

The RESO Web API Reference Client Demonstrated

Gregory Lemon



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ORCHESTRATING COLLABORATION & INNOVATION

SPEAKER

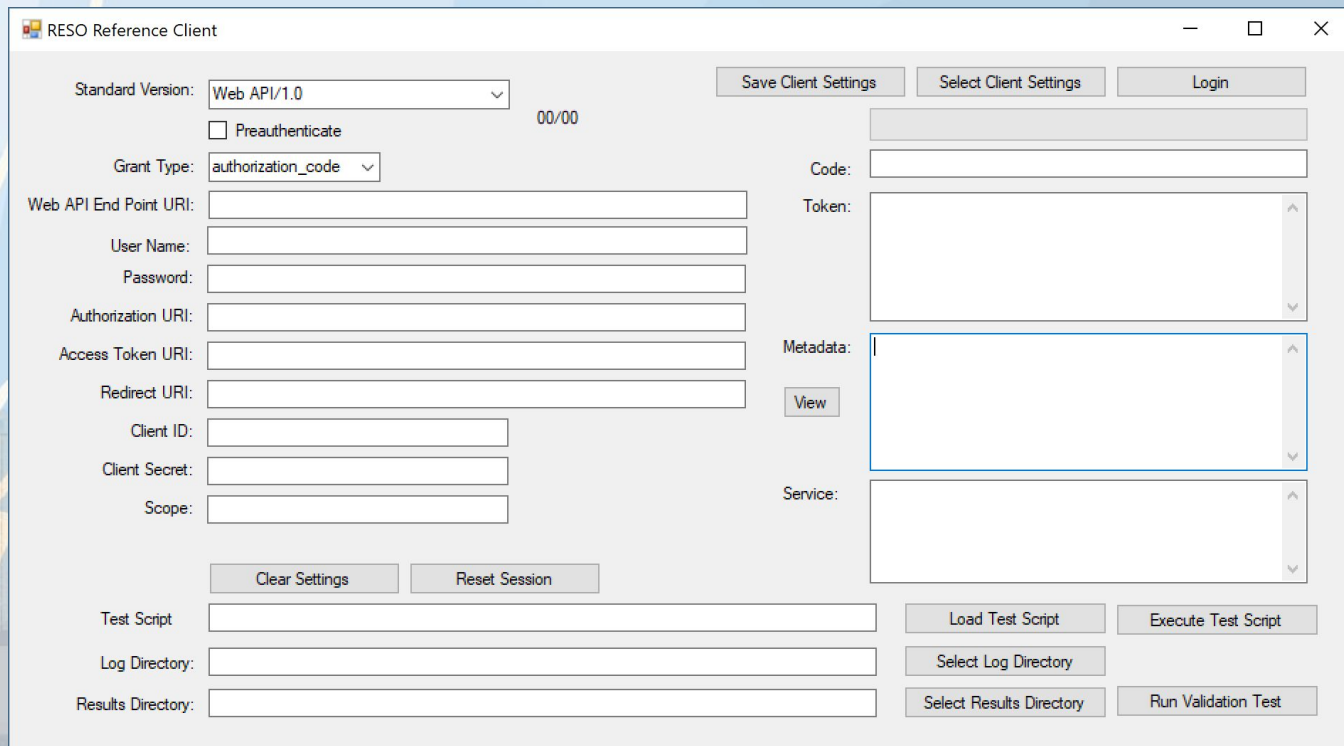
Gregory Lemon

PM: Certification & Compliance
Real Estate Standards Org.

Greg@RESO.org



RESO Web API Ref. Client (.net)

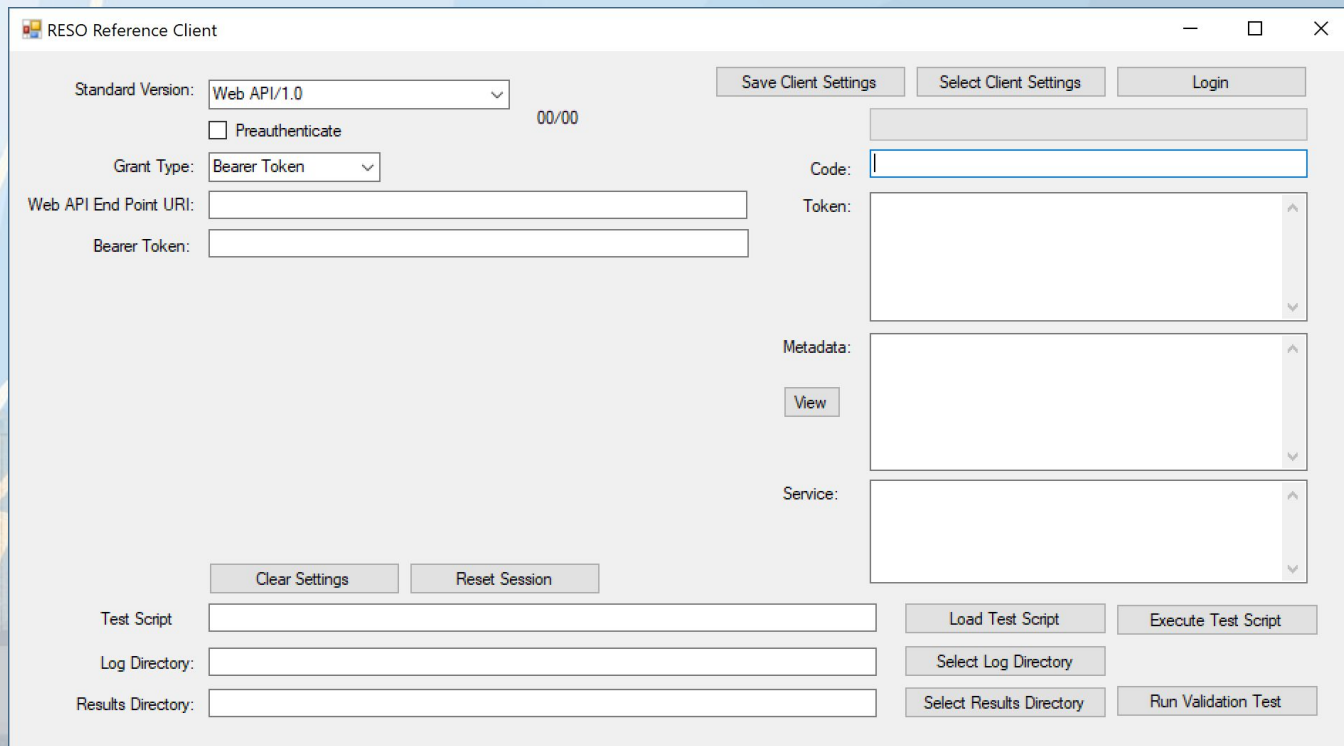


The screenshot shows the 'RESO Reference Client' application window. It features a standard Windows title bar with minimize, maximize, and close buttons. The interface is organized into several sections:

- Top Right:** Three buttons labeled 'Save Client Settings', 'Select Client Settings', and 'Login'.
- Left Column (Configuration):**
 - 'Standard Version:' dropdown menu set to 'Web API/1.0'.
 - 'Grant Type:' dropdown menu set to 'authorization_code'.
 - 'Web API End Point URI:', 'User Name:', 'Password:', 'Authorization URI:', 'Access Token URI:', and 'Redirect URI:' text input fields.
 - 'Client ID:', 'Client Secret:', and 'Scope:' text input fields.
 - 'Clear Settings' and 'Reset Session' buttons.
 - 'Test Script:', 'Log Directory:', and 'Results Directory:' text input fields.
- Right Column (Session & Actions):**
 - 'Preauthenticate' checkbox.
 - 'Code:' text input field.
 - 'Token:' text area.
 - 'Metadata:' text area with a 'View' button.
 - 'Service:' text area.
 - 'Load Test Script', 'Execute Test Script', 'Select Log Directory', 'Select Results Directory', and 'Run Validation Test' buttons.
- Bottom:** A status bar showing '00/00'.

DOWNLOAD: <https://www.reso.org/web-api-tools/>

RESO Web API Ref. Client (.net)



The screenshot shows the 'RESO Reference Client' application window. The interface includes a title bar with standard window controls. The main area is divided into several sections: a top section with 'Standard Version' (set to 'Web API/1.0') and a 'Preauthenticate' checkbox; a 'Grant Type' dropdown set to 'Bearer Token'; a 'Web API End Point URI' text field; and a 'Bearer Token' text field. To the right of these are buttons for 'Save Client Settings', 'Select Client Settings', and 'Login'. Below the 'Bearer Token' field are 'Clear Settings' and 'Reset Session' buttons. On the right side, there are three large text areas labeled 'Code:', 'Token:', and 'Metadata:', each with a 'View' button below it. At the bottom, there are fields for 'Test Script', 'Log Directory', and 'Results Directory', each with corresponding buttons: 'Load Test Script', 'Execute Test Script', 'Select Log Directory', 'Select Results Directory', and 'Run Validation Test'. A status bar at the top right shows '00/00'.

RESO Reference Client

Standard Version: Web API/1.0

☐ Preauthenticate 00/00

Grant Type: Bearer Token

Web API End Point URI:

Bearer Token:

Save Client Settings Select Client Settings Login

Code:

Token:

Metadata:

View

Service:

Clear Settings Reset Session

Test Script

Log Directory:

Results Directory:

Load Test Script Execute Test Script

Select Log Directory Select Results Directory Run Validation Test

DOWNLOAD: <https://www.reso.org/web-api-tools/>

*.RESOCS (Client Setting) Template

```
<?xml version="1.0" encoding="utf-8"?>
<ClientSettings>
  <!-- URLs -->
  <WebAPIURI>*WebAPIURI*</WebAPIURI>
  <AuthorizationURI>*AuthorizationURI*</AuthorizationURI>
  <TokenURI>*TokenURI*</TokenURI>
  <RedirectURI>*RedirectURI*</RedirectURI>
  <!-- Credentials -->
  <AuthenticationType>*AuthenticationType*</AuthenticationType>
  <BearerToken>*BearerToken*</BearerToken>
  <ClientIdentification>*ClientIdentification*</ClientIdentification>
  <ClientSecret>*ClientSecret*</ClientSecret>
  <UserName>*UserName*</UserName>
  <Password>*Password*</Password>
  <ClientScope>*ClientScope*</ClientScope>
  <Version>*Version*</Version>
  <!-- Settings -->
  <Preauthenticate>*Preauthenticate*</Preauthenticate>
  <!-- Local Result Files and Folders -->
  <TransactionLogDirectory>*TransactionLogDirectory*</TransactionLogDirectory>
  <ResultsDirectory>*ResultsDirectory*</ResultsDirectory>
  <ScriptFile>*ScriptFile*</ScriptFile>
</ClientSettings>
```

Sample Template File (Do Not Modify)

*.RESOCS w/OpenID Authorization

```
<?xml version="1.0" encoding="utf-8"?>
<ClientSettings>
  <!-- URLs -->
  <WebAPIURI>https://webapi.vendor.com/RESO/0Data/</WebAPIURI>
  <AuthorizationURI>https://webapi.vendor.com/o/oauth2/v2/auth</AuthorizationURI>
  <TokenURI>https://webapi.vendor.com/oauth2/v3/token</TokenURI>
  <RedirectURI>https://openid.reso.org/</RedirectURI>
  <!-- Credentials -->
  <AuthenticationType>authorization_code</AuthenticationType>
  <BearerToken></BearerToken>
  <ClientIdentification>gRWQ7gpH4V4ynueybk8qCHGgyuRTERq79AWpRBBUCy2PR9Jn</ClientIdentification>
  <ClientSecret>xdgxxJ4wRaTEHjwh2jmS5SRC</ClientSecret>
  <UserName>username</UserName>
  <Password>password</Password>
  <ClientScope>openid</ClientScope>
  <Version>Web API/1.0</Version>
  <!-- Settings -->
  <Preauthenticate>FALSE</Preauthenticate>
  <!-- Local Result Files and Folders -->
  <TransactionLogDirectory>C:\Users\Greg\RESO\RC_20170422\Logs\Vendor</TransactionLogDirectory>
  <ResultsDirectory>C:\Users\Greg\RESO\RC_20170422\Results\Vendor</ResultsDirectory>
  <ScriptFile>C:\Users\Greg\RESO\RC_20170422\webapitests\script\Vendor\WS10217XXX_VENDOR_20170422_01.resoscript</ScriptFile>
</ClientSettings>
```

Generated by clicking [Save Client Settings]

Generated by clicking [Save Client Settings]

 #RESO17



RESO[®]
#RESO17

*.RESOScript File <Parameters>

```
<?xml version="1.0" encoding="utf-8"?>
<OutputScript>
  <!-- Vendor: Generic, MLS: \WS10217XXX_VENDOR_01 --->
  <ClientSettings>
    <Parameters>
      <Parameter Name="OutputDirectory" Value="C:\Users\Greg\RESO\RC_20170422\Results\Vendor" />
      <Parameter Name="EndpointMetadata" Value="$metadata" />
      <Parameter Name="EndpointResource" Value="Property" />
      <!-- Using the UniqueID from the Metadata --->
      <Parameter Name="UniqueID" Value="ID" />
      <Parameter Name="UniqueIDValue" Value="'100008'" />
      <!-- For Top and Skip Testing --->
      <Parameter Name="TopCount" Value="4" />
      <!-- Numeric Field for eq, ne, gt, ge, lt, le testing --->
      <Parameter Name="FilterNumericField" Value="BedroomsTotal" />
      <Parameter Name="FilterNumericValueLow" Value="2" />
      <Parameter Name="FilterNumericValueHigh" Value="5" />
      <Parameter Name="FilterNumericNotFound" Value="-1" />
      <!-- Enumerated Field for "not" testing --->
      <Parameter Name="FilterNotField" Value="DaysOnMarket" />
      <Parameter Name="FilterNotValue" Value="1" />
      <!-- Enumerated Field for "has" testing --->
      <Parameter Name="FilterHasField" Value="Property234Sgl_Fam" />
```

*.RESOSCRIPT File <Requests>

```
<?xml version="1.0" encoding="utf-8"?>
<OutputScript>
  <!-- Vendor: Generic, MLS: \WS10217XXX_VENDOR_01 -->
  <ClientSettings>
  <Parameters>
  <Requests>
    <Request OutputFile="REQ-WA100-END3_Metadata.xml" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointMetadata*" />
    <Request OutputFile="REQ-WA100-END4_Property.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*" />
    <Request OutputFile="REQ-WA100-QR1_UniqueID_alt.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*
    <Request OutputFile="REQ-WA100-QR3_Select.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Paramete
    <Request OutputFile="REQ-WA100-QR4_Top.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Parameter
    <Request OutputFile="REQ-WA100-QR5_Skip.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Parameter
    <Request OutputFile="REQ-WA100-Q02_filter_eq.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Par
    <Request OutputFile="REQ-WA100-Q03_filter_ne.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Par
    <Request OutputFile="REQ-WA100-Q04_filter_gt.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Par
    <Request OutputFile="REQ-WA100-Q05_filter_ge.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Par
    <Request OutputFile="REQ-WA100-Q06_filter_lt.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Par
    <Request OutputFile="REQ-WA100-Q07_filter_le.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Par
    <Request OutputFile="REQ-WA100-Q09_filter_and.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Pa
    <Request OutputFile="REQ-WA100-Q010_filter_or.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Pa
    <Request OutputFile="REQ-WA100-Q011_filter_not.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*P
    <Request OutputFile="REQ-WA100-Q025_DateDate.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Par
    <Request OutputFile="REQ-WA100-Q025_DateDate-alt.json" Url="*ClientSettings_WebAPIURI*/*Parameter_EndpointResource*?$top=*Par
```

Live Demonstration

- Extract Client Files to any location
- ***.resocs / *.resoscript:**
Saved in any browsable location
- **Run *.resoscript + Login:**
[Execute Test Script] Button
- **Includes OData Testing Rules:**
[Run Validation Test] Button

Data Dictionary Testing Tool

- Data Dictionary 1.5.0 RETS 1.x
Availability: <http://ddcert.reso.org/>
- **Backend Improvements:**
Faster Onboarding for Future
Data Dictionaries
- **Coming Soon:**
DD 1.5.0 via Web API

A word cloud graphic on a dark blue background with an orange border. The central text reads "ANY QUESTIONS?" in large, bold, white capital letters. Surrounding this central text are various question words in different colors (white, yellow, green, blue) and sizes. The words include "WHEN?", "WHERE?", "WHAT?", "HOW?", "WHO?", "WHY?", and "WHERE?". Some words are repeated, and they are arranged in a circular pattern around the center, creating a dynamic and engaging visual effect.

Gregory Lemon | Greg@RESO.org
Certification@RESO.org



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conference app!**