## Jonas Data Import/Export API

Jonas Provides the ability to import and export data to external third party applications via a web Service.

Any third party software such as Salesforce or QuickBooks can now exchange data associated with the following objects defined in Jonas:

- Customers
- Work Orders
- Jobs

Jonas interacts with external applications based on the SOAP protocol using a web Service on a pre-defined schema as illustrated in a later section of this document.

### Web Service URL:

- **https://websvc.jonasportal.com/jonasAPI/japi.asmx**

### Web Methods:

1. **Login**

**\<securityToken\>string\</**securityToken\>
\<username\>string\</username\>
\<password\>string\</password\>
**Returns**: serialized JSON object
**Format**: { isAuthenticated: true/false, isValid: true/false, data: string, message: string }

2. **JonasAPI**

\<securityToken\>string\</securityToken\>
\<username\>string\</username\>
\<password\>string\</password\>
\<apiParams\>string\</apiParams\>
**Returns**: serialized JSON object

**Format**: {isAuthenticated: true/false, isValid: true/false, data: string, message: string}

**April 2016**

## Web Method JonasAPI Parameters Explained:

&lt;securityToken&gt;    - security hash key provided by Jonas.

&lt;username&gt;    - valid customer's Jonas system user name.

&lt;password&gt;    - valid customer's Jonas system password.

&lt;apiParams&gt;    - valid JSON string compliant with Jonas API schema.

## Jonas API Object Schemas:

- **Default Schema**    -    Jonas API Default Schema

- **Work Order Schema**    -    Jonas API Work Order Schema

- **Customer Schema**    -    Jonas API Customer Schema

- **Job Master Schema**    -    Jonas API Job Master Schema

## Objects:

- **GJZJ6J** – Create a new Customer / Update an existing Customer / Export Customer Data
- **GJZJ18J** – Create a new Work Order / Export Work Order Data
- **GJZJ28J** – Create a new Job / Export Job Data
- **GJZJ82J** – Jonas template data Export / Import

## Options:
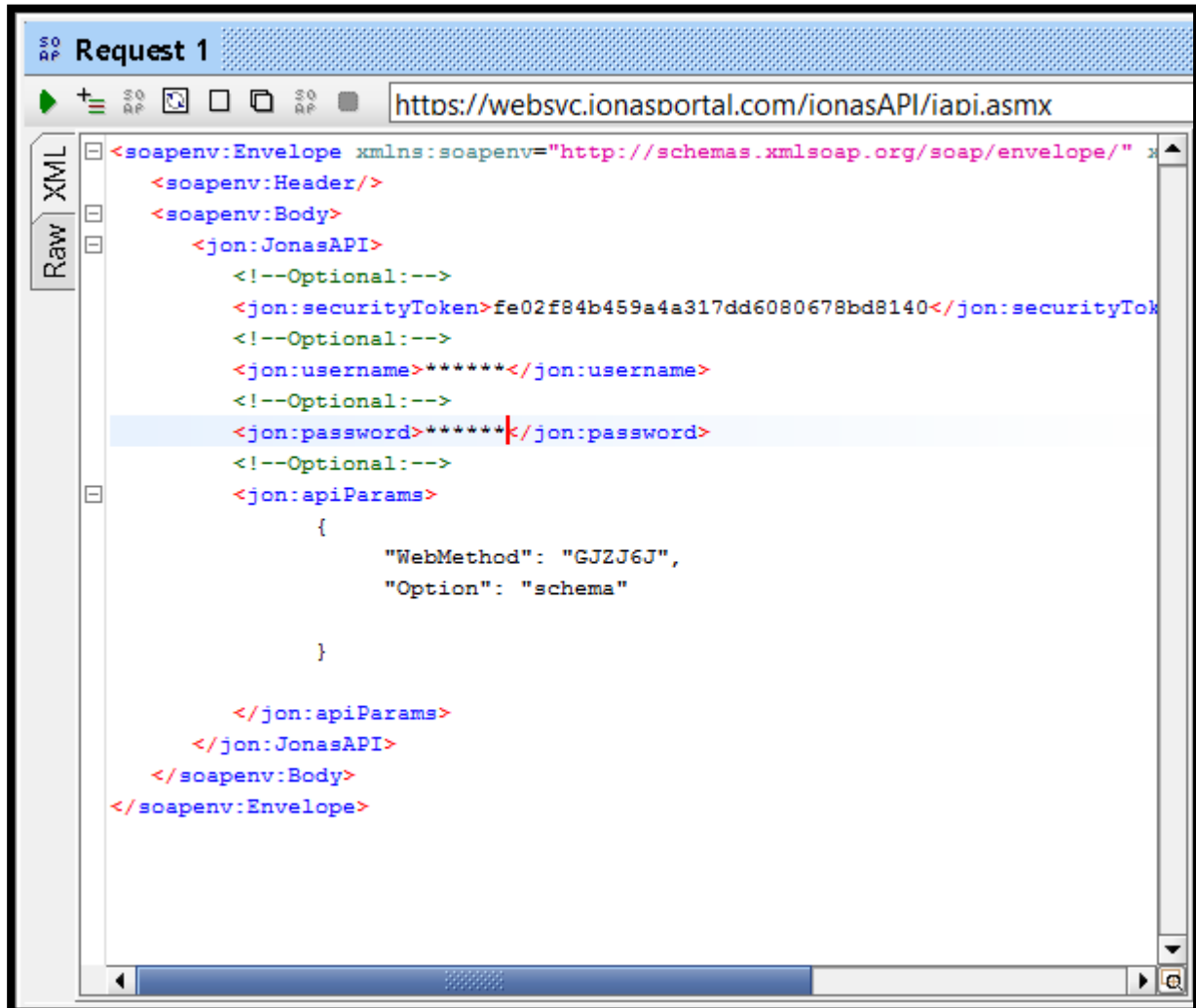
Each call object has the following Options and each option returns a different result set as explained below.

- Schema      - Get the schema for the web Method.
- Template      - Returns the JSON template containing the data fields with no data.
- Download      - Returns the JSON template containing the data fields as well.
- Scan      - Error scan only, does not upload Data
- Update      - Submits records to be scanned for errors and uploaded into the system
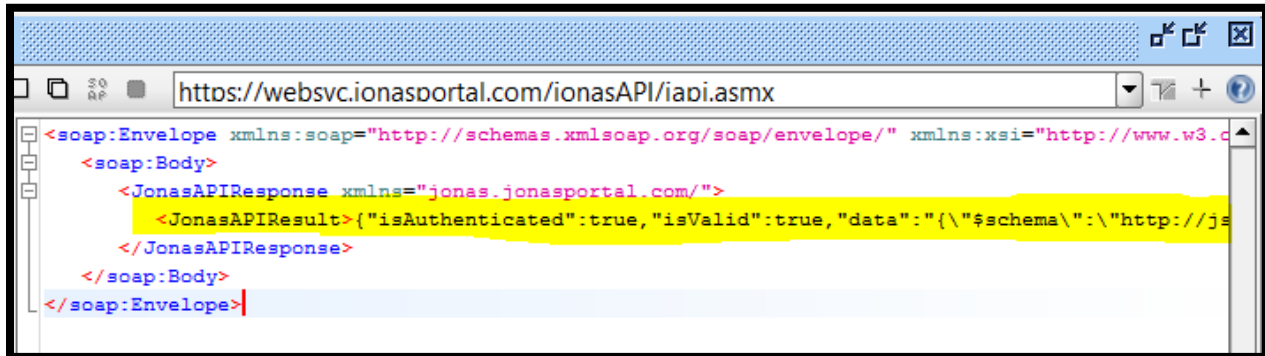
## Sample API Parameters SOAP Request and Response:

1. Method Call – "GJZJ6J"

    a) Option – "Schema "

**April 2016**

Request for AR Customer Schema-



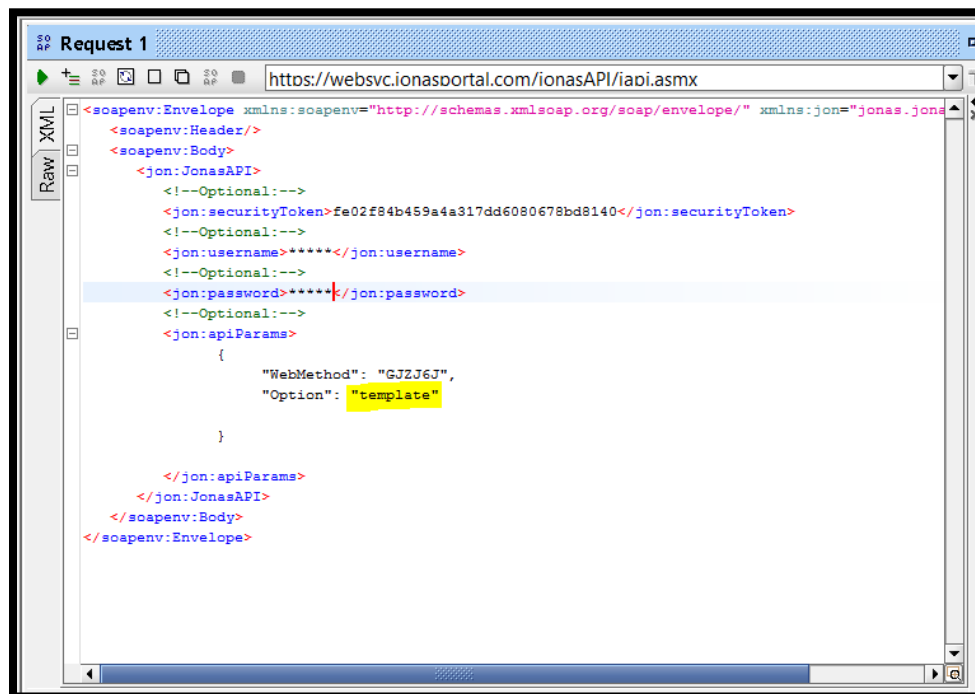Response with the Customer Schema Returned:

The above highlighted section contains the Schema and the sample can be accessed in the .txt file embedded below:

AR Customer Schema

### b) Option "Template"

Request for Customer Template-



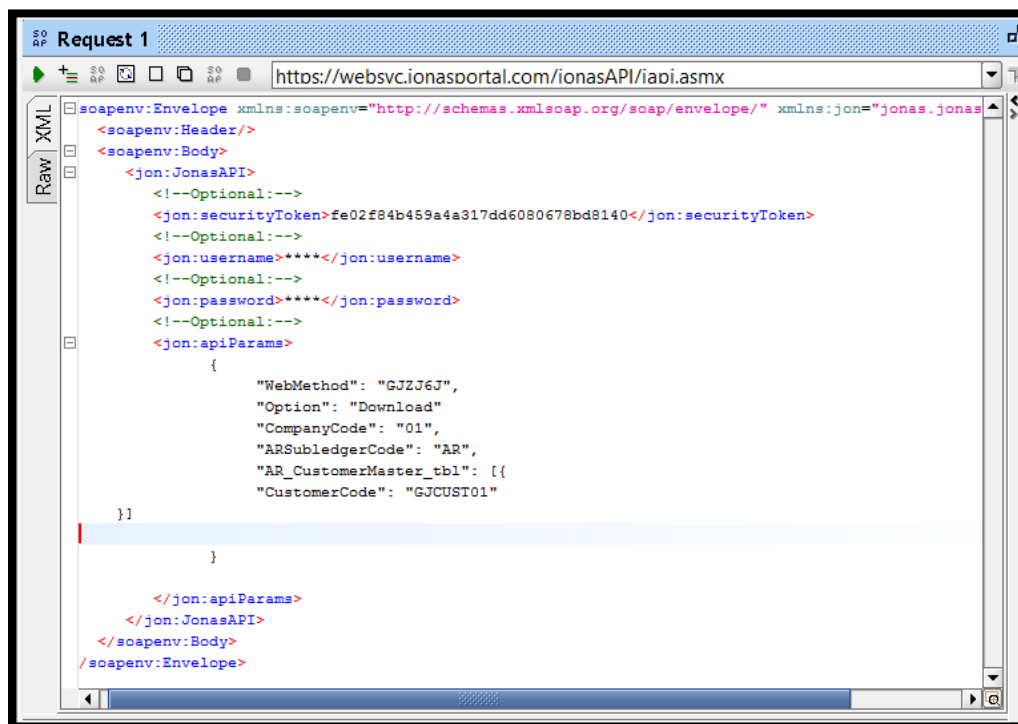Response with the Customer Template Returned:

**April 2016**

The <JonasAPIResponse> tag contains the AR Customer template that can be accessed in the below embedded txt file.

AR Customer Template

### c) Option "Download"
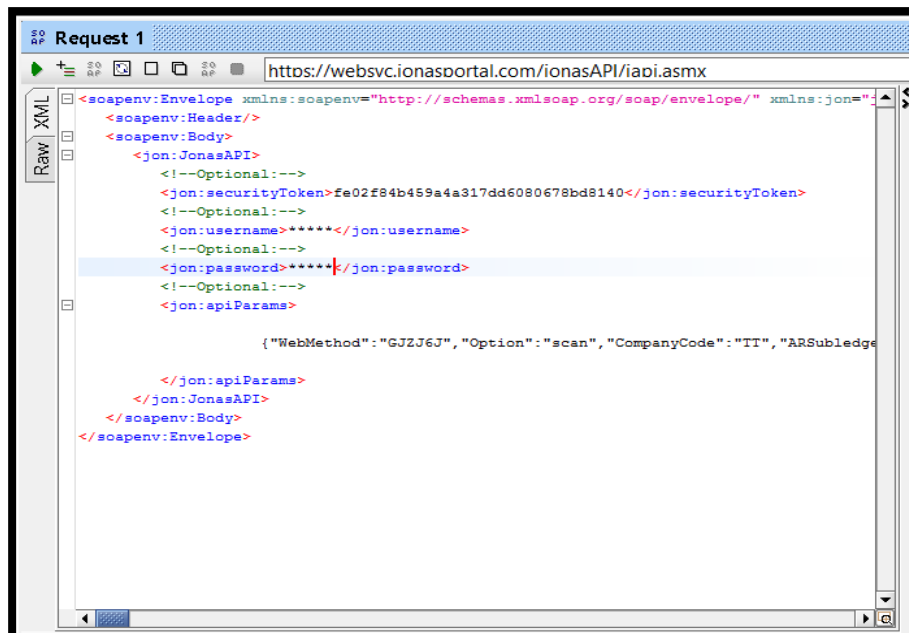
Request for Customer Download-



Response with the Customer Download Returned:

**April 2016**

The <JonasAPIResponse> tag contains the AR Customer Record with the data for the requested Customer and the sample can be accessed in the below embedded txt file. AR Customer Download

Option "Scan"

Request for Customer Record Scan for errors- Sending a scan request with an incorrect Company Code (TT)



AR Customer Scan Call

Response for Customer Scan with error log:

**April 2016**

AR Customer Scan Response                    AR Customer Scan Response No Error

### d) Option "Update"

Request for Customer Record Update in Jonas: Update Customer name from "Customer 2" → "Customer 2 Updated"



AR Customer Update Call

**April 2016**

## Response on Customer Update:



💬 AR Customer Update Response

Customer Name updated to "Customer 2 Updated in Jonas"



2. **Method Call "GJZJ18J"**

   a) Option "Schema"

## Request for Work Order Schema:

## Response on Work Order Schema:



 Work Order Schema

### b)   Option "Template"

## Request for Work Order Template:

**April 2016**

## Response on Work Order Template request:



💬 Work Order Template

c) Option "Download"

## Request for Work Order Download:

**April 2016**

```
SOAP Request 1
                    https://websvc.ionasportal.com/ionasAPI/iapi.asmx
XML
Raw
    <soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:jon="jonas.jonasportal.com/">
       <soapenv:Header/>
       <soapenv:Body>
          <jon:JonasAPI>
             <!--Optional:-->
             <jon:securityToken>fe02f84b459a4a317dd6080678bd8140</jon:securityToken>
             <!--Optional:-->
             <jon:username>****</jon:username>
             <!--Optional:-->
             <jon:password>****</jon:password>
             <!--Optional:-->
             <jon:apiParams>
                    {
                    "WebMethod": "GJZJ18J",
                    "Option": "Download",
                    "CompanyCode": "JC",
                    "ARSubledgerCode": "G1",
                    "WO_Headers_tbl": [{
                    "WorkOrderNumber": "5"
                    }]
                    }
             </jon:apiParams>
          </jon:JonasAPI>
       </soapenv:Body>
    </soapenv:Envelope>
```

## Response on Work Order Download:

```
    https://websvc.ionasportal.com/ionasAPI/iapi.asmx
    <?xml version="1.0" encoding="utf-8"?>
    <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instan
    <soap:Body><JonasAPIResponse xmlns="jonas.jonasportal.com/"><JonasAPIResult>{"isAuthenticated":true,"isValid":true,"data
    </JonasAPIResult>
    </JonasAPIResponse>
    </soap:Body>
    </soap:Envelope>
```

Work Order Download

### d) Option "Scan"

## Request for Work Order Scan:

**April 2016**

Work Order Scan Call

## Response on Work Order Scan with Error:



Work Order Scan Call Error Response

## Scan Call with Valid data

**April 2016**

**Copyright © 2016 Gary Jonas Computing**

    e) Option "Update"

## Request to Import the validated data to Jonas



💬 Work Order Import

## Response on Work Order Import:

**April 2016**

Work Order Import Response

3. Method Call "GJZJ28J"
   a) Option "Schema"

## Request for Job Schema:



## Response on Job Schema Request:

April 2016

Job Master Schema

b)  Option " Template"

## Request for Job Master Template:



## Response JSON template for Job Master:

Job Master Template

   c) Option "Download"

## Request for Job Master Record Download:



## Response on Job Master JSON Record Download.

Job Master Download

    d)   Option "Scan "

## Request for Error Scan on Job Update:



Job Master Error Scan

## Response on Job Upload:

**April 2016**

```
https://websvc.ionasportal.com/ionasAPI/iapi.asmx
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSch
<soap:Body>
<JonasAPIResponse xmlns="jonas.jonasportal.com/">
<JonasAPIResult>{"message":"Login Successful : UserID GJSYSTEM (User 7/10) ",
"Data: {"WebMethod":"GJZJ28J","Option":"scan","CompanyCode":"JC","RecordsProcessed":"1","ErrorsFound":"0"}
</JonasAPIResult>
</JonasAPIResponse>
</soap:Body>
</soap:Envelope>
```

### e) Option "Update"

## Request to Upload Job Record:

💬 Job Master Update



```
Request 1
https://websvc.ionasportal.com/ionasAPI/iapi.asmx
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:jon="jonas.jonasportal.com/">
   <soapenv:Header/>
   <soapenv:Body>
      <jon:JonasAPI>
         <!--Optional:-->
         <jon:securityToken>fe02f84b459a4a317dd6080678bd8140</jon:securityToken>
         <!--Optional:-->
         <jon:username>****</jon:username>
         <!--Optional:-->
         <jon:password>****</jon:password>
         <!--Optional:-->
         <jon:apiParams>
            {
               "WebMethod":"GJZJ28J","Option":"update","CompanyCode":"JC","JC_JobMaster_tbl":[{"JobNumber":"33226546","J
         </jon:apiParams>
      </jon:JonasAPI>
   </soapenv:Body>
</soapenv:Envelope>
```
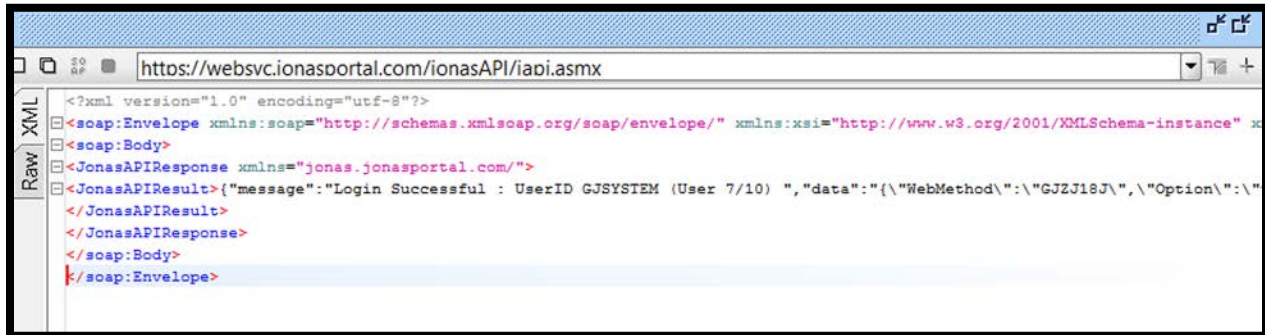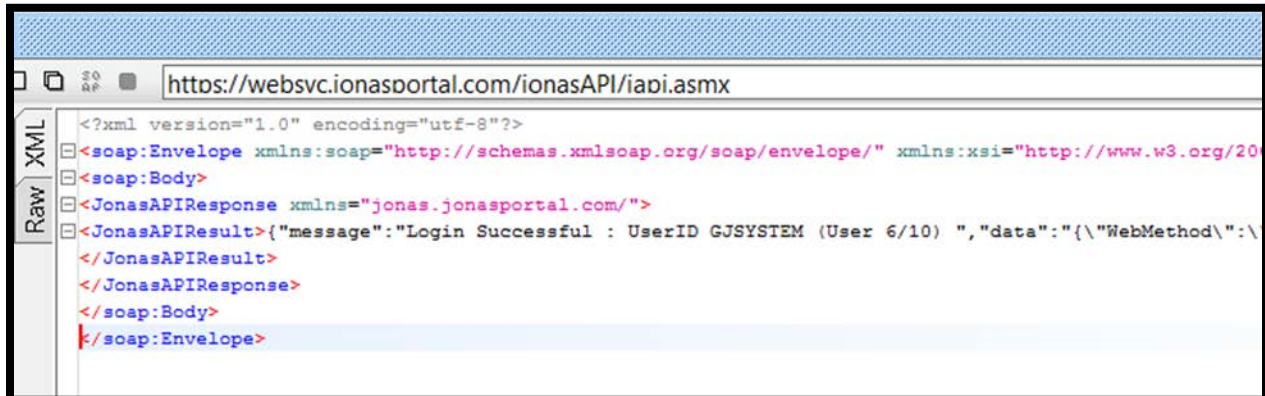
## Response on Job Master Record Update:

💬 Job Master Update Response



```
https://websvc.ionasportal.com/ionasAPI/iapi.asmx
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
<soap:Body><JonasAPIResponse xmlns="jonas.jonasportal.com/">
<JonasAPIResult>{"message":"Login Successful : UserID GJSYSTEM (User 8/10) ","data":"{\"WebMethod\":\"GJZJ28J\",\"(
</JonasAPIResult>
</JonasAPIResponse>
</soap:Body>
</soap:Envelope>
```
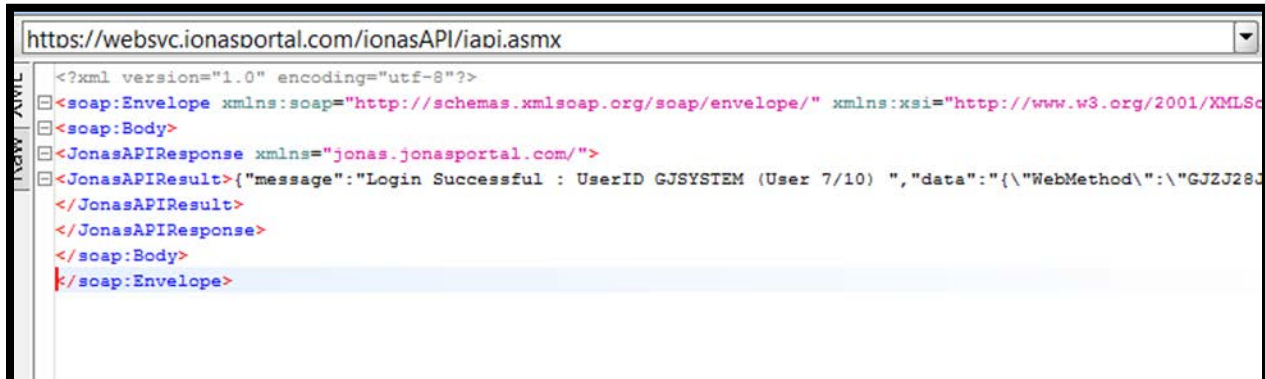
April 2016

4. Method Call "GJZJ82J"
   a) Option "Schema"

**Request for Template Schema:**



```
SOAP Request 2
https://websvc.jonasportal.com/jonasAPI/japi.asmx

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:jon="jonas.jonas
    <soapenv:Header/>
    <soapenv:Body>
        <jon:JonasAPI>
            <!--Optional:-->
            <jon:securityToken>fe02f84b459a4a317dd6080678bd8140</jon:securityToken>
            <!--Optional:-->
            <jon:username>****</jon:username>
            <!--Optional:-->
            <jon:password>****</jon:password>
            <!--Optional:-->
            <jon:apiParams>
             {
                    "WebMethod":"GJZJ82J",
                    "Template":"_JCI",
                    "Option":"schema"
             }
            </jon:apiParams>
        </jon:JonasAPI>
    </soapenv:Body>
</soapenv:Envelope>
```

**Response on Template Schema Request:**



```
svc.jonasportal.com/jonasAPI/japi.asmx

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema
    <soap:Body>
        <JonasAPIResponse xmlns="jonas.jonasportal.com/">
            <JonasAPIResult>{"message":"Login Successful : UserID GJSYSTEM (User 4/10) ","data":"{\"$schema\":\"http
        </JonasAPIResponse>
    </soap:Body>
</soap:Envelope>
```

**April 2016**

b) Option "Template"

**Request for Sample Template:**

```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:jon="jonas.jonasportal.com/
   <soapenv:Header/>
   <soapenv:Body>
      <jon:JonasAPI>
         <!--Optional:-->
         <jon:securityToken>fe02f84b459a4a317dd6080678bd8140</jon:securityToken>
         <!--Optional:-->
         <jon:username>****</jon:username>
         <!--Optional:-->
         <jon:password>****</jon:password>
         <!--Optional:-->
         <jon:apiParams>
          {
             "WebMethod":"GJZJ82J",
             "Template":"_JCI",
             "Option":"template"
          }
         </jon:apiParams>
      </jon:JonasAPI>
   </soapenv:Body>
</soapenv:Envelope>
```

**Response on Sample Template Request:**

portal.com/jonasAPI/japi.asmx

```xml
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XM
   <soap:Body>
      <JonasAPIResponse xmlns="jonas.jonasportal.com/">
         <JonasAPIResult>{"isAuthenticated":true,"isValid":true,"data":"{\"WebMethod\":\"GJZJ82J\",\"Templa
      </JonasAPIResponse>
   </soap:Body>
</soap:Envelope>
```
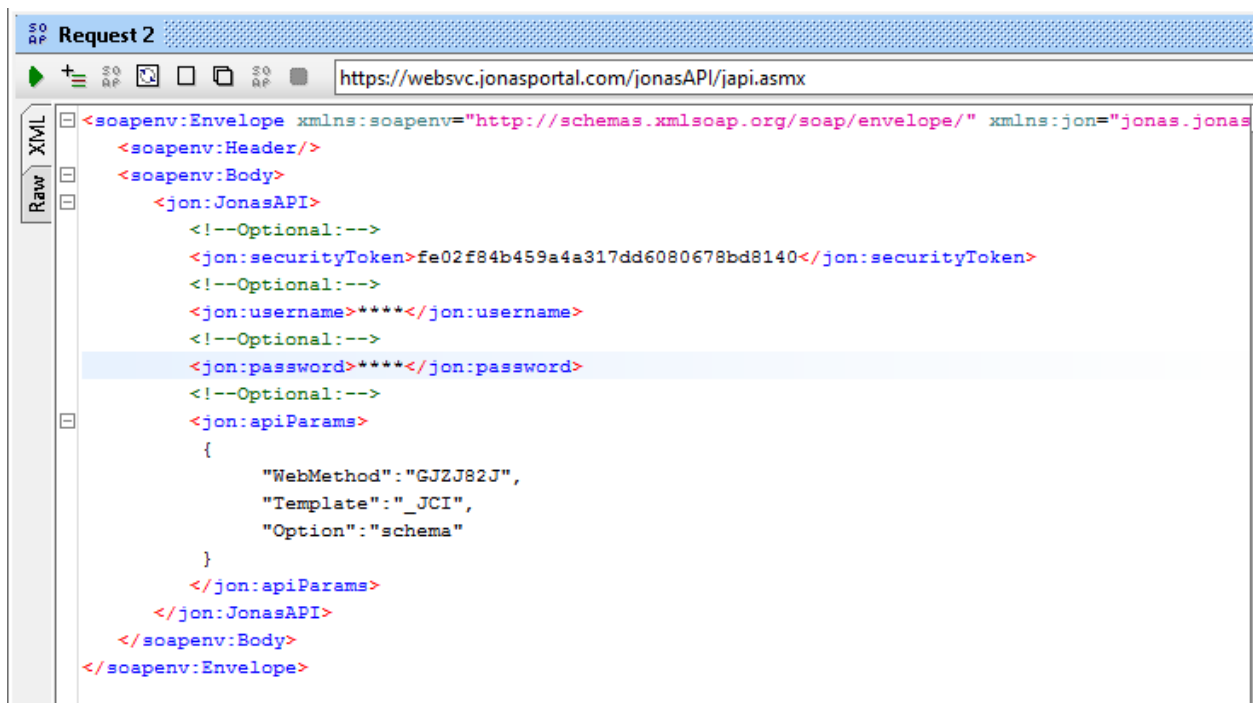
April 2016

c) Option "Download"

## Request for Sample Template Download:

```
Request 2

https://websvc.jonasportal.com/jonasAPI/japi.asmx

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:jon="jonas.jonasporta
    <soapenv:Header/>
    <soapenv:Body>
        <jon:JonasAPI>
            <!--Optional:-->
            <jon:securityToken>fe02f84b459a4a317dd6080678bd8140</jon:securityToken>
            <!--Optional:-->
            <jon:username>****</jon:username>
            <!--Optional:-->
            <jon:password>****</jon:password>
            <!--Optional:-->
            <jon:apiParams>
             {
                 "WebMethod":"GJZJ82J",
                 "Template":"_BTG",
                 "Option":"download",
                 "CompanyCode":"JC",
                 "SubledgerCode":"A/R",
                 "WO_TerritoryGroups_tbl":
                 [{"TerritoryGroupCode":"LOCAL","TerritoryDescription":""}]
             }
            </jon:apiParams>
        </jon:JonasAPI>
    </soapenv:Body>
</soapenv:Envelope>
```

## Response on Sample Template Download:

```
svc.jonasportal.com/jonasAPI/japi.asmx

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema
    <soap:Body>
        <JonasAPIResponse xmlns="jonas.jonasportal.com/">
            <JonasAPIResult>{"isAuthenticated":true,"isValid":true,"data":"{\"WebMethod\":\"GJZJ82J\",\"Template\":\
        </JonasAPIResponse>
    </soap:Body>
</soap:Envelope>
```

**April 2016**

d) Option "Update"

## Request for Sample Template Update:

**SOAP Request 2**

https://websvc.jonasportal.com/jonasAPI/japi.asmx

```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:jon="jonas.jon
    <soapenv:Header/>
    <soapenv:Body>
        <jon:JonasAPI>
            <!--Optional:-->
            <jon:securityToken>fe02f84b459a4a317dd6080678bd8140</jon:securityToken>
            <!--Optional:-->
            <jon:username>****</jon:username>
            <!--Optional:-->
            <jon:password>****</jon:password>
            <!--Optional:-->
            <jon:apiParams>
             {
                    "WebMethod":"GJZJ82J",
                    "Template":"_BTG",
                    "Option":"update",
                    "CompanyCode":"JC",
                    "SubledgerCode":"A/R",
                    "WO_TerritoryGroups_tbl":
                    [{"TerritoryGroupCode":"LOCAL","TerritoryDescription":"Update Terr"}]
             }
            </jon:apiParams>
        </jon:JonasAPI>
    </soapenv:Body>
</soapenv:Envelope>
```

## Response on Sample Template Update:

https://websvc.jonasportal.com/jonasAPI/japi.asmx

```xml
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLS
    <soap:Body>
        <JonasAPIResponse xmlns="jonas.jonasportal.com/">
            <JonasAPIResult>{"message":"Login Successful : UserID GJSYSTEM (User 5/10) ","data":"{\"WebMethod\"
        </JonasAPIResponse>
    </soap:Body>
</soap:Envelope>
```

April 2016