UnitID>INTTYPE</UnitID>
                    <!-- required -->
                    <UnitName>STRTYPE</UnitName>
                    <!-- required Sales|Constituent-->
                    <UsageType>STRTYPE</UsageType>
                    <!-- required -->
                    <CreateTime>DATETIMETYPE</CreateTime>
                    <!-- required
QUANTITYPOSTED|RELEASED|ONHOLD|POSTED|ABORTEDORREJECTED-->
                    <PostStatus>STRTYPE</PostStatus>
                </Transaction>
            </Usages>
            <!-- optional -->
```

```
            <QuantityAdjustments>
                    <!-- optional -->
                    <Transaction>
                            <!-- required -->
                            <TransactionID>INTTYPE</TransactionID>
                            <!-- required QuantityAdjustment-->
                            <TransactionType>STRTYPE</TransactionType>
                            <!-- required -->
                            <TransactionHeaderID>INTTYPE</TransactionHeaderID>
                            <!-- required -->
                            <TransactionDate>DATETIMETYPE</TransactionDate>
                            <!-- required -->
                            <SeqNumber>INTTYPE</SeqNumber>
                            <!-- required -->
                            <DocumentNumber>INTTYPE</DocumentNumber>
                            <!-- required -->
                            <LocationID>INTTYPE</LocationID>
                            <!-- required -->
                            <LocationCode>STRTYPE</LocationCode>
                            <!-- required -->
                            <LocationName>STRTYPE</LocationName>
                            <!-- required -->
                            <ItemID>INTTYPE</ItemID>
                            <!-- required -->
                            <ItemCode>STRTYPE</ItemCode>
                            <!-- required -->
                            <ItemDescription>STRTYPE</ItemDescription>
                            <!-- optional -->
                            <TicketID>INTTYPE</TicketID>
                            <!-- optional -->
                            <TicketCode>STRTYPE</TicketCode>
                            <!-- required -->
                            <Quantity>FLOATTYPE</Quantity>
                            <!-- required -->
                            <UnitID>INTTYPE</UnitID>
                            <!-- required -->
                            <UnitName>STRTYPE</UnitName>
                            <!-- required AdjustmentToQuantity|AdjustedQuantity-->
                            <AdjustmentType>STRTYPE</AdjustmentType>
                            <!-- required -->
                            <CreateTime>DATETIMETYPE</CreateTime>
                            <!-- required
QUANTITYPOSTED|RELEASED|ONHOLD|POSTED|ABORTEDORREJECTED-->
                            <PostStatus>STRTYPE</PostStatus>
                    </Transaction>
            </QuantityAdjustments>
        </InventoryTransactionQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetInventoryTransactionQueryUsagesRequest(DateTime dtTransactionFrom, DateTime dtTransactionTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("InventoryTransactionQueryRq",
                  new XElement("TransactionType", "USAGE"),
                  new XElement("FromTransactionDate", dtTransactionFrom.ToShortDateString()),
                  new XElement("ToTransactionDate", dtTransactionTo.ToShortDateString())))));

    return x.ToString();
}

public string GetInventoryTransactionQueryRawMaterialReceiptsRequest(DateTime dtTransactionFrom, DateTime dtTransactionTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("InventoryTransactionQueryRq",
                  new XElement("TransactionType", "RAWMATERIALRECEIPT"),
                  new XElement("FromTransactionDate", dtTransactionFrom.ToShortDateString()),
                  new XElement("ToTransactionDate", dtTransactionTo.ToShortDateString())))));

    return x.ToString();
}

public string GetInventoryTransactionQueryQuantityAdjustmentsRequest(DateTime dtTransactionFrom, DateTime dtTransactionTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("InventoryTransactionQueryRq",
                  new XElement("TransactionType", "QUANTITYADJUSTMENT"),
                  new XElement("FromTransactionDate", dtTransactionFrom.ToShortDateString()),
                  new XElement("ToTransactionDate", dtTransactionTo.ToShortDateString())))));

    return x.ToString();
}
```

CloudBatch Inventory

➢ Query

Request

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRq>
      <!--  BatchInventoryQueryRq contains 1 optional attribute: 'requestID' -->
      <BatchInventoryQueryRq  requestID="UUIDTYPE">
            <!-- BEGIN OR-->
            <!-- optional, may repeat-->
            <ItemID>INTTYPE</ItemID>
            <!-- OR -->
            <!-- optional, may repeat-->
            <ItemCode>STRTYPE</ItemCode>
            <!-- END OR -->
            <!-- BEGIN OR-->
            <!-- optional, may repeat-->
            <PlantID>STRTYPE</PlantID>
            <!-- OR -->
            <!-- optional, may repeat-->
            <PlantCode>STRTYPE</PlantCode>
            <!-- END OR -->
            <!-- BEGIN OR-->
            <!-- optional, may repeat-->
            <LocationID>STRTYPE</LocationID>
            <!-- OR -->
            <!-- optional, may repeat-->
            <LocationCode>STRTYPE</LocationCode>
            <!-- END OR -->
            <!-- optional -->
            <FromTransactionDate>DATETIMETYPE</FromTransactionDate>
            <!-- optional -->
            <ToTransactionDate>DATETIMETYPE</ToTransactionDate>
            <!-- optional, may repeat, can be SHIPMENT|USAGE|ADJUSTMENT|RECONCILIATION -->
            <TransactionType>STRTYPE</TransactionType>
      </BatchInventoryQueryRq>
  </WebcreteXMLMsgsRq>
</WebcreteXML>
```

Response

```xml
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <!--      'requestID' is optional    -->
    <!--      'statusCode' is required -->
    <!--      'statusSeverity' is required -->
    <!--      'statusMessage' is optional -->
    <BatchInventoryQueryRs   requestID="UUIDTYPE" statusCode="INTTYPE" statusSeverity="STRTYPE"
statusMessage="STRTYPE">
        <BatchInventoryRet>
                <!-- required →
                <ItemID>INTTYPE</ItemID>
                <!-- required -->
                <ItemCode>STRTYPE</ItemCode>
                <!-- optional -->
                <PlantID>INTTYPE</PlantID>
                <!-- optional -->
                <PlantCode>STRTYPE</PlantCode>
                <!-- optional -->
                <LocationID>INTTYPE</LocationID>
                <!-- optional -->
                <LocationCode>STRTYPE</LocationCode>
                <!-- required -->
                <CurrentBalance>FLOATTYPE</CurrentBalance>
                <!-- required -->
                <UnitID>INTTYPE</UnitID>
                <!-- required -->
                <UnitName>STRTYPE</UnitName>
                <!-- optional-->
                <Shipments>
                  <!-- optional may repeat-->
                  <Transaction>
                        <!-- required -->
                        <ID>INTTYPE</ID>
                        <!-- required -->
                        <Date>DATETIMETYPE</Date>
                        <!-- required SHIPMENT-->
                        <Type>STRTYPE</Type>
                        <!-- required -->
                        <Quantity>FLOATTYPE</Quantity>
                        <!-- required -->
                        <PreviousBalance>FLOATTYPE</PreviousBalance>
                        <!-- optional -->
                        <Ticket>STRTYPE</Ticket>
                        <!-- optional -->
                        <Truck>STRTYPE</Truck>
```

```xml
      <!-- optional -->
      <Hauler>STRTYPE</Hauler>
      <!-- optional -->
      <Comment>STRTYPE</Comment>
      <!-- required -->
      <CreateDate>DATETIMETYPE</CreateDate>
      <!-- optional -->
      <VendorID>INTTYPE</VendorID>
      <!-- optional -->
      <VendorCode>STRTYPE</VendorCode>
      <!-- optional -->
      <VendorName>STRTYPE</VendorName>
    </Transaction>
</Shipments>
<!-- optional -->
<Usages>
  <!-- optional may repeat-->
  <Transaction>
      <!-- required -->
      <ID>INTTYPE</ID>
      <!-- required -->
      <Date>DATETIMETYPE</Date>
      <!-- required USAGE -->
      <Type>STRTYPE</Type>
      <!-- required -->
      <Quantity>FLOATTYPE</Quantity>
      <!-- required -->
      <PreviousBalance>FLOATTYPE</PreviousBalance>
      <!-- optional -->
      <Ticket>STRTYPE</Ticket>
      <!-- optional -->
      <Truck>STRTYPE</Truck>
      <!-- optional -->
      <Hauler>STRTYPE</Hauler>
      <!-- optional -->
      <Comment>STRTYPE</Comment>
      <!-- required -->
      <CreateDate>DATETIMETYPE</CreateDate>
      <!-- optional -->
      <VendorID>INTTYPE</VendorID>
      <!-- optional -->
      <VendorCode>STRTYPE</VendorCode>
      <!-- optional -->
      <VendorName>STRTYPE</VendorName>
    </Transaction>
</Usages>
<!-- optional -->
<Adjustments>
  <!-- optional may repeat-->
  <Transaction>
```

```
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Date>DATETIMETYPE</Date>
        <!-- required ADJUSTMENT-->
        <Type>STRTYPE</Type>
        <!-- required -->
        <Quantity>FLOATTYPE</Quantity>
        <!-- required -->
        <PreviousBalance>FLOATTYPE</PreviousBalance>
        <!-- optional -->
        <Ticket>STRTYPE</Ticket>
        <!-- optional -->
        <Truck>STRTYPE</Truck>
        <!-- optional -->
        <Hauler>STRTYPE</Hauler>
        <!-- optional -->
        <Comment>STRTYPE</Comment>
        <!-- required -->
        <CreateDate>DATETIMETYPE</CreateDate>
        <!-- optional -->
        <VendorID>INTTYPE</VendorID>
        <!-- optional -->
        <VendorCode>STRTYPE</VendorCode>
        <!-- optional -->
        <VendorName>STRTYPE</VendorName>
    </Transaction>
</Adjustments>
<!-- optional -->
<Reconciliations>
  <!-- optional may repeat-->
  <Transaction>
        <!-- required -->
        <ID>INTTYPE</ID>
        <!-- required -->
        <Date>DATETIMETYPE</Date>
        <!-- required RECONCILIATION-->
        <Type>STRTYPE</Type>
        <!-- required -->
        <Quantity>FLOATTYPE</Quantity>
        <!-- required -->
        <PreviousBalance>FLOATTYPE</PreviousBalance>
        <!-- optional -->
        <Ticket>STRTYPE</Ticket>
        <!-- optional -->
        <Truck>STRTYPE</Truck>
        <!-- optional -->
        <Hauler>STRTYPE</Hauler>
        <!-- optional -->
        <Comment>STRTYPE</Comment>
```

```xml
            <!-- required -->
            <CreateDate>DATETIMETYPE</CreateDate>
            <!-- optional -->
            <VendorID>INTTYPE</VendorID>
            <!-- optional -->
            <VendorCode>STRTYPE</VendorCode>
            <!-- optional -->
            <VendorName>STRTYPE</VendorName>
          </Transaction>
        </Reconciliations>
      </BatchInventoryRet>
    </BatchInventoryQueryRs>
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

C# example

```csharp
public string GetBatchInventoryQueryCurrentBalanceRequest()
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("BatchInventoryQueryRq"))));

    return x.ToString();
}

public string GetBatchInventoryQueryShipmentsRequest(DateTime dtTransactionFrom, DateTime
dtTransactionTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("BatchInventoryQueryRq",
                  new XElement("TransactionType", "SHIPMENT"),
                  new XElement("FromTransactionDate", dtTransactionFrom.ToShortDateString()),
                  new XElement("ToTransactionDate", dtTransactionTo.ToShortDateString())))));

    return x.ToString();
}

public string GetBatchInventoryQueryShipmentsForPlantItemRequest(DateTime dtTransactionFrom,
DateTime dtTransactionTo, string plantCode, string itemCode)
{
```

```csharp
        XDocument x = new System.Xml.Linq.XDocument(
          new XDeclaration("1.0", "utf-8", "yes"),
          new XProcessingInstruction("webcretexml", "version=\"1.0\""),
          new XElement("WebcreteXML",
              new XElement("WebcreteXMLMsgsRq",
                  new XElement("BatchInventoryQueryRq",
                      new XElement("TransactionType", "SHIPMENT"),
                      new XElement("PlantCode", plantCode),
                      new XElement("ItemCode", itemCode),
                      new XElement("FromTransactionDate", dtTransactionFrom.ToShortDateString()),
                      new XElement("ToTransactionDate", dtTransactionTo.ToShortDateString())))));

    return x.ToString();
}

public string GetBatchInventoryQueryUsagesRequest(DateTime dtTransactionFrom, DateTime
dtTransactionTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("BatchInventoryQueryRq",
                  new XElement("TransactionType", "USAGE"),
                  new XElement("FromTransactionDate", dtTransactionFrom.ToShortDateString()),
                  new XElement("ToTransactionDate", dtTransactionTo.ToShortDateString())))));

    return x.ToString();
}

public string GetBatchInventoryQueryAdjustmentsRequest(DateTime dtTransactionFrom, DateTime
dtTransactionTo)
{
    XDocument x = new System.Xml.Linq.XDocument(
      new XDeclaration("1.0", "utf-8", "yes"),
      new XProcessingInstruction("webcretexml", "version=\"1.0\""),
      new XElement("WebcreteXML",
          new XElement("WebcreteXMLMsgsRq",
              new XElement("BatchInventoryQueryRq",
                  new XElement("TransactionType", "ADJUSTMENT"),
                  new XElement("FromTransactionDate", dtTransactionFrom.ToShortDateString()),
                  new XElement("ToTransactionDate", dtTransactionTo.ToShortDateString())))));

    return x.ToString();
}

public string GetBatchInventoryQueryReconciliationsRequest(DateTime dtTransactionFrom,
DateTime dtTransactionTo)
{
```

```
XDocument x = new System.Xml.Linq.XDocument(
  new XDeclaration("1.0", "utf-8", "yes"),
  new XProcessingInstruction("webcretexml", "version=\"1.0\""),
  new XElement("WebcreteXML",
      new XElement("WebcreteXMLMsgsRq",
          new XElement("BatchInventoryQueryRq",
              new XElement("TransactionType", "RECONCILIATION"),
              new XElement("FromTransactionDate", dtTransactionFrom.ToShortDateString()),
              new XElement("ToTransactionDate", dtTransactionTo.ToShortDateString())))));

    return x.ToString();
}
```

Exception Handling

When there is an exception happened, the api will return the error message on the returned xml response, for example

```
<?xml version="1.0"?>
<?webcretexml version="1.0"?>
<WebcreteXML>
  <WebcreteXMLMsgsRs>
    <TicketMessageQueryRs statusCode="1000" statusSeverity="Error"
statusMessage="Exception:Can not find field MessageQueueID." />
  </WebcreteXMLMsgsRs>
</WebcreteXML>
```

Command Line Interface (CLI)

ConcreteGo Command Line Interface (CLI) is built on top of the ConcreteGo Soap Web Service. The main purpose of this interface is to let customers do the application integrations by just using the Powershell scripts without complicated programming work.

➢ How it works

Here is an example of integration with viewpoint
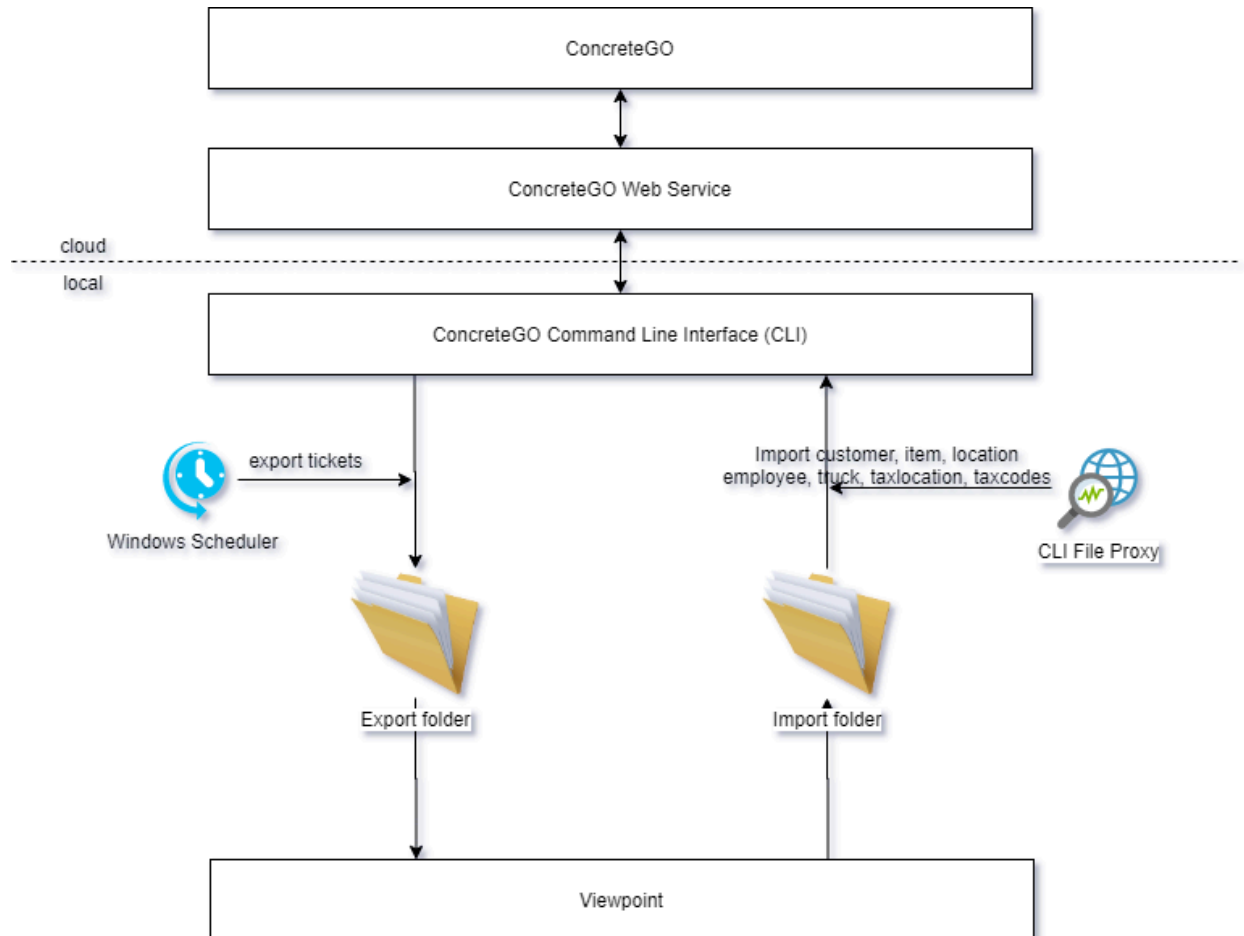
The integration leverages the ConcreteGo Web Service API. It built the ConcreteGo Command Line Interface (CLI) to enable integration capabilities of using Powershell scripts.

We use the Windows Scheduler to run the ticket export script daily to export the tickets into a folder per file per plant.

ConcreteGo Command Line Interface (CLI) File Proxy is a program running as a windows service that monitors the Import folder and runs the corresponding power script to import the file data into ConcreteGo automatically.

Data Flow
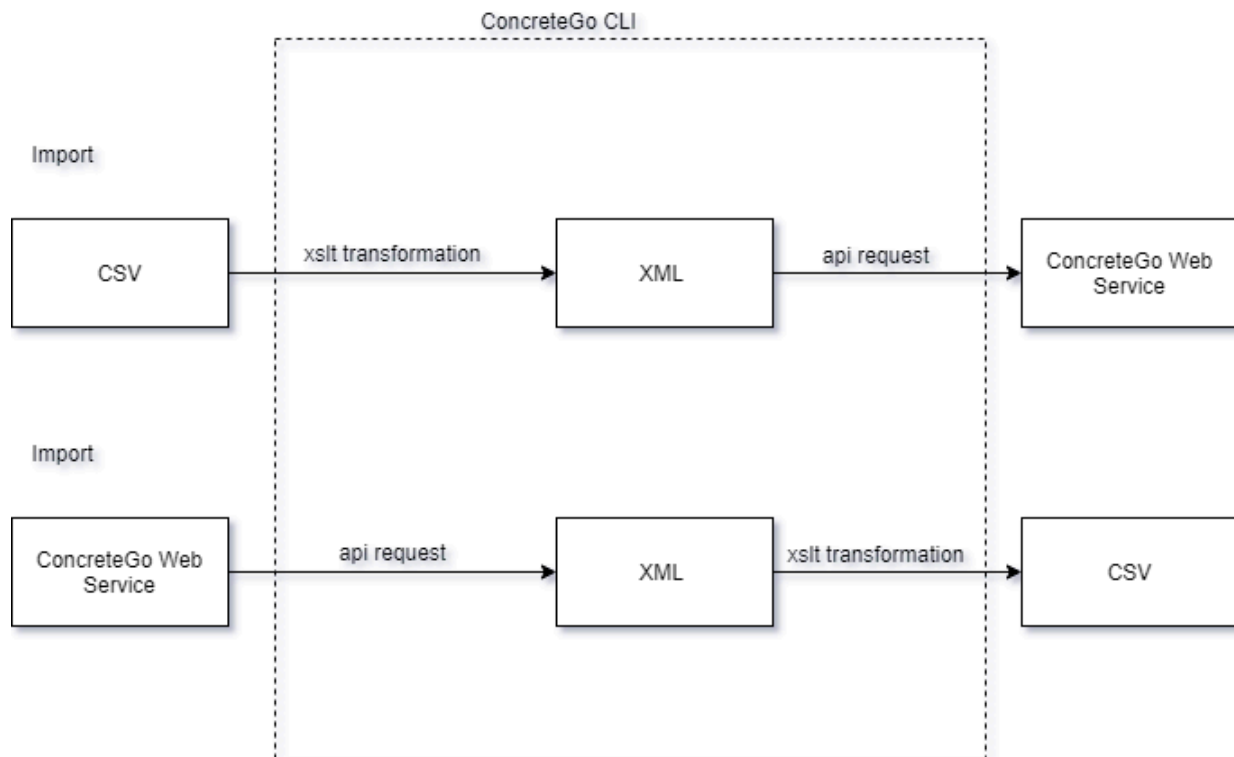
The xslt transformation is configured in separated files so that keep the field mapping separated from CLI.

➢ Prerequisites

The integration is supported on Windows 7 SP1, Server 2008 R2, and later versions.

➢ Install

We need to install the following softwares for the integration environment.

Powershell 7
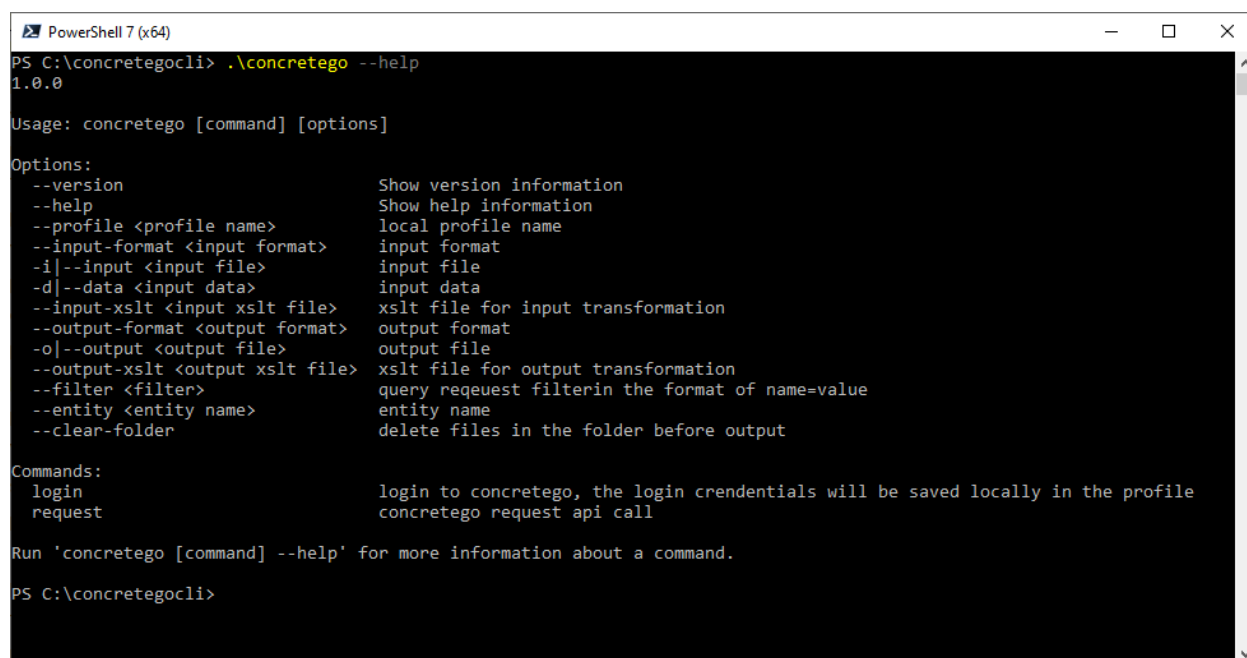
Powershell 7 is needed to run the script to automate the integration.

Download the latest version from here. Choose the Windows x64 msi file and download the file to the local pc. Then run the file to install the Powershell.
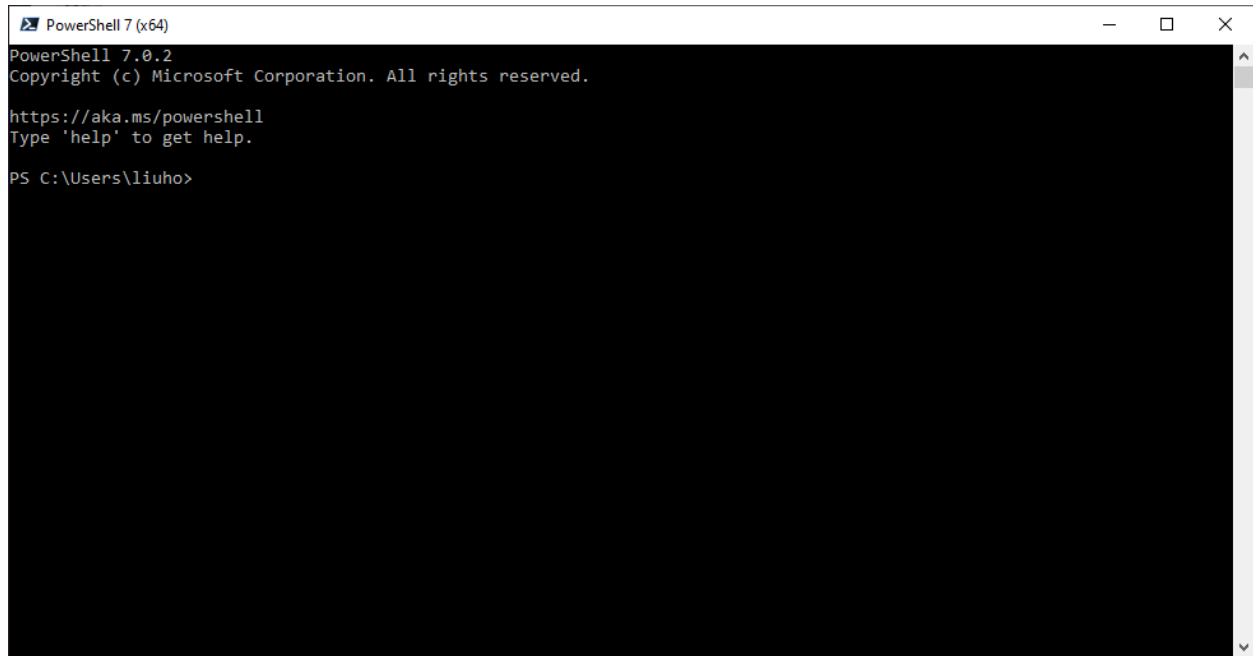
ConcreteGo Command Line Interface (CLI)

By default, the ConcreteGo Command Line Interface (CLI) program will be installed under folder c:\concretegocli\

```
PowerShell 7 (x64)                                                    —   □   ×

PS C:\concretegocli> .\concretego --help
1.0.0

Usage: concretego [command] [options]

Options:
  --version                      Show version information
  --help                         Show help information
  --profile <profile name>       local profile name
  --input-format <input format>  input format
  -i|--input <input file>        input file
  -d|--data <input data>         input data
  --input-xslt <input xslt file> xslt file for input transformation
  --output-format <output format> output format
  -o|--output <output file>      output file
  --output-xslt <output xslt file> xslt file for output transformation
  --filter <filter>              query reqeust filterin the format of name=value
  --entity <entity name>         entity name
  --clear-folder                 delete files in the folder before output

Commands:
  login                          login to concretego, the login crendentials will be saved locally in the profile
  request                        concretego request api call

Run 'concretego [command] --help' for more information about a command.

PS C:\concretegocli>
```

ConcreteGo CLI File Proxy

By default, ConcreteGo Command Line Interface File Proxy will be installed under folder c:\concretegocli-fileproxy\. The program will be installed as a windows service.
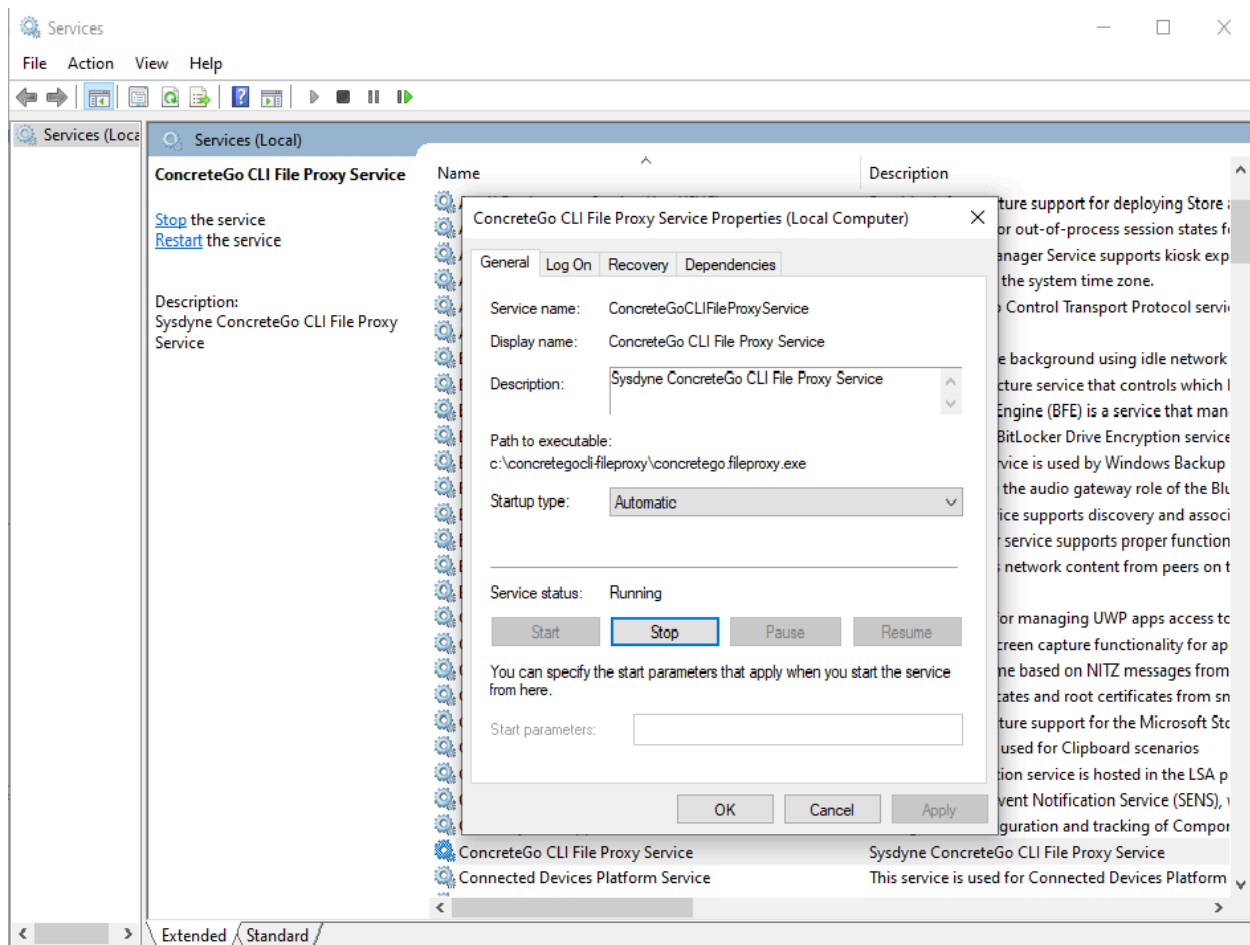
As the command line interface (CLI) login profile/credentials is stored with a specific windows user, the CLI Proxy windows service needs to run under that specific windows user.

We can configure the service run as the current windows user as following
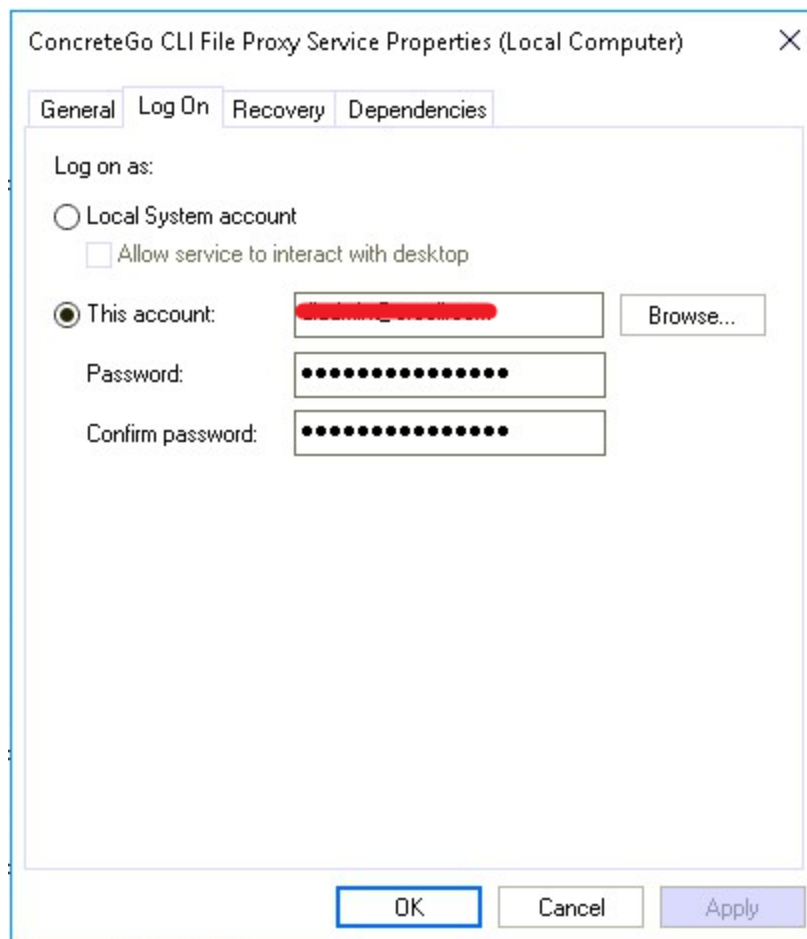
Instead of running it under specific user account, we can also configure the service run under the [Local System Account],
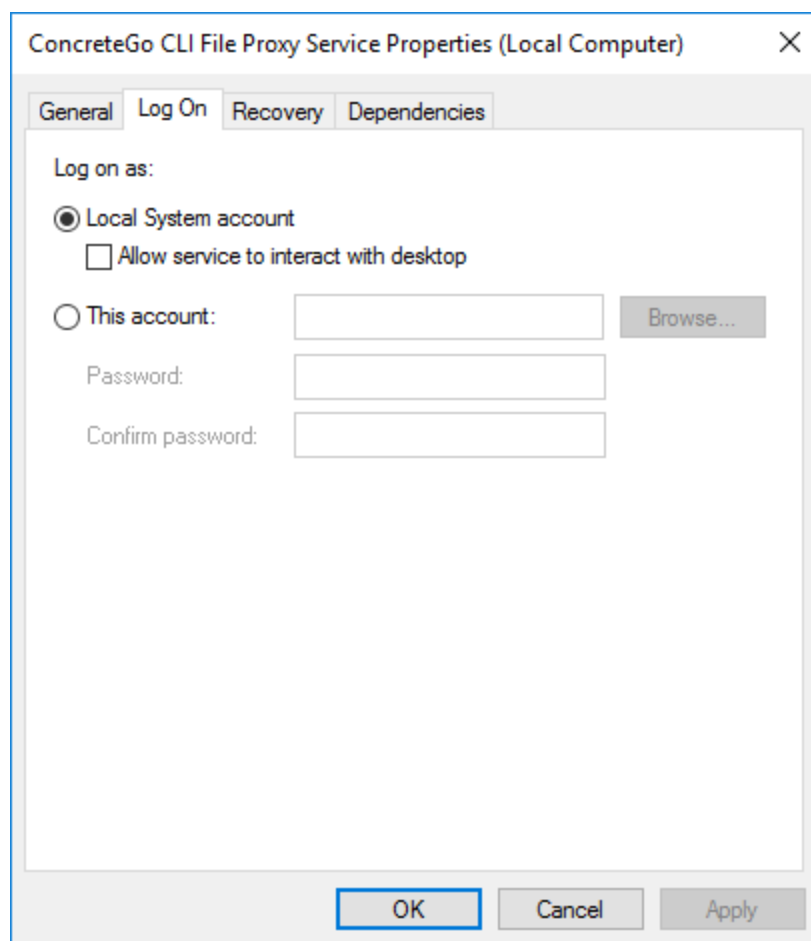
In this case, we need to run the concretego login command under the [Local System Account] so that the profile can be saved under the [Local System Account]. In order to run the concretego login command under the [Local System Account], we need to download the SysInternals Tools, and run the following command as Administrator:

```
psexec -i -s cmd.exe
```

This will run the cmd.exe under the [Local System Account], and then run the ConcreteGo Login command to save the profile under the [Local System Account]. The profile for [Local System Account] is saved under folder: `%systemroot%\ServiceProfiles`

➢ Help

Concretego --help

➢ Login

Run the following command:

This command will set up the cli's credentials to use for concretego web service api access. ConcreteGo CLI will save these credentials locally. So only need to set this once unless the credentials are changed later.

Warning: if you changed your password, you need to run this command again.

➢ Request

This command will make a concretego web service api call with the specified credentials and parameters.

➢ Request2

This command is the same as Request except that it can specify an parameter Chunksize, which is useful when the request data is too big, it will automatically split the request into multiple requests.

➢ Examples

Export-ticket-by-order-date.ps1

```
1.  $TodayString = Read-Host -Prompt 'Order Date'
2.  $Today = [datetime]::parse($TodayString)
3.  $FileNameSuffix = $today.tostring("yyyy-MM-dd")
4.  $FromOrderDate = $today.ToShortDateString()
5.  $ToOrderDate = $today.ToShortDateString()
6.  ./concretego request --entity Ticket --filter "FromOrderDate=$FromOrderDate" --filter
    "ToOrderDate=$ToOrderDate" --filter="IncludeRemovedTicket=True"
    --filter="IncludeRetElement=USERDEFINEDFIELD" --output-format xml --output-xslt
    ticket-export.xsl -o "c:\concretegodata\export\tickets-$FileNameSuffix.txt"
```

Export-ticket-byorderdateplant.ps1

```
1.  $TodayString = Read-Host -Prompt 'Ticket Date'
```

```
2.   $Today = [datetime]::parse($TodayString)
3.   $Plant = Read-Host -Prompt 'Plant Code'
4.   $FileNameSuffix = $today.tostring("yyyy-MM-dd") + "-P" + $Plant
5.   $FromOrderDate = $today.ToShortDateString()
6.   $ToOrderDate = $today.ToShortDateString()
7.   ./concretego request --entity Ticket --filter "FromOrderDate=$FromOrderDate" --filter
     "ToOrderDate=$ToOrderDate" --filter "PlantCode=$Plant"
     --filter="IncludeRemovedTicket=True" --filter="IncludeRetElement=USERDEFINEDFIELD"
     --output-format xml --output-xslt ticket-export.xsl -o
     "c:\concretegodata\export\tickets-$FileNameSuffix.txt"
```

Export-ticket-bytickettime.ps1

```
1.   $TodayString = Read-Host -Prompt 'Ticket Date'
2.   $Today = [datetime]::parse($TodayString)
3.   $FileNameSuffix = $today.tostring("yyyy-MM-dd")
4.   $FromTicketTime = $today.ToString("s")
5.   $ToTicketTime = $today.AddDays(1).AddSeconds(-1).ToString("s")
6.   ./concretego request --entity Ticket --filter "FromTicketTime=$FromTicketTime" --filter
     "ToTicketTime=$ToTicketTime" --filter="IncludeRemovedTicket=True"
     --filter="IncludeRetElement=USERDEFINEDFIELD" --output-format xml --output-xslt
     ticket-export.xsl -o "c:\concretegodata\export\tickets-$FileNameSuffix.txt"
```

Export-ticket-bytickettimeplant.ps1

```
1.   $TodayString = Read-Host -Prompt 'Ticket Date'
2.   $Today = [datetime]::parse($TodayString)
3.   $Plant = Read-Host -Prompt 'Plant Code'
4.   $FileNameSuffix = $today.tostring("yyyy-MM-dd") + "-P" + $Plant
5.   $FromTicketTime = $today.ToString("s")
6.   $ToTicketTime = $today.AddDays(1).AddSeconds(-1).ToString("s")
7.   ./concretego request --entity Ticket --filter "FromTicketTime=$FromTicketTime" --filter
     "ToTicketTime=$ToTicketTime" --filter "PlantCode=$Plant"
     --filter="IncludeRemovedTicket=True" --filter="IncludeRetElement=USERDEFINEDFIELD"
     --output-format xml --output-xslt ticket-export.xsl -o
     "c:\concretegodata\export\tickets-$FileNameSuffix.txt"
```

Export-ticket-todaybyorderdate.ps1

```
1.   $today = Get-Date
2.
3.   $FileNameSuffix = $today.tostring("yyyy-MM-dd")
4.   $FromOrderDate = $today.ToShortDateString()
5.   $ToOrderDate = $today.ToShortDateString()
```

```
6.  ./concretego request --entity Ticket --filter "FromOrderDate=$FromOrderDate" --filter
    "ToOrderDate=$ToOrderDate" --filter="IncludeRemovedTicket=True"
    --filter="IncludeRetElement=USERDEFINEDFIELD" --output-format xml --output-xslt
    ticket-export.xsl -o "c:\concretegodata\export\tickets-$FileNameSuffix.txt"
```

Export-ticket-todaybytickettime.ps1

```
1.  $today = Get-Date
2.  $TodayString = $today.ToShortDateString()
3.  $today = [datetime]::parse($TodayString)
4.  $FileNameSuffix = $today.tostring("yyyy-MM-dd")
5.  $FromTicketTime = $today.ToString("s")
6.  $ToTicketTime = $today.AddDays(1).AddSeconds(-1).ToString("s")
7.  ./concretego request --entity Ticket --filter "FromTicketTime=$FromTicketTime" --filter
    "ToTicketTime=$ToTicketTime" --filter="IncludeRemovedTicket=True"
    --filter="IncludeRetElement=USERDEFINEDFIELD" --output-format xml --output-xslt
    ticket-export.xsl -o "c:\concretegodata\export\tickets-$FileNameSuffix.txt"
```

Export-ticket-todayperplantbyorderdate.ps1

```
1.  $today = Get-Date
2.
3.  $PlantsXml = ./concretego request --entity Plant
4.
5.  $PlantsXmlDoc = [xml]$PlantsXml
6.  $PlantNodes = $PlantsXmlDoc.SelectNodes("//PlantRet")
7.
8.  $FromOrderDate = $today.ToShortDateString()
9.  $ToOrderDate = $today.ToShortDateString()
10.
11. foreach ($PlantNode in $PlantNodes) {
12.     $Plant = $PlantNode.SelectSingleNode("Code").InnerText
13.     $FileNameSuffix = $today.tostring("yyyy-MM-dd") + "-P" + $Plant
14.     ./concretego request --entity Ticket --filter "FromOrderDate=$FromOrderDate"
    --filter "ToOrderDate=$ToOrderDate" --filter "PlantCode=$Plant"
    --filter="IncludeRemovedTicket=True" --filter="IncludeRetElement=USERDEFINEDFIELD"
    --output-format xml --output-xslt ticket-export.xsl -o
    "c:\concretegodata\export\tickets-$FileNameSuffix.txt"
15. }
```

Export-ticket-todayperplantbytickettime.ps1

```
1.  $today = Get-Date
2.  $TodayString = $today.ToShortDateString()
3.  $today = [datetime]::parse($TodayString)
4.
5.  $PlantsXml = ./concretego request --entity Plant
```

```
6.
7.  $PlantsXmlDoc = [xml]$PlantsXml
8.  $PlantNodes = $PlantsXmlDoc.SelectNodes("//PlantRet")
9.
10. $FromTicketTime = $today.ToString("s")
11. $ToTicketTime = $today.AddDays(1).AddSeconds(-1).ToString("s")
12.
13. foreach ($PlantNode in $PlantNodes) {
14.     $Plant = $PlantNode.SelectSingleNode("Code").InnerText
15.     $FileNameSuffix = $today.tostring("yyyy-MM-dd") + "-P" + $Plant
16.     ./concretego request --entity Ticket --filter "FromTicketTime=$FromTicketTime"
    --filter "ToTicketTime=$ToTicketTime" --filter "PlantCode=$Plant"
    --filter="IncludeRemovedTicket=True" --filter="IncludeRetElement=USERDEFINEDFIELD"
    --output-format xml --output-xslt ticket-export.xsl -o
    "c:\concretegodata\export\tickets-$FileNameSuffix.txt"
17. }
```

Export-ticket-yesterdayperplantbyorderdate.ps1

```
1.  $today = Get-Date
2.  $today=$today.AddDays(-1)
3.
4.  $PlantsXml = ./concretego request --entity Plant
5.
6.  $PlantsXmlDoc = [xml]$PlantsXml
7.  $PlantNodes = $PlantsXmlDoc.SelectNodes("//PlantRet")
8.
9.  $FromOrderDate = $today.ToShortDateString()
10. $ToOrderDate = $today.ToShortDateString()
11.
12. foreach ($PlantNode in $PlantNodes) {
13.     $Plant = $PlantNode.SelectSingleNode("Code").InnerText
14.     $FileNameSuffix = $today.tostring("yyyy-MM-dd") + "-P" + $Plant
15.     ./concretego request --entity Ticket --filter "FromOrderDate=$FromOrderDate"
    --filter "ToOrderDate=$ToOrderDate" --filter "PlantCode=$Plant"
    --filter="IncludeRemovedTicket=True" --filter="IncludeRetElement=USERDEFINEDFIELD"
    --output-format xml --output-xslt ticket-export.xsl -o
    "c:\concretegodata\export\tickets-$FileNameSuffix.txt"
16. }
```

Export-ticket-yesterdayperplantbytickettime.ps1

```
1.  $today = Get-Date
2.  $TodayString = $today.ToShortDateString()
3.  $today = [datetime]::parse($TodayString)
4.  $today=$today.AddDays(-1)
5.
```

```
6.  $PlantsXml = ./concretego request --entity Plant
7.
8.  $PlantsXmlDoc = [xml]$PlantsXml
9.  $PlantNodes = $PlantsXmlDoc.SelectNodes("//PlantRet")
10.
11. $FromTicketTime = $today.ToString("s")
12. $ToTicketTime = $today.AddDays(1).AddSeconds(-1).ToString("s")
13.
14. foreach ($PlantNode in $PlantNodes) {
15.     $Plant = $PlantNode.SelectSingleNode("Code").InnerText
16.     $FileNameSuffix = $today.tostring("yyyy-MM-dd") + "-P" + $Plant
17.     ./concretego request --entity Ticket --filter "FromTicketTime=$FromTicketTime"
    --filter "ToTicketTime=$ToTicketTime" --filter "PlantCode=$Plant"
    --filter="IncludeRemovedTicket=True" --filter="IncludeRetElement=USERDEFINEDFIELD"
    --output-format xml --output-xslt ticket-export.xsl -o
    "c:\concretegodata\export\tickets-$FileNameSuffix.txt"
18. }
```

Import-customer.ps1

```
1.  $today = (Get-Date).tostring("yyyy-MM-dd-HH-mm-ss")
2.  ./concretego request2 --entity Customer --input-format csv --input-xslt
    customer-import.xsl -i "c:\concretegodata\import\customers.csv"  -o
    "c:\concretegodata\logs\customer-import-result-$today.xml"
```

Customer-import.xsl

```
1.  <?xml version="1.0" encoding="utf-8"?>
2.  <xsl:transform version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    xmlns:msxml="urn:schemas-microsoft-com:xslt" exclude-result-prefixes="msxml xsltExt"
    xmlns:xsltExt="urn:concretego-cli">
3.    <xsl:output method="xml" encoding="utf-8" />
4.    <xsl:template match="/">
5.      <xsl:processing-instruction name="webcretexml">
6.        <xsl:text>version="1.0"</xsl:text>
7.      </xsl:processing-instruction>
8.      <WebcreteXML>
9.        <WebcreteXMLMsgsRq onError="stopOnError">
10.         <CustomerUpdateRq requestID="1">
11.           <xsl:apply-templates select="/Customers/Customer" />
12.         </CustomerUpdateRq>
13.       </WebcreteXMLMsgsRq>
14.     </WebcreteXML>
15.   </xsl:template>
16.   <xsl:template match="Customer">
17.     <CustomerUpdate>
18.       <Code>
19.         <xsl:value-of select="Code"></xsl:value-of>
```

```
20.        </Code>
21.        <Name>
22.          <xsl:value-of select="Name"></xsl:value-of>
23.        </Name>
24.        <SortName>
25.          <xsl:value-of select="Code"></xsl:value-of>
26.        </SortName>
27.        <Address>
28.          <Addr1>
29.            <xsl:value-of select="Addr1"></xsl:value-of>
30.          </Addr1>
31.          <Addr2>
32.            <xsl:value-of select="Addr2"></xsl:value-of>
33.          </Addr2>
34.          <City>
35.            <xsl:value-of select="CITY"></xsl:value-of>
36.          </City>
37.          <State>
38.            <xsl:value-of select="STATE"></xsl:value-of>
39.          </State>
40.          <PostalCode>
41.            <xsl:value-of select="PostalCode"></xsl:value-of>
42.          </PostalCode>
43.        </Address>
44.        <Country>
45.          <xsl:value-of select="COUNTRY"></xsl:value-of>
46.        </Country>
47.        <Contact>
48.          <xsl:value-of select="Contact"></xsl:value-of>
49.        </Contact>
50.        <Phone>
51.          <xsl:value-of select="Phone"></xsl:value-of>
52.        </Phone>
53.        <Email>
54.          <xsl:value-of select="Email"></xsl:value-of>
55.        </Email>
56.        <Accounting>
57.          <CreditInformation>
58.            <Credit>
59.              <CompanyCode>1</CompanyCode>
60.              <CreditCode>
61.                <xsl:value-of select="CreditCode"></xsl:value-of>
62.              </CreditCode>
63.              <CreditLimit>
64.                <xsl:value-of select="CreditLimit"></xsl:value-of>
65.              </CreditLimit>
66.            </Credit>
67.          </CreditInformation>
68.        </Accounting>
69.        <xsl:if test="string-length(SetupDate)&gt;0">
```

```
70.          <SetupDate>
71.            <xsl:value-of select="SetupDate"></xsl:value-of>
72.          </SetupDate>
73.        </xsl:if>
74.      </CustomerUpdate>
75.    </xsl:template>
76. </xsl:transform>
```