

# Guide to Working with Secured Web Map Services (WMS)

July 2024

# Secured WMS Guide

## Revision History

Revision	Date	Author / Reviewer	Description of Changes
1	June 20, 2024	BL	Creation of this document.



# Secured WMS Guide

## Introduction

Brief documentation for working with ICI Society WMS Secured services:

### ESRI syntax for secured WMS:

`https://<WMS_service_url>?<standard WMS parameters>&token=<valid_tokenString>`

### ESRI documentation reference:

<https://enterprise.arcgis.com/en/server/10.8/publish-services/windows/wms-services.htm>

## Instructions for ICI Society WMS URLs

1. Go to the following URL and login:

<https://member.icisociety.ca/wservices/rest/services>



**ArcGIS REST Services Directory** [Login](#) [Get Token](#)

[Home](#) > [services](#) [Help](#) | [API Reference](#)

[JSON](#) | [SOAP](#)

**Folder: /**

**Current Version:** 10.81

**View Footprints In:** [ArcGIS Online Map Viewer](#)

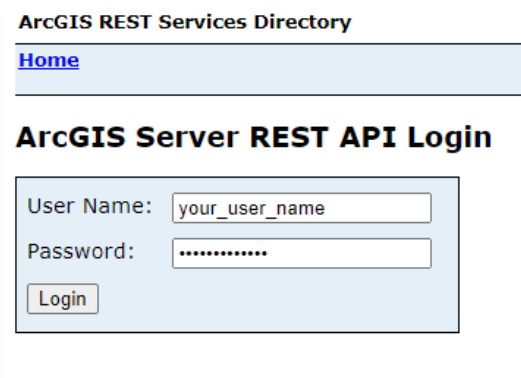
**Folders:**

- [Utilities](#)

**Services:**

- [Ortho Cost Sharing](#) (MapServer)
- [Orthophoto Cost Sharing](#) (MapServer)
- [White background basemap](#) (MapServer)

**Supported Interfaces:** [REST](#) [SOAP](#) [Sitemap](#) [Geo Sitemap](#)



**ArcGIS REST Services Directory**

[Home](#)

**ArcGIS Server REST API Login**

User Name:

Password:





# Secured WMS Guide

## Obtaining a Basic Map Service URL

- In this example, let's select "BC Oil and Gas Commission" as the WMS URL we're interested in by clicking that link.

[Home](#) > [services](#)

[JSON](#) | [SOAP](#)

**Folder: /**

**Current Version:** 10.81

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**Folders:**

- [Utilities](#)

**Services:**

- [AddressBC](#) (MapServer)
- [BC Hydro](#) (MapServer)
- [BC Oil and Gas Commission](#) (MapServer)
- [Cadastral Parcels Filled](#) (MapServer)
- [Cadastral Parcels Outlined](#) (MapServer)
- [Canfor](#) (MapServer)
- [Enbridge](#) (MapServer)
- [Export Data Base Access](#) (GPServer)
- [Export Data First Nation Members](#) (GPServer)
- [Export Data Regular Members](#) (GPServer)
- [Feature Labels](#) (MapServer)
- [Fire Hydrants](#) (MapServer)
- [FortisBC](#) (MapServer)
- [Infrastructure Mains](#) (MapServer)
- [Jurisdictional Data](#) (MapServer)
- [MapView](#) (MapServer)
- [Northriver Midstream](#) (MapServer)
- [Ortho Cost Sharing](#) (MapServer)
- [Orthophoto Cost Sharing](#) (MapServer)
- [Pacific Northern Gas](#) (MapServer)
- [Shaw](#) (MapServer)
- [Telus](#) (MapServer)
- [Transmountain](#) (MapServer)
- [White background basemap](#) (MapServer)
- [Zoning Polygons](#) (MapServer)

**Supported Interfaces:** [REST](#) [SOAP](#) [Sitemap](#) [Geo Sitemap](#)



# Secured WMS Guide

3. Select "WMS"



**ArcGIS REST Services Directory**

[Home](#) > [services](#) > [BC Oil and Gas Commission \(MapServer\)](#) [Help](#) | [API Reference](#)

[JSON](#) | [SOAP](#) | **WMS**

## BC\_Oil\_and\_Gas\_Commission (MapServer)

**View In:** [ArcGIS JavaScript](#) [ArcGIS Online Map Viewer](#) [ArcMap](#) [ArcGIS Pro](#)

**View Footprint In:** [ArcGIS Online Map Viewer](#)

**Service Description:** A subset of OGC Data including Well Sites, Facility Sites, Ancillary and Other Applications, Pipeline, Rights of Way

**Map Name:** OGC Data

[Legend](#)

[All Layers and Tables](#)

[Dynamic Legend](#)

[Dynamic All Layers](#)

**Layers:**

- [OGC Facility Areas](#) (0)
- [OGC Associated Ancillary Areas](#) (1)
- [OGC Pipeline Rights of Way](#) (2)

4. Make a note of the WMS URL



ArcGIS Server Error

[member.icisociety.ca/wservices/services/BC\\_Oil\\_and\\_Gas\\_Commission/MapServer/WMServer?request=GetCapabilities&service=WMS](http://member.icisociety.ca/wservices/services/BC_Oil_and_Gas_Commission/MapServer/WMServer?request=GetCapabilities&service=WMS)

### Error occurred while processing request

**Type:** Status Report

**Message:**

**Description:** http:499:

ArcGIS Server

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## Obtaining a Token

### 5. Generating a token for ICI Society WMS URL:

Note: This token must be generated from the computer or server that will be interacting with ICI Society services or making requests to ICI Services, please go to the following URL: <https://www.showmyip.com/>

Your external or public facing IP address will be shown in the location of the red boxes. Copy this down for the IP section of token request.

### What is my IP?

Please scroll down to see your IPv6 (if found), and the geolocation details (Country, City, ISP, etc...) of your IP address.

Details:

Your IPv4	<div style="background-color: red; width: 100px; height: 15px;"></div>
Your IPv6	Not found!
Country	Canada
Region	British Columbia
City	North Vancouver
ZIP	V7N
Timezone	America/Vancouver
Internet Service Provider (ISP)	TELUS Communications Inc
Organization	TELUS-FIBRE-VCTABC01
AS number and name	AS852 TELUS Communications Inc.
User agent	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/537.36

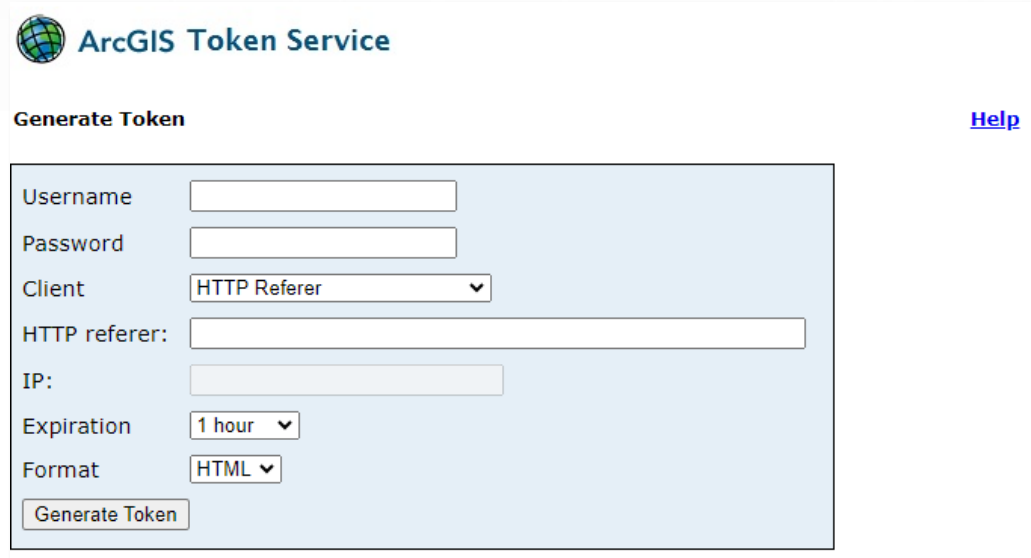


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6. From your computer go to the following URL:

<https://member.icisociety.ca/wservices/tokens/generateToken>

The above URL should show something like the following:



**ArcGIS Token Service**

**Generate Token** [Help](#)

Username

Password

Client

HTTP referer:

IP:

Expiration

Format

Parameters for the token service:

<b>Username:</b>	Put the username that has been previously provided to you by the ICI Support team here
<b>Password:</b>	Put the password that has been previously provided to you by the ICI Support team here
<b>Client:</b>	From the dropdown Select "IP"
<b>IP:</b>	Enter the public facing IP address that was found in the first step
<b>Expiration:</b>	This is the duration that the token will last before expiring. The maximum length of time is 1 year.
<b>Format:</b>	Select between JSON or HTML for the out display for the token

Select "Generate Token" and your token will be shown below the generation box.



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7. Make note of the token and combine it with the WMS URL:

Once again, the syntax for the completed WMS URL:

```
https://<WMS_service_url>?<standard WMS parameters>&token=<valid_tokenString>
```

*Note: make sure to add "&token=" between the WMS URL and the token you generated.*

Example:

[https://member.icisociety.ca/wservices/services/BC Oil and Gas Commission/MapServer/WMSServer?request=GetCapabilities&service=WMS&token=TTt\\_3PQOIJVzilMfo66njFrB9qsrNfQOGMBtmOd-DuyB7hIP796bB9iuiLEaKcy](https://member.icisociety.ca/wservices/services/BC_Oil_and_Gas_Commission/MapServer/WMSServer?request=GetCapabilities&service=WMS&token=TTt_3PQOIJVzilMfo66njFrB9qsrNfQOGMBtmOd-DuyB7hIP796bB9iuiLEaKcy)

*Note: The URL with token is not transferable to other computers, servers or users.*

## Testing:

8. You can test your URL (from step 5) & token (from step 7) in a web browser.



← → 🔍 member.icisociety.ca/wservices/services/BC\_Oil\_and\_Gas\_Commission/MapServer/WMSServer?request=GetCapabilities&service=WMS&token=TTt\_3PQOIJVzilMfo66njFrB9qsrNfQOGMBtmOd-DuyB7hIP796bB9iuiLEaKcy

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0" encoding="UTF-8" ?>
<Capabilities xmlns="http://www.opengis.net/wms" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:esri_wms="http://www.esri.com/wms" version="1.3.0" xsi:schemaLocation="http://www.opengis.net/wms http://schemas.opengis.net/wms/1.3.0/wms.xsd http://www.esri.com/wms http://schemas.esri.com/wms/1.3.0/wms.xsd" ?>
  <Service>
    <Name>
      <![CDATA[ WMS ]]>
    </Name>
    <Title>
      <![CDATA[ BC_Oil_and_Gas_Commission ]]>
    </Title>
    <Abstract>WMS</Abstract>
    <KeywordList>
      <Keyword>
        <![CDATA[ ]]>
      </Keyword>
      <KeywordList>
        <OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:type="simple" xlink:href="https://member.icisociety.ca/wservices/services/BC_Oil_and_Gas_Commission/MapServer/WMSServer?"/>
      </KeywordList>
    </KeywordList>
    <ContactInformation>
      <ContactPersonPrimary>
        <ContactPerson>
          <![CDATA[ ]]>
        </ContactPerson>
        <ContactOrganization>
          <![CDATA[ ]]>
        </ContactOrganization>
      </ContactPersonPrimary>
    </ContactInformation>
  </Service>
</Capabilities>
```

