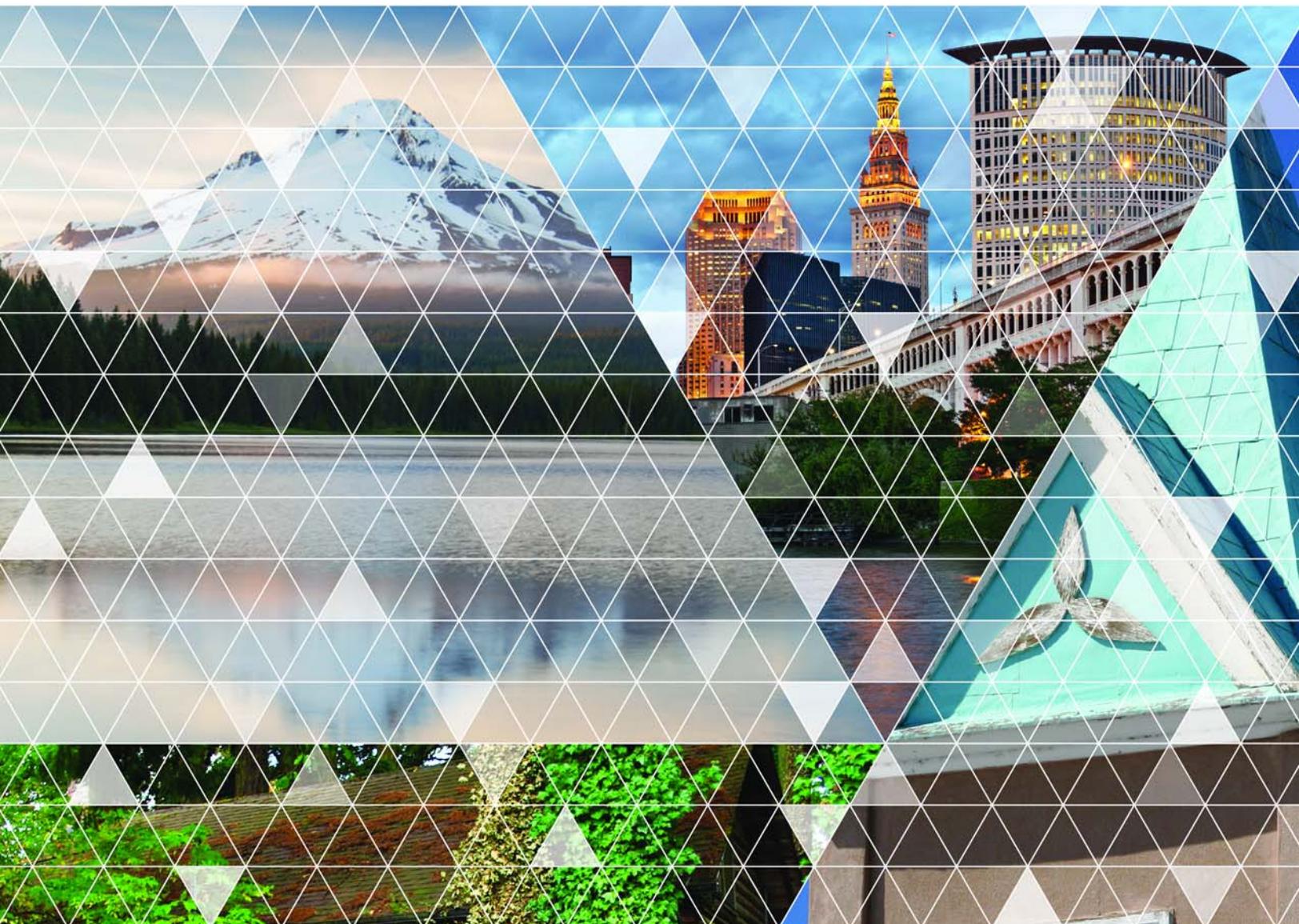


Version 9.3.0

Accela Civic Platform®

# GIS Administrator Guide



## **Accela Civic Platform GIS Administrator Guide**

© 2018 Accela, Inc. All rights reserved.

Accela, the Accela logo, the Accela logo with “Government Software” notation, Accela Automation, Accela Asset Management, Accela Citizen Access, Accela Mobile Citizen Access, Accela ERS, Accela GIS, Accela IVR, Accela Land Management, Accela Licensing, Accela Mobile Office, Accela Public Health and Safety, Accela Service Request, Accela Wireless, Kiva DMS, Kiva Development Management System, 'PERMITS' Plus, SiteSynch, Tidemark Advantage, Civic Platform, Civic Cloud, Civic Hero, E-Boardroom, EnvisionConnect, Envista, GEOTMS, IQM2, Mediatraq, Minutetraq, PublicStuff, Trusted To Do More, VelocityHall, Vantage360, and other Accela logos, devices, product names, and service names are trademarks or service marks of Accela, Inc. Brava! Viewer is a trademark of Informative Graphics Corporation. Windows is a registered trademark of Microsoft Corporation. Acrobat is a trademark of Adobe Systems Incorporated. Portions copyright 2009 Ching-Lan 'digdog' Huang and digdog software. All other company names, product names, and designs mentioned herein are held by their respective owners.

**Version 9.2.0**  
**February 2018**

### **Corporate Headquarters**

2633 Camino Ramon  
Suite 500  
Bishop Ranch 3  
San Ramon, CA 94583

Tel: (888) 722-2352  
Fax: (925) 659-3201

[www.accela.com](http://www.accela.com)

# Contents

Introduction.....	6
Accela GIS vs Accela Silverlight GIS.....	7
Configuring Accela Silverlight GIS.....	9
Accela Silverlight GIS Prerequisites and Configuration Summary.....	10
Prerequisites for ArcGIS Server and ArcGIS Engine.....	11
Prerequisites for Microsoft Bing Maps.....	11
Additional Map Service Preconfiguration.....	11
Configuring Accela Silverlight GIS Integrations.....	12
Configuring Accela Silverlight GIS for Civic Platform.....	12
Configuring Accela Silverlight GIS for Mobile Office Online Mapping.....	13
Configuring Accela Silverlight GIS for Mobile Office Offline Mapping.....	13
Configuring Accela Silverlight GIS for Citizen Access.....	14
Navigating the Accela Silverlight GIS Administration Site.....	15
Logging in to the Accela Silverlight GIS Administration Site.....	16
Logging out of the Accela Silverlight GIS Administration Site.....	17
Integrating Your Environment.....	18
Defining a Map Integration Environment.....	18
Configuring a Map Integration Environment for Creating GIS Features.....	20
Setting up a Map Service Connection.....	22
Setting up a Connection to a Map Service.....	22
Configuring Additional Map Services.....	44
Defining User Groups and Permissions.....	45
Setting User Group Access to Map Functions.....	45
Setting User Group Access to Map Commands.....	48
Setting User Group Access to Map Layers.....	52
Creating an Additional User Group.....	53
Configuring Additional Settings.....	55
Configuring External Address, Parcel, and Owner Settings.....	55
Configuring Data Export Settings.....	58
Configuring Hotlink Settings.....	60
Managing Offline Map Data.....	62
Creating a Data Package for Offline Maps.....	62
Modifying Map Integration Settings.....	64
Editing a Map Integration Environment.....	64
Adding a Map Service to an Integration Environment.....	66

Adding a User Group to an Integration Environment.....	68
Configuring Agency Settings.....	71
Changing the Administration Site Password.....	71
Customizing Labels.....	72
Configuring Global Variable Settings.....	73
Syncing Address Format and Address Form Layout.....	77
Clearing Cache Data Manually.....	80
Using Maintenance Tools.....	83
Running General Diagnostics.....	83
Diagnosing ArcGIS Server Map Services.....	84
Viewing Log Files.....	87
<b>Configuring Accela GIS.....</b>	<b>89</b>
Accela GIS Prerequisites and Configuration Summary.....	90
Configuring Accela GIS Integrations.....	93
Civic Platform and Accela GIS Integration.....	93
Citizen Access and Accela GIS Integration.....	95
The Accela GIS Administration Site.....	98
Accela GIS System Administration.....	99
Initial Setup.....	99
Managing Agencies.....	100
Managing Agency Administrators.....	100
HTTP Request Timeout.....	101
Accela GIS Agency Administration.....	102
Map Profiles.....	104
Product Integrations.....	120
Custom Widgets.....	132
XAPO Configuration for Accela GIS.....	134
<b>Appendices.....</b>	<b>139</b>
Configuring Civic Platform.....	140
Configuring GIS Services in Civic Platform.....	140
Configuring Dynamic Themes in Civic Platform.....	142
Configuring XAPO in Civic Platform.....	151
Configuring Proximity Alerts in Civic Platform.....	156
Enabling the GIS REST API in Civic Platform.....	157
Creating Attribute Mapping.....	157
Securing Communications.....	161
Communication Security Overview.....	161
Importing the Accela GIS Server Certificate.....	162
Requiring the Use of HTTPS.....	163

Application Pool Pipeline Mode in IIS Manager.....166

## Introduction

---

**Accela GIS** provides a geographic view of all land-use, zoning, and infrastructure information associated with agency records, such as parcels, permits, inspections, plans, assets, work orders, and service requests. Agency users can manage records within Accela GIS and efficiently complete research tasks — from identifying records within their agency’s jurisdiction to determining the staff assigned to specific jobs. Accela GIS leverages geospatial data to streamline agency processes and is compatible with Windows and Web-based applications.

For example, an inspector can use Accela GIS to search for assigned inspections within a community or neighborhood. The inspector can also use Accela GIS to create an inspection route sheet and obtain driving directions. Accela GIS helps simplify these and other daily tasks.

Accela GIS is Civic Platform's latest map viewer using JavaScript. Accela Silverlight GIS is the Microsoft Silverlight version of the map viewer in the legacy (pre-8.x) user interface of Civic Platform.

Accela GIS administration consists of the following tasks:

- **Set up map service connections** - A map service connection defines the parameters for connecting to your agency's GIS service provider.
- **Create map profiles** - A map profile is a set of map services that can be easily shared across integrations or user groups.
- **Configure map integration environments** - A map integration environment integrates your agency's GIS system, Accela GIS, and Civic Platform applications.
- **Define user groups and permissions** - User groups and permission settings ensure that end-users are given or restricted access to GIS features and information.
- **Deploy custom widgets** - If your agency has built custom map widgets, they must be deployed and enabled for user groups.
- **Setup custom GIS data integrations** - External address, parcel, and object (XAPO) data source and custom GIS queries as dynamic themes can be configured and integrated with the map viewer.
- **System administration** tasks such as managing users, agency administrator, email notification setup, and viewing diagnostic logs

This guide describes the prerequisites, configuration, and administration tasks to enable Accela GIS.

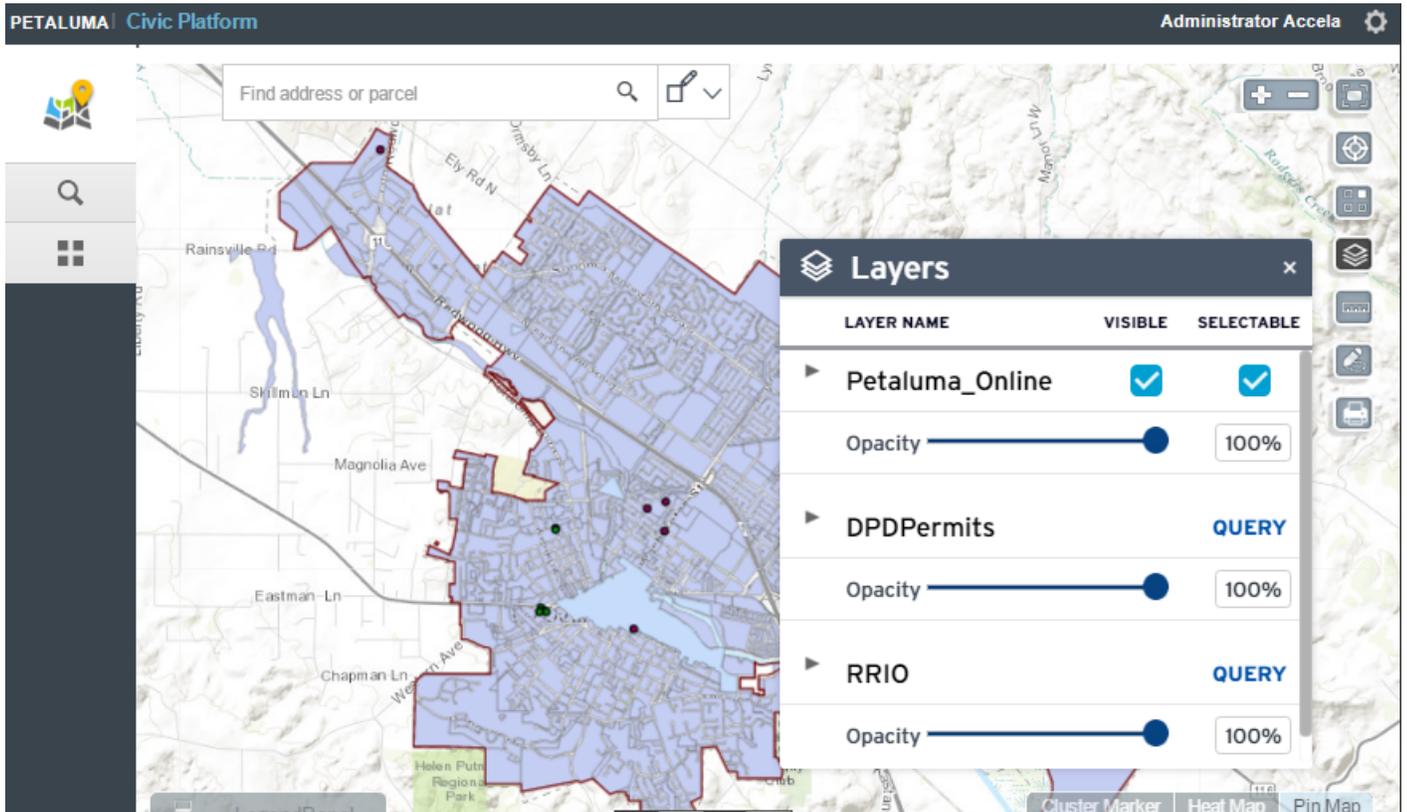
### Related Links

[Accela GIS vs Accela Silverlight GIS](#)

# Accela GIS vs Accela Silverlight GIS

## Accela GIS

**Accela GIS** is the JavaScript version of the map viewer embedded in Civic Platform 8.x and later. Features of the JavaScript map viewer include place locator, bookmarks, a variety of base maps, redlining, editing and display options when viewing locations passed from a list, such as cluster marker and heat map.



- Accela GIS integrates with the 8.x+ (and later versions) of Civic Platform. Civic Platform 8.x+ allows users to switch to the legacy (pre-8.x) Civic Platform user interface which uses the Accela Silverlight GIS map viewer. Users can switch to the legacy user interface to use existing features that are not currently available in the JavaScript version.
- To configure Accela GIS, use the Accela Administration site. For details about GIS Administration, see [Configuring Accela GIS](#).  
The GIS Administration site only supports map service and integration configurations for the JavaScript version. GIS Administration is not compatible with existing Accela Silverlight GIS 7.x map service and integration configurations. Existing Accela Silverlight GIS 7.x customers who intend to use Accela GIS 8.x+ will need to define map service configurations using the Accela GIS Administration site. This means that for a limited time, agencies will need to set up both versions of Accela GIS and configure both versions. However, both configurations can point to the same map services.

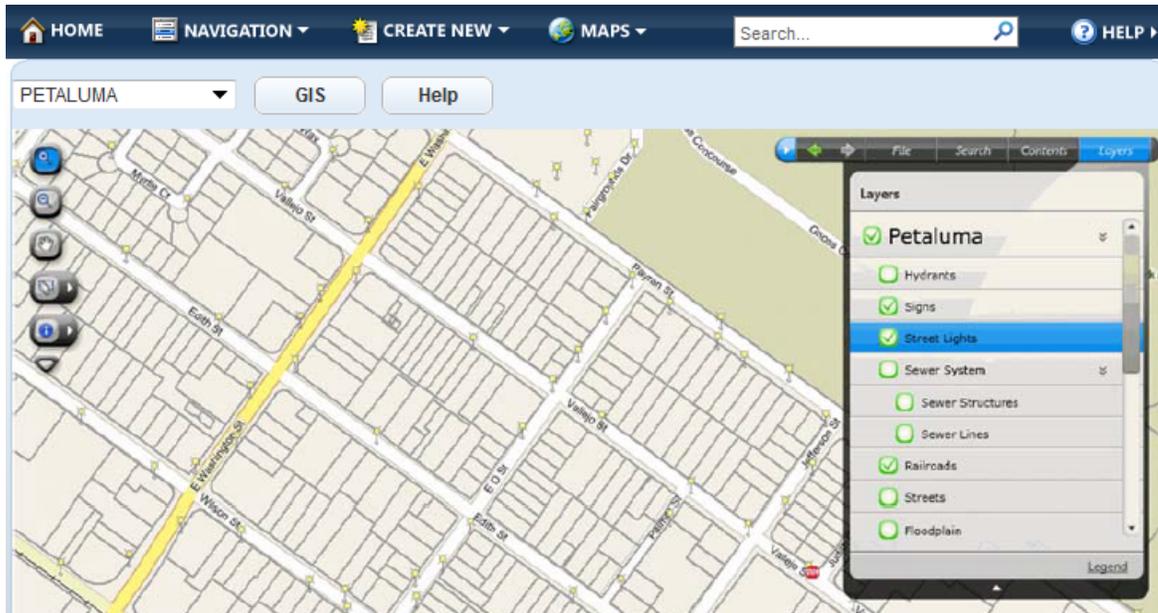
You will need both Accela GIS and Accela Silverlight GIS versions if one or more of the following is true:

- Users will switch between the 8.x+ and legacy (pre-8.x) user interface on a daily basis.

- Your agency offers maps in Citizen Access. Civic Platform GIS has integrated with Citizen Access on the module home page and record detail page, but does not yet integrate with other Citizen Access pages.

## Accela Silverlight GIS

Accela Silverlight GIS is the Microsoft Silverlight version of the map viewer:



- Accela Silverlight GIS integrates with the legacy versions of Civic Platform (formerly known as "Accela Automation V360"), Mobile Office, and Citizen Access.
- In Civic Platform 8.x+, Accela Silverlight GIS supports the ability to switch to the legacy user interface which uses the Accela GIS map viewer.
- To configure Accela Silverlight GIS, use the Accela Silverlight GIS Administration site. For details about Accela Silverlight GIS Administration, see [Configuring Accela Silverlight GIS](#).

## Configuring Accela Silverlight GIS

---

The following topics describe the Accela Silverlight GIS configuration tasks:

- [Accela Silverlight GIS Prerequisites and Configuration Summary](#)
- [Configuring Accela Silverlight GIS Integrations](#)
- [Navigating the Accela Silverlight GIS Administration Site](#)
- [Integrating Your Environment](#)
- [Setting up a Map Service Connection](#)
- [Defining User Groups and Permissions](#)
- [Configuring Additional Settings](#)
- [Managing Offline Map Data](#)
- [Modifying Map Integration Settings](#)
- [Configuring Agency Settings](#)
- [Using Maintenance Tools](#)

## Accela Silverlight GIS Prerequisites and Configuration Summary

The following table summarizes the prerequisites and required configurations for Accela Silverlight GIS. In this checklist, Accela Silverlight GIS is referred to as *Silverlight GIS*, and Civic Platform GIS (JavaScript version) is referred to as *JavaScript GIS*.

**Important:** To help you towards a successful Accela Civic Platform GIS installation and configuration, follow all the steps listed in the prerequisite checklist. A missed prerequisite or configuration will require you to fully uninstall and reinstall Accela Civic Platform GIS.

Prerequisite	Required or optional?	Reference information
Install <i>Silverlight GIS</i> .	Required	<a href="#">Accela Civic Platform GIS Installation Guide</a>
Install <i>JavaScript GIS</i> .	Required if: <ul style="list-style-type: none"> <li>Agency users switch between the legacy and 8.x user interface of Civic Platform</li> <li>Agency is upgrading to Citizen Access 8.0.1 and later</li> </ul>	<a href="#">Accela Civic Platform GIS Installation Guide</a>
Configure security settings.	Required	<a href="#">Securing Communications</a>
Configure ArcGIS Server and ArcGIS Engine Prerequisites.	Required	<a href="#">Prerequisites for ArcGIS Server and ArcGIS Engine</a>
Configure <i>Silverlight GIS</i> integration with Civic Platform.	Required	<a href="#">Configuring Accela Silverlight GIS for Civic Platform</a>
Configure <i>JavaScript GIS</i> integration with Civic Platform.	Required if agency users switch between the legacy and 8.x user interface of Civic Platform	<a href="#">Civic Platform and Accela GIS Integration</a>
Configure <i>Silverlight GIS</i> integration with Citizen Access.	Required if agency is using Citizen Access	<a href="#">Configuring Accela Silverlight GIS for Citizen Access</a>
Configure <i>JavaScript GIS</i> integration with Citizen Access.	Required if agency is using Citizen Access	<a href="#">Citizen Access and Accela GIS Integration</a>
Configure <i>Silverlight GIS</i> integration with Mobile Office Online.	Required if agency is using Mobile Office Online	<a href="#">Configuring Accela Silverlight GIS for Mobile Office Online Mapping</a>
Configure <i>Silverlight GIS</i> integration with Mobile Office Offline.	Required if agency is using Mobile Office Offline	<a href="#">Configuring Accela Silverlight GIS for Mobile Office Offline Mapping</a>
Configure Bing Map Prerequisites.	Required if agency is using Bing Maps.	<a href="#">Prerequisites for Microsoft Bing Maps</a>
Configure Routing and Geocoding Map Service Prerequisites.	Required if agency is using Routing and Geocoding services.	<a href="#">Additional Map Service Preconfiguration</a>
Configure APO and XAPO Features in Civic Platform.	Required if agency intends to leverage APO and XAPO integration features with Civic Platform. For example, auto-populating and synchronizing APO data with records.	<a href="#">Accela Civic Platform Configuration Guide</a> > Configuring and Enabling APO and XAPO Features

## Prerequisites for ArcGIS Server and ArcGIS Engine

Accela Silverlight GIS supports GIS services published to ArcGIS for Server. To integrate with Accela Silverlight GIS, you must purchase a license for one of the aforementioned ArcGIS Server versions.

Additionally, you must publish a map service. ArcGIS Server hosts the map service for Civic Platform, Citizen Access, and online Mobile Office GIS functions. ArcGIS Engine hosts the map service for offline Mobile Office GIS functions.

If your agency integrates with ArcGIS Server services, you must also complete the ArcMap, ArcCatalog, ArcSDE, MXD, and ArcGIS Server prerequisites described in the *Accela Silverlight GIS for ArcGIS Server Configuration Guide*.

## Prerequisites for Microsoft Bing Maps

The use of Bing Maps as a map service provider requires your agency to obtain a Bing Maps license key from Microsoft, and enter it in the **Bing Maps License Key** masked field on Accela Silverlight GIS Administration > **Global Variable Settings**.

To successfully integrate with Bing Maps, ensure that you have configured the Web Feature Service and Web Map Service and the services use the same data source.

### Related Links

[Configuring Global Variable Settings](#)

## Additional Map Service Preconfiguration

If you plan to use geocoding or routing in your map integration environment, you must configure distinct geocoding and routing map services.

Geocoding is the ability to find a location, such as a street address, based on existing geographic data. For example, you might want to use Accela Silverlight GIS to identify a specific street address and plot the address on the map. Accela Silverlight GIS can identify and plot the address using existing GIS data, such as the street name and the range of even-numbered and odd-numbered addresses.

Routing is the ability to identify a course of travel between different stops or different locations. For example, an inspector might have five inspections to conduct within one neighborhood. The inspector can use Accela Silverlight GIS to create an inspection route sheet or an inspection path that indicates the order in which he should conduct the five inspections. The inspector can also use Accela Silverlight GIS to create a route sheet that minimizes the distance or time traveled between stops. Additionally, the inspector can use Accela Silverlight GIS to obtain driving directions between each stop.

If you plan to use geodata for offline data mapping, then you must add the data to the geodatabase prior to configuring Accela Silverlight GIS.

## Configuring Accela Silverlight GIS Integrations

---

The Accela Silverlight GIS configuration steps vary depending on the Accela application that your agency uses. Accela Silverlight GIS can be integrated with the following Accela applications:

- **Civic Platform** - Accela Silverlight GIS integrates with the legacy user interface of Civic Platform (pre-8.x) which uses the Silverlight version of the map viewer. If your agency integrates with Civic Platform, the Accela Silverlight GIS application server automatically registers any changes or updates that agency users make and requires no additional synchronization. For details, see [Configuring Accela Silverlight GIS for Civic Platform](#).
- **Mobile Office Online Mapping** - Accela Silverlight GIS integrates with Mobile Office Online Mapping version 7.x. If your agency integrates with Mobile Office and agency users access Accela Silverlight GIS when they are online, any changes or updates Mobile Office users make are automatically registered on the Accela Silverlight GIS application server; no additional synchronization is required. For details, see [Configuring Accela Silverlight GIS for Mobile Office Online Mapping](#).
- **Mobile Office Offline Mapping** - Accela Silverlight GIS integrates with Mobile Office Offline Mapping version 7.x. If your agency integrates with Mobile Office and Mobile Office users access Accela Silverlight GIS when they are offline, you must create a data package. A data package includes the map layer information that Mobile Office users can access and modify when they work offline. When Mobile Office users are online, they can upload the changes to the Accela Silverlight GIS Server. For details, see [Configuring Accela Silverlight GIS for Mobile Office Offline Mapping](#).
- **Citizen Access** - Accela Silverlight GIS integrates with Citizen Access. If your agency integrates with Citizen Access, the Accela Silverlight GIS application server automatically registers any changes or updates that agency users make and requires no additional synchronization. For details, see [Configuring Accela Silverlight GIS for Citizen Access](#).

### Related Links

- [Configuring Accela Silverlight GIS for Civic Platform](#)
- [Configuring Accela Silverlight GIS for Mobile Office Online Mapping](#)
- [Configuring Accela Silverlight GIS for Mobile Office Offline Mapping](#)
- [Configuring Accela Silverlight GIS for Citizen Access](#)

## Configuring Accela Silverlight GIS for Civic Platform

To configure Accela Silverlight GIS for Civic Platform, you must define a map integration environment, set up a connection to a map service, define user groups and their permissions, and configure required additional settings. Additional settings include external address, parcel, and owner configuration, hotlink configuration, and data export settings.

The following are the required steps to set up a map integration environment for Civic Platform:

- [Integrating Your Environment](#)
- [Setting up a Map Service Connection](#)
- [Defining User Groups and Permissions](#)
- [Configuring Additional Settings](#)

- [Configuring GIS Services in Civic Platform](#)

When you configure a map integration environment, you can modify the configuration settings. For example, you might want to add a map provider or modify user group permission levels. To modify map integration environment settings, follow the steps described in [Modifying Map Integration Settings](#).

Finally, you can access the Global Variable Settings page and modify the Accela Silverlight GIS Administration site password, customize map labels to accommodate different languages, and configure global display settings. For instructions on how to configure these settings, follow the steps described in [Configuring Agency Settings](#).

In addition to configuring a map integration environment for Civic Platform, you must also import the Accela Silverlight GIS server certificate in to the Civic Platform application server. For instructions on how to import the Accela Silverlight GIS server certificate, see [Importing the Accela GIS Server Certificate](#).

## Configuring Accela Silverlight GIS for Mobile Office Online Mapping

Accela Silverlight GIS integrates with Mobile Office version 7.x.

When Mobile Office users are online, they connect with the Accela Silverlight GIS application server and they use Accela Silverlight GIS in Online mode. The Accela Silverlight GIS application server automatically registers any changes or updates that agency users make and requires no additional synchronization. When Mobile Office users are online, they connect to the Accela Silverlight GIS server and access maps created in ArcGIS Server.

To configure Accela Silverlight GIS for Mobile Office Online Mapping, you must define a map integration environment, set up a connection to a map service, and define user groups and their permissions.

The following are the required steps to set up a map integration environment for Mobile Office Online Mapping.

- [Integrating Your Environment](#)
- [Setting up a Map Service Connection](#)
- [Defining User Groups and Permissions](#)

When you configure a map integration environment, you can modify the configuration settings. For example, you might want to add a map provider or modify user group permission levels. To modify map integration environment settings, follow the steps described in [Modifying Map Integration Settings](#).

You can access the Global Variable Settings page to modify the Accela Silverlight GIS Administration site password, customize map labels to accommodate different languages, and configure global display settings. For instructions on how to configure these settings, follow the steps described in [Configuring Agency Settings](#).

## Configuring Accela Silverlight GIS for Mobile Office Offline Mapping

Accela Silverlight GIS integrates with Mobile Office version 7.x.

When Mobile Office users are offline, they must work from a map stored locally in their wireless device. The map and related map data that users access in offline mode are configured in the Accela Silverlight

GIS Administration site using ArcGIS Engine. ArcGIS Engine is leveraged by Mobile Office for offline mapping. ArcGIS Engine downloads offline data from the Accela Silverlight GIS Administration site to a local client machine and facilitates offline mapping functionality.

When you configure a map integration for Mobile Office Offline Mapping, you must create a data package. A data package includes the map layer information that Mobile Office users can access and modify when they work offline. When Mobile Office users connect online, they can upload the changes to the Accela Silverlight GIS Server.

The following are the required steps to set up a map integration environment for Mobile Office Offline Mapping:

- [Integrating Your Environment](#)
- [Setting up a Map Service Connection](#)
- [Defining User Groups and Permissions](#)
- [Managing Offline Map Data](#)

When you configure a map integration environment, you can modify the configuration settings. For example, you might want to add a map provider or modify user group permission levels. To modify map integration environment settings, follow the steps described in [Modifying Map Integration Settings](#).

Finally, you can access the Global Variable Settings page and modify the Accela Silverlight GIS Administration site password, customize map labels to accommodate different languages, and configure global display settings. For instructions on how to configure these settings, follow the steps described in [Configuring Agency Settings](#).

## Configuring Accela Silverlight GIS for Citizen Access

To configure Accela Silverlight GIS for Citizen Access, you must define a map integration environment, set up a connection to a map service, and define user groups and permissions.

The required steps to set up a map integration environment for Citizen Access are listed below, chapter by chapter.

- [Integrating Your Environment](#)
- [Setting up a Map Service Connection](#)
- [Defining User Groups and Permissions](#)

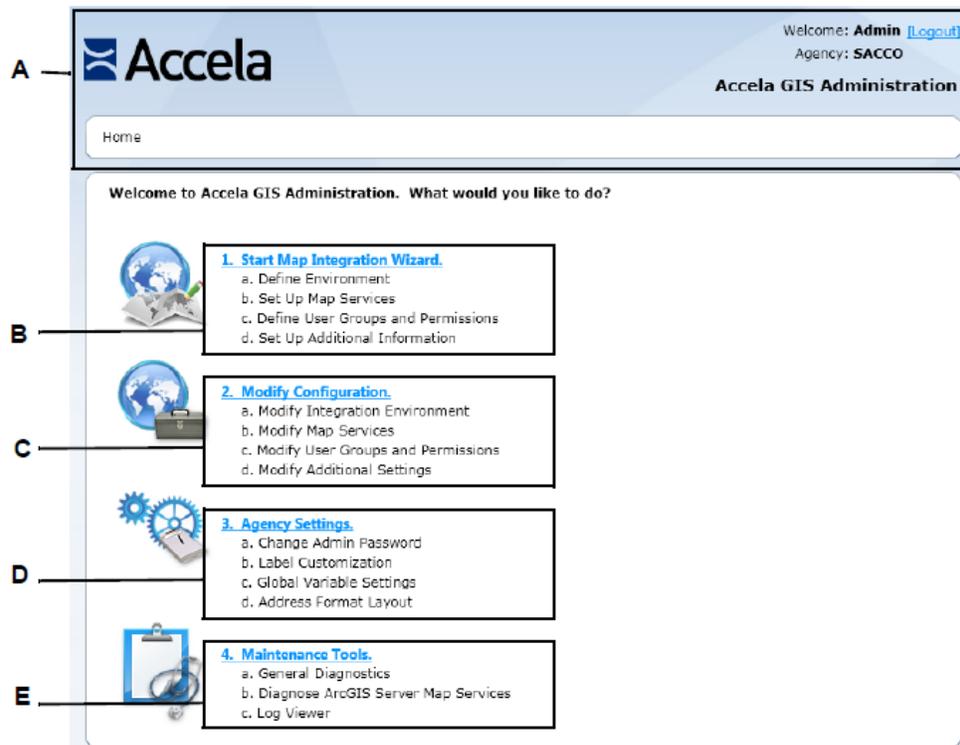
Once you configure a map integration environment, you can modify the configuration settings. For example, you might want to add a map provider or modify user group permission levels. To modify map integration environment settings, follow the steps described in [Modifying Map Integration Settings](#).

Finally, you can access the Global Variable Settings page and modify the Accela Silverlight GIS Administration site password, customize map labels to accommodate different languages, and configure global display settings. For instructions on how to configure these settings, follow the steps described in [Configuring Agency Settings](#).

## Navigating the Accele Silverlight GIS Administration Site

This topic explains how to access the Accele Silverlight GIS Administration site URL. When you access the site, you can log in and create an integration environment or modify agency settings. When you complete a session or leave your computer, you can log out. Accele Silverlight GIS is compatible with most browsers including Internet Explorer and Firefox. See your agency administrator for more details.

If you frequently use the Accele Silverlight GIS Administration site, add the URL to your list of favorites or frequently visited sites. You might also consider setting up a link to the Accele Silverlight GIS Administration site from your agency intranet or a secured area of your agency website. [Figure 1: Accele Silverlight GIS Administration Site](#) describes the components of the Accele Silverlight GIS Administration site. The related topics describes the login and logout procedures.



**Figure 1: Accele Silverlight GIS Administration Site**

- A Navigation Bar. This section displays the Home page link, the agency name, the user name, and the Logout link. As you navigate through the site, the Navigation bar displays breadcrumbs as a navigation aid
- B Map Integration Wizard. This section displays the Map Integration Wizard link and the steps required to configure Accele Silverlight GIS for your agency. Click the Start Map Integration Wizard link to define a map integration environment, set up a map service connection, define user groups and their permissions, and configure external address, parcel, and owner data and data export settings.
- C Modify Configuration. This section displays the Modify Configuration link and the steps required to alter existing configuration, including the map integration environment, the map service, and the user groups and their permissions.
- D Agency Settings. This section displays the Agency Settings link. Click this link to modify the Accele Silverlight GIS Administration site password, customize map labels, and configure global variable settings.
- E Maintenance Tools. This section displays the Maintenance Tools link. Click this link to run diagnostics on Accele Silverlight GIS and view the log files.

### Related Links

[Logging in to the Accela Silverlight GIS Administration Site](#)

[Logging out of the Accela Silverlight GIS Administration Site](#)

## Logging in to the Accela Silverlight GIS Administration Site

To access the Accela Silverlight GIS Administration site, you must first log in with your user name and password. Maintain site security by keeping your password confidential.

The administration site URL is: `http://agisservername/virtualroot/admin/`, where *agisservername* represents the name or IP:Port of your IIS Web server where you installed Accela Silverlight GIS, and *virtualroot* represents the virtual root that you entered for the Accela Silverlight GIS web application, such as *agis*.

If your IIS Web server is using the default port, you do not need to include it in the URL. For example, if your IIS Web server is using the default port, your agency's Accela Silverlight GIS Administration site URL might be `http://agisbridgeview/agis/admin/`.

If your IIS Web server is not using the default port, you need to include the port in the URL. In this example, your agency's Accela Silverlight GIS Administration site URL might be `http://agisbridgeview:6080/agis/admin/`.



### Note:

You must install Silverlight to access the Accela Silverlight GIS Administration site and the Accela Silverlight GIS map viewer. If you attempt to access the Accela Silverlight GIS Administration site or the Accela Silverlight GIS map viewer without first installing Silverlight, a message appears, prompting you to download and install Silverlight.

### To log in to the Accela Silverlight GIS Administration site

1. Open your browser.
2. Enter the URL for the Accela administration site in the Address bar of your browser.  
Accela Silverlight GIS displays the administration site Login page.

3. Complete the following fields:

User Name	By default, the user name that populates this field is Admin. Accela Silverlight GIS supports one administrative user per agency.
Password	The first time you log in to the Accela Silverlight GIS Administration site, enter "admin" as the password. After you log in for the first time, change the password.
Agency	Select your agency's name from the drop-down list. If you do not know your agency's name, contact your Accela Implementation team representative.

4. Click the **Login** button.  
Accela Silverlight GIS displays the administration site home page.

 Welcome: **Admin** [Logout](#)  
Agency: **SACCO**  
**Accela GIS Administration**

Home

Welcome to Accela GIS Administration. What would you like to do?

-  **1. Start Map Integration Wizard.**
  - Define Environment
  - Set Up Map Services
  - Define User Groups and Permissions
  - Set Up Additional Information
-  **2. Modify Configuration.**
  - Modify Integration Environment
  - Modify Map Services
  - Modify User Groups and Permissions
  - Modify Additional Settings
-  **3. Agency Settings.**
  - Change Admin Password
  - Label Customization
  - Global Variable Settings
  - Address Format Layout
-  **4. Maintenance Tools.**
  - General Diagnostics
  - Diagnose ArcGIS Server Map Services
  - Log Viewer

## Logging out of the Accela Silverlight GIS Administration Site

To maintain the site security, log out when you complete a session on the Accela Silverlight GIS Administration site, or if you are away from your computer. To log out from the site, click the **Logout** link on the Navigation bar.

## Integrating Your Environment

The first step in configuring Accela Silverlight GIS is to define a map integration environment. When you define a map integration environment, you identify the agency that uses Accela Silverlight GIS and Civic Platform, such as the Civic Platform application, Mobile Office, or Citizen Access.

### Related Links

[Defining a Map Integration Environment](#)

[Configuring a Map Integration Environment for Creating GIS Features](#)

## Defining a Map Integration Environment

This topic applies to Accela Silverlight GIS.

A map integration environment connects your agency's Civic Platform application and your agency's GIS system, such as ArcGIS Server or Bing Maps.

### To define a map integration environment

1. If necessary, log in to the Accela Silverlight GIS Administration site.

The Accela Silverlight GIS Administration site displays the administration home page.

2. Click the **Start Map Integration Wizard** link.

The Accela Silverlight GIS Administration site displays the Define Integration Environment page.

The screenshot shows the 'Define Integration Environment' page in the Accela GIS Administration interface. At the top left is the Accela logo. At the top right, it says 'Welcome: Admin [Logout]' and 'Agency: SACCO'. Below the breadcrumb 'Home >> Integration Environment', there is a globe icon and the title 'Define Integration Environment'. The main form area contains the following fields:

- Integration Name:** \* [Text input field]
- AA GIS Service ID:** \* [Text input field]
- Product:** \* [Dropdown menu with '--- Select ---']
- Default:** [Checkbox]

At the bottom of the form, there is a message: 'Click Next to set up Map Service'. At the bottom right of the page, there are 'Back' and 'Next' buttons.

3. Complete these fields:

AA GIS Service ID	Enter the name of your GIS map service ID, as set in Civic Platform Classic Administration. The field value you enter is case-sensitive.
Integration Name	Enter the name of your map integration environment, such as Bridgeview - Mobile Office Online Mapping or Bridgeview - Mobile Office Offline Mapping.

If you configure an integration environment for Mobile Office, the field value you enter must match the one in the GIS Integration for Online Mapping or GIS Integration for Offline Mapping field on the Mobile Office administration site. This includes uppercase, lowercase, spaces, and any other punctuation.

For specific information on configuring an Mobile Office user group to use Accela Silverlight GIS mapping, see “Managing General Settings” in the Mobile Office Administrator Guide.

#### Product

Use the drop-down list to select the target Civic Platform application. You can choose Accela Automation V360, Mobile Office, or Citizen Access.

If you select Mobile Office, an Offline Mapping check box displays. Mark this check box if you want to set up an integration environment for offline mapping. You can only add one map service to the integration environment that you define for offline mapping.

When you configure a map integration for Mobile Office Offline Mapping, you must create a data package. A data package includes the map layer information that Mobile Office users can access and modify when they work offline. When Mobile Office users are online, they can upload the changes to the Accela Silverlight GIS Server.

If you mark the Offline Mapping check box, the Map Integration Wizard directs you to the Offline Map Data Management page after you complete user group configuration. For instructions on how to configure a data package for offline mapping, see [Managing Offline Map Data](#).

#### Default

Mark this check box if you want the map integration environment to display by default.

After selecting the product, the Accela Silverlight GIS Administration site displays the Application Server URL, Accela Automation User Name, and Accela Automation User Password fields.

The screenshot shows the 'Define Integration Environment' form in the Accela GIS Administration interface. The page header includes the Accela logo, a welcome message for 'Admin' with a 'Logout' link, and the agency name 'SACCO'. The breadcrumb trail is 'Home >> Integration Environment'. The form title is 'Define Integration Environment' with a scroll icon. The form fields are as follows:

Integration Name: *	<input type="text" value="Sacco"/>
AA GIS Service ID: *	<input type="text" value="Sacco"/>
Product: *	<input type="text" value="Accela Automation V360"/>
Application Server URL: *	<input type="text" value="https://biz.ist.accela.com:3080/wireless/GovXMLSe"/>
Accela Automation User Name: *	<input type="text" value="admin"/>
Accela Automation Password: *	<input type="password" value="•••••"/>
Default:	<input type="checkbox"/>

Below the form, there is a link 'Click Next to set up Map Service' and two buttons: 'Back' and 'Next'.

#### 4. Complete these fields:

##### Application Server URL

Enter the application server URL. For example, if you select Accela Automation V360 from the Product drop-down list, then you must enter your Civic Platform Application Server URL. In the image above, the Application Server URL is `http://biz.ist.accela.com:3080/wireless/GovXMLServlet` where `biz.ist.accela.com` represents your agency's business application server name.

Accela Automation User Name	Enter a valid Civic Platform User Name. Accela Silverlight GIS uses the user name that you entered to communicate with the Application Server.
Accela Automation Password	Enter a valid Civic Platform Password. Accela Silverlight GIS uses the password that you entered to communicate with the Application Server.

5. Click the **Next** button.

The Accela Silverlight GIS Administration site displays the Map Service Connection page.

The screenshot shows the 'Set Up Map Service' page in the Accela GIS Administration interface. At the top, the Accela logo is on the left, and user information 'Welcome: Admin [Logout]' and 'Agency: SACCO' is on the right. Below this is the page title 'Accela GIS Administration'. A breadcrumb trail reads 'Home >> Integration Environment - Sacco >> Map Service'. The main heading is 'Set Up Map Service' with a globe icon. The 'GIS Server Settings' section contains the following fields:

- Choose GIS Provider: \* ESRI ArcGIS Server (dropdown)
- Server: \* (text input)
- Port: \* 80 (text input)
- Use HTTPS Scheme (checkbox, unchecked)
- Instance: \* arcgis (text input)
- User Name: (text input)
- Password: (text input)
- Map Service: \* (dropdown menu)
- Retrieve Service (link)
- Default Map Service:

Below the settings is a 'GIS Service Information' section with a dropdown arrow.

6. Set up a map service connection. For instructions on setting up a map service connection, see [Setting up a Map Service Connection](#).

## Configuring a Map Integration Environment for Creating GIS Features

If your agency uses ESRI ArcGIS Server map services, you can configure a map integration environment that allows agency users to create and edit GIS features. When an agency user creates or edits a GIS feature, the ArcGIS geodatabase and Accela database are updated.

This feature requires you to complete three configuration steps in the Accela Silverlight GIS Administration site.

The first step is to configure map layers for editing. For more information on how to configure map layers for editing, see [Importing and Configuring Map Layer Settings](#).

The second step is to configure map layer attributes for editing. For more information on how to configure map layer attributes for editing, see [Importing and Configuring Map Layer Settings](#).

The third step is to configure the user group permissions that allow agency users to create and edit GIS features and attributes. This requires user group configuration for map functions, map commands, and map layers. For more information on how to configure user group permissions for these functions, see

[Setting User Group Access to Map Functions](#), [Setting User Group Access to Map Commands](#), and [Setting User Group Access to Map Layers](#).

Based on the Accela application your agency integrates with, you might need to complete additional configuration steps. If your agency integrates with Civic Platform, configure Civic Platform to enable agency users to modify records directly from Accela Silverlight GIS. See [Managing Civic Platform Application Intake Forms](#).

If your agency integrates with Mobile Office, you do not need to complete any additional configuration.

## Managing Civic Platform Application Intake Forms

Agency users can associate one or many forms of data with an application intake form. This data includes address, parcel, owner, and GIS feature details. Agency users can map and modify application intake form data.

If you want to give agency users the option to map data that already exists in the Civic Platform Reference Database, then configure the Standard Choice MULTIPLE\_APO\_GIS\_SELECTION with a value of Yes.

If you want to give agency users the option to map data that they enter, then configure the Standard Choice MULTIPLE\_APO\_GIS\_SELECTION with a value of No.

[Table 1: Application Intake Form Commands](#) shows how the configuration of the Standard Choice MULTIPLE\_APO\_GIS\_SELECTION determines how Accela Silverlight GIS maps data from an application intake form.

**Table 1: Application Intake Form Commands**

Application Intake Form Command	Standard Choice Configuration
Agency user enters an address in the Address section and clicks the GIS button.	Accela Silverlight GIS displays the address when MULTIPLE_APO_GIS_SELECTION is set to a value of No
Agency user looks up an existing address in the Address section and clicks the GIS button.	Accela Silverlight GIS displays the address when MULTIPLE_APO_GIS_SELECTION is set to a value of Yes.
Agency users enters or looks up a parcel in the Parcel section and clicks the GIS button.	Accela Silverlight GIS displays the parcel when MULTIPLE_APO_GIS_SELECTION is set to a value of Yes.
Agency users enters a GIS feature in the Associated GIS Features section and clicks the GIS button.	Accela Silverlight GIS displays the GIS feature when MULTIPLE_APO_GIS_SELECTION is set to a value of No.
Agency user selects an existing GIS feature in the Associated GIS Features section and clicks the GIS button.	Accela Silverlight GIS displays the GIS feature when MULTIPLE_APO_GIS_SELECTION is set to a value of Yes.

## Setting up a Map Service Connection

---

The second step in configuring Accela Silverlight GIS is to set up a connection to a map service. When you set up a connection to a map service, you connect Accela Silverlight GIS with your agency's GIS system, such as ArcGIS Server or Bing Maps.

Before you can set up a connection to a map service, you must define a map integration environment. For instructions, see [Integrating Your Environment](#).

The following topics explain how to set up a connection to a map service.

### Related Links

[Setting up a Connection to a Map Service](#)

[Configuring Additional Map Services](#)

## Setting up a Connection to a Map Service

This topic applies to Accela Silverlight GIS.

Connect Accela Silverlight GIS to your agency's GIS system, or map provider, through a map service.

You can associate multiple map services with the same map integration environment, which allows agency users the flexibility of working with different map services in the map viewer.

The Map Service Connection page provides sections where you can configure basic map viewer settings. Use these sections to identify your map provider, set the initial extent of the map viewer, import map layers, and retrieve Civic Platform Dynamic Themes. Optionally, you can also use this page to retrieve your geocoding and routing services.

### Topics

- [Configuring GIS Server Settings](#)
- [Configuring GIS Service Information](#)
- [Importing and Configuring Map Layer Settings](#)
- [Configuring Map Style Settings](#)
- [Retrieving and Selecting a Geocoding Service](#)
- [Retrieving and Selecting a Routing Service](#)
- [Retrieving and Configuring Dynamic Themes in Accela Silverlight GIS](#)

### Configuring GIS Server Settings

Use the GIS Server Settings section to identify your map provider, such as Esri ArcGIS Engine, Esri ArcGIS Server, Esri ArcGIS Online Base Map, Esri ArcGIS Online Web Map, Esri Image Server, Microsoft Bing Maps, or your agency's GIS server.

In addition, Accela Silverlight GIS supports map providers that meet the Open Geospatial Consortium (OGC) Web Mapping Service (WMS) and the Web Feature Service (WFS) Interface Standards. The Interface Standards support geospatial and location-based services.

Accela Silverlight GIS currently supports two map providers that meet the Open Geospatial Consortium Standards: MapInfo MapXtreme 2008 7.0.0 and Intergraph GeoMedia WebMap 6.1. The two map

providers plug in to Accela Silverlight GIS and are compatible with current Accela Silverlight GIS map functions. You can also use the map providers to create map mash-ups with Bing Maps.

Accela Silverlight GIS also support using HTTPS to communicate between the map viewer and Accela Silverlight GIS Server, and between Accela Silverlight GIS Server and ArcGIS Server. For instructions about how to secure communication, see [Securing Communications](#).

If your agency's ArcGIS Server map services are secured, then enter your User Name and Password to access secured Web services in the GIS Server Settings section. By default, ArcGIS Server settings are secured.

You must also enter credentials if the map service connection is for Mobile Office offline mapping integration. Mobile Office offline mapping must download GIS data from the GIS server to the local device. To download data, Accela Silverlight GIS connects to ArcGIS Server using ArcGIS Server local connection. To connect locally, Accela Silverlight GIS must pass valid ArcGIS Server user credentials.

Before you can configure GIS server settings, you must define a map integration environment. For instructions, see [Integrating Your Environment](#).

### To configure GIS server settings

1. Navigate to the Map Service Connection page.

The Accela Silverlight GIS Administration site displays the Map Service Connection page.

The screenshot shows the 'Set Up Map Service' page in the Accela GIS Administration interface. At the top right, it says 'Welcome: Admin [Logout]' and 'Agency: SACCO'. Below the breadcrumb 'Home >> Integration Environment - Sacco >> Map Service', there is a 'Set Up Map Service' section. Under 'GIS Server Settings', the 'Choose GIS Provider' dropdown is set to 'ESRI ArcGIS Server'. Other fields include 'Server', 'Port' (80), 'Instance' (arcgis), 'User Name', 'Password', 'Map Service' (with a 'Retrieve Service' link), and 'Default Map Service' (checked). A 'GIS Service Information' section is partially visible at the bottom.

2. Select your map provider from the Choose GIS Provider drop-down list.

You can choose one from these options:

ESRI ArcGIS Engine	Use ESRI ArcGIS Engine for Mobile Office offline mapping.
ESRI ArcGIS Server	Use ESRI ArcGIS Server for online mapping in Civic Platform, Mobile Office, and Citizen Access.
Microsoft Bing Maps	Bing Maps is a Microsoft Web mapping service.



**Note:** As of June 30, 2016 Accela has deprecated the complimentary use of Bing Maps with Accela Silverlight GIS. Continued use of Bing Maps as a map service provider requires your agency to obtain a Bing Maps license key from Microsoft, and enter it in the **Bing Maps License Key** masked field on the

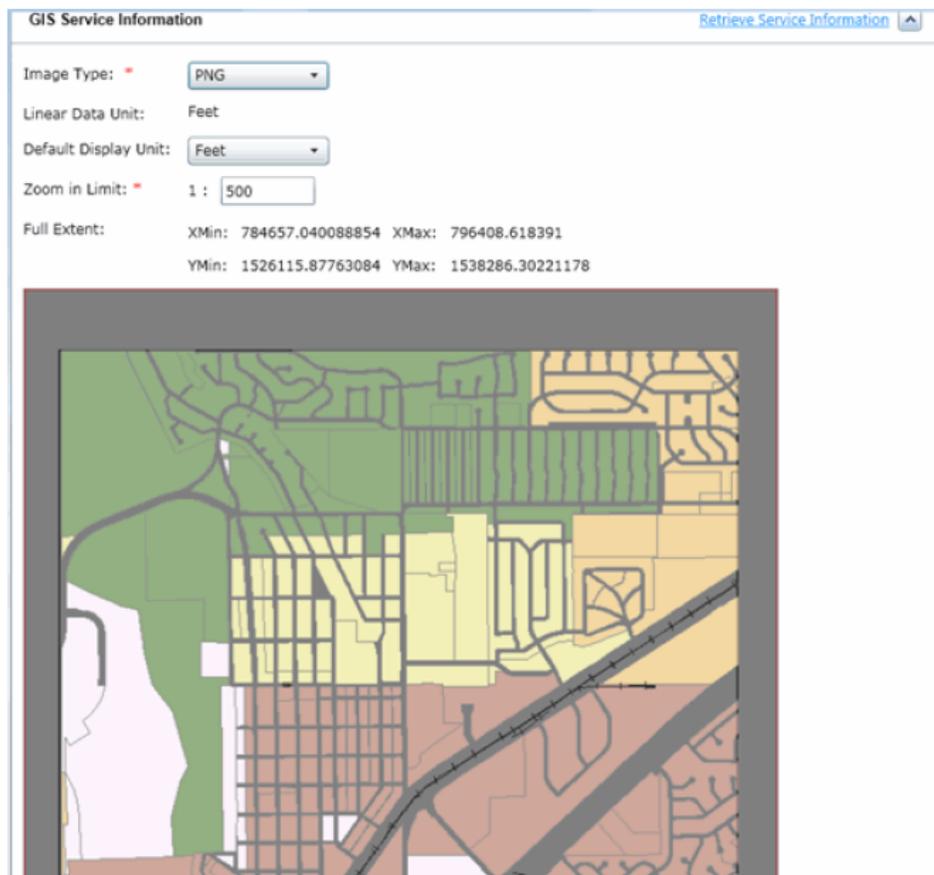
**Global Variable Settings** page. (Alternatively, Accela has made available a complimentary ArcGIS Online Account for geocoding and routing services.)

Intergraph OGC	Select this option if your agency uses Intergraph GeoMedia WebMap 6.1 as a map provider.
MapInfo OGC	Select this option if your agency uses MapInfo MapXtreme 2008 7.0.0 as a map provider.
ESRI Image Server	ArcGIS Image Server is an enterprise-wide image distribution platform from Esri, which provides fast access and visualization of large quantities of imagery, processed on the fly and on demand. You can use ArcGIS Image Server to create map mash-ups with dynamic and cached map services from Esri ArcGIS Server, with ArcGIS Online map services, or with Microsoft Bing Maps.
ESRI ArcGIS Online Base Map	ArcGIS Online is Esri's system for organizations or individual users to manage and share their GIS content, maps, and apps. Select this option if you want to use a basemap provided by ArcGIS Online as the map service. You can use ArcGIS Online Base Map to create mash-ups with dynamic map services that you publish to Esri ArcGIS Server or with image services from ArcGIS Image Server.
ESRI ArcGIS Online Web Map	Select this option if you want to use the web map hosted on ArcGIS Online as the map service. The web map might contain tiled map services for map visualization and feature services for Accela data querying and integration. You can use ArcGIS Online Web Map to create mash-ups with dynamic map services that you publish to Esri ArcGIS Server or with image services from ArcGIS Image Server.

### 3. Complete the fields according to your choice of the map provider:

- If you choose **ESRI ArcGIS Engine**, **ESRI ArcGIS Server**, or **ESRI Image Server**, complete the fields in [Table 2: GIS Server Settings Fields for ArcGIS Engine and Server](#).
- If you choose **Microsoft Bing Maps**, complete the fields in [Table 3: GIS Server Settings Fields for Bing Maps](#).
- If you choose **Intergraph OGC** or **MapInfo OGC**, complete the fields in [Table 4: GIS Server Settings Fields for OGC Map Providers](#).
- If you choose **ESRI ArcGIS Online Base Map** or **ESRI ArcGIS Online Web Map**, complete the fields in [Table 5: GIS Server Settings Fields for ArcGIS Online \(Base Map and Web Map\)](#).

The Accela Silverlight GIS Administration site displays the map service settings in the GIS Service Information section.



4. Complete the GIS Service Information section. For instructions on completing the GIS Service Information section, see [Configuring GIS Service Information](#).

**Table 2: GIS Server Settings Fields for ArcGIS Engine and Server**

Server	Enter the ArcGIS Server name or IP address.
Port	Enter the port number that corresponds to the map server's IP address. The default port number for the HTTP server is 80 while the default port number for the HTTPS server is 443.
Use HTTPS Scheme	Mark this check box to support using HTTPS to communicate between Accela Silverlight GIS Server and ArcGIS Server.
Instance	Enter the server instance in this field. The default value that populates this field is <code>arcgis</code> .
User Name	Enter your ArcGIS Server user name. If your agency's map services are secured or used for Mobile Office offline mapping, then you must enter your ArcGIS Server user name. The user must belong to the "agsusers" group on the ArcGIS Server machine. For more information about how to configure ArcGIS server security, see <a href="#">ArcGIS Server</a> documentation > Configuring ArcGIS Server Security.
Password	Enter your ArcGIS Server password. If your agency's map services are secured or used for Mobile Office offline mapping, then you must enter your ArcGIS Server password. The user password must belong to the "agsusers" group on the ArcGIS Server machine. For more information about how to configure ArcGIS server security, see <a href="#">ArcGIS Server</a> documentation > Configuring ArcGIS Server Security.

Map Service	If you retrieve a map service from ArcGIS Server, this drop-down list populates with map services that you have published to the root folder or its subfolders in ArcGIS Server. Select a map service from the drop-down list. For more information about how to publish map services in ArcGIS Server, see “Setting up Map Functionality” in the <i>Accela Silverlight GIS for ArcGIS Server Configuration Guide</i> .
Retrieve Service	Click this link to retrieve map service information from your map provider.
Default Map Service	<p>This check box applies to agencies that use multiple map services to create map mashups in one integration environment.</p> <p>Mark this check box to set a map service as the default. When you mark this check box, common settings, such as the initial extent of the selected map service, display in the map viewer.</p> <p>If your agency uses map services from ArcGIS Server and Bing Maps or from ArcGIS Server and ArcGIS Online Base Map, set an ArcGIS Server map service as the default map service. You cannot set a map service from Bing Maps or ArcGIS Online Base Map as the default map service in an integration environment with the map mashups.</p> <p>Only one map service can be the default.</p>

**Table 3: GIS Server Settings Fields for Bing Maps**

Map Service	<p>This field is read-only and displays the Bing Map Service URL.</p> <p> <b>Note:</b> As of June 30, 2016 Accela has deprecated the complimentary use of Bing Maps with Accela Silverlight GIS. Continued use of Bing Maps as a map service provider requires your agency to obtain a Bing Maps license key from Microsoft, and enter it in the <b>Bing Maps License Key</b> masked field on <b>Accela Silverlight GIS Administration &gt; Global Variable Settings</b>. (Alternatively, Accela has made available a complimentary ArcGIS Online Account for geocoding and routing services.)</p>
Retrieve Service	<p>Click this link to retrieve map service information from your map provider.</p> <p> <b>Note:</b> When you click the <b>Retrieve Service</b> link for a Bing Map service, the map service thumbnail does not display. This is a known limitation with Bing Maps REST Services.</p>
Default Map Service	<p>This check box applies to agencies that use multiple map services to create map mashups in one integration environment.</p> <p>Mark this check box to set a map service as the default. When you mark this check box, common settings, such as the initial extent of the selected map service, display in the map viewer.</p> <p>If your agency uses map services from ArcGIS Server and Bing Maps or from ArcGIS Server and ArcGIS Online Base Map, set an ArcGIS Server map service as the default map service. You cannot set a map service from Bing Maps or ArcGIS Online Base Map as the default map service in an integration environment with the map mashups.</p> <p>Only one map service can be the default.</p>

**Table 4: GIS Server Settings Fields for OGC Map Providers**

WMS Service URL	Enter a Web Mapping Service URL for an Open Geospatial Consortium map provider. The Web Mapping Service URL must come from the same data source as the Web Feature Service URL.
-----------------	---

WFS Service URL	Enter a Web Feature Service URL for an Open Geospatial Consortium map provider. The Web Feature Service URL must come from the same data source as the Web Mapping Service URL.
User Name	If you are using a MapInfo MapXtreme 2008 7.0.0 or GeoMedia WebMap 6.1 secured map service, then you must enter your user name.
Password	If you are using a MapInfo MapXtreme 2008 7.0.0 or GeoMedia WebMap 6.1 secured map service, then you must enter your user name.
Map Service	This field is read-only and displays the map service URL.
Retrieve Service	Click this link to retrieve map service information from your map provider.
Default Map Service	<p>This check box applies to agencies that use multiple map services to create map mashups in one integration environment.</p> <p>Mark this check box to set a map service as the default. When you mark this check box, common settings, such as the initial extent of the selected map service, display in the map viewer.</p> <p>Only one map service can be the default.</p>

**Table 5: GIS Server Settings Fields for ArcGIS Online (Base Map and Web Map)**

Server	<p>For <b>ESRI ArcGIS Online Base Map</b> only: If you are using ESRI ArcGIS Online Base Map as the map provider, select any of the ArcGIS Online servers:  services.arcgisonline.com  server.arcgisonline.com</p> <p>ArcGIS Online provides two servers, which are exactly the same. In case one server in your map integration environment goes down, you can use the other as a backup server.</p> <p>Note: Make sure the URL of the selected ArcGIS Online server is accessible from a web browser.</p> <p>If you are using ESRI ArcGIS Online Web Map as the map provider, this field displays "maps.arcgis.com" in read-only.</p>
Port	For <b>ESRI ArcGIS Online Base Map</b> only: Enter the port number that corresponds to the map server's IP address. The default port number for the HTTP server is 80 while the default port number for the HTTPS server is 443.
Use HTTPS Scheme	For <b>ESRI ArcGIS Online Base Map</b> only: Mark this check box to support using HTTPS to communicate between the Accela Silverlight GIS Server and the ArcGIS Online server.
User Name	For <b>ESRI ArcGIS Online Web Map</b> only: If you are using ESRI ArcGIS Online Web Map as the map provider, enter the user name for logging in to ArcGIS Online.
Password	For <b>ESRI ArcGIS Online Web Map</b> only: If you are using ESRI ArcGIS Online Web Map as the map provider, enter the password for logging in to ArcGIS Online.
Map Service	If you retrieve a map service from ArcGIS Online Web Map, this drop-down list populates with web maps that you have published to ArcGIS Online. Select a web map from the drop-down list.
Retrieve Service	Click this link to retrieve map service information from your map provider.
Default Map Service	This check box applies to agencies that use multiple map services to create map mashups in one integration environment.

Mark this check box to set a map service as the default. When you mark this check box, common settings, such as the initial extent of the selected map service, display in the map viewer.

If your agency uses map services from ArcGIS Server and Bing Maps or from ArcGIS Server and ArcGIS Online Base Map, set an ArcGIS Server map service as the default map service. You cannot set a map service from Bing Maps or ArcGIS Online Base Map as the default map service in an integration environment with the map mashups.

Only one map service can be the default.

## Configuring GIS Service Information

Once you retrieve and select your primary map service, you can configure additional map service settings. The settings you configure in this section, such as the initial extent, determine how Accela Silverlight GIS presents the map service in the map viewer.

Before you can configure GIS server settings, you must define a map integration environment. For instructions, see [Integrating Your Environment](#). Additionally, you must configure GIS Server settings. For instructions, see [Configuring GIS Server Settings](#).

### To configure GIS Service Information:

1. Navigate to the GIS Service Information section on the Map Service Connection page.

The Accela Silverlight GIS Administration site displays the map service settings in the GIS Service Information section.

The screenshot shows the 'GIS Service Information' configuration interface. At the top right, there is a 'Retrieve Service Information' button. The configuration fields are as follows:

- Image Type: PNG
- Linear Data Unit: Feet
- Default Display Unit: Feet
- Zoom in Limit: 1 : 500
- Full Extent: XMin: 784657.040088854, XMax: 796408.618391, YMin: 1526115.87763084, YMax: 1538286.30221178

Below the configuration fields is a map viewer displaying a street map with various colored areas (green, yellow, brown, white) representing different land use or zoning categories.

2. Complete the fields in the GIS Service Information section.

For a complete list of fields, see [Table 6: GIS Service Information Fields](#).

The Accele Silverlight GIS Administration site saves your GIS Service Information settings.

3. Continue with the map service setup according to your choice of the map provider.

- If you choose **ESRI ArcGIS Engine**, **ESRI ArcGIS Server**, or **ESRI ArcGIS Online Web Map**, import and configure map layer settings. For instructions on how to import and configure map layer settings, see [Importing and Configuring Map Layer Settings](#).
- If you choose **Microsoft Bing Maps** or **ESRI ArcGIS Online Base Map**, set a default map style. For instructions on the map style settings, see [Configuring Map Style Settings](#).

**Table 6: GIS Service Information Fields**

Default Display Unit	Select the default display unit from this drop-down list. The available map measurement display units include meters, kilometers, feet, yards, and miles.
Full Extent	The full extent is the complete map area zoomed out to its farthest point. The XMin and XMax and YMin and YMax fields in this section display the map coordinates at their full extent.
Image Type	Select the map viewer image type from the drop-down list. By default, Accele Silverlight GIS supports PNG8 image types. If you select Microsoft Bing Maps, ESRI ArcGIS Online Base Map, or ESRI ArcGIS Online Web Map as the map provider, this field is not available.
Initial Extent	The initial extent is the default extent of the map when the map viewer is opened. If you select a map provider other than ESRI ArcGIS Online Web Map, you can draw a rectangle polygon on the map to define the initial extent. The area you select, measured by numerical X and Y coordinates, populates the XMin and XMax and YMin and YMax fields.
Initial Extent XMax	The right most extent of the map when the map viewer is first opened. For example, if you want agency users to initially view a zoomed area of the map, this value is the right most extent of the zoomed area.
Initial Extent XMin	The left most extent of the map when the map viewer is first opened. For example, if you want agency users to initially view a zoomed area of the map, this value is the left most extent of the zoomed area. The map area you select with the polygon automatically populates this field.
Initial Extent YMax	The top most extent of the map when the map viewer is first opened. For example, if you want agency users to initially view a zoomed area of the map, this value is the top most extent of the zoomed area. The map area you select with the polygon automatically populates this field.
Initial Extent YMin	The bottom most extent of the map when the map viewer is first opened. For example, if you want agency users to initially view a zoomed area of the map, this value is the bottom most extent of the zoomed area. The map area you select with the polygon automatically populates this field.
Linear Data Unit	This field is read-only and displays the units of measurement for the selected map service. Accele Silverlight GIS users can switch the map units using the Map Control. There are three possible values for this field: <b>Decimal</b> - Degrees are based on the 360 degree circumference of the Earth. <b>Feet</b> - US standard unit of measure for distance. <b>Meters</b> - International standard unit of measure for distance.
Retrieve Service Information	Click this link to replace the attribute settings of the selected map service with the default map service attribute values.
Zoom in Limit	Set the map zoom-in limit by entering a value in this field.

## Importing and Configuring Map Layer Settings

Once you retrieve a map service, you can import map layer information from the map service. Use the Map Layer Settings section to retrieve map layers and select the map layer ID Field. This section only displays if you are configuring ArcGIS Server, ArcGIS Engine, ArcGIS Online Web Map, or OGC map services.

The ArcGIS Server map services can be either dynamic or cached. If you retrieve the dynamic map service, you can use the Layer Settings section to configure map layers for editing. When you configure a map layer for editing, mark a check box to indicate that a layer is editable. You also determine which attributes for each layer are editable. Editable attributes display in the Edit Attributes dialog box in Accela Silverlight GIS. As a prerequisite of configuring map layers for editing, you must enter the correct user name and password in the GIS Server Settings section.

For example, you might configure a fire hydrant map layer for editing, and then determine which related hydrant attributes are editable, such as the hydrant's address, manufacturing date, model, and owner.

When you configure a map layer for editing, you must set the ID Field for the selected map layer as editable. For example, if the ID Field for the Buildings map layer is BUILD\_ID, then you must mark the check box next to the BUILD\_ID field when you configure the attributes.

Editable layers give agency users the option to create and edit GIS features. Agency users can only create and edit features on editable map layers. Once you configure editable map layers and save the settings, the Accela Silverlight GIS Administration site prompts you to enter your user name and password. You must enter valid credentials.

When you select an ID Field for a map layer, you indicate the field within the geodatabase feature class table that you want to map to the Accela Silverlight GIS database. The ID Field connects the map layer in your map provider's geodatabase to the Accela Silverlight GIS database. You can configure whether Accela Silverlight GIS generates the ID automatically or asks users to enter the ID manually when they create a GIS feature. If you want to auto-generate the ID, you need to set the map layer as editable and then define the current sequence and the cache size for the ID field. The OBJECT\_ID number cannot be auto-generated because the OBJECT\_ID field is maintained by ArcGIS.

For example, if you select HYD\_NUMBER as the ID Field for Hydrants, then objects in the Hydrants map layer are identified by the HYD\_NUMBER field in the Accela Silverlight GIS database. The ID Field you select for each feature class must be unique and fixed.

If your agency plans to synchronize a GIS layer with an Asset Type in Accela Asset Management, you must select the same value in the Asset ID and ID Fields.

Before you can import and configure map layer settings, you must define a map integration environment. For instructions, see [Integrating Your Environment](#). Additionally, you must configure GIS Server settings and GIS Service information. For instructions, see [Configuring GIS Server Settings](#) and [Configuring GIS Service Information](#).

### To import and configure map layer settings

1. Navigate to the Layer Settings section on the Map Service Connection page.  
The Accela Silverlight GIS Administration site displays the Layer Settings section.

Layer Settings [Generate Legend](#) [Retrieve Layer Information](#)

Layer Name	Id Field	Editable	Auto ID
Group: (15 items)			
Hydrants	ASSETID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Street Lights	OBJECTID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Sewer Structures	OBJECTID_1	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Railroads	OBJECTID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Sewer Lines	OBJECTID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Street Repairs	OBJECTID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Streets	OBJECTID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Rivers	OBJECTID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
PARCELS	APN	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Floodplain	OBJECTID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Parks	ASSETID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Downtown	OBJECTID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Permits	ID	<input checked="" type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Zoning	OBJECTID_1	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
City Limits	OBJECTID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting

Note: Retrieve the information about layers and layer groups from GIS Service. You cannot customize the layer and layer group names or define the available ID Field options.



### Note:

Accela Silverlight GIS allows users to create or edit geometry only on the editable layer of a dynamic ArcGIS Server map or an ArcGIS Engine map. So for an OGC map service or an ArcGIS Online Web Map service, the Layer Settings section does not have the Editable or Auto ID column.

- Expand the ID Field drop-down list for each map layer group.



**Note:** The selected **Id Field** value appears as the object name on the map viewer's Contents Panel. The **Id Field** value must be no more than 70 characters.

For a complete list of fields, see [Table 7: Map Layer Settings](#).

The Accela Silverlight GIS Administration site displays the attribute list.

Layer Settings [Generate Legend](#) [Retrieve Layer Information](#)

Layer Name	Id Field	Editable	Auto ID
Group: (15 items)			
Hydrants	ASSETID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Street Lights	OUTLETS	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Sewer Structures	HYD_TO_GV_	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Railroads	TURNS	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Sewer Lines	GREASE	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Street Repairs	REPAIR	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Streets	PAINT	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Rivers	CUT_BRUSH	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
PARCELS	DATE_	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Floodplain	INITIAL	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Parks	OTHER	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Downtown	MFG_DATE	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Permits	RUN_SIZE	<input checked="" type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Zoning	YEAR_IN5T	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
City Limits	GRID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
	GRSED	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
	DATE1	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
	ZONE	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
	ELEVATION	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
Geocoding Service Settings	APPROX_PSI	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting
	ASSETID	<input type="checkbox"/> Attributes	<input type="checkbox"/> Setting

Note: Retrieve the information about layers and layer groups from GIS Service. You cannot customize the layer and layer group names or define the available ID Field options.

- Select a unique, fixed attribute field for each map layer from the ID Field drop-down list. If your agency plans to synchronize a GIS layer with an Asset Type in Accela Asset Management, you must select the same value in the Asset ID and ID Fields.
- To configure a map layer for editing, mark the check box in the Editable column. The Accela Silverlight GIS Administration site activates the Attributes link.

**Layer Settings** [Generate Legend](#) [Retrieve Layer Information](#) ▲

Layer Name	Id Field	Editable	Auto ID
Group: (15 items)			
Hydrants	ASSETID	<input checked="" type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Street Lights	OBJECTID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Sewer Structures	OBJECTID_1	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Railroads	OBJECTID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Sewer Lines	OBJECTID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Street Repairs	OBJECTID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Streets	OBJECTID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Rivers	OBJECTID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
PARCELS	APN	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Floodplain	OBJECTID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Parks	ASSETID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Downtown	OBJECTID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Permits	ID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
Zoning	OBJECTID_1	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>
City Limits	OBJECTID	<input type="checkbox"/> <a href="#">Attributes</a>	<input type="checkbox"/> <a href="#">Setting</a>

Note: Retrieve the information about layers and layer groups from GIS Service. You cannot customize the layer and layer group names or define the available ID Field options.

**5. Click the [Attributes](#) link.**

The Accela Silverlight GIS Administration site displays the Setup Attributes for the editing layer dialog box.

**Setup Attributes: Hydrants**

Specify the attributes that will be editable when creating/editing features. Only editable fields will be displayed in the edit attributes dialog.

<input type="checkbox"/> Editable	Attribute Name
<input type="checkbox"/>	OBJECTID
<input type="checkbox"/>	FH1_NUM
<input type="checkbox"/>	ID
<input type="checkbox"/>	ADDRESS
<input type="checkbox"/>	HYDRANT
<input type="checkbox"/>	VALVE
<input type="checkbox"/>	OWNED_BY
<input type="checkbox"/>	PREFIX
<input type="checkbox"/>	STREET
<input type="checkbox"/>	ST_TYPE
<input type="checkbox"/>	SUFFIX
<input type="checkbox"/>	MAKE
<input type="checkbox"/>	OUTLETS
<input type="checkbox"/>	HYD_TO_GV_
<input type="checkbox"/>	TURNS
<input type="checkbox"/>	GREASE
<input type="checkbox"/>	REPAIR

OK Cancel

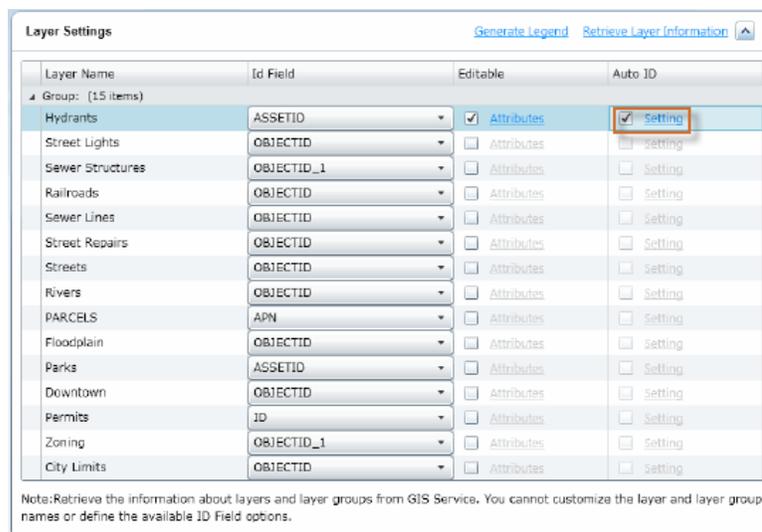
**6. Mark the check box next to each attribute that you want to be editable. You must set the ID Field for the selected map layer as editable.**

**7. Click the **OK** button.**

The Accela Silverlight GIS Administration site saves the attribute settings.

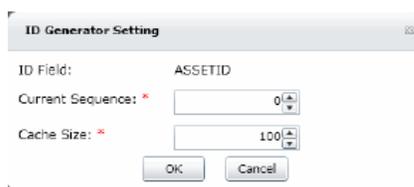
**8. To auto-generate the feature ID when users create a GIS feature, mark the check box in the Auto ID column.**

The Accela Silverlight GIS Administration site activates the Setting link.



## 9. Click the **Setting** link.

The Accela Silverlight GIS Administration site displays the ID Generator Setting dialog box.



## 10. Complete these fields:

ID Field	This is a read-only field. It displays the name of the ID field. The ID field is used to link the Civic Platform data with the GIS data. Each feature created on the map layer must have a unique ID field value. The ID field value can be populated either manually or automatically based on the ID Generator setting.
Current Sequence	It specifies the current sequence value of the ID field. The next ID field value is auto-generated based on this value.  During initial setup, if the map layer does not have any features on it, this value can be set to 1; if it already has some features, get the maximum ID field value from the geodatabase and enter a greater value into this field. For example, the Road Repairs layer is used as an editable layer and has some features on it, get the maximum ID field value from the layer. If the maximum value is 1000, enter 1001 as the current sequence number.
Cache Size	It defines a set of sequence numbers in memory for auto-generating IDs in Mobile Office Offline Mode. The default value is 100.

## 11. Click the **OK** button.

The Accela Silverlight GIS Administration site saves the ID Generator setting.

## 12. Retrieve and select a geocoding service. For instructions, see [Retrieving and Selecting a Geocoding Service](#).

**Table 7: Map Layer Settings**

Generate Legend	Click this link to generate a map legend. When you click this link, a PNG image of the map legend is generated and displays in the map viewer Table of Contents.
Retrieve Layer Information	This link only appears when you edit map layer settings.

Click this link to retrieve all the layers in the selected map service. Use this link to incorporate new layers added to the MXD (Map document). Similarly, if layers are removed from the MXD, then you can update the layer groups and names when you click this link.

Layer Name	Layer groups and names are automatically retrieved when you select a map service. By default, this column is expanded and displays all the layer groups and names.
ID Field	This drop-down list displays the available attribute fields for the selected map layer. Select an identification field for each map layer.
Editable	<p>Mark the check box next to the map layer that you want to make editable, then click the Attributes link to configure which attributes are editable.</p> <p>Note: Cached map services do not support the Creating and Editing GIS Features functionality, so the Editable column is not available on the Layer Settings section for cached map services.</p>
Auto ID	<p>Mark the check box next to the map layer if you want to auto-generate IDs for the features created on the map layer, then click the Setting link to configure the current sequence and cache size. When users create a feature in Accela Silverlight GIS and submit it, Accela Silverlight GIS auto-generates the ID number for the feature based on the ID Generator setting.</p> <p>If you want users to enter the ID number when creating a GIS feature, clear the check box. This way, the ID Field displays in the Edit Attributes dialog box.</p> <p>Note: Public users cannot create or edit GIS features in Citizen Access, so the Auto ID column is not available in the Layer Settings section for the Citizen Access map integration.</p>

## Configuring Map Style Settings

Use this section to configure the default map style display for Microsoft Bing Maps or ArcGIS Online basemaps. This section only appears if you are configuring a map service provided by Microsoft Bing Maps or ESRI ArcGIS Online Base Map.

Before you can configure map style settings, you must define a map integration environment. For instructions, see [Integrating Your Environment](#). Additionally, you must configure GIS Server settings and GIS Service information. For instructions, see [Configuring GIS Server Settings](#) and [Configuring GIS Service Information](#).

### To configure map style settings

1. Navigate to the Map Style Settings section on the Map Service Connection page.

If you are configuring a map service provided by Microsoft Bing Maps, the Accela Silverlight GIS Administration site displays the Map Style Settings section.

**Set Up Map Service**

**GIS Server Settings**

Choose GIS Provider: \* Microsoft Bing Maps

Map Service: \* <https://common.virtualearth.net/find-30/common.asmx?wsdl> [Retrieve Service](#)

Default Map Service:

**GIS Service Information**

**Map Style Settings**

Map Style	Default
Road	<input checked="" type="radio"/>
Aerial	<input type="radio"/>
Hybrid	<input type="radio"/>

If you are configuring an ArcGIS Online basemap, the Accela Silverlight GIS Administration site displays the ESRI Map Style Settings section.

**Set Up Map Service**

**GIS Server Settings**

Choose GIS Provider: \* ESRI ArcGIS Online Base Map

Server: \* [services.arcgisonline.com](https://services.arcgisonline.com) Port : \* 80  Use HTTPS Scheme [Retrieve Service](#)

Default Map Service:

**GIS Service Information**

**ESRI Map Style Settings**

Map Style	Default
Street	<input checked="" type="radio"/>
ImageryWithLabels	<input type="radio"/>

**2. Mark the option next to the map style you want to set as the default:**

- For Microsoft Bing Maps:

---

Road	Map this option if you want the default map display to be a road overlay. This is the default map service display.
Aerial	Mark this option if you want the default map display to be set at an aerial view.
Hybrid	Mark this option if you want the default map display to be an aerial view with a road overlay.

---

- For ArcGIS Online Base Map:

---

Street	Map this option if you want the default map display to be Esri's world street map. This is the default map service display.
--------	---

ImageryWithLabels      Mark this option if you want the default map display to be Esri's Imagery map.

- Retrieve and select a geocoding service. For instructions, see [Retrieving and Selecting a Geocoding Service](#).

## Retrieving and Selecting a Geocoding Service

Optionally, if you plan to use geocoding in your map integration environment, you can use the Geocoding Service Settings section to retrieve a geocoding service. The geocoding service provider can be ArcGIS Server, Bing Maps, ArcGIS Online, or a custom geocoding web service. For more information about integrating a custom geocoding web service, see *Accele Silverlight GIS Geocoding Web Service Integration Guide*. Contact [Accele Customer Support](#) for this supporting document.

You can select a unique geocoding service for your map integration environment. The geocoding service you select can be different from the default map service. For example, you might want to use Bing Maps for geocoding and an ArcGIS Server map service for mapping, visualization, and layer interaction.

Before you can retrieve and select a geocoding service, you must define a map integration environment. For instructions, see [Integrating Your Environment](#). Additionally, you must configure GIS Server settings and GIS Service information. For instructions, see [Configuring GIS Server Settings](#) and [Configuring GIS Service Information](#).

### To retrieve and select a geocoding service

- Navigate to the Geocoding Service Settings section on the Map Service Connection page.  
The Accele Silverlight GIS Administration site displays the Geocoding Service Settings section.
- Select an option from the Geocoding Service Provider drop-down list. The available options are ESRI ArcGIS Server, Microsoft Bing Map, Geocoding Web Service, and ESRI ArcGIS Online.  
The Accele Silverlight GIS Administration site refreshes the Geocoding Service Settings section and displays the associated fields based on your selection.
- Do one of the following:
  - For ESRI ArcGIS Server:
    - Edit the fields in the Geocoding Service Settings section as needed.  
For a description of the fields, see [Table 8: Esri Geocoding Service Fields](#).
    - Click the **Retrieve Services** link.  
The Accele Silverlight GIS Administration site displays the geocoding services retrieved from your geocoding server in the Geocoding Service drop-down list.

**Geocoding Service Settings**

Geocoding Service Provider:

Geocoding Server:  Port:   Use HTTPS Scheme

Instance:

User Name:

Password:

Locator Name:

Location:

Geocoding Service:  [Retrieve Services](#)

Use this geocoding service for this integration:

3. Select a geocoding service from the Geocoding Service drop-down list.

- For Microsoft Bing Map:

Mark the **Using this geocoding service for this integration** check box if you want the geocoding service from Bing Maps to be the default geocoding service in your map integration environment. Otherwise, clear this check box.

The Accele Silverlight GIS Administration site retrieves the geocoding service from Bing Maps.

The screenshot shows a window titled "Geocoding Service Settings". It contains the following fields and controls:

- Geocoding Service Provider:** A dropdown menu with "Microsoft Bing Map" selected.
- Geocoding Service Url:** A text box containing "http://staging.dev.virtualearth.net/webservices/v1/geocodingservice/geocodingservice.svc?wsdl".
- Geocoding Service and Routing Service are provided by Microsoft Bing Maps, user cannot customize them.** A note below the URL.
- Use this geocoding service for this integration:** A checked checkbox.

- For Geocoding Web Service:

1. Edit these fields in the Geocoding Service Settings section as needed:

Web Service URL	Enter the URL of a custom geocoding web service.
User Name	Optionally, enter your user name along with the password for connecting to the geocoding web service.
Password	Optionally, enter your password along with the user name for connecting to the geocoding web service.
Using this geocoding service for this integration	Mark this check box if you want the geocoding web service to be the default geocoding service in your map integration environment. Otherwise, clear this check box.

2. If necessary, click the **Test Connection** link.

The Accele Silverlight GIS Administration site tries to connect to the geocoding web service and displays an appropriate message for successful or unsuccessful connections.

The screenshot shows the "Geocoding Service Settings" window with a yellow message box at the top that says "Connection successful.". Below the message box, the settings are:

- Geocoding Service Provider:** A dropdown menu with "Geocoding Web Service" selected.
- Web Service URL:** A text box containing "https://agis.accela.com/GeoWebService/GeocodingService" and a blue "Test Connection" link to its right.
- User Name:** A text box containing "agis\administrator".
- Password:** A text box containing "\*\*\*\*\*".
- Use this geocoding service for this integration:** A checked checkbox.

- For ESRI ArcGIS Online:

1. To use Accele's complimentary ArcGIS Online account, choose **Accele ArcGIS Online Account** as the **Geocoding Service Provider**. To use your agency's own ArcGIS Online account, choose **Agency ArcGIS Online Account** as the **Geocoding Service Provider**.

2. If you selected **Agency ArcGIS Online Account** as the geocoding service provider, enter the username and password of your agency's ArcGIS Online account.

For a description of the fields, see [Table 8: Esri Geocoding Service Fields](#).

3. Click the **Retrieve Services** link.

The following example shows Accela ArcGIS Online Account as the geocoding service provider:

The screenshot shows a window titled "Geocoding Service Settings". It contains the following fields:

- Geocoding Service Provider:** A dropdown menu with "Accela ArcGIS Online Account" selected.
- Geocoding Service:** A dropdown menu with "World" selected, and a blue link labeled "Retrieve Services" to its right.
- Use this geocoding service for this integration:** An unchecked checkbox.

The following example shows Agency ArcGIS Online Account as the geocoding service provider:

The screenshot shows a window titled "Geocoding Service Settings". It contains the following fields:

- Geocoding Service Provider:** A dropdown menu with "Agency ArcGIS Online Account" selected.
- Geocoding Server:** A text field containing "www.arcgis.com", followed by "Port:" and a text field containing "80". To the right is an unchecked checkbox labeled "Use HTTPS Scheme".
- User Name:** A text field containing "myagencyid".
- Password:** A text field with ten black dots representing a masked password.
- Geocoding Service:** A dropdown menu with "World" selected, and a blue link labeled "Retrieve Services" to its right.
- Use this geocoding service for this integration:** An unchecked checkbox.

4. Select a geocoding service from the Geocoding Service drop-down list.
4. Retrieve and select a routing service. For instructions, see [Retrieving and Selecting a Routing Service](#).

**Table 8: Esri Geocoding Service Fields**

Geocoding Server	Enter the name of your Geocoding Map Server. If you select Agency ArcGIS Online Account as the geocoding service provider, this field displays the server URL in read-only format.
Port	Enter the port number that corresponds to your geocoding server's IP address. The default port number for the HTTP server is 80 while the default port number for the HTTPS server is 443.
Use HTTPS Scheme	Mark this check box to support using HTTPS to communicate between Accela Silverlight GIS Server and ArcGIS Server.
Instance	Enter the server instance. If you select ArcGIS Online as the geocoding service provider, this field is not available.
User Name	<p>If you select ESRI ArcGIS Server as the geocoding service provider, this field is optional. Enter the user name for the geocoding service published to the ArcGIS Server.</p> <p>If you select Agency ArcGIS Online Account as the geocoding service provider, this field is required. Enter the user name for the ArcGIS Online account. Please contact Esri to obtain a user account.</p>
Password	If you select ESRI ArcGIS Server as the geocoding service provider, this field is optional. Enter the password for the geocoding service published to the ArcGIS Server.

If you select Agency ArcGIS Online Account as the geocoding service provider, this field is required. Enter the password for the ArcGIS Online account. Please contact Esri to obtain a user account.

---

#### Locator Name

Enter the name of the address locator that is published as the geocode service in ArcGIS Server.

If you select ESRI ArcGIS Online as the geocoding service provider, this field is not available. Note: To allow the Accela Silverlight GIS server to download a data package from the ArcGIS Server for offline maps, you must enter the address locator name and its location. You can go to the Parameters tab of the ArcGIS Server - Geocode Service Properties window to get the locator name.

ArcGIS Server - Geocode Service Properties

General Parameters Capabilities Pooling Processes

Browse to an address locator:

Locator Name: SDE.Flagstaff\_SDE

Location: ENCRYPTED\_PASSWORD=00029b47149d7b532dfee1b8702ee5893

Batch Size: 1000

OK Cancel Apply

---

#### Location

Enter the location of the address locator that is published as the geocode service in ArcGIS Server. If you select ESRI ArcGIS Online as the geocoding service provider, this field is not available. Note: To allow the Accela Silverlight GIS server to download a data package from the ArcGIS Server for offline maps, you must enter the address locator name and its location. You can go to the Parameters tab of the ArcGIS Server - Geocode Service Properties window to get the location.

ArcGIS Server - Geocode Service Properties

General Parameters Capabilities Pooling Processes

Browse to an address locator:

Locator Name: SDE.Flagstaff\_SDE

Location: ENCRYPTED\_PASSWORD=00029b47149d7b532dfee1b8702ee5893

Batch Size: 1000

ENCRYPTED\_PASSWORD=00029b47149d7b532dfee1b8702ee5893#965600; SERVER=10.50.0.155;INSTANCE=5151;USER=sde; VERSION=sde.DEFAULT;AUTHENTICATION\_MODE=DBMS

OK Cancel Apply

If the geocoding service uses SDE as its data source, enter the location in the format below.

<server>,<instance>,<database>,<user>,<password>,<version>

Here are two examples:

Direct Connection

“10.50.0.155,sde:sqlserver:10.50.0.155\sqlexpress,sde,sde,gisadmin,SDE.Default”

Connection with Port “10.50.0.155,5151,sde,sde,gisadmin,SDE.Default”

If the geocoding service uses a data source other than SDE, enter the location just as shown in the Location field of the ArcGIS Server - Geocode Service Properties window.

Geocoding Service	When you click the Retrieve Services link, this drop-down list populates with the all the geocoding services set up on your geocoding server. If you select ArcGIS Online as the geocoding server, this drop-down list populates with the ArcGIS Online geocoding services such as World.
Use this geocoding service for integration	Mark this check box if you want the selected geocoding service to be the default geocoding service in your map integration environment.

## Retrieving and Selecting a Routing Service

Optionally, if you plan to use routing in your map integration environment, you can use the Routing Service Settings section to retrieve a routing service.

You can select a unique routing service for your map integration environment. The routing service you select can be different from the default map service. For example, you might want to use Bing Maps for routing and an ArcGIS Server map service for mapping, visualization, and layer interaction.

Before you can retrieve and select a routing service, you must define a map integration environment. For instructions, see [Integrating Your Environment](#). Additionally, you must configure GIS Server settings and GIS Service information. For instructions, see [Configuring GIS Server Settings](#) and [Configuring GIS Service Information](#).

### To retrieve and select a routing service

- Navigate to the Routing Service Settings section on the Map Service Connection page.  
The Accela Silverlight GIS Administration site displays the Routing Service Settings section.
- Select an option from the Routing Service Provider drop-down list. The available options are ESRI ArcGIS Server, Microsoft Bing Map, and ESRI ArcGIS Online.  
The Accela Silverlight GIS Administration site refreshes the Routing Service Settings section and displays the associated fields based on your selection.
- Do one of the following:
  - For ESRI ArcGIS Server:
    - Edit the fields in the Routing Service Settings section as necessary.  
For a description of the fields, see [Table 9: Esri Routing Service Fields](#).
    - Click the **Retrieve Services** link.  
The Accela Silverlight GIS Administration site displays the routing services retrieved from your routing server in the Routing Service drop-down list.

The screenshot shows the 'Routing Service Settings' dialog box. The 'Routing Service Provider' is set to 'ESRI ArcGIS Server'. The 'Routing Server' is 'bg-gis-host' and the 'Port' is '80'. There is an unchecked checkbox for 'Use HTTPS Scheme'. The 'Instance' is 'arcgis'. The 'User Name' and 'Password' fields are empty. The 'Routing Service' is set to 'Bridgeview\_Routing', with a 'Retrieve Services' link next to it. At the bottom, the checkbox 'Use this geocoding service for this integration:' is checked.

3. Select a routing service from the Routing Service drop-down list.

- For Microsoft Bing Map:

Mark the **Using this routing service for this integration** check box if you want the routing service from Bing Maps to be the default routing service in your map integration environment. Otherwise, clear this check box.

The Accela Silverlight GIS Administration site retrieves the routing service from Microsoft Bing Map.

The screenshot shows the 'Routing Service Settings' dialog box. The 'Routing Service Provider' is set to 'Microsoft Bing Map'. The 'Routing Service Url' is 'http://staging.dev.virtualearth.net/webservices/v1/routeservice/routeservice.svc?wsdl'. A note states: 'Geocoding Service and Routing Service are provided by Microsoft Bing Maps, user cannot customize them.' The checkbox 'Use this routing service for this integration:' is checked.

- For ESRI ArcGIS Online:

1. To use Accela's complimentary ArcGIS Online account, **choose Accela ArcGIS Online Account** as the **Routing Service Provider**. To use your agency's own ArcGIS Online account, choose **Agency ArcGIS Online Account** as the **Routing Service Provider**.

2. If you selected **Agency ArcGIS Online Account**, enter the username and password of your agency's ArcGIS Online account.

For a description of the fields, see [Table 9: Esri Routing Service Fields](#).

3. Click the **Retrieve Services** link.

The following example shows Accela ArcGIS Online Account as the routing service provider:

The screenshot shows the 'Routing Service Settings' dialog box. The 'Routing Service Provider' is set to 'Accela ArcGIS Online Account'. The 'Routing Service' is set to 'World', with a 'Retrieve Services' link next to it. The checkbox 'Use this routing service for this integration:' is unchecked.

The following example shows Agency ArcGIS Online Account as the routing service provider:

4. Select a routing service from the Routing Service drop-down list.
4. Click the **Save** button.
5. If you are configuring a dynamic map service published by Esri ArcGIS Server, you can retrieve and configure dynamic themes.

For instructions on how to retrieve and configure dynamic themes, see [Retrieving and Configuring Dynamic Themes in Accela Silverlight GIS](#).

**Table 9: Esri Routing Service Fields**

Routing Server	Enter the name of your routing server. If you select ESRI ArcGIS Online as the routing service provider, this field displays the server URL in read-only format.
Port	Enter the port number that corresponds to your routing server's IP address. The default port number for the HTTP server is 80 while the default port number for the HTTPS server is 443.
Use HTTPS Scheme	Mark this check box to support using HTTPS to communicate between Accela Silverlight GIS Server and the routing server.
Instance	Enter the server instance. If you select ESRI ArcGIS Online as the routing service provider, this field is not available.
User Name	If you select ESRI ArcGIS Server as the routing service provider, this field is optional. Enter the user name for the routing service published to the ArcGIS Server. If you select Agency ArcGIS Online Account as the routing service provider, this field is required. Enter the user name for the ArcGIS Online account. Please contact Esri to obtain a user account.
Password	If you select ESRI ArcGIS Server as the routing service provider, this field is optional. Enter the password for the routing service published to the ArcGIS Server. If you select Agency ArcGIS Online Account as the routing service provider, this field is required. Enter the password for the ArcGIS Online account. Please contact Esri to obtain a user account.
Routing Service	When you click the Retrieve Services link, this drop-down list populates with the all the routing services set up on your routing server.
Use this routing service for this integration	Mark this check box if you want the selected routing service to be the default routing service in your map integration environment. Otherwise, clear this check box.

## Retrieving and Configuring Dynamic Themes in Accela Silverlight GIS

You can retrieve dynamic themes from the Civic Platform application server, select dynamic themes that belong to a map service, and define dynamic theme symbology in the Dynamic Themes section.

Once you retrieve dynamic themes, you can select the themes that belong to the map service and determine how they display in the map viewer, including the display order, line color, line thickness, fill color, and transparency.

Before you can retrieve and configure dynamic themes, you must define a map integration environment. For instructions, see [Integrating Your Environment](#). Additionally, you must configure GIS Server settings and GIS Service information. For instructions, see [Configuring GIS Server Settings](#) and [Configuring GIS Service Information](#).

You must configure dynamic themes before you can associate them with a map service. For instructions on how to configure dynamic themes, see [Configuring Dynamic Themes in Civic Platform](#).

### To retrieve and edit dynamic themes

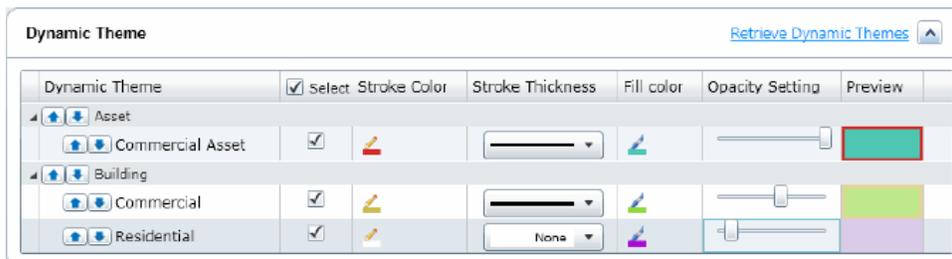
1. Navigate to the Dynamic Themes section on the Map Service Connection page.

The Accela Silverlight GIS Administration site displays the Dynamic Themes section.



2. Click the **Retrieve Dynamic Themes** link.

The Accela Silverlight GIS Administration site connects to the Civic Platform application server and retrieves the configured Dynamic Themes.



3. Click the up or down arrow buttons next to the dynamic theme group name to set the display order of the theme groups or click the up or down arrow buttons next to the dynamic theme name to set the display order of the themes within a group.

If two or more dynamic themes overlap a GIS feature, the GIS map viewer displays the dynamic themes on the GIS feature in the specified order.

4. Edit the characteristics for each dynamic theme by completing the related fields. For a complete list of fields, see [Table 10: Dynamic Theme Fields](#).

5. Complete one of these steps:

- If you want to configure additional map services for your map integration environment, follow the instructions described in [Configuring Additional Map Services](#).
- If you do not want to configure additional map services for your map integration environment, click the Next button to proceed to the next step in configuring a map integration environment. The next step is to define user groups and their permissions. For instructions on how to define user groups and their permissions, see [Defining User Groups and Permissions](#).

Table 10: Dynamic Theme Fields

Dynamic Theme	This column displays the dynamic themes, including both groups and names, retrieved from the Civic Platform application server. To collapse a dynamic theme group, click the "--" in the column next to each group name.
Fill Color	Click the paint bucket icon to access the fill color menu. Use the fill color menu to choose a fill color for the selected dynamic theme.
Opacity Setting	Drag the slider left or right to change the transparency of each dynamic theme. The closer you drag the slider to the left, the more transparent the dynamic theme. Setting the opacity to more or less transparent allows the map to display blended colors when an overlap of dynamic themes occurs. In this way, users can see the overlap on the map.
Preview	This field displays a preview of each dynamic theme. Any changes you make to a dynamic theme, such as the fill color or line thickness, are automatically updated to the theme that displays in the Preview field.
Select	Mark this check box next to each dynamic theme you want to associate with the selected map service. Alternatively, you can mark the check box next to a dynamic theme group to select all the dynamic themes within a group. You can also mark the Select check box next to the column header to select all the dynamic theme groups and names.
Stroke Color	Click the pen icon to access the color menu. Use the color menu to choose a line color for the selected dynamic theme. You can select a color or manually enter a color value in the color menu.
Stroke Thickness	Click the line icon to access the line menu. Use the line menu to choose the line thickness for the selected dynamic theme.

## Configuring Additional Map Services

Once you complete the configuration steps outlined above, you can configure additional map services for the same map integration environment. This allows agency users to access and work with different map services in one integration environment.

You must configure a default map service before you can configure additional map services. For instructions on configuring a map service, see [Setting up a Connection to a Map Service](#).

### To configure additional map services

1. Click the **Add More Services** button at the bottom of the Map Service Connection page.  
The Accela Silverlight GIS Administration site displays the Map Service Connection page.
2. Configure additional map services for your map integration environment. For instructions on how to configure a map service, see [Setting up a Connection to a Map Service](#).

## Defining User Groups and Permissions

---

This topic applies to Accela Silverlight GIS.

The third step in configuring Accela Silverlight GIS is to define user groups and their permissions. Before you can define a user group and then set its permission levels, you must define a map integration and then set up a connection to a map service. For instructions, see [Integrating Your Environment](#) and [Setting up a Map Service Connection](#).

As an agency administrator, you can create and personalize user groups for each map integration environment. When you create user groups, you determine user access to Accela Silverlight GIS features in the map viewer, including navigation tools, map commands, and map layers. The user groups and their permissions that you define for a map integration environment apply to all the map services configured for the environment.

Accela Silverlight GIS automatically creates a default user group when you set up a map integration environment. You cannot edit the default user group name or group description; however, you can edit the default permission levels for the user group and add additional user groups. Multiple user groups can be available for the same map integration.

When you configure an Accela Silverlight GIS user group, Accela recommends that you identify the Civic Platform user group each user belongs to and make sure the permission levels for the user groups correspond.

The following topics explain how to assign permissions to user groups and add additional user groups.

### Related Links

- [Setting User Group Access to Map Functions](#)
- [Setting User Group Access to Map Commands](#)
- [Setting User Group Access to Map Layers](#)
- [Creating an Additional User Group](#)

## Setting User Group Access to Map Functions

You can set user group permissions for map functions in the Map Functions section. The Map Functions section includes the table of contents, map panels and related functions, and navigation tools. The map functions available for configuration vary depending on the Civic Platform application that your agency uses.

### To set user group access to map functions

1. Navigate to the User Group Permissions page.
2. Click the arrow icon to expand the Map Functions section.

The Accela Silverlight GIS Administration site displays the default map functions selected for the user group.

Group Personalization - Map Functions

Function Name	<input type="checkbox"/>
Group: Panel (4 items)	
File Panel	<input checked="" type="checkbox"/>
Search Panel	<input checked="" type="checkbox"/>
Contents Panel	<input checked="" type="checkbox"/>
Layers	<input checked="" type="checkbox"/>
Group: Tool (9 items)	
Zoom	<input checked="" type="checkbox"/>
Pan	<input checked="" type="checkbox"/>
Selection	<input checked="" type="checkbox"/>
Identify	<input checked="" type="checkbox"/>
Address Locator	<input checked="" type="checkbox"/>
Advanced Zoom	<input checked="" type="checkbox"/>
Measurement	<input checked="" type="checkbox"/>
Clear	<input checked="" type="checkbox"/>
Edit Geometry	<input checked="" type="checkbox"/>
Group: File (2 items)	
Print Map	<input checked="" type="checkbox"/>
Save Map	<input checked="" type="checkbox"/>
Group: Search (8 items)	
Address Search	<input checked="" type="checkbox"/>
Asset Search	<input checked="" type="checkbox"/>
Inspection Search	<input checked="" type="checkbox"/>
Owner Search	<input checked="" type="checkbox"/>
Parcel Search	<input checked="" type="checkbox"/>
Accela Record Search	<input checked="" type="checkbox"/>
GIS Search	<input checked="" type="checkbox"/>
Cond. Assessment Search	<input checked="" type="checkbox"/>

3. Mark the check box next to each map function you want to make accessible for the selected user group. You can also mark the check box next to the Function Name column header to select all the map functions. For a complete list of map functions, see [Table 11: Group Personalization Map Functions](#).
4. Click the **Save** button.

The Accela Silverlight GIS Administration site saves the user group permissions for map functions.

Table 11: Group Personalization Map Functions

Group	Function Name	Description
Panel	File Panel	Enables or disables the display of the File panel in the map viewer. By default, the check box is cleared. Mark the check box to display the panel.
	Search Panel	Enables or disables the display of the Search panel in the map viewer. By default, the check box is marked. Clear the check box to hide the panel.
	Contents Panel	Enables or disables the display of the Contents panel in the map viewer. By default, the check box is marked. Clear the check box to hide the panel.
	Layers	Enables or disables the display of the Layers panel in the map viewer. By default, the check box is marked. Clear the check box to hide the panel.
Tool	Zoom	Enables or disables the display of the Zoom In and Zoom Out buttons in the map viewer. By default, the check box is marked. Clear the check box to hide the buttons.
	Pan	Enables or disables the display of the Pan button in the map viewer. By default, the check box is marked. Clear the check box to hide the button.

Group	Function Name	Description
	Selection	Enables or disables the display of the Select by Rectangle, Select by Polygon, and Select by Polyline buttons in the map viewer. By default, the check box is marked. Clear the check box to hide the buttons.
	Identify	Enables or disables the display of the Identify button in the map viewer. By default, the check box is marked. Clear the check box to hide the button.
	Address Locator	Enables or disables the display of the Geocoding Address Locator button in the map viewer. By default, the check box is cleared. Mark the check box to show the button.
	Advanced Zoom	Enables or disables the display of the Initial Extent, Full Extent, Zoom to Active Layers, Zoom to Selected Objects, and Zoom to Scale buttons in the map viewer. By default, the check box is marked. Clear the check box to hide the buttons.
	Measurement	Enables or disables the display of the Measure Area and Measure Distance buttons in the map viewer. By default, the check box is marked. Clear the check box to hide the buttons.
	GPS Locator	Enables or disables the display of the GPS Locator button in the map viewer. By default, the check box is cleared. Mark the check box to show the button.
	Clear	Enables or disables the display of the Clear button in the map viewer. By default, the check box is marked. Clear the check box to hide the button.
	Edit Geometry	<p>Enables or disables members of the selected user group to edit geometry on a map layer. By default, the check box is cleared. Mark the check box to enable this function.</p> <p> <b>Note:</b> Users are only allowed to edit simple geometry such as points, lines, and polygons. This function is not applicable to complex geometry or multi-part features.</p> <p>To allow agency users to create or edit geometry on a map layer, you must also set the map layer editable in the Layer Settings section for a map service. See <a href="#">Importing and Configuring Map Layer Settings</a> for more information.</p> <p>To make the map layer editable to certain user group while making it read-only to another user group, define the Editable permission to the map layer for each user group in the Group Personalization - Map Layers section for the map service. See <a href="#">Setting User Group Access to Map Layers</a> for more information.</p>
File	Print Map	Enables or disables members of the selected user group to print maps. By default, Accela Silverlight GIS disables this function. Mark the check box to enable this function.
	Save Map	Enables or disables members of the selected user group to save maps. By default, Accela Silverlight GIS disables this function. Mark the check box to enable this function.
Search	Address Search	Enables or disables members of the selected user group to search for addresses through the Search panel in the map viewer. By default, Accela Silverlight GIS disables this function. Mark the check box to enable this function.
	Asset Search	Enables or disables members of the selected user group to search for assets through the Search panel in the map viewer. By default, Accela Silverlight GIS disables this function. Mark the check box to enable this function.
	Inspection Search	Enables or disables members of the selected user group to search for inspections through the Search panel in the map viewer. By default, Accela Silverlight GIS disables this function. Mark the check box to enable this function.

Group	Function Name	Description
	Owner Search	Enables or disables members of the selected user group to search for owners through the Search panel in the map viewer. By default, Accela Silverlight GIS disables this function. Mark the check box to enable this function.
	Parcel Search	Enables or disables members of the selected user group to search for parcels through the Search panel in the map viewer. By default, Accela Silverlight GIS disables this function. Mark the check box to enable this function.
	Accela Record Search	Enables or disables members of the selected user group to search for Accela records through the Search panel in the map viewer. By default, Accela Silverlight GIS disables this function. Mark the check box to enable this function.
	GIS Feature Search	Enables or disables members of the selected user group to search for GIS features through the Search panel in the map viewer. By default, Accela Silverlight GIS enables this function. Clear the check box to disable this function.
	Cond. Assessment Search	Enables or disables members of the selected user group to search for asset condition assessments through the Search panel in the map viewer. By default, Accela Silverlight GIS disables this function. Mark the check box to enable this function.

## Setting User Group Access to Map Commands

You can set user group permissions for map commands. The map commands available for configuration and the default configuration for each map command vary depending on the Civic Platform application that your agency uses.

### To set user group access to map commands

1. Navigate to the User Group Permissions page.
2. Click the arrow icon to expand the Map Commands section.

The Accela Silverlight GIS Administration site displays the default map commands selected for the user group.

Group Personalization - Map Commands	
Command Name	<input checked="" type="checkbox"/>
Remove All Contents	<input checked="" type="checkbox"/>
Remove Selected Contents	<input checked="" type="checkbox"/>
Buffer Selection	<input checked="" type="checkbox"/>
Data Export	<input checked="" type="checkbox"/>
Show GIS Information	<input checked="" type="checkbox"/>
Edit Attributes	<input checked="" type="checkbox"/>
Show Accela Record	<input checked="" type="checkbox"/>
Show Documents	<input checked="" type="checkbox"/>
Load List Portlet	<input checked="" type="checkbox"/>
Create New Record	<input checked="" type="checkbox"/>
Create Inspection	<input checked="" type="checkbox"/>
Create Single Work Order	<input checked="" type="checkbox"/>
Create Multiple Work Orders	<input checked="" type="checkbox"/>
Send GIS Features	<input checked="" type="checkbox"/>
Send Address	<input checked="" type="checkbox"/>
Send Items Order	<input checked="" type="checkbox"/>
Link Object to Work Order	<input checked="" type="checkbox"/>
Link Object to Record	<input checked="" type="checkbox"/>
Link Object to Asset	<input checked="" type="checkbox"/>
Link Object to PM Schedule	<input checked="" type="checkbox"/>
Route Selected	<input checked="" type="checkbox"/>
Add to Route Manifest	<input checked="" type="checkbox"/>
Optimized by Distance	<input checked="" type="checkbox"/>
Optimized By Time	<input checked="" type="checkbox"/>
Route the list	<input checked="" type="checkbox"/>
Add a stop	<input checked="" type="checkbox"/>
Remove from Route	<input checked="" type="checkbox"/>

3. Mark the check box next to each map command you want to make accessible for the selected user group. Alternatively, you can mark the check box next to the Command Name column header to select all the map commands. For a complete list of map commands, see [Table 12: Group Personalization Map Command Fields](#).

4. Click the **Save** button.

The Accela Silverlight GIS Administration site saves the user group permissions for map commands.

**Table 12: Group Personalization Map Command Fields**

Add a stop	<p>When you enable this command, Accela Silverlight GIS users can add a geopoint to a route list. For example, a field worker who uses Mobile Office might need to add a stop to their route list when the stop does not relate to an existing work order or an existing item in their route manifest.</p> <p>Accela Silverlight GIS enables this command by default. Clear the check box to disable this command.</p>
Add to Route Manifest	<p>When you enable this command, Accela Silverlight GIS users can add GIS objects, such as a work order or a service request, to the routing panel.</p> <p>Accela Silverlight GIS enables this command by default. Clear the check box to disable this command.</p>
Buffer Selection	<p>When you enable this command, Accela Silverlight GIS users can use the buffer selection tool to identify objects within a specific proximity to another object.</p> <p>Accela Silverlight GIS enables this command by default. Clear the check box to disable this command.</p> <p>Note: Buffering requires an ArcGIS Server geometry service. For more information about geometry services, see "Publishing Services" in the</p>

Setting Up Map Functionality chapter of the *Accela Silverlight GIS for ArcGIS Server Configuration Guide*.

Create Asset Condition Assessment	<p>When you enable this command, Accela Silverlight GIS users can create an asset condition assessment from the map viewer. For example, a field worker who uses Mobile Office completing asset condition assessments for traffic lights might want to request an asset condition assessment for additional traffic lights not included in his or her original scope of work.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Create Inspection	<p>When you enable this command, Accela Silverlight GIS users can create inspections from the map viewer.</p> <p>In the map integration with Citizen Access, the name of this map command is Schedule Inspection.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Create Multiple Work Orders	<p>When you enable this command, Accela Silverlight GIS users can create multiple work orders from the map viewer. For example, a field worker might want to create multiple work orders for a group of assets in the same location.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Create New Record	<p>When you enable this command, Accela Silverlight GIS users can create records from the map viewer. For example, a field worker might want to create a record for a parcel and request an inspection.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Create Single Work Order	<p>When you enable this command, Accela Silverlight GIS users can create individual work orders from the map viewer.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Data Export	<p>When you enable this command, Accela Silverlight GIS users can export data, such as address for mailing labels, in CSV format.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Get XY Location	<p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Edit Attributes	<p>When you enable this command, Accela Silverlight GIS users can edit GIS feature attributes. If you want to give Accela Silverlight GIS users the option to edit attributes and create GIS feature geometry, then you must enable this command and the Edit Geometry command in the Map Functions section.</p> <p>For more information on how to enable commands in the Map Functions section, see <a href="#">Setting User Group Access to Map Functions</a>. If you want to give Accela Silverlight GIS users the option to edit attributes and exclude the option to create GIS feature geometry, then you must only enable the Edit Attributes command.</p> <p>By default, the Edit Attributes command in the Map Functions section is disabled.</p>
Link Object to Asset	<p>When you enable this command, Accela Silverlight GIS users can link GIS objects to assets. For example, users can link GIS objects that are mapped to an asset type together and associate them with a parent asset.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Link Object to Work Order	<p>When you enable this command, Accela Silverlight GIS users can link GIS objects to work orders.</p>

	<p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Load List Portlet	<p>When you enable this command, Accela Silverlight GIS users can send the items selected from the map to the list portlet where they open the map.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Optimize by Distance	<p>When you enable this command, Accela Silverlight GIS users can optimize route lists. When a route list is optimized by distance, Accela Silverlight GIS creates a route that minimizes the distance traveled.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Optimize by Time	<p>When you enable this command, Accela Silverlight GIS users can optimize route lists by time. When a route list is optimized by time, Accela Silverlight GIS creates a route that takes the least possible amount of travel time.</p> <p>Accela Silverlight GIS enables this command by default. Clear the check box to disable this command.</p>
Remove from Route	<p>When you enable this command, Accela Silverlight GIS users can remove a stop from a route list.</p> <p>Accela Silverlight GIS enables this command by default. Clear the check box to disable this command.</p>
Remove Selected Contents	<p>When you enable this command, Accela Silverlight GIS users can remove selected items from a route list.</p> <p>Accela Silverlight GIS enables this command by default. Clear the check box to disable this command.</p>
Resume Application	<p>When you enable this command, Accela Silverlight GIS users can open the application intake form for a partial record from the map viewer and resume the application intake process.</p> <p>Accela Silverlight GIS enables this command by default. Clear the check box to disable this command.</p>
Route the list	<p>When you enable this command, Accela Silverlight GIS users can execute a command to route a list of tasks, which might include inspections, work orders, and service requests.</p> <p>Accela Silverlight GIS enables this command by default. Clear the check box to disable this command.</p>
Send Address	<p>When you enable this command, Accela Silverlight GIS users can send address details to Civic Platform, Mobile Office, or Citizen Access. For example, a field worker might want to attach a work order to an asset.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Send GIS Features	<p>When you enable this command, Accela Silverlight GIS users can send a GIS feature to Civic Platform, Mobile Office, or Citizen Access. In the map integration with Citizen Access, the name of this map command is Use Property Information.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Send Items	<p>When you enable this command, Accela Silverlight GIS users can send a route list to Civic Platform or Mobile Office.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
Show Accela Record	<p>When you enable this command, Accela Silverlight GIS users can open the Civic Platform reference form for a selected object, such as a work order for an asset or a building permit for a parcel.</p>

	Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.
Show Documents	<p>When this command is enabled, Accela Silverlight GIS users can get a listing of documents attached to a GIS object.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
View Documents	<p>When you enable this command, Accela Silverlight GIS users can view any documents attached to a GIS object. For example, a field worker completing work orders on fire hydrants might want to review a PDF schematic of the fire hydrant attached to the work order.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>
View Related CAPs	<p>When you enable this command, Accela Silverlight GIS users can view any records attached to a GIS object. For example, an agency user might to search for and view any applications related to a specific application.</p> <p>Accela Silverlight GIS disables this command by default. Mark the check box to enable this command.</p>

## Setting User Group Access to Map Layers

You can set user group permissions for map layers. If you configure multiple map services for the same integration environment, all of the related map layers display on the User Group Permissions page.

There are four permission levels for map layers: Available, Visible, Active, and Editable.

The first permission level, Available, determines whether Accela Silverlight GIS users can view a selected map layer. If the Available check box is unmarked, the Visible, Active, and Editable check boxes are disabled. Meanwhile, the map layer is not available either on the map or in the Layers panel of the map viewer. If the Available check box is marked and the Visible and Active check boxes are marked, then agency users can view and modify map layers in the map viewer. If you want to give agency users the option to create and edit map layers in Accela Silverlight GIS, you must set the each map layer permission level to Available. The Available check box is marked by default.

The second permission level, Visible, determines whether a selected map layer is visible on the map viewer. Accela Silverlight GIS users can unmark map layers so that they are not visible on the map viewer. The Visible check box is unmarked by default.

The third permission level, Active, determines whether a map layer is active in the Layers panel of the map viewer. When a map layer is active, Accela Silverlight GIS users can select all of the GIS objects associated with the active layer, such as Fire Hydrants, on the map viewer. The Active check box is unmarked by default.

The fourth permission level, Editable, determines whether agency users can create or edit geometry on an editable map layer. The Editable check box is unmarked by default.

### To set user group access to map layers

1. Navigate to the User Group Permissions page.
2. Click the arrow icon to expand the Map Layers section.

The Accela Silverlight GIS Administration site displays the default map layers selected for the user group.

Map Service/Layer Name	<input checked="" type="checkbox"/> Available	<input checked="" type="checkbox"/> Visible	<input type="checkbox"/> Active	<input type="checkbox"/> Editable
Dynamic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Major_Roads_2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Street	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
City Parcels	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parcels	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Districts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Inspection_Areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Council_Districts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
City_Boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cached	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Water_Valves				
citylimits_image	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ImageServer			<input type="checkbox"/>	

3. Mark the check box next to each map layer you want to make accessible for the selected user group.



**Note:**

For cached ArcGIS Server map services, ArcGIS Online Base Map services, and ArcGIS Image Server image services, the Available and Visible check boxes only appear next to the map service name. For cached ArcGIS Server map services, the Active check box appears next to the map service name and each map layer name. But for the ArcGIS Online Base Map and ArcGIS Image Server services, the Active check boxes are disabled.

The Editable check box only appears next to the map layers that are set to editable in the Layer Settings for a dynamic ArcGIS Server map service or an ArcGIS Engine map service. If no map layers are set to editable in the Layer Settings, then the Group Personalization - Map Layers section does not display the Editable column.

4. Click the **Save** button.

The Accela Silverlight GIS Administration site saves the user group permissions for map layers.

## Creating an Additional User Group

After you configure user group settings and permission levels for your default user group, you can create an additional user group or groups.

When you create an additional user group, you must retrieve users from the Civic Platform application server. Any users that you retrieve but do not assign to a specific user group are automatically assigned to the default user group.

Users can belong to one or more groups. If a user belongs to multiple user groups, the user retains the permission levels from all of his or her associated groups.

**To create an additional user group**

1. Navigate to the User Group Permissions page.
2. Click the **Add More User Groups** button.

The Accela Silverlight GIS Administration site displays the Create User Groups page.

### 3. Complete these fields:

User Group Name	Enter a unique name to identify the Accela Silverlight GIS user group, such as Asset Management Accela Silverlight GIS users or Land Management Accela Silverlight GIS users.
Group Description	Enter a description of the Accela Silverlight GIS user group you create, such as Traffic Light Maintenance Group.

### 4. Click the **Retrieve Users** link.

The Accela Silverlight GIS Administration site connects to the Civic Platform application server and retrieves all Civic Platform users.

### 5. Mark the check box next to each user you want to assign to the user group you create.

You can also mark the check box in the column header to select all users.

### 6. Assign user group permissions to map functions, map commands, and map layers.

### 7. Click the **Next** button on the User Group Permissions page.

If you are creating an integration environment for Civic Platform, the Accela Silverlight GIS Administration site displays the Additional Settings page. For more information, see [Configuring Additional Settings](#).

If you are creating an integration environment for Mobile Office offline mapping, the Accela Silverlight GIS Administration site displays the Offline Map Data Management page. For more information, see [Managing Offline Map Data](#).

For instructions on how to configure default user group settings, see the following related topics.

#### Related Links

[Setting User Group Access to Map Functions](#)

[Setting User Group Access to Map Commands](#)

[Setting User Group Access to Map Layers](#)

## Configuring Additional Settings

---

This topic applies to Accela Silverlight GIS additional configuration supporting the pre-8.x user interface of Civic Platform. This topic does not apply to map integration environments created for Mobile Office.

You can configure external address, parcel, and owner data and data export settings for specific integration environments set up for Civic Platform. Before you can configure additional settings, you must define a map integration environment, set up a connection to a map service, and define user groups and their permissions. For instructions on these tasks, see [Setting up a Map Service Connection](#), and [Defining User Groups and Permissions](#).

After you configure any required additional settings, you can also configure dynamic themes. For more information on how to configure dynamic themes, see [Configuring Civic Platform](#).

### Related Links

[Configuring External Address, Parcel, and Owner Settings](#)

[Configuring Data Export Settings](#)

[Configuring Hotlink Settings](#)

## Configuring External Address, Parcel, and Owner Settings

This topic applies to Accela Silverlight GIS.

Civic Platform can integrate with an external address, parcel, and owner (APO) data source through the external APO web service. One possible external data source is Accela Silverlight GIS. This section describes one of the required configuration tasks that you must complete, if you want to integrate Accela Silverlight GIS as the external APO data source of Civic Platform. For the other configuration tasks, see the *Accela Automation External APO Integration Guide* in *XAPO SDK.zip*.

Your agency can have different map integrations. For example, one for Civic Platform, one for Citizen Access, one for Mobile Office online mode, and one for Mobile Office offline mode. However, to use Accela Silverlight GIS as your external APO data source, you must map each Civic Platform reference APO field to an Accela Silverlight GIS map layer field for your agency's Civic Platform map integration environment.

While you can configure multiple map services for the same integration environment, you can only configure external address, parcel, and owner data for one map service.

### To configure external address, parcel, and owner data settings

1. Navigate to the Additional Settings page.

The Accela Silverlight GIS Administration site displays the Additional Settings page.



Welcome: **Admin** [\[Logout\]](#)  
 Agency: **NYELS**  
**Accela GIS Administration**

[Home](#) >> [Integration Environment](#) >> [Edit Integration Environment - Sacco](#) >> Additional Settings

 **Additional Settings**

**XAPO Configuration** [Retrieve Template Fields](#) 

**Data Export Settings** 

**Hotlink Settings** 

Click Save to return Edit Integration Environment Settings page.

2. Navigate to the XAPO Configuration section.

**XAPO Configuration** [Retrieve Template Field](#) 

Accela Reference Object:

Map Service:

GIS Layer:

Accela Reference Object Field	GIS Layer Field
UID *	--- Select ---
XCoordinator	--- Select ---
YCoordinator	--- Select ---
addressDescription	--- Select ---
addressLine1	--- Select ---
addressLine2	--- Select ---
addressStatus	--- Select ---
streetDirection	--- Select ---
streetName	--- Select ---
streetPrefix	--- Select ---
streetSuffix	--- Select ---
streetSuffixdirection	--- Select ---
subdivision	--- Select ---
unitEnd	--- Select ---
unitStart	--- Select ---
unitType	--- Select ---
zip	--- Select ---

Accela Reference Template Field	GIS Layer Field
ADDRESS#	--- Select ---
ADDRESS STATUS	--- Select ---
Color Skin setting	--- Select ---

3. Select a value for each of the following drop-down lists:

---

Accela Reference Object This drop-down list displays the Civic Platform reference objects, including Address, Parcel, and Owner, that you can map to Accela Silverlight GIS.

Note: To use Accela Silverlight GIS as your XAPO data source, you must map all reference objects to Accela Silverlight GIS.

GIS Layer	This drop-down list displays all the map layers configured for the map service you select in the Map Service drop-down list. After you select a map layer, the GIS Layer Field drop-down list populates with all the related map layer fields. You must select a map service before you can select a map layer.
Map Service	This drop-down list displays all the map services configured for you map integration environment. Select the map service for which you want to configure external address, parcel, and owner data from this drop-down list. After you select a map service, the GIS Layer drop-down list populates with all the related map layers. You can only configure external address, parcel, and owner data for one map service.

The Accela Silverlight GIS Administration site populates the Accela Reference Object Field column and the GIS Layer Field drop-down list for each reference object. See [Table 13: Reference Object Fields](#) for a list of Civic Platform reference object fields.

#### 4. Click the **Retrieve Template Fields** link.

The Accela Silverlight GIS Administration site populates the template fields retrieved from the APO templates in the Accela Reference Template Field column.



**Note:** Your agency administrator defines and enables address, parcel, and owner (APO) templates in Civic Platform. Active template attributes can display as Accela reference template fields in the Accela Silverlight GIS Administration site. When you map each APO template attribute to a GIS map layer field, users can retrieve the APO template data from the external APO data source.

#### 5. Select a value from this drop-down list for each Accela reference object or each template field:

GIS Layer Field	This drop-down list displays the layer fields associated with the selected map layer.
-----------------	---

#### 6. Complete one of these steps:

- If you want to configure your map integration environment with data export functionality, see [Configuring Data Export Settings](#). If you want to configure your map integration environment with hotlinks, see [Configuring Hotlink Settings](#).
- If you do not want to configure your map integration environment with data export functionality or hotlink settings, click the **Finish** button.

The Accela Silverlight GIS Administration site displays a different page based on whether you are creating or editing a map integration environment.

If you are creating a map integration environment, the Accela Silverlight GIS Administration site displays the Integration Environment Settings page. If you are editing a map integration environment, the Accela Silverlight GIS Administration site displays the Edit Integration Environment page.

Table 13: Reference Object Fields

Reference Object	Reference Object Fields
Address	xCoordinator, yCoordinator, addressDescription, addressLine1, addressLine2, addressStatus, addressTypeFlag, auditDate, auditID, auditStatus, city, country, countryCode, county, distance, eventID, fullAddress, houseFractionEnd, houseFractionStart, houseNumberAlphaEnd, houseNumberAlphaStart, houseNumberEnd, houseNumberStart, inspectionDistrict, inspectionDistrictPrefix, levelPrefix, levelNumberStart, levelNumberEnd, lot, neighborhood, neighborhoodPrefix, primaryFlag, secondaryRoad, secondaryRoadNumber, sourceFlag, state, streetDirection, streetName, streetPrefix, streetSuffix, streetSuffixdirection, subdivision, unitEnd, unitStart, unitType, zip
Owner	UID, address, address1, address2, address3, auditDate, auditID, auditStatus, city, country, email, eventID, fax, faxCountryCode, isPrimary, ivrPinNumber,

Reference Object	Reference Object Fields
	ivrUserNumber, mailAddress, mailAddress1, mailAddress2, mailAddress3, mailCity, mailCountry, mailState, mailZip, ownerFirstName, ownerFullName, ownerLastName, ownerMiddleName, ownerStatus, ownerTitle, phone, phoneCountryCode, sourceSeqNumber, state, taxID, zip
Parcel	UID, auditDate, auditID, auditStatus, block, book, censusTract, councilDistrict, eventID, exemptValue, improvedValue, inspectionDistrict, landValue, legalDesc, lot, mapNo, mapRef, page, parcel, parcelArea, parcelNumber, parcelStatus, primaryParcelFlag, planArea, range, section, sourceSeqNumber, subDivision, supervisorDistrict, township, tract

## Configuring Data Export Settings

You can configure data export settings for Accela Silverlight GIS users. When you configure data export settings, you determine which GIS fields users can export to a .csv or .xml file. Configure data export settings that reflect the data Accela Silverlight GIS users might want to export.

For example, Accela Silverlight GIS users might want to export data to create mailing labels. In this case, you need to configure data export settings that include First and Last Name fields, along with Street Number, City, State, and Zip Code fields.

### To configure data export settings

1. Navigate to the Additional Settings page.

The Accela Silverlight GIS Administration site displays the Additional Settings page.

Welcome: **Admin** [\[Logout\]](#)  
Agency: **NYELS**

**Accela GIS Administration**

[Home](#) >> [Integration Environment](#) >> [Edit Integration Environment - Sacco](#) >> Additional Settings

**Additional Settings**

XAPO Configuration [Retrieve Template Fields](#) ▼

Data Export Settings ▼

Hotlink Settings ▼

Click Save to return Edit Integration Environment Settings page.

Save Cancel

2. Navigate to the Data Export Settings section.

**Data Export Settings**

Parcel Data Export Settings:

<input type="checkbox"/> File Name	<input checked="" type="checkbox"/> Fields
<input checked="" type="checkbox"/> AdditionalInformation.csv	<input checked="" type="checkbox"/> Name
<input checked="" type="checkbox"/> APO.csv	<input checked="" type="checkbox"/> ParcelID
<input checked="" type="checkbox"/> CompactAddresses.csv	<input checked="" type="checkbox"/> Type
<input checked="" type="checkbox"/> Conditions.csv	<input checked="" type="checkbox"/> Value
<input checked="" type="checkbox"/> ContactOrganizations.csv	
<input checked="" type="checkbox"/> ContactPersons.csv	
<input checked="" type="checkbox"/> DetailAddresses.csv	
<input checked="" type="checkbox"/> GISObjects.csv	
<input checked="" type="checkbox"/> Holds.csv	
<input checked="" type="checkbox"/> ParcelId.csv	

CAP Data Export Settings:

<input type="checkbox"/> File Name	<input checked="" type="checkbox"/> Fields
<input checked="" type="checkbox"/> AdditionalInformation.csv	<input checked="" type="checkbox"/> CAPID
<input checked="" type="checkbox"/> CAPID.csv	<input checked="" type="checkbox"/> Name
<input checked="" type="checkbox"/> CompactAddresses.csv	<input checked="" type="checkbox"/> Value
<input checked="" type="checkbox"/> Conditions.csv	
<input checked="" type="checkbox"/> ContactOrganizations.csv	
<input checked="" type="checkbox"/> ContactPersons.csv	
<input checked="" type="checkbox"/> DetailAddresses.csv	
<input checked="" type="checkbox"/> GISObjects.csv	

3. Mark the check box next to the name of the file that you want to create a data export file. For a complete list of data export file types and file names, see [Table 14: Data Export File Names](#).

4. Complete one of these steps:

- If you want to configure your map integration environment with external address, parcel, and owner settings, see [Configuring External Address, Parcel, and Owner Settings](#). If you want to configure your map integration environment with hotlinks, see [Configuring Hotlink Settings](#).
- If you do not want to configure your map integration environment with external APO settings or hotlinks, click the **Finish** button.

The Accela Silverlight GIS Administration site displays a different page based on whether you are creating or editing a map integration environment.

If you are creating a map integration environment, the Accela Silverlight GIS Administration site displays the Integration Environment Settings page. If you are editing a map integration environment, the Accela Silverlight GIS Administration site displays the Edit Integration Environment page.

**Table 14: Data Export File Names**

File Type	File Name
CSV	AdditionalInformation, CompactAddresses, Conditions, ContactOrganizations, ContactPersons, DetailAddresses, GISObjects, Holds, ParcelId

## Configuring Hotlink Settings

You can configure hotlink settings for Accela Silverlight GIS. Hotlinks allow agency users to pass parameters from the map control to a predefined URL.

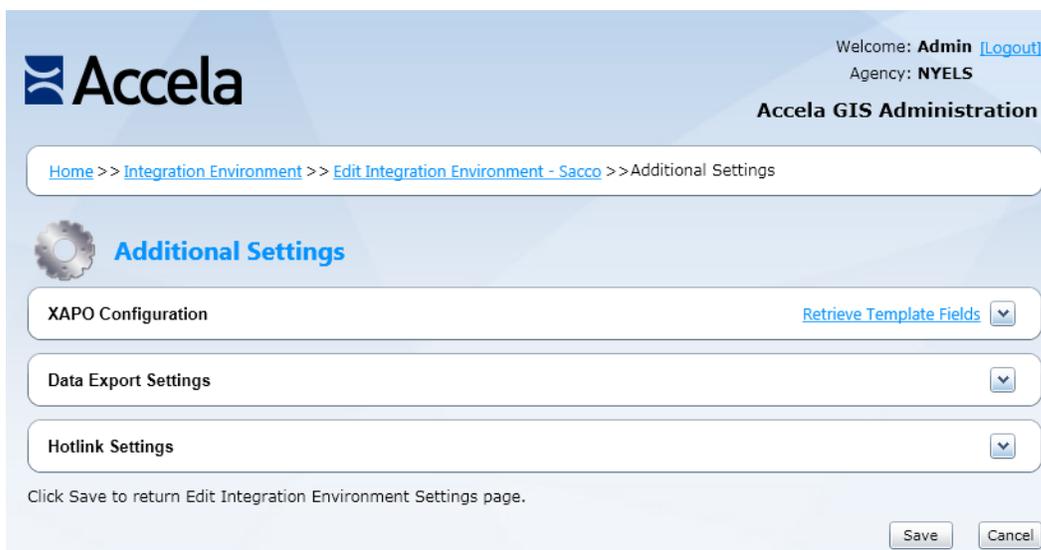
For example, an agency user might want to view a building record stored in an application outside of Civic Platform, such as Laserfiche. If you configure a hotlink for Laserfiche, then an agency user can open Laserfiche directly from the map control.

When you configure hotlink settings, you determine the hotlink name and URL. You also indicate the map layer on which hotlinks can be available to users.

### To configure hotlink settings

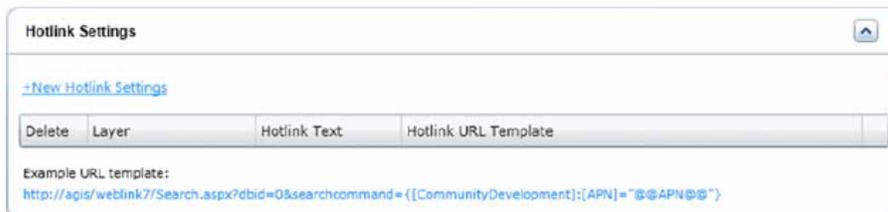
1. Navigate to the Additional Settings page.

The Accela Silverlight GIS Administration site displays the Additional Settings page.



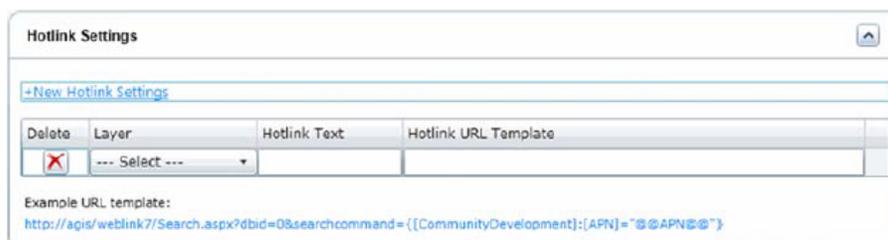
2. Navigate to the Hotlink Settings section.

The Accela Silverlight GIS Administration site displays the Hotlink Settings section.



3. Click the **New Hotlink Settings** link.

The Accela Silverlight GIS Administration site displays the New Hotlink Settings section.



4. Complete the fields that display. For a complete list of fields, see [Table 15: Hotlink Settings](#).

5. Complete one of these steps:

- If you want to configure your map integration environment with data export functionality, see [Configuring Data Export Settings](#). If you want to configure your map integration environment with external address, parcel, and owner settings, see [Configuring External Address, Parcel, and Owner Settings](#).
- If you do not want to configure your map integration environment with data export functionality or external APO settings, click the **Finish** button.

The Accela Silverlight GIS Administration site displays a different page based on whether you are creating or editing a map integration environment.

If you are creating a map integration environment, the Accela Silverlight GIS Administration site displays the Integration Environment Settings page. If you are editing a map integration environment, the Accela Silverlight GIS Administration site displays the Edit Integration Environment page.

**Table 15: Hotlink Settings**

Hotlink Text	Enter a brief description of the hotlink URL. The text that you enter here identifies the hotlink on the Accela Silverlight GIS Actions and Context menus.
Hotlink URL Template	<p>Enter the hotlink URL and parameters. Parameters give agency users the option to reference map layer attributes within a URL.</p> <p>The format of the parameter name is @@ATTRIBUTE@@. For example, you might enter apn=@@APN@@, where APN is the attribute name in the GIS feature. For the URL template, you might enter http://server/Search.aspx?dbid=0&amp;APN=@@APN@@. The APN value is retrieved dynamically.</p> <p>When an agency user opens a hotlink from the map control, the @@ATTRIBUTE@@ value is replaced with the GIS feature attribute value and passed to another application.</p> <p>The following templates are supported:</p> <ul style="list-style-type: none"> <li>• http://&lt;url&gt;/@@ATTRIBUTE@@</li> <li>• http://&lt;url&gt;/@@ATTRIBUTE1@@/&lt;xyz&gt;/@@ATTRIBUTE2@@</li> <li>• @@@ATTRIBUTE1@@/&lt;xyz&gt;/@@ATTRIBUTE2@@</li> <li>• @@ATTRIBUTE1@@@ATTRIBUTE2@@</li> <li>• "@@ATTRIBUTE1@@@ATTRIBUTE2@@"</li> <li>• "@@ATTRIBUTE@@"</li> </ul>
Layer	Select a map layer from the drop-down list. The map layer you select determines where the hotlink displays.

## Managing Offline Map Data

---

This topic applies to Accela Silverlight GIS.

To configure a map integration for Mobile Office Offline Mapping, you must create a data package. A data package includes the map layer information that Mobile Office users can access and modify when they work offline. When Mobile Office users are online, they can upload the changes to the Accela Silverlight GIS Server.

Before you can configure a data package for offline mapping, you must define a map integration environment, set up a connection to a map service, and define user groups and their permissions. For instructions on these tasks, see [Integrating Your Environment](#), [Setting up a Map Service Connection](#), and [Defining User Groups and Permissions](#).

### Related Links

[Creating a Data Package for Offline Maps](#)

## Creating a Data Package for Offline Maps

This topic applies to Accela Silverlight GIS which supports Mobile Office.

When you configure an integration environment for Mobile Office offline mapping, you must create a data package on the Accela Silverlight GIS server.

When Mobile Office users are online, they can check for updated data and downloads by clicking the Update Map Data for Offline Use button. When users click this button, Mobile Office finds the user's corresponding Accela Silverlight GIS user group, checks the available layers for the user group, and then downloads all available layers.

Before the download begins, Mobile Office verifies if the map layer data corresponds to current offline map data on the Accela Silverlight GIS server. If there are updates to map layer data, Mobile Office downloads the data asynchronously.

All map layer data that is available on the Accela Silverlight GIS server is downloaded to the map layers in the Mobile Office offline map. After the download is complete, Mobile Office displays a confirmation message.

After you create a data package, you can easily incorporate GIS layer updates. To update a map layer, select the map layer and then click the Generate Offline Map Data link.

Before you can create a data package for an Mobile Office offline map, you must define an integration environment, set up a connection to a map service, and define user groups and their permissions. For instructions, see [Integrating Your Environment](#), [Setting up a Map Service Connection](#), and [Defining User Groups and Permissions](#).

### To create a data package for offline map use

1. Navigate to the Offline Map Data Management page.

The Accela Silverlight GIS Administration site displays the Offline Map Data Management page.

Home >> Integration Environment >> Edit Integration Environment - BPT Offline Map >> Offline Map Data Management

## Offline Map Data Management

Offline Map Data Management [Generate Offline Map Data](#)

QA/Sacramento

Layer Name	<input type="checkbox"/> Select	Date Last Updated
Major_Roads_2005	<input type="checkbox"/>	
Street	<input type="checkbox"/>	
City_Parcels	<input type="checkbox"/>	
Parcels	<input type="checkbox"/>	
sacco.DBO.Parks	<input type="checkbox"/>	
Zoning Inspector Areas	<input type="checkbox"/>	
Council_Districts	<input type="checkbox"/>	
sacco.DBO.City_Boundary	<input type="checkbox"/>	

Geocoding & Routing

Service	<input type="checkbox"/> Select	Date Last Updated
Routing : QA/Sacramento_Routing	<input type="checkbox"/>	

Cancel

- In the **Select** column, mark the check boxes next to the map layers you want to include in the data package for offline mapping.  
You can also mark the **Select** check box in the column header to select all the map layers.
- Mark the check boxes next to the geocoding and routing service data that you want to include in the Accela Silverlight GIS server data package. If the integration environment does not include any geocoding and routing service, then these sections do not display.
- Click the **Generate Offline Map Data** link.  
The Accela Silverlight GIS Administration site downloads the selected GIS map layers and map data from ArcGIS Server and creates a data package on the Accela Silverlight GIS server. If Accela Silverlight GIS generates the data package successfully, the Date Last Updated field displays an updated date and time.
- Click the **Finish** button.  
The Accela Silverlight GIS Administration site displays the Integration Environment Settings page.

## Modifying Map Integration Settings

This topic applies to Accele Silverlight GIS.

After you configure a map integration environment for Civic Platform, Mobile Office Online Mapping, Mobile Office Offline Mapping, or Citizen Access, you can edit the integration environment settings.

You can modify specific elements of a map integration environment without navigating through the Map Integration Wizard. For example, you might want to add a user group to an existing integration environment. To complete this task, you can navigate directly to the User Groups section on the Integration Environment page and add a user group. This way, you can easily update and modify integration environment settings.

Before you can modify map integration settings, you must create a map integration environment. For instructions, see [Integrating Your Environment](#), [Setting up a Map Service Connection](#) and [Defining User Groups and Permissions](#).

The following topics explain how to modify map integration settings.

### Related Links

[Editing a Map Integration Environment](#)

[Adding a Map Service to an Integration Environment](#)

[Adding a User Group to an Integration Environment](#)

## Editing a Map Integration Environment

### To edit a map integration environment

1. If necessary, log in to the Accele Silverlight GIS Administration site.

The Accele Silverlight GIS Administration site displays the Administration home page.

2. Click the **Modify Configuration** link.

The Accele Silverlight GIS Administration site displays the Integration Environment Settings page.

The screenshot shows the 'Integration Environment Settings' page in the Accele GIS Administration interface. At the top, there is a navigation breadcrumb: 'Home >> Integration Environment'. Below this, the page title is 'Integration Environment Settings'. A section titled 'Integration Environments' contains a '+New Integration Configuration' link and a table with the following data:

Edit	Delete	Integration Name	AA Service ID	Product	Default
		BPT av360	ESRIonline	AV360	False
		BPT Online Map	AGIS_SCRAMENTO	AMO	False
		BPT Offline Map	AGIS_SCRAMENTO	AMO	False

3. Click the pencil icon next to the map integration environment you want to modify.

The Accele Silverlight GIS Administration site displays the Edit Integration Environment page.

Home >> [Integration Environment](#) >> Edit Integration Environment - BPT av360

## Edit Integration Environment

### Define Environment

Integration Name: \*

AA GIS Service ID: \*

Product: \*

Application Server URL: \*

Accele Automation User Name: \*

Accele Automation Password: \*

Default:

### Map Services

[+New Map Service](#)

Edit	Delete	Service Name	Provider	Default	Order
		QA/Sacramento	ESRI ArcGIS Server	True	<input type="text" value="1"/>
		BingMap	Microsoft Bing Maps	False	<input type="text" value="2"/>

### User Groups

[+New User Group](#)

Edit	Delete	Group Name
		Default
		AAM

### Additional Settings

[+Modify Additional Settings](#)

4. Identify the section you want to edit.

5. Complete one of these options:

- If you want to edit the defined environment settings:
  - Complete the fields that display in the Define Environment section. For a complete list of fields, see [Integrating Your Environment](#).
- If you want to edit the map service settings:
  1. Click the pencil icon next to the map service you want to edit.  
The Accele Silverlight GIS Administration site displays the Map Service Connection page.
  2. Edit the fields as necessary.  
For a complete list of fields, see [Setting up a Map Service Connection](#).

- If you want to edit user group settings:
    1. Click the pencil icon next to the user group you want to edit.  
The Accela Silverlight GIS Administration site displays the User Group Permissions page.
    2. Edit the fields as necessary. For a complete list of fields, see [Defining User Groups and Permissions](#).
  - If you want to edit additional settings:
    1. Click the **Modify Additional Settings** link.  
The Accela Silverlight GIS Administration site displays the Additional Settings page.
    2. Edit the fields as necessary.  
For a complete list of fields, see [Configuring Additional Settings](#).
  - If you want to update or create a new data package to reflect changes to a GIS layer or verify that Accela Silverlight GIS generates a data package successfully:
    1. Click the **Offline Map Data Management** link.  
The Accela Silverlight GIS Administration site displays the Offline Map Data Management page.
    2. Complete the settings as necessary.  
For details, see [Managing Offline Map Data](#).
6. Click the **Finish** button.  
The Accela Silverlight GIS Administration site displays the Integration Environment Settings page.
  7. Click the **Save** button.  
The Accela Silverlight GIS Administration site saves changes to the selected integration environment.

## Adding a Map Service to an Integration Environment

You can add a map service to an existing integration environment. For example, you might want to add a map service to an integration environment to create map mashups. You can mash up map services from your agency's GIS provider, such as Microsoft and Esri. In particular, Esri ArcGIS Server provides two types of map services: cached map services and dynamic map services. You can only create map mashups of Microsoft Bing Maps and dynamic ArcGIS Server maps, mashups of cached and dynamic ArcGIS Server maps, or mashups of Microsoft Bing Maps and map services compliant with Open Geospatial Consortium (OGC) Standards.



### Note:

If you create map mashups using multiple Esri fused cached map services and a dynamic map service, make sure the mashups meet the following requirements:

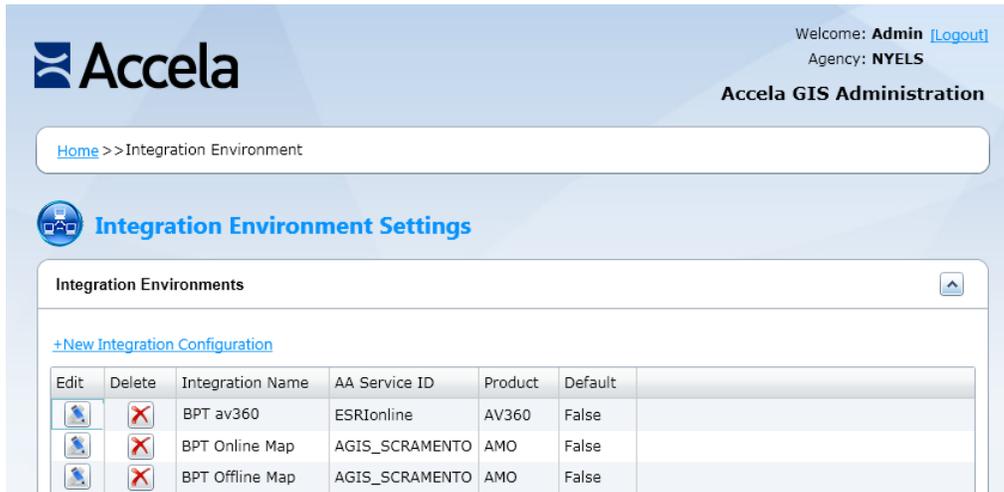
- Both dynamic and cached map services use the same spatial reference.
- All the cached map services in the same map view have the same tiling scheme and properties.
- The default map service is the cached map service that has the largest full extent.

The best practice is to set the same full extent for all the dynamic and cached map services in the map view.

---

### To add a map service to an integration environment

1. If necessary, log into the Accela Silverlight GIS Administration site.
2. Click the **Modify Configuration** link.  
The Accela Silverlight GIS Administration site displays the Integration Environment Settings page.



The screenshot shows the Accela GIS Administration interface. At the top left is the Accela logo. At the top right, it says "Welcome: Admin [Logout]" and "Agency: NYELS". Below the logo is the text "Accela GIS Administration". A breadcrumb trail shows "Home >> Integration Environment". The main heading is "Integration Environment Settings". Below this is a section titled "Integration Environments" with a "+New Integration Configuration" link. A table lists three integration environments:

Edit	Delete	Integration Name	AA Service ID	Product	Default	
		BPT av360	ESRIonline	AV360	False	
		BPT Online Map	AGIS_SCRAMENTO	AMO	False	
		BPT Offline Map	AGIS_SCRAMENTO	AMO	False	

3. Click the pencil icon next to the map integration environment to which you want to add a map service.  
The Accela Silverlight GIS Administration site displays the Edit Integration Environment page.

Home >> [Integration Environment](#) >> Edit Integration Environment - BPT av360

## Edit Integration Environment

**Define Environment**

Integration Name: \*

AA GIS Service ID: \*

Product: \*

Application Server URL: \*

Accela Automation User Name: \*

Accela Automation Password: \*

Default:

**Map Services**

[+New Map Service](#)

Edit	Delete	Service Name	Provider	Default	Order
		QA/Sacramento	ESRI ArcGIS Server	True	1
		BingMap	Microsoft Bing Maps	False	2

**User Groups**

[+New User Group](#)

Edit	Delete	Group Name
		Default
		AAM

**Additional Settings**

[+Modify Additional Settings](#)

4. Click the **New Map Service** link.

The Accela Silverlight GIS Administration site displays the Map Service Connection page.

5. Configure a new map service. For instructions, see [Setting up a Map Service Connection](#).

## Adding a User Group to an Integration Environment

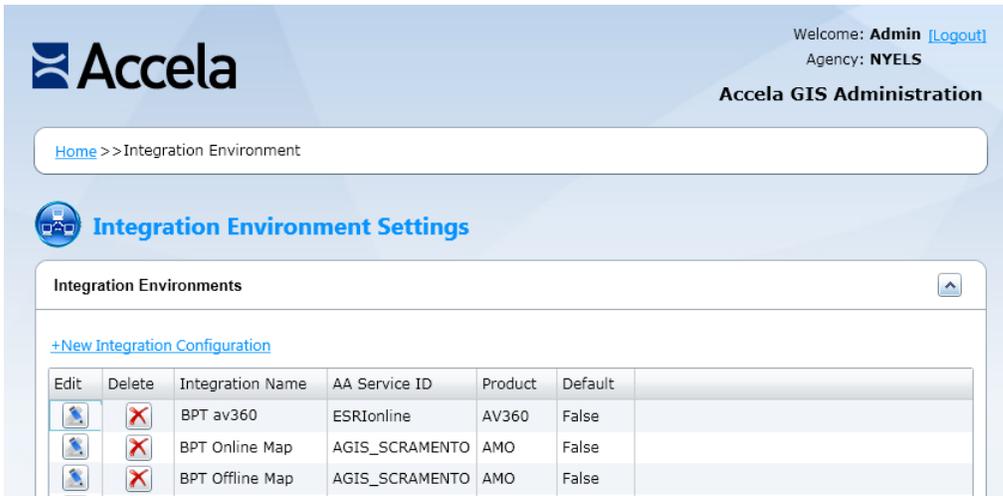
You can add a user group to an existing integration environment. For example, you might want to refine user group permissions by creating distinct user groups and limiting permissions based on user group access.

### To add a user group to an integration environment

1. If necessary, log in to the Accela Silverlight GIS Administration site.

2. Click the **Modify Configuration** link.

The Accela Silverlight GIS Administration site displays the Integration Environment Settings page.



The screenshot shows the Accela GIS Administration interface. At the top left is the Accela logo. At the top right, it says "Welcome: Admin [Logout]" and "Agency: NYELS". Below the logo is a breadcrumb trail: "Home >> Integration Environment". The main heading is "Integration Environment Settings". Below this is a section titled "Integration Environments" with a "+New Integration Configuration" link. A table lists the existing integration environments:

Edit	Delete	Integration Name	AA Service ID	Product	Default
		BPT av360	ESRIonline	AV360	False
		BPT Online Map	AGIS_SCRAMENTO	AMO	False
		BPT Offline Map	AGIS_SCRAMENTO	AMO	False

3. Click the pencil icon next to the map integration environment to which you want to add a user group.

The Accela Silverlight GIS Administration site displays the Edit Integration Environment page.

Home >> [Integration Environment](#) >> Edit Integration Environment - BPT av360

## Edit Integration Environment

### Define Environment

Integration Name: \*

AA GIS Service ID: \*

Product: \*

Application Server URL: \*

Accela Automation User Name: \*

Accela Automation Password: \*

Default:

### Map Services

[+New Map Service](#)

Edit	Delete	Service Name	Provider	Default	Order
		QA/Sacramento	ESRI ArcGIS Server	True	<input type="text" value="1"/>
		BingMap	Microsoft Bing Maps	False	<input type="text" value="2"/>

### User Groups

[+New User Group](#)

Edit	Delete	Group Name
		Default
		AAM

### Additional Settings

[+Modify Additional Settings](#)

4. Click the **New User Group** link.

The Accela Silverlight GIS Administration site displays the User Group Permissions page.

5. Configure a new user group. For instructions, see [Defining User Groups and Permissions](#).

## Configuring Agency Settings

---

This topic applies to Accela Silverlight GIS agency settings.

You can customize your agency's Accela Silverlight GIS settings on the Global Variable Settings page.

### Related Links

[Changing the Administration Site Password](#)

[Customizing Labels](#)

[Configuring Global Variable Settings](#)

[Syncing Address Format and Address Form Layout](#)

[Clearing Cache Data Manually](#)

## Changing the Administration Site Password

You can change the administration site password to maintain site security. Change the administrator password after you log in for the first time.

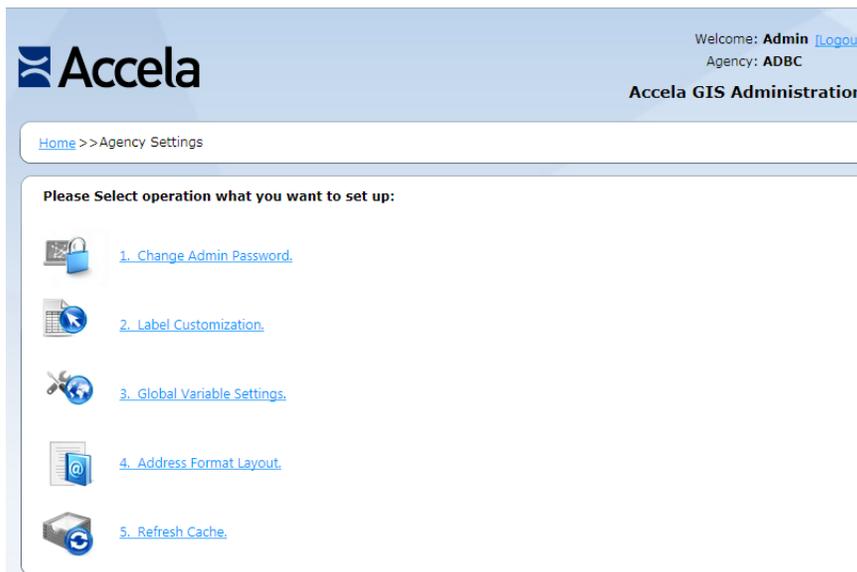
### To change the administration site password

1. If necessary, log in to the Accela Silverlight GIS Administration site.

The Accela Silverlight GIS Administration site displays the Administration home page.

2. Click the **Agency Settings** link.

The Accela Silverlight GIS Administration site displays the Agency Settings page.



3. Click the **Change Admin Password** link.

The Accela Silverlight GIS Administration site displays the Change Admin Password page.

Home >> Agency Settings >> Change Admin Password

**Change Admin Password**

Change Admin Password

Old Password: \*

New Password: \*

Confirm New Password: \*

Save Cancel

**4. Complete these fields:**

- |                      |  |
|----------------------|--|
| Old Password         | Enter the current Accela Silverlight GIS Administration site password. |
| New Password         | Enter the new Accela Silverlight GIS Administration site password.     |
| Confirm New Password | Re-enter the new Accela Silverlight GIS Administration site password.  |

**5. Click the **Save** button.**

The Accela Silverlight GIS Administration site saves the new administration site password.

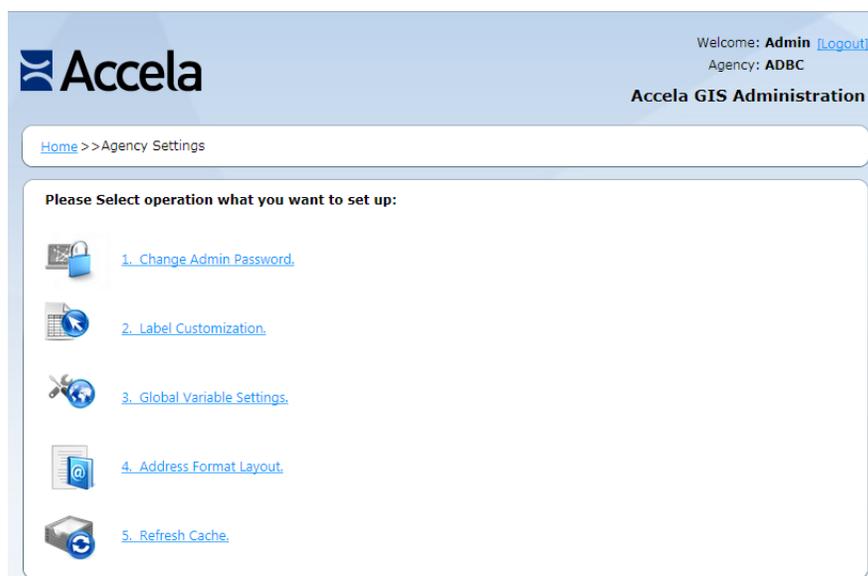
## Customizing Labels

This topic applies to Accela Silverlight GIS.

Based on the need for internationalization and localization, you can customize the display text for map commands and map labels.

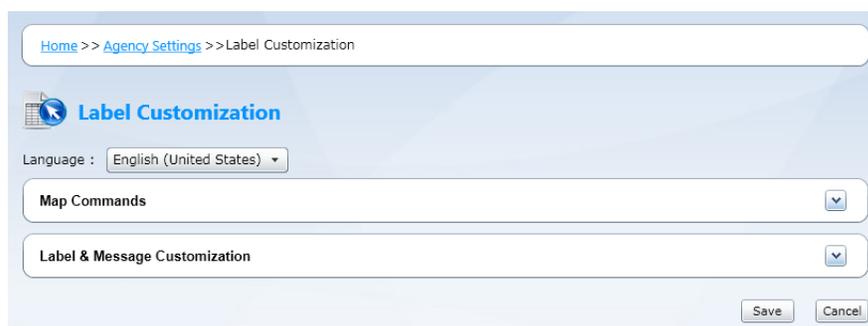
### To customize labels

1. If necessary, log in to the Accela Silverlight GIS Administration site.  
The Accela Silverlight GIS Administration site displays the Administration home page.
2. Click the **Agency Settings** link.  
The Accela Silverlight GIS Administration site displays the Agency Settings page.



3. Click the **Label Customization** link.

The Accela Silverlight GIS Administration site displays the Label Customization page.



4. Select the target language from the Language drop-down list. Accela Silverlight GIS supports English, Arabic, Australian English, and Traditional Chinese.

The Accela Silverlight GIS Administration site displays the labels for the selected language in the Display Text column.

5. Select the Accela Automation (also known as "Civic Platform") application from the Product drop-down list.

The Accela Silverlight GIS Administration site displays the map commands and their labels for the selected application.

6. Edit the display text for each map command and map label as necessary.

7. Click the **Save** button.

The Accela Silverlight GIS Administration site saves the display map command and label display text.

## Configuring Global Variable Settings

You can configure global variable settings, such as the feature edge distance and the initial extent minimum width. These settings determine the scale and perspective of features when Accela Silverlight

GIS users open the map viewer. Additionally, you can decide whether the map extent and the map layer visibility is retained as it was when a user had previously accessed the map.

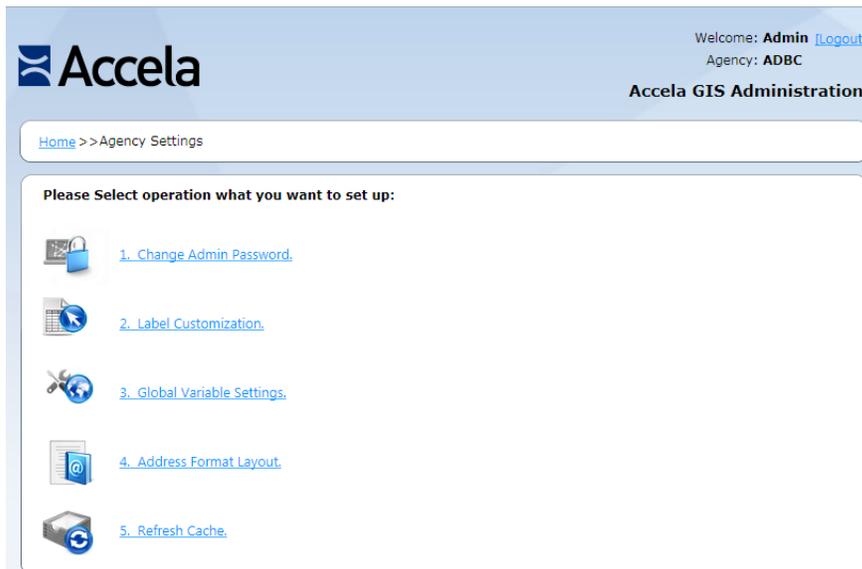
### To configure global variable settings

1. If necessary, log in to the Accela Silverlight GIS Administration site.

The Accela Silverlight GIS Administration site displays the Administration home page.

2. Click the **Agency Settings** link.

The Accela Silverlight GIS Administration site displays the Agency Settings page.



3. Click the **Global Variable Settings** link.

The Accela Silverlight GIS Administration site displays the Global Variable Settings page.

Accela

Welcome: **Admin** [Logout]  
Agency: **CFW**  
Accela GIS Administration

Home >> Agency Settings >> Global Variables Settings

Global Variables

Global Variable Settings

Maximum Feature Count of Selection: \* 50

Feature Edge Distance: \* 40 Feet  
Distance from the feature marker to the edge of the map.

Initial Extent Minimum Width: \* 400 Feet  
Map extent width when map is opened without any markers

Persist Map Status:  Persist the view extent and the layer visibility information.

Log Information Status:  Log Level: 7:All Logging

RIA Service Timeout Time: \* 5 minutes

Nearby Query:  Initial Buffer Distance: 300 Feet

Case-Insensitive XAPO Search:  Enable Case-Insensitive XAPO Searches When Using Case-Sensitive ArcSDE.

Use HTTP proxy server:

Address: 10.50.130.73  
(Example: http://10.50.70.58:808)

Bypass for local addresses:

Bypass for these addresses: 10.50.60.13;10.50.0.103  
(Example: 10.50.60.19;10.50.0.109)

Username: admin

Password: .....

Domain: Sacramento (Example: Sacramento)

Note: If you change current log level or RIA service timeout time, it will restart Application Pool.

Save Cancel

#### 4. Complete these fields:

Maximum Feature Count of Selection

This field is required. The value you enter in this field determines the number of features Accela Silverlight GIS users can select at any one time on the map viewer, and the number of search results per page which can display on the Search panel. Accela recommends that you enter a value between 50 and 200.



**Note:** A value greater than 200 affects the **MAX\_ATTACHMENT\_SELECTION\_NUMBER** standard choice setting, which sets the maximum number of attachments when a user attaches GIS objects to a record and chooses the **Select All** option. If the **Maximum Feature Count of Selection** is greater than 200, the **MAX\_ATTACHMENT\_SELECTION\_NUMBER** value must be equal or greater than the **Maximum Feature Count of Selection** value. Otherwise, all selected GIS objects will not be attached to a record.

Feature Edge Distance

The value you enter in this field determines the distance between a map marker and the map edge. Enter a numeric value and select a distance measurement from the drop-down list. Available map measurements include feet, meters, kilometers, yards, and miles.

Initial Extent Minimum Width

The value you enter in this field determines the minimum extent width that displays when users initialize the map. Enter a numeric value and select a distance

	<p>measurement from the drop-down list. Available map measurements include feet, meters, kilometers, yards, and miles.</p>
Persist Map Status	<p>If you mark this check box, users access the map with the same extent and the same layer visibility as that of their previous map session. If you clear this check box, users access the map with the initial extent and the default layer visibility you configured. This check box is unmarked by default.</p>
Log Information Status	<p>This read-only field indicates whether you have enabled or disabled the log function. When you select “0: No Logging” from the Log Level drop-down list, Accela Silverlight GIS clears this field automatically. When you select other options from the Log Level drop-down list, Accela Silverlight GIS marks this field automatically.</p>
Log Level	<p>Select an option from the drop-down list to set the log level. There are 8 options:</p> <ul style="list-style-type: none"> <li>0: No Logging</li> <li>1: Exception Log</li> <li>2: Information Log</li> <li>3: Exception and Information Log</li> <li>4: Debug Log</li> <li>5: Exception and Debug Log</li> <li>6: Information and Debug Log</li> <li>7: All Logging</li> </ul>
RIA Service Timeout Time	<p>Enter the maximum amount of time (in minutes) after which the RIA Service times out.</p>
Nearby Query	<p>The check box enables or disables the display of the Search Scope drop-down list, which contains the Within Map Extent, Within Selected Feature, and Near Selected Feature options, in record, inspection, and asset condition assessment searches. Accela Silverlight GIS clears this check box by default.</p> <p>The Initial Buffer Distance field specifies the default search radius value and the default unit of measurement that appears in the Search panel when users select the Near Selected Feature option. It is 500 Feet by default. You can change the default value and the default unit for the search radius through the Accela Silverlight GIS Administration site. Users can also change the value and unit of measurement in the Search panel, if necessary.</p> <p>To enable users to search for records, inspections, and asset condition assessments within the map extent, within one or more selected GIS features, or near one or more selected GIS features, you need to do the following:</p> <ol style="list-style-type: none"> <li>1- Run EnableNearbyQuery_&lt;version number&gt;.exe. Accela Customer Support has access to the installer.</li> <li>2- Mark this Nearby Query check box.</li> <li>3- Define BATCH_JOB_SERVICE_CATEGORY for geotagging batch jobs in Civic Platform. For more information, see “Configuring Nearby Query” in the Search chapter of the <i>Civic Platform Configuration Reference</i>.</li> <li>4- Create and run a batch job in Civic Platform to geotag all existing addresses and GIS features in the Civic Platform database. For more information, see “Creating a Geotagging Batch Job” in the Batch Engine chapter of the <i>Civic Platform Administrator Guide</i>.</li> </ol> <p>To disable users to perform nearby searches, you need to do the following:</p> <ol style="list-style-type: none"> <li>1- Clear this Nearby Query check box.</li> <li>2- Create Standard Choice DISABLE_GIS_NEARBY_QUERY with its value set to Y or Yes in Civic Platform.</li> </ol>
Case-Insensitive XAPO Search	<p>When your agency uses Accela Silverlight GIS as the external address, parcel, and owner (XAPO) data source and the XAPO data is stored in a case-sensitive Oracle SDE (Spatial Database Engine) database, select this check box to enable users to perform XAPO searches regardless of the letter case. Clear this check box to require exact case matches. Accela Silverlight GIS clears this check box by default.</p> <p>For example, there is an address with the street name “POLK” in the XAPO data source. If you select this check box, users can find the address by street name “polk”,</p>

“Polk”, or “POLK”. If you clear this check box, users can find the address by “POLK” only.

#### Use HTTP Proxy Server

Mark this check box when your agency policy enforces the use of a proxy server for the Accela Silverlight GIS server to access the Internet. Then complete these fields:

**Address** - Enter the IP address and port number of your proxy server. Use this format: http://<IP address>:<port number>.

**Bypass for local addresses** - Mark this check box if you want to access some IP addresses directly instead of through the proxy server.

**Bypass for these addresses** - Enter the IP address that you want to access directly instead of through the proxy server. Use this format: Address 1;Address 2;Address 3

**Username** - Enter the user name used to access the proxy server.

**Password** - Enter the password used to access the proxy server. The password displays as encrypted in the web.config file of the Accela Silverlight GIS server.

**Domain** - Enter your domain.

#### Bing Maps License Key

The agency's Bing Maps license key.



**Note:** As of June 30, 2016 Accela has deprecated the complimentary use of Bing Maps with Accela Silverlight GIS. Continued use of Bing Maps as a map service provider requires your agency to obtain a Bing Maps license key from Microsoft, and enter it in the **Bing Maps License Key** masked field on the **Global Variable Settings** page. (Alternatively, Accela has made available a complimentary ArcGIS Online Account for geocoding and routing services.)

#### 5. Click the **Save** button.

The Accela Silverlight GIS Administration site saves the display map command and label display text.

## Syncing Address Format and Address Form Layout

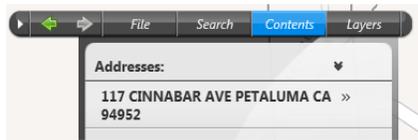
Based on your agency's specific address requirements, your agency may define the address format and customize the layout of the Reference Address Form in Civic Platform. You can synchronize these settings from Civic Platform to the Accela Silverlight GIS map viewer.

The layout of the Reference Address Form, including the availability, label, and display order of address fields, applies to the Accela Silverlight GIS Search panel for addresses. If your agency enables internationalization and localization in Civic Platform, the Reference Address Form supports multiple languages. Thus the Accela Silverlight GIS Administration site allows you to select the preferred language for the address form in the Accela Silverlight GIS Search panel.

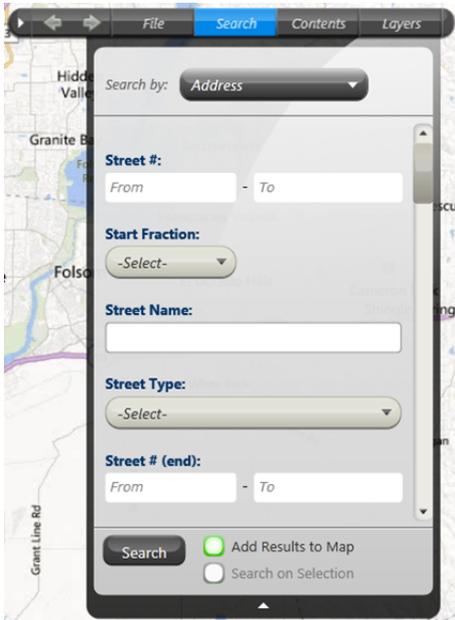
The address format, which defines how to concatenate address fields, applies to everywhere the full address appears in the Accela Silverlight GIS map viewer. For example, the Contents panel and the map tip displays the concatenated address fields for full addresses. See [Figure 2: Address in the Map Tip](#) and [Figure 3: Address in the Contents Panel](#) as illustrative examples. On the search panel, if a user chooses Address from the Search by drop-down list, the user can specify the street number range (in the From and To fields) to search for desired addresses. See [Figure 4: Customized Address Search Panel](#) as an illustrative example.



**Figure 2: Address in the Map Tip**



**Figure 3: Address in the Contents Panel**



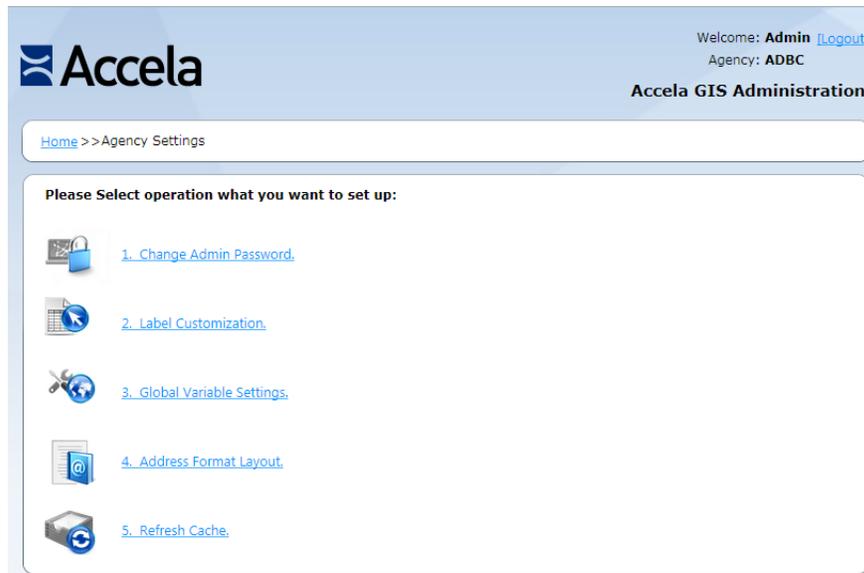
**Figure 4: Customized Address Search Panel**

If you do not synchronize these settings from Civic Platform to Accela Silverlight GIS, then the Accela Silverlight GIS map viewer uses the default address format and the default address form layout.

- **Default address format.** The full address comprises these fields in listed order: Street Number, Fraction, Direction, Street Name, Street Type, Unit Type, Unit, City, State, Country, and Zip Code.
- **Default address form layout.** The Search panel for addresses displays the Street Number, Street Prefix, Street Name, Street Type, Street Unit, and City fields in listed order.

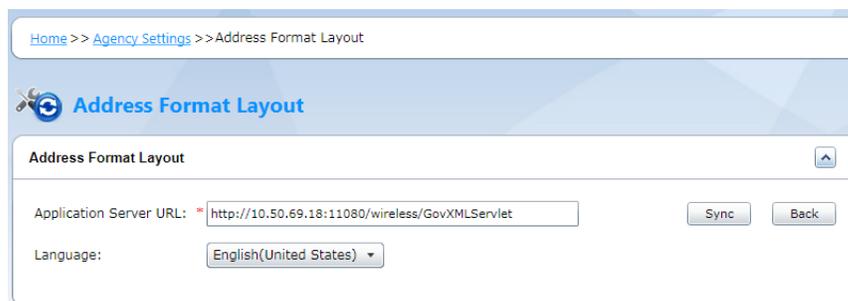
#### **To sync address format and address form layout**

1. If necessary, log in to the Accela Silverlight GIS Administration site.  
The Accela Silverlight GIS Administration site displays the Administration home page.
2. Click the **Agency Settings** link.  
The Accela Silverlight GIS Administration site displays the Agency Settings page.



3. Click the **Address Format Layout** link.

The Accela Silverlight GIS Administration site displays the Address Format Layout page.



4. Complete these fields:

Application Server URL	Enter the URL of the application server for Civic Platform where your agency defines the address format and address form layout.
Language	Select the preferred language for the address form on the Search panel in the Accela Silverlight GIS map viewer. For example, select "English (United States)" if you want the address form to display labels, options, and other user interface elements in American English.

5. Click the **Sync** button.

The Accela Silverlight GIS Administration site retrieves the address form layout and address format from Civic Platform.

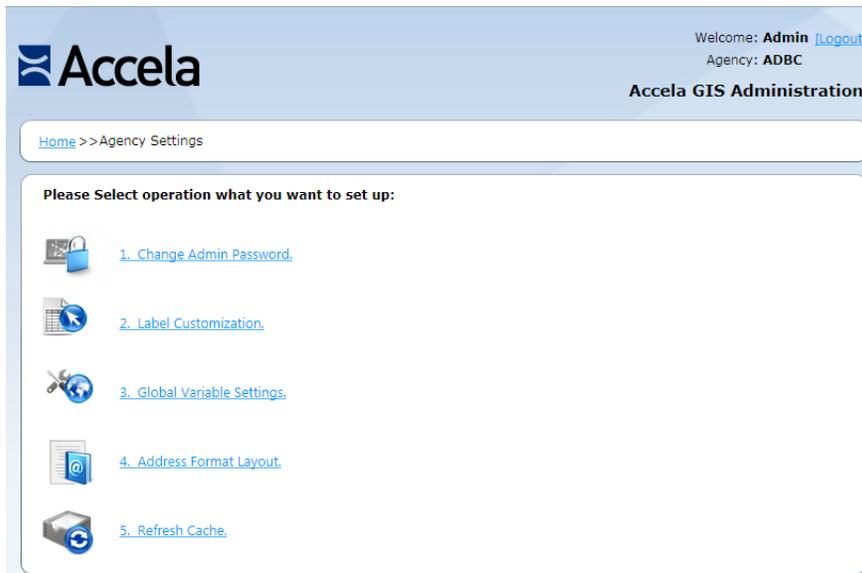
## Clearing Cache Data Manually

The Accela Silverlight GIS cache temporarily stores the data that administrators have defined in Accela Civic Platform. For example, record types, asset types, and parcel masks. You can clear cache data manually or let Accela Silverlight GIS automatically clear cache data every hour. After cache data is cleared, Accela Silverlight GIS can retrieve the most current data from Civic Platform.

Accela recommends that you manually clear the Accela Silverlight GIS cache after you change the cache item data in Civic Platform (see [Table 16: Cache Items](#)). So Accela Silverlight GIS does not display obsolete data or ignore new data. For example, if you add some new record types in Civic Platform but the Accela Silverlight GIS cache is not cleared yet, the Record Type field in the Accela Silverlight GIS Search panel does not show the new record types.

### To clear cache data manually

1. Log in to the Accela Silverlight GIS Administration site.  
The Accela Silverlight GIS Administration site displays the Administration home page.
2. Click the **Agency Settings** link.  
The Accela Silverlight GIS Administration site displays the Agency Settings page.



3. Click the **Refresh Cache** link.

The Accela Silverlight GIS Administration site displays the Refresh Cache page.



4. Click the **Refresh** button.

The Accela Silverlight GIS Administration site clears all cache items.

Table 16: Cache Items

Cache Item	Description
Record Type	When you add or delete record types in Civic Platform, clear the cache to show the most current options in the following windows: Accela Silverlight GIS > Search panel > Search by Records > Type > Select Record Type Accela Silverlight GIS > Search panel > Search by Inspections > Record Type > Select Record Type
Asset Type	When you add or delete asset types in Civic Platform, clear the cache to show the most current options in the following windows:

Cache Item	Description
	<p>Accela Silverlight GIS &gt; Search panel &gt; Search by Assets &gt; Type &gt; Select Asset Type</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Condition Assessments &gt; Asset Type &gt; Select Asset Type</p>
Asset Status	<p>When you add or delete asset statuses in Civic Platform, clear the cache to show the most current options in the following drop-down list:</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Assets &gt; Status</p>
Street Direction	<p>When you add or delete street directions in Civic Platform, clear the cache to show the most current options in the following drop-down list:</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Address &gt; Direction</p>
Street Suffix	<p>When you add or delete street suffixes in Civic Platform, clear the cache to show the most current options in the following drop-down list:</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Address &gt; Street Suffix (Direction)</p>
Parcel Mask	<p>When you modify the parcel number mask in the Standard Choice MASKS through Civic Platform, clear the cache to apply the most current mask to parcel numbers in Accela Silverlight GIS.</p>
Inspection Type	<p>When you add or delete inspection types in Civic Platform, clear the cache to show the most current options in the following window:</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Inspections &gt; Inspection Type &gt; Select Inspection Type</p>
Record Status	<p>When you add or delete record statuses in Civic Platform, clear the cache to show the most current options in the following drop-down list:</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Records &gt; Record Status</p>
Department	<p>When you add or delete departments in Civic Platform, clear the cache to show the most current options in the following windows:</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Inspections &gt; Inspector &gt; Select Inspector</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Records &gt; Staff &gt; Select Staff</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Condition Assessments &gt; Staff &gt; Select Staff</p>
Condition Assessment Status	<p>When you add or delete condition assessment statuses in Civic Platform, clear the cache to show the most current options in the following drop-down list:</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Condition Assessments &gt; Status</p>
Condition Assessment Type	<p>When you add or delete condition assessment types in Civic Platform, clear the cache to show the most current options in the following drop-down list:</p> <p>Accela Silverlight GIS &gt; Search panel &gt; Search by Condition Assessments &gt; Type</p>
ACA Display Owner	<p>When you change the value description for the DISPLAY_OWNER_INFORMATION value in the Standard Choice ACA_CONFIGS through Civic Platform, clear the cache to make your changes immediately take effect in Accela Silverlight GIS.</p>

## Using Maintenance Tools

---

The Accela Silverlight GIS Administration site provides diagnostics tools for you to verify that all the Accela Silverlight GIS configuration is proper and that Accela Silverlight GIS can work with the ArcGIS Server properly. The diagnostic tests can inform you about problems and might identify possible causes and suggest solutions.

The Accela Silverlight GIS Administration site also provides a log viewer for you to view the log files and their physical locations. The log files records all types of events, including GovXML requests and responses, and exceptions, errors, and any other activities that occurred in Accela Silverlight GIS and ArcGIS Server, which assists you in monitoring Accela Silverlight GIS and troubleshooting.

### Related Links

[Running General Diagnostics](#)

[Diagnosing ArcGIS Server Map Services](#)

[Viewing Log Files](#)

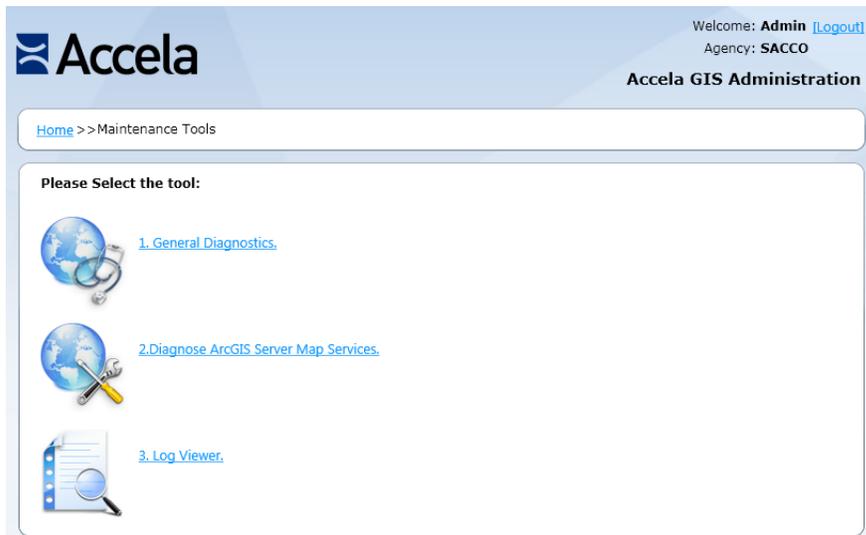
## Running General Diagnostics

The General Diagnostics tool provides you with a series of diagnostic tests on the Accela Silverlight GIS server configuration and its communication with the Civic Platform application server and the ArcGIS Server. The diagnostic tests include:

- Check for all common issues.
- Check if the Accela Silverlight GIS server can connect to the ArcGIS Server.
- Check if the Accela Silverlight GIS server can retrieve all the defined map services from the ArcGIS Server.
- Check if the geometry service is running properly.
- Check if the Accela Silverlight GIS server can connect to the Civic Platform application server.
- Check if the Accela Silverlight GIS server can send GovXML requests and receive responses.

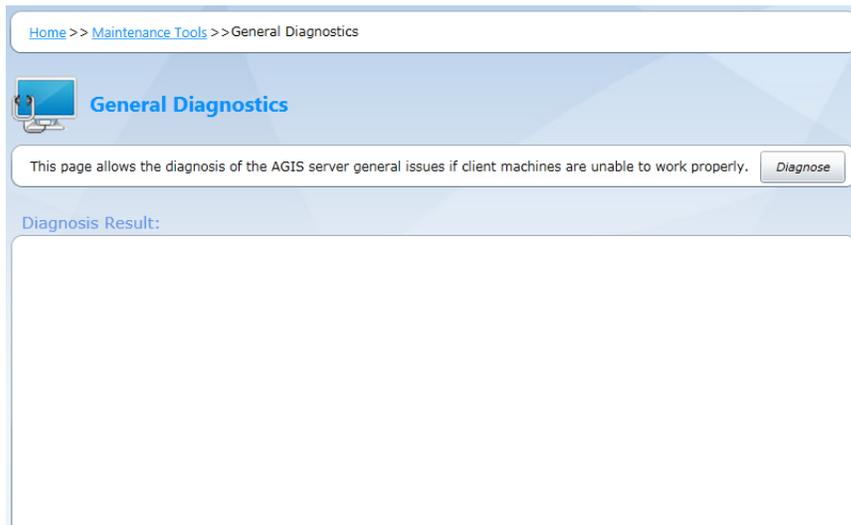
### To run general diagnostics

1. If necessary, log in to the Accela Silverlight GIS Administration site.  
The Accela Silverlight GIS Administration site displays the Administration home page.
2. Click the **Maintenance Tools** link.  
The Accela Silverlight GIS Administration site displays the Maintenance Tools page.



3. Click the **General Diagnostics** link.

The Accela Silverlight GIS Administration site displays the General Diagnostics page.



4. Click the **Diagnose** button.

The Accela Silverlight GIS Administration site runs diagnostic tests and then displays the results in the Diagnosis Result field.

## Diagnosing ArcGIS Server Map Services

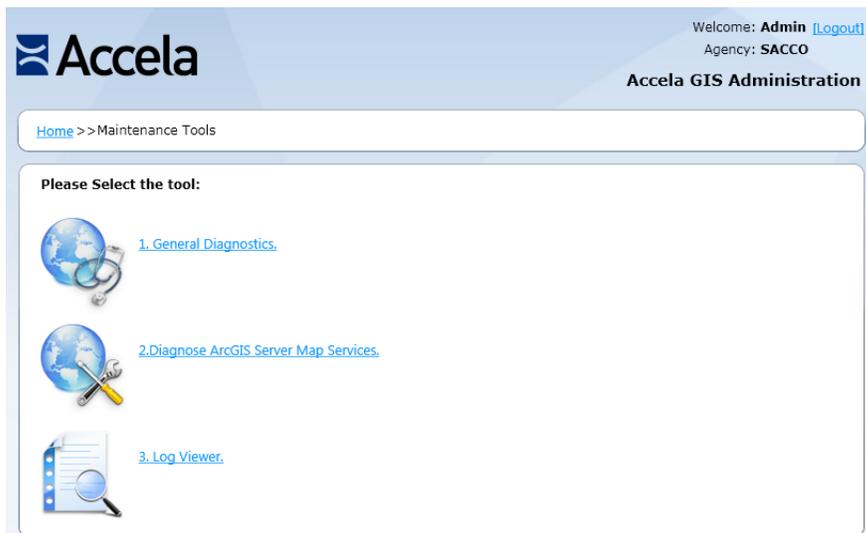
The Diagnose ArcGIS Server Map Services tool provides you with a series of diagnostic tests on the ArcGIS Server services. You can run diagnostics for each service individually. The diagnostic tests include:

- Check if the Accela Silverlight GIS server can connect to the ArcGIS Server.
- Check if the map service information on the ArcGIS Server is different than what is cached in the Accela Silverlight GIS server.

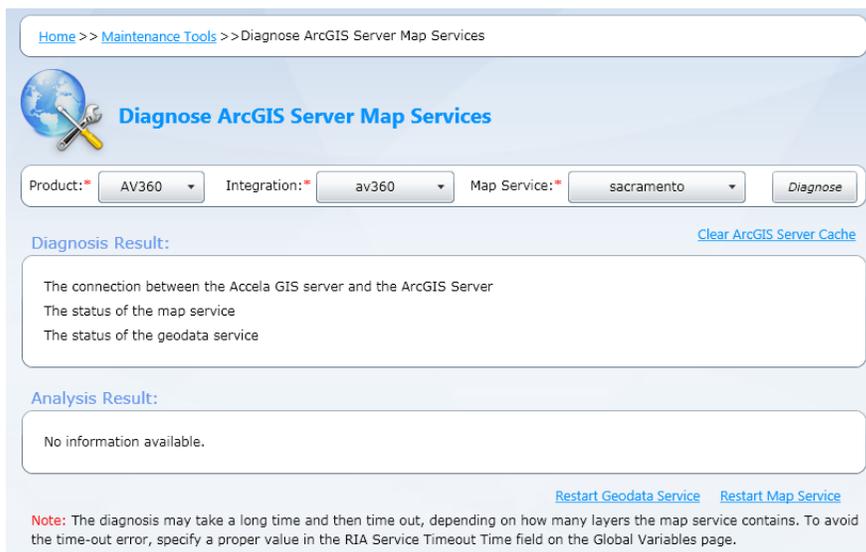
- Check if the geodata service information on the ArcGIS Server is different than what is cached in the Accela Silverlight GIS server.

### To run diagnostics on ArcGIS Server services

1. If necessary, log in to the Accela Silverlight GIS Administration site.  
The Accela Silverlight GIS Administration site displays the Administration home page.
2. Click the **Maintenance Tools** link.  
The Accela Silverlight GIS Administration site displays the Maintenance Tools page.



3. Click the **Diagnose ArcGIS Server Map Services** link.  
The Accela Silverlight GIS Administration site displays the Diagnose ArcGIS Server Map Services page.



4. Complete one of these fields:

Product

Use the drop-down list to select the Civic Platform application. You can select Accela Automation Vantage360, Citizen Access, or Mobile Office. After you select a product, the Integration drop-down list populates with all the related map integrations.

Integration	Use the drop-down list to select the map integration. This drop-down list displays all the map integrations configured for the product you select in the Product drop-down list. After you select a map integration, the Map Service drop-down list populates with all the related map services.
Map Service	Use the drop-down list to select the map service for which you want to run diagnostic tests. This drop-down list displays all the map services that you have defined in the map integration.

5. Click the **Diagnose** button.

The Accela Silverlight GIS Administration site runs diagnostic tests for the map service, displays the results in the Diagnosis Result field, and provides possible causes and applicable solutions in the Analysis Result field.

6. Do any of the following:

- If Accela Silverlight GIS does not work properly but the diagnostic tool does not find any problem, clear the ArcGIS Server cache and run the tests again.

You can click the **Clear ArcGIS Server Cache** link to open the ArcGIS Server Constructed API Admin Login page and clear the cache. For more information, see <http://resources.arcgis.com/en/help/rest/apiref/admin.html>.

- If the diagnostic tool finds any problem about the geodata service, do the following to restart the geodata service:

1. Click the **Restart Geodata Service** link.

The Accela Silverlight GIS Administration site displays the ArcGIS Server Administrator Login window.

2. Enter the user name and password and click the **OK** button.

If ArcGIS Server hosts the geodata service, enter the same ArcGIS Server user name and password you use when logging into ArcGIS Server Manager.

- If the diagnostic tool finds any problem about the map service, do the following to restart the map service:

1. Click the **Restart Map Service** link.

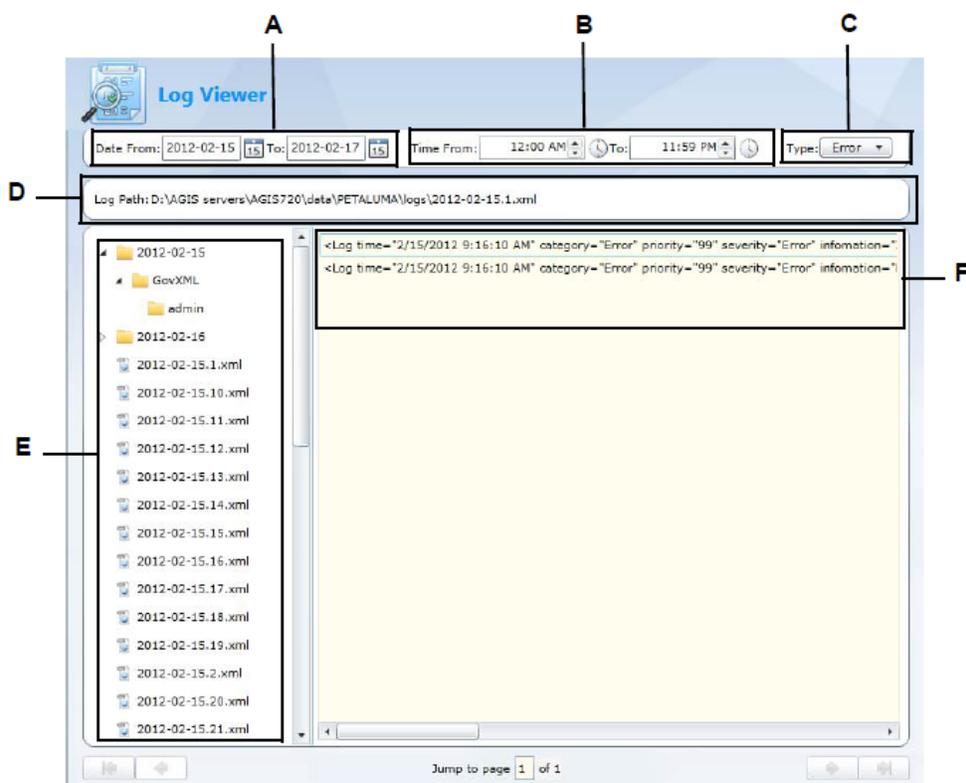
The Accela Silverlight GIS Administration site displays the ArcGIS Server Administrator Login window.

2. Enter the user name and password and click the **OK** button.  
If ArcGIS Server hosts the map service, enter the same ArcGIS Server user name and password you use when logging into ArcGIS Server Manager.

## Viewing Log Files

The Log Viewer in the Accela Silverlight GIS Administration site shows you where the log files are located or allows you to view the logs directly. For more information about the Log Viewer, see [Figure 5: Accela Silverlight GIS Log Viewer](#).

If there is no log available, check whether you have enabled the log function or have set the log levels properly. For more information about the log function and the log levels, see [Configuring Agency Settings](#).



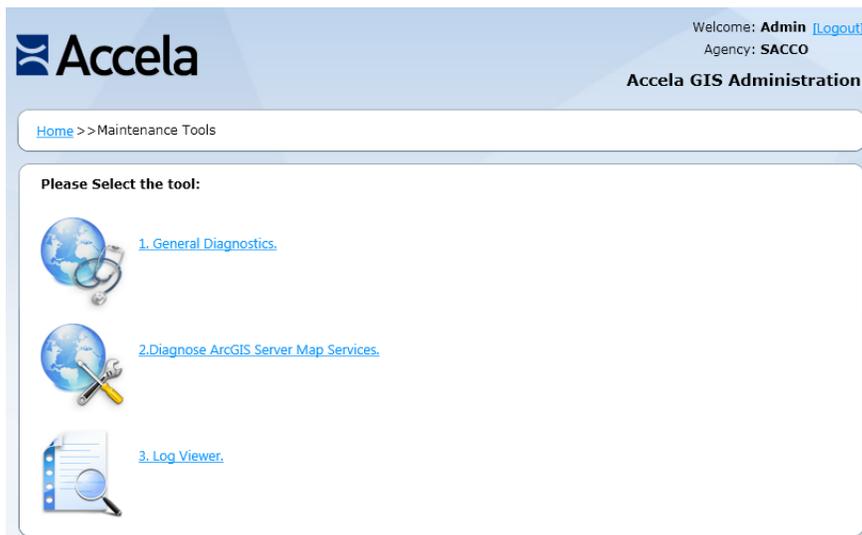
**Figure 5: Accela Silverlight GIS Log Viewer**

- A Filter by log date. Click the calendar icon next to the Date From and To fields and specify the date range when the GovXML log folders and the Accela Silverlight GIS log files are generated. The navigation pane (the left pane) displays the GovXML log folders and the Accela Silverlight GIS log files that are generated within the date range
- B Filter by log time. Click the clock icon next to the Time From and To fields and specify the time range when the GovXML log files and the Accela Silverlight GIS log entries are created. The log pane (the right pane) displays the GovXML log files or the Accela Silverlight GIS log entries that are created during the time range.
- C Filter by log type. Select the type of the Accela Silverlight GIS log entry that you want to view from the drop-down list. You can choose Info, Debug, and Error. The log pane displays the log entries of the specified type. Note that you cannot filter the GovXML log files by log type.
- D Log Path bar. The Log Path bar displays the physical location of the log that you choose to view.

- E Navigation pane. The navigation pane displays the GovXML log folders and the Accela Silverlight GIS log files that you filter by log date and log time. Expand a log folder to view all the GovXML log files in the log pane. Or select an Accela Silverlight GIS log file to view all the log entries in the log pane.
  - F Log pane. The log pane displays the GovXML log files and the Accela Silverlight GIS log entries that you choose to view. Double-click a GovXML log file to view the details of the GovXML request or response in the View Details pop-up window. Or double-click an Accela Silverlight GIS log entry to view the log details in the View Details pop-up window.
- 

### To access the Log Viewer

1. If necessary, log in to the Accela Silverlight GIS Administration site.  
The Accela Silverlight GIS Administration site displays the Administration home page.
2. Click the **Maintenance Tools** link.  
The Accela Silverlight GIS Administration site displays the Maintenance Tools page.



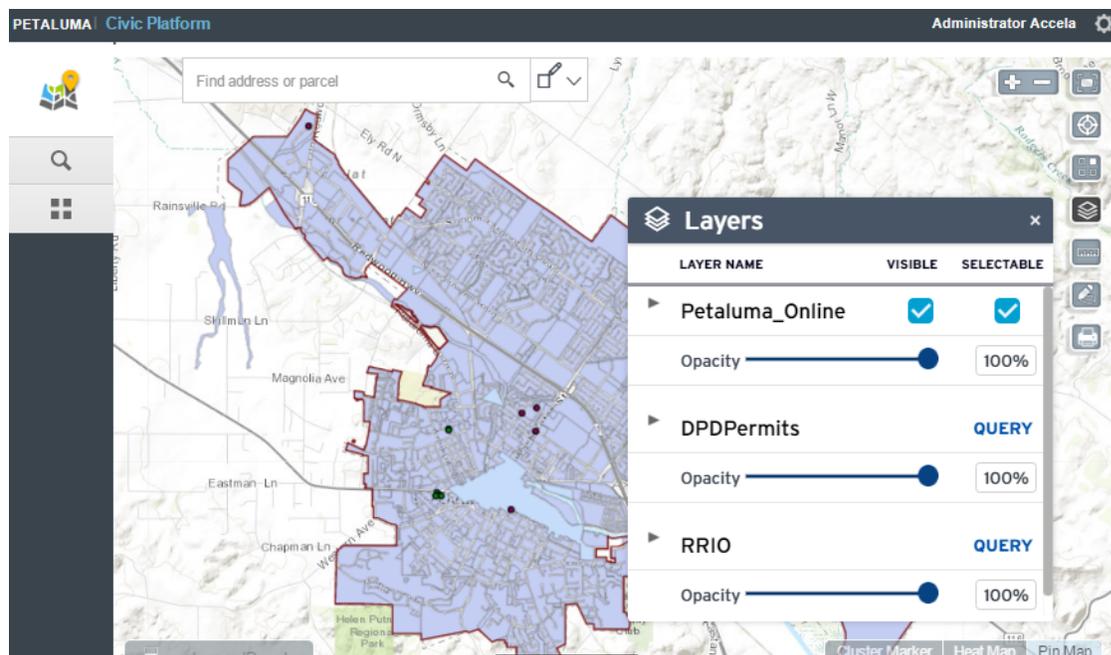
3. Click the **Log Viewer** link.  
The Accela Silverlight GIS Administration site displays the Log Viewer page.

## Configuring Accela GIS

Accela GIS (JavaScript version) configuration tasks and tools are described in the following topics:

- [Accela GIS Prerequisites and Configuration Summary](#)
- [The Accela GIS Admin Site](#)
- [Accela GIS Integrations](#)
- [Accela GIS System Administration](#)
- [Accela GIS Agency Administration](#)

Accela GIS administrators enable agency users to use the Accela GIS map viewer:



## Accela GIS Prerequisites and Configuration Summary

The following table summarizes the prerequisites and required configurations for Accela GIS (JavaScript version). Note that *Accela GIS* refers to the JavaScript version, while the Silverlight version is referred to as *Accela Silverlight GIS*.

**Important:** To help you towards a successful Accela GIS installation and configuration, follow all the steps listed in the prerequisite checklist. A missed prerequisite or configuration will require you to fully uninstall and reinstall Accela GIS.

Prerequisite	Required or optional?	Reference information
Install <i>Accela GIS</i> .	Required	<a href="#">Accela GIS Installation Guide</a>
Configure security settings.	Required	<a href="#">HTTPS Configuration</a> <a href="#">Securing Communications</a>
Configure ArcGIS Server and ArcGIS Engine Prerequisites.	Required	<a href="#">ArcGIS Server Prerequisites</a>
Configure initial system administration setup.	Required	<a href="#">Initial Setup for Accela GIS System Administration</a>
Configure <i>Accela GIS</i> integration with Civic Platform.	Required	<a href="#">Civic Platform and Accela GIS Integration</a>
<i>Accela GIS</i> integration with Citizen Access	Required if agency is using Citizen Access	<a href="#">Citizen Access and Accela GIS Integration</a>
Configure Geocoding Map Service Prerequisites.	Required if agency is using Geocoding map services.	<a href="#">Geocoding Service Configuration</a>
Configure Feature Service Configuration.	Required if agency provides GIS features and layer editing capability to your users	<a href="#">Feature Service Configuration</a>
Configure APO and XAPO Features in Civic Platform.	Required if agency intends to leverage APO and XAPO integration features with Civic Platform. For example, auto-populating and synchronizing APO data with records.	<a href="#">Accela Civic Platform Configuration Guide</a> > Configuring and Enabling APO and XAPO Features

### ArcGIS Server Prerequisites

Accela GIS supports GIS services published to ArcGIS Server. To integrate with Accela GIS, you must purchase a license for one of the aforementioned ArcGIS Server versions.

See the configuration prerequisites for ArcMap, ArcCatalog, ArcSDE, MXD, and ArcGIS Server in *Accela GIS for ArcGIS Server Configuration Guide*.

Additionally, you must publish a map service in ArcGIS Server. ArcGIS Server hosts the map service for Civic Platform 8.x and later.

### Initial Setup for Accela GIS System Administration

After installing the Accela GIS server component, the system administrator must perform initial agency setup on the the Accela GIS Administration site ("GIS Admin").

The Accela GIS system administrator is the first user of the GIS Admin site. The system administrator account and password are defined during the installation of the Accela GIS server component. After the Accela GIS installation, the system administrator must login to GIS Admin to perform the following initial setup:

1. Change the system administration account password on the login page.

2. Add the first agency on the Agency section of GIS Admin.

After adding the agency, the system administrator can either continue with configuring the agency's initial map profile and product integration, or assign this responsibility to the agency administrator (to be created in the following step).

3. Add the first agency administrator on the User section of GIS Admin. An agency administrator can manage Accela GIS configurations only for his or her assigned agency.



**Note:**

This step is optional. An agency administrator can register himself or herself on the GIS Admin login page.

Related topics:

- [Managing Agencies](#) - for information about how to add the first agency
- [Managing Agency Administrators](#) - for information about how to add the first agency administrator

## HTTPS Configuration

Civic Platform requires HTTPS connections with the Accela GIS (JavaScript) component. When configuring a GIS service in Civic Platform, the service URLs for the JavaScript version must specify https. If your agency uses Accela Silverlight GIS to support EMSE scripts, XAPO data sources, and proximity alerts with Civic Platform 8.x, the Service URL for Accela Silverlight GIS must also use https.

The following diagram shows sample URL's using https on the Edit GIS Service configuration page:

sample https URL for Accela GIS Silverlight version

**GIS Service - Edit**  
Use this form to edit a GIS Service.

**Service ID \*** : PETALUMA

**Service URL \*** :

**Portlet URL:**

**JavaScript API URL:**

**Default Map Service \*** :  Yes  No

**Status \*** :  Enable  Disable

sample https URL for Maps JavaScript version

For information about configuring the use of HTTPS, see [Requiring the Use of HTTPS](#).

## Geocoding Service Configuration

If your agency plans to use geocoding in your map integration environment, you must configure geocoding map services.

Geocoding is the ability to find a location, such as a street address, based on existing geographic data. For example, you might want to use to identify a specific street address and plot the address on the map. can identify and plot the address using existing GIS data, such as the street name and the range of even-numbered and odd-numbered addresses.

If you plan to use geodata for offline data mapping, then you must add the data to the geodatabase prior to configuring.

## Feature Service Configuration

If your agency needs to provide GIS feature and layer editing capability to your users, you must set up ESRI's feature service on the ArcGIS Server. For details about how to configure a feature service and publish it to ArcGIS Server, see [ArcGIS Server](#) documentation > Feature Services.

## Configuring Accela GIS Integrations

---

Accela GIS (JavaScript version) can be integrated with the following Accela applications:

- **Civic Platform** - Accela GIS integrates with the latest user interface of Civic Platform. See [Civic Platform and Accela GIS Integration](#) .
- **Citizen Access** - Accela GIS integrates with Citizen Access. Starting in version 8.0.1, Citizen Access displays the JavaScript version of the map viewer on the module's home and record detail pages. The Accela Silverlight GIS is used on other pages while the JavaScript version is integrated with Citizen Access in a phased approach. See [Citizen Access and Accela GIS Integration](#) .

### Civic Platform and Accela GIS Integration

To integrate Accela GIS (JavaScript version) with Civic Platform:

1. Login Accela GIS Admin Site ("GIS Admin").
2. If you do not yet have a map profile with a map service connection definition:
  1. From the agency's home page, select **Map Profiles** on the left navigation pane.
  2. Click **Add New Map Profile**.
  3. On the **Map Profile** page, add a map service to define your agency's GIS service connections.
 

 **Note:** You will assign the map profile to a user group in a later step in this procedure.
3. Add a Civic Platform integration:
  1. From the agency's home page, select **Integrations** on the left navigation pane.
  2. Click **Add New Integration**.
  3. On the **Environment** page:
    - a. Select "Accela Automation" on the **Product** dropdown list.
    - b. Enter the Civic Platform connection settings as described in [Environment Integration Settings in GIS Admin](#) below.
    - c. Click **Save**.
  4. On the **User Groups** page, either add a new user group or edit the Default user group. On the new or Default user group page:
    - a. Enable the **Map Commands** and **Map Widgets** that should be available to the user group.
    - b. Under **Map Settings**, select the map profile you created at the start of this procedure. After you select a map profile, the map layers from the map profile services will be displayed.
    - c. Set the Availability, Visibility, and Edit user permissions for the appropriate map layers.
    - d. Click **Save**.

4. Login Civic Platform Classic Administration ("AA Admin").
5. Select **Admin Tools > GIS > GIS Service**.
6. Add a new service or search for an existing service.
7. Enter the GIS service settings as described in [GIS Service configuration fields in Civic Platform Classic Admin](#) below.

## Environment Integration Settings

Integration Name	The descriptive name of the product integration environment. For example, Bridgeview .
AA GIS Service ID	The service ID. For Civic Platform integration, this should match the GIS Service ID defined in Civic Platform Classic Administration. For Citizen Access integration, this should match the GIS Service ID specified on the Citizen Access Administration site.
Product	The product to integrate with Accela GIS.  <b>Note:</b> For Civic Platform (8.x), choose "Accela Automation". For Citizen Access (8.0.1 and later), choose "Citizen Portal".
Application Server URL	The business application serverURL. For example, <code>http://&lt;host&gt;:3080</code> where <host> represents your agency's business application server name.
Automation User Name	A valid Civic Platform user name. uses the username to connect to the Application Server.
Automation Password	The password for the Civic Platform user name.
Default	If checked, this integration displays by default
Test Connection	Click the <b>Test Connection</b> link to test the server connection using the server URL and account information you provided. If Accela GIS successfully connected to the specified server URL using the account information, a confirmation message is displayed. Otherwise, consult with the Accela product administrator to ensure the connection parameters are correct.

## GIS Service configuration fields in Civic Platform Classic Administration

Service ID	The map service identifier. Enter the same value exactly as you entered in the AA GIS Service ID field when defining a map integration environment for Civic Platform. See <a href="#">Integrating Your Environment</a> for more information.
------------	---

Service URL	<p>The URL that connects to the Accela GIS server (Silverlight version) that hosts the desired GIS service. Specify the web site URL entered during the Accela GIS server installation. For example:</p> <pre>http://myagency.host.com/agissl</pre> <p> <b>Note:</b> Your URL should begin with “http://” so you can successfully retrieve GIS attributes from the map service. If you publish the map service to Esri ArcGIS Server and the URL begins with “https://”, you must import the Accela GIS server certificate into the Civic Platform biz server before using the map service in Civic Platform. See <a href="#">Importing the Accela GIS Server Certificate</a> for more information.</p>
Portlet URL	Leave this field blank.
JavaScript API URL	<p>The URL that connects to the Accela GIS (JavaScript version) server. Specify web site URL entered during the Civic Platform Maps installation, and append /api to the URL. For example:</p> <pre>https://myagency.host.com/agisjs/api</pre> <p> <b>Note:</b> The URL for the Accela GIS (JavaScript version) server must use “https://”. To support https connections, you must install the SSL certificate into the Maps server. See <a href="#">Requiring the Use of HTTPS</a> and <a href="#">Importing the Accela GIS Server Certificate</a> for more information.</p>
Default Map Service	Select Yes if you want this map service to be the default map service in Accela GIS. The default map service displays at the top of the GIS service drop-down list for GIS users.

#### Related topics:

- [Configuring Map Services](#) - For details about map service provider configurations
- [Product Integrations > Integration Environment](#)- For details about defining environment integration settings on GIS Admin
- [Product Integrations > User Groups](#) - For details about defining user group settings on GIS Admin

## Citizen Access and Accela GIS Integration

To integrate Accela GIS (JavaScript version) with Citizen Access:

1. Login Accela GIS Admin Site ("GIS Admin").
2. If you do not yet have a map profile with a map service connection definition:
  1. From the agency's home page, select **Map Profiles** on the left navigation pane.
  2. Click **Add New Map Profile**.
  3. On the **Map Profile** page, add a map service to define your agency's GIS service connections.

 **Note:** You will assign the map profile to a user group in a later step in this procedure.

3. Add a Citizen Access integration:
  1. From the agency's home page, select **Integrations** on the left navigation pane.
  2. Click **Add New Integration**.
  3. On the **Environment** page:
    - a. Select "Citizen Portal" on the **Product** dropdown list.
    - b. Enter the Citizen Access connection settings as described in [Environment Integration Settings on GIS Admin Site](#) below.
    - c. Click **Save**.
  4. On the **User Groups** page, either add a new user group or edit the Default user group. On the new or Default user group page:
    - a. Enable the **Map Commands** and **Map Widgets** that should be available to the user group.
    - b. Under **Map Settings**, select the map profile you created at the start of this procedure. After you select a map profile, the map layers from the map profile services will be displayed.
    - c. Set the Availability, Visibility, and Edit user permissions for the appropriate map layers.
    - d. Click **Save**.
4. Login Citizen Access Administration ("ACA Admin"), and navigate to **Global Settings**.
5. Mark the **Activate GIS Map Control** checkbox.
6. Under **GIS Settings**, enter the GIS settings as described in [GIS Settings in Citizen Access Admin](#) below.

## Environment Integration Settings

Integration Name	The descriptive name of the product integration environment. For example, Bridgeview .
AA GIS Service ID	The service ID. For Civic Platform integration, this should match the GIS Service ID defined in Civic Platform Classic Administrator. For Citizen Access integration, this should match the GIS Service ID specified on the Citizen Access Administration site.
Product	The product to integrate with Accela GIS.  <b>Note:</b> For Civic Platform (8.x), choose "Accela Automation". For Citizen Access (8.0.1 and later), choose "Citizen Portal".
Application Server URL	The business application serverURL. For example, <code>http://&lt;host&gt;:3080</code> where <host> represents your agency's business application server name.

Automation User Name	A valid Civic Platform user name. uses the username to connect to the Application Server.
Automation Password	The password for the Civic Platform user name.
Default	If checked, this integration displays by default
Test Connection	Click the <b>Test Connection</b> link to test the server connection using the server URL and account information you provided. If Accela GIS successfully connected to the specified server URL using the account information, a confirmation message is displayed. Otherwise, consult with the Accela product administrator to ensure the connection parameters are correct.

## GIS Settings in Citizen Access Admin

Field	Description
Set the GIS Server URL	<p>The Accela Silverlight GIS server URL. For example:</p> <pre>https://myagency.com/agissl</pre> <p><b>Note:</b> The Set the GIS Server URL field for the Accela GIS (Silverlight) version is also required to support other maps in Citizen Access that still use the legacy Accela GIS (Silverlight) version.</p>
GIS Service Url (JavaScript version)	<p>The Accela GIS (JavaScript version) server URL. For example:</p> <pre>https://myagency.com/agis/api</pre>
GIS Service ID	The GIS Service ID defined for the Citizen Access integration on the Accela GIS Administration site.
GIS Group	The user group setting to be used with the specified GIS Service integration. "Default" is the default user group if no specific group has been configured.

### Related topics:

- [Configuring Map Services](#) - For details about map service provider configurations
- [Product Integrations > Integration Environment](#) - For details about defining environment integration settings on GIS Admin
- [Product Integrations > User Groups](#) - For details about defining user group settings on GIS Admin
- [Citizen Access Administration Guide > GIS Settings](#)

## The Accela GIS Administration Site

---

The Accela GIS Administration (“GIS Admin”) site supports the configuration and administration of Accela GIS which is the JavaScript version of the Civic Platform map viewer. Use the GIS Admin site to manage administrators, GIS service configurations, product integrations, user group settings, and other administrative functions related to the tool.

To login GIS Admin, go to:

```
http://<hostname>/agis/admin
```

The following shows the GIS Admin login page:

The screenshot shows the GIS Administration login page. The header is dark blue with the text "GIS Administration" on the left and "Register Log in Version API Document" on the right. The main content area is white and contains a login form. The form has two input fields: "User Name(Email)" with the value "admin@accela.com" and "Password" with masked characters. Below the fields is a "Log in" button and two links: "Forgot your password?" and "Don't have an account? Create one now".

From the GIS Admin login page:

- A system administrator can login and access all agencies' Accela GIS configurations. The system administration username and password is set during the Accela GIS installation.
- An agency administrator can login and access only the agency's Accela GIS configuration.
- A new user can register as an agency administrator.
- An administrator can view the Accela GIS version information.
- An administrator or developer can view the Accela GIS developer documentation.

### Related Links

[Accela GIS System Administration](#)

[Accela GIS Agency Administration](#)

# Accela GIS System Administration

---

Accela GIS system administration consists of the following tasks:

- [Initial Setup](#)
- [Managing Agencies](#)
- [Managing Agency Administrators](#)
- [HTTP Request Timeout](#)

An Accela GIS system administrator is typically the person who installs or upgrades the server components of Accela GIS. The system administrator also performs initial Accela GIS administration setup and administration tasks for multiple agencies on the GIS Administration site.

On the **Home** page, a system administrator can:

- Change password. The initial password is set during the Accela GIS server installation.
- Add, edit, and delete multiple agencies.
- Add, edit, and delete agency or system administrators.

## Initial Setup

The Accela GIS system administrator is the first user of the GIS Admin site. The system administrator account and password are defined during the installation of the Accela GIS server component. After the Accela GIS installation, the system administrator must login to GIS Admin to perform the following initial setup:

1. Change the system administration account password on the login page.
2. Add the first agency on the Agency section of GIS Admin.  
After adding the agency, the system administrator can either continue with configuring the agency's initial map profile and product integration, or assign this responsibility to the agency administrator (to be created in the following step).
3. Add the first agency administrator on the User section of GIS Admin. An agency administrator can manage Accela GIS configurations only for his or her assigned agency.

**Note:**

This step is optional. An agency administrator can register himself or herself on the GIS Admin login page.

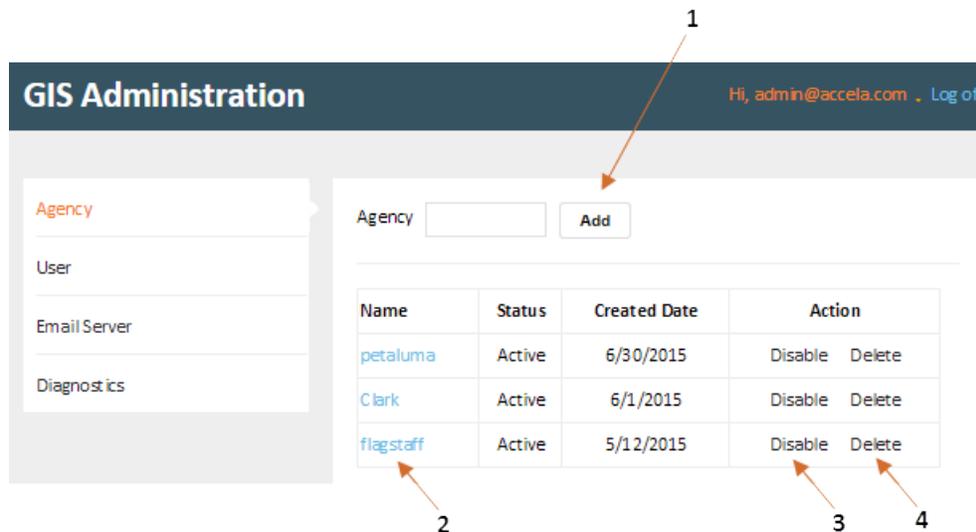
---

Related topics:

- [Managing Agencies](#) - for information about how to add the first agency
- [Managing Agency Administrators](#) - for information about how to add the first agency administrator

## Managing Agencies

A system administrator has administration access to all the agency configurations. The following diagram shows a sample Agency page:



On the **Agency** page, a system administrator can:

- 1: Add an agency.
- 2: Edit an agency.
- 3: Disable an agency.

Disabling an agency keeps the agency's map configuration information but prevents it from being used. Before you can disable an agency, set the agency administrators to Inactive status.

- 4: Delete an agency.

Related topics:

- [Accela GIS Agency Administration](#)

## Managing Agency Administrators

The User section of GIS Admin is used to manage agency administrators. Note that only the system administrator has access to the User section. (An agency administrator cannot see the User section.)

The User page shows two types of roles:

- **User** - Indicates an agency administrator with an assigned agency. When this user logs in the GIS Admin site, the user will login the GIS Administration pages for the assigned agency.
- **Administrator** - Indicates a system administrator with no assigned agency. A system administrator can manage all agencies.

The following is a sample User page:

User	Agency	Role	Status	Create Date	Action
<a href="#">petaluma@accela.com</a>	petaluma	User	Active	6/30/2015	Delete
<a href="#">www.auditexpress.com</a>	flagstaff	User	Active	6/23/2015	Delete
<a href="#">admin@accela.com</a>		Administrator	Active	5/12/2015	View

On the User page, a system administrator can:

- 1: Add a user. To assign the new user as an agency administrator, select **Administrator** as the user's role.
- 2: Edit an agency administrator.
- 3: Delete an agency administrator.
- 4: View the system administrator profile and change the password.

## HTTP Request Timeout

Administrators can set a time limit on HTTP requests from Accela GIS Admin site to retrieve and access map services. The timeout setting is defined in the `webconfig` file on the Accela GIS IIS server. The default timeout setting is 30 seconds.

To set the HTTP request timeout:

1. Locate and open the `webconfig` file on the Accela GIS IIS server.
2. Under the `<appSettings>` section, add or edit the `HttpRequestTimeout` parameter. Specify the timeout value in seconds. The following example shows the default timeout value of 30 seconds:

```
<add key="HttpRequestTimeout" value="30" />
```

3. Save the changes. The web application restarts automatically after updating the `web.config` file.

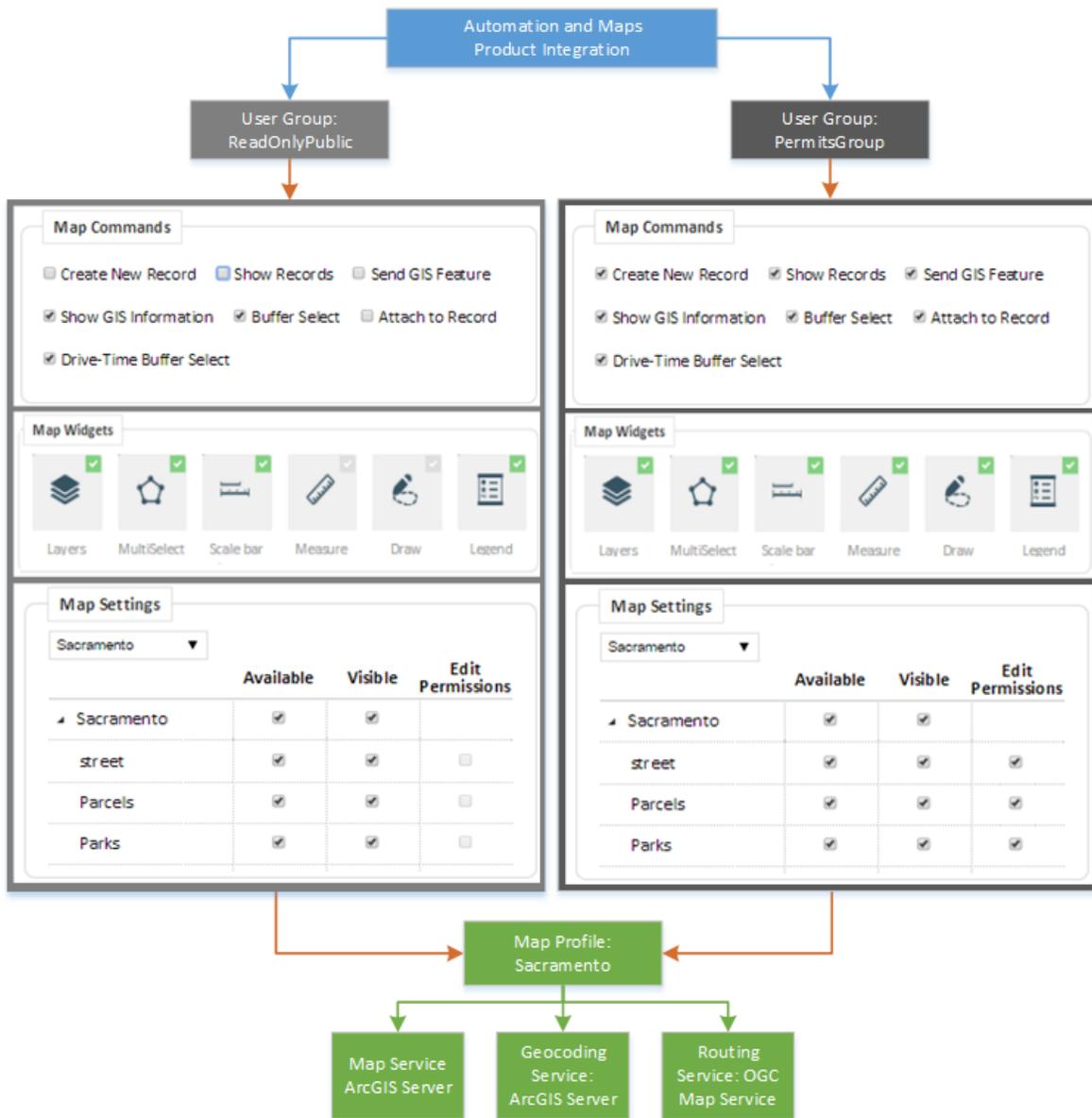
## Accela GIS Agency Administration

---

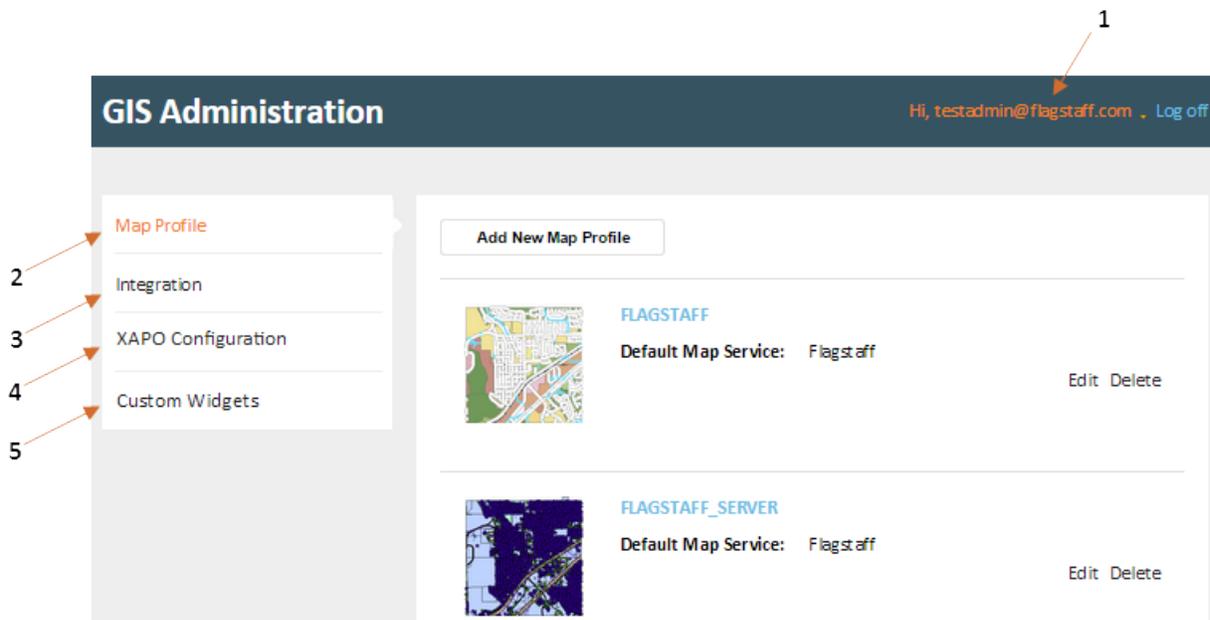
A Accela GIS agency administrator configures agency settings for the following:

- [Map Profiles](#)
- [Map Services](#)
- [Product Integrations](#)
- [User Groups](#)
- [Custom Widgets](#)
- [XAPO Configuration for Accela GIS](#)

Accela GIS agency administration is made easier by allowing administrators to centrally define map profiles that can be shared across product integrations and user groups, as illustrated by the following diagram:



In the preceding diagram, an Automation product integration configuration has two user groups: a read-only group (“ReadOnlyPublic”) and another group who submits permit applications (“PermitGroup”). The ReadOnlyPublic group shows restricted settings and the PermitGroup shows more enabled settings. Although the two groups have different user settings, they both share the same map profile (“Sacramento”). The Sacramento map profile is defined only once, with its set of map and geocoding services. The agency administrator simply needs to assign the same map profile to the two user groups. This configuration makes the same Sacramento map layers available and visible to both user groups, with browse-only capability to one group, and editing and transactional record capabilities to another group. The following diagram shows a sample Home page for an agency administrator:



On the **Home** page, an agency administrator can:

1: Edit the profile or change the password.



**Note:**

A user can self-register and create an agency administration account on the GIS Admin login page.

2: Add, edit, and delete map profiles.

3: Add, edit, and delete product integrations.

4: Configure XAPO settings and mappings between Accela GIS and the external map service.

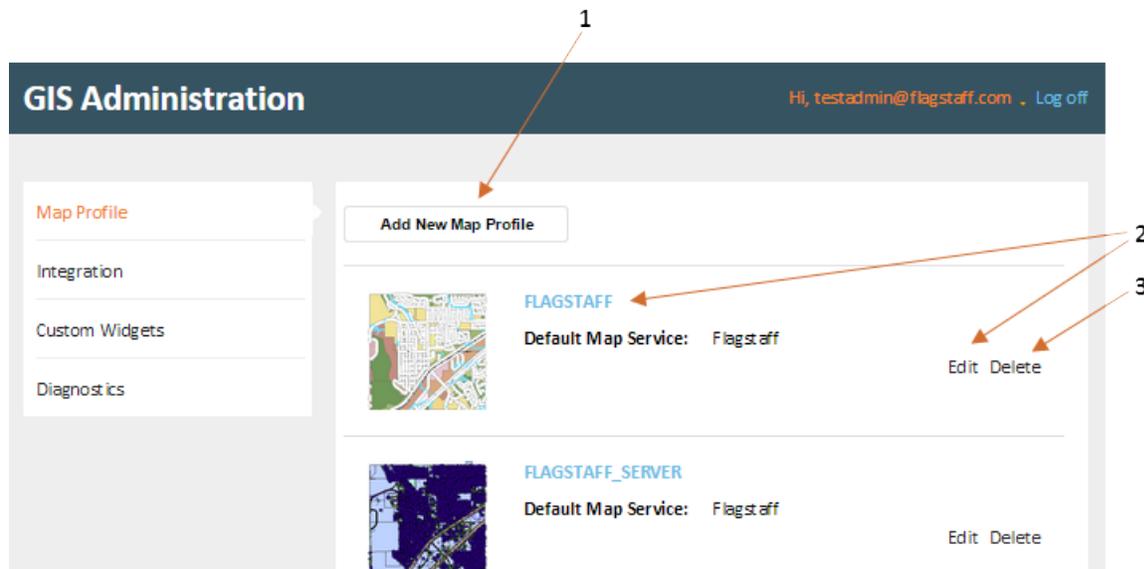
5: Deploy custom widgets.

## Map Profiles

A map profile:

- Is a collection of GIS map services and geocoding services that allow users to connect to the agency's GIS information providers. The configured GIS services in a map profile provide a mashup or aggregation of map layers.
- Provides a centralized and streamlined configuration of GIS services. An administrator can define service connection parameters only once within a map profile, and have the ability to assign the same profile to multiple user groups across multiple product integrations.
- Is assigned to user groups. An administrator can set the availability, visibility, and edit permissions of the map layers to the user group. The permission settings are configured on **Integrations > User Groups > Map Layer Settings**.

The **Map Profiles** page shows an agency's configured map profiles and their default map service. The following is a sample **Map Profiles** page:



On the **Map Profiles** page, an administrator can:

- 1: Add a map profile. Adding a new map profile opens the **Map Profile Settings** page.
- 2: Edit a map profile. Editing a map profile opens the **Map Profile Settings** page.
- 3: Delete a map profile.

The **Map Profile Settings** page has the following configuration sub-sections:

- **Profile Info** - contains the map profile name and link to the [Initial Map Extent](#)
- **Map Services** - a list of map service configurations
- **Geocoding Services** - a list of geocoding service configurations



**Note:** If a map service is not defined in a map profile, map users will see the default ArcGIS Online base map. If an initial map extent has been defined for the map profile without a map service, map users will see configured initial extent of the default ArcGIS Online base map.

The following is a sample **Map Profile Settings** page:

**GIS Administration** Hi, admin@accela.com . Log off

Home > PETALUMA > Map Profile Settings

**Profile Info**

Profile Name  
 [Define Initial Map Extent](#)

**Map Services** [Add Map Service](#)

	<p><span style="color: green;">✓</span> <b>PETALUMA_SDE</b></p> <p>Map Service Provider: ESRI ArcGIS Server</p> <p>Map Service: Petaluma_SDE</p> <p>Default: True</p> <p style="text-align: right;"><a href="#">Edit</a> <a href="#">Delete</a></p>
---	---

**Geocoding Service**

<b>WORLD</b>	<p>Geocoding Service Provider: Agency ArcGIS Online Account</p> <p>Geocoding Service: World</p> <p style="text-align: right;"><a href="#">Edit</a> <a href="#">Delete</a></p>
--------------	---

**Routing Service** [New Routing Service](#)

[Back to map profile list](#)

## Configuring the Initial Map Extent

Configuring an initial map extent allows an administrator to draw a rectangular area that defines the initial map extent for the map users. The initial map extent displays as the users' default map view. The initial map extent configuration on the GIS Administration site avoids the need to rely on the ArcGIS administrator to define the GIS map extent in Civic Platform.

### Default base map

If an agency does not have any configured map profile on the GIS Administration site, or its map profile does not contain any map service, users will see the ArcGIS online base map as their default initial map extent.

### Defining the initial map extent

The initial map extent on a map service is defined at the map profile level. The following procedure assumes you already created a map profile for which you want to define an initial map extent.

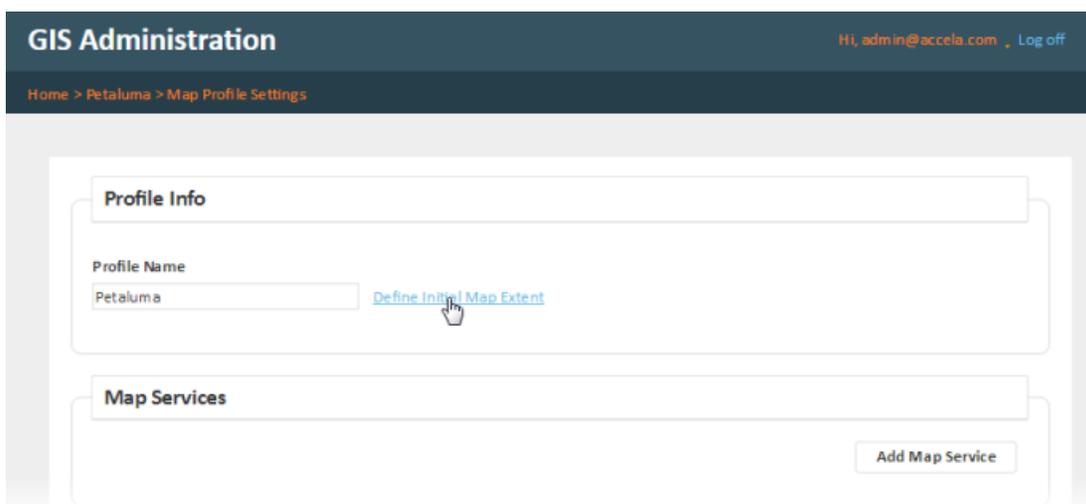
 **Note:** If the map profile does not contain any map service, you can only configure the initial map extent for the default ArcGIS Online base map, which will display as the map users' default map view.

To configure the initial map extent:

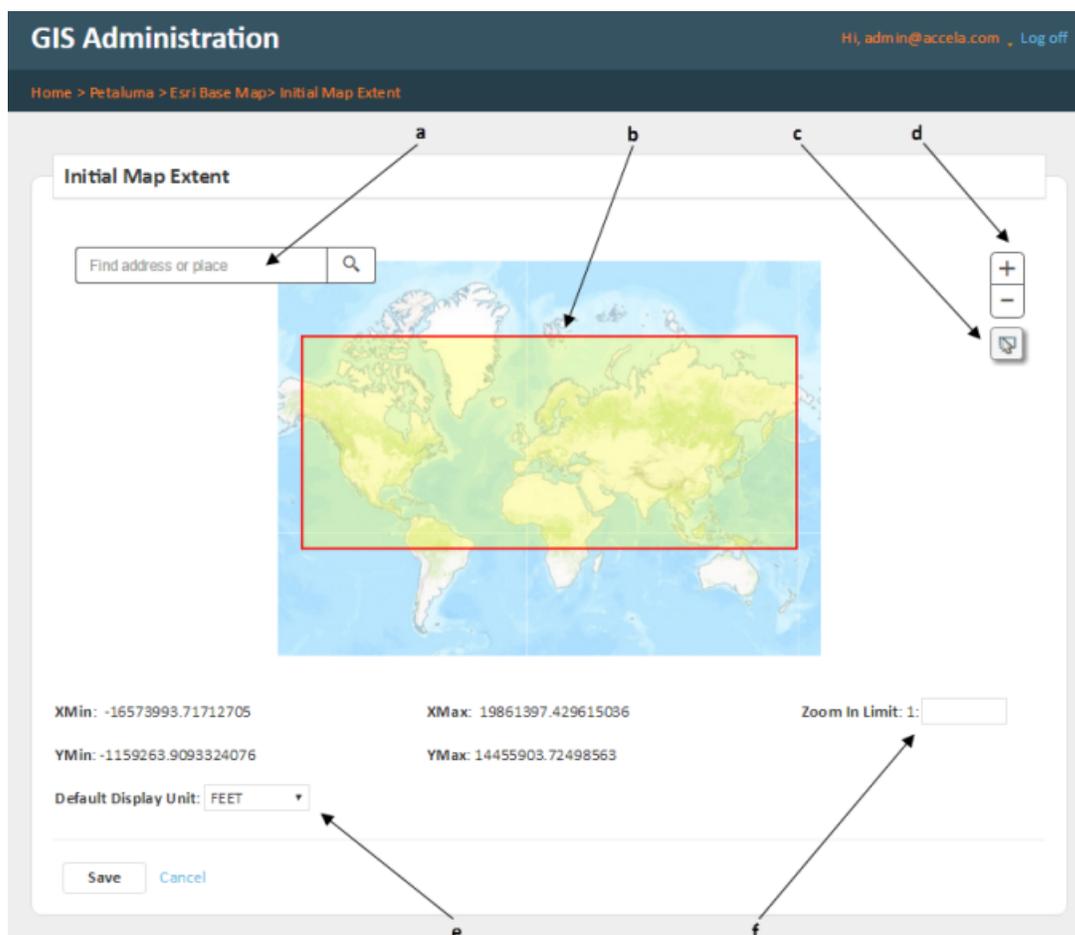
1. From the agency's **Home** page, click **Integrations** to see the list of product integrations.
2. Select the **Accela Automation** product integration.
3. On the **Additional Settings** page, un-check the **Enable** checkbox under **Persist Map Status**, and click **Save**.

 **Note:** If Persist Map Status is enabled, the initial map extent setting will always be overridden by the user's persisted map settings. To allow users to use the agency's configured initial map extent, disable Persist Map Status.

4. From the agency's **Home** page, click **Map Profile** to see the list of map profiles.
5. Select the map profile you want to configure the initial map extent for.
6. On the **Map Profile Settings** page, click **Define initial map extent**:



By default, the **Initial Map Extent** page shows the Esri ArcGIS Online base map.



On the **Initial Map Extent** page, you can:

- a:** Find and zoom to an address on the map. You can locate an address and use it and its surrounding area as your initial map extent.
- b:** Click, drag, and pan the map.
- c:** Use a rectangular drawing tool to define the area of the initial map extent.
- d:** Zoom the map in or out. You can also double-click or use the mouse-wheel to zoom in or out.
- e:** Set the map display unit. This is useful for different map services that require different types of map projections. For example, the Universal Transverse Mercator linear data unit is in meters while the California State Plane linear data unit is in feet. The GIS Administrator can decide which unit is more applicable to the map users. The map scale will automatically adjust to the selected display unit.
- f:** Restrict the zoom 1:x scale level for map users. Setting this limit restricts map users from zooming in beyond the specified 1:x scale. The ability to restrict the zoom-in scale is especially important when a map service publishes sensitive data.

7. After you have configured the above settings, click **Save**. Or, click **Cancel** to discard your changes.

## Map Services

A map service provides map images, map layers, spatial and geographic information, and related mapping capabilities. They support geospatial and location-based services. In GIS Admin, map services are configuration components of a map profile which define access to an agency's map service providers such as ArcGIS Server or ArcGIS Online Web Map.

## Map service mash-ups

Accela GIS supports the mash-up of multiple ArcGIS Server map services on the map viewer. This allows a user to see a dynamic mash-up of map layers from multiple ArcGIS Server map services. For example, an agency user who needs to evaluate airplane noise and safety levels for a proposed airport expansion project can see a mash-up view of the proposed airport expansion area, existing residential parcels, airline flight paths and noise levels, each of which come from separate ArcGIS Server map services.

To create a map service mash-up:

1. From the agency's **Home** page, click **Map Profile** to see the list of map profiles.
2. Select the map profile that will contain the map service mash-up.
3. On the map profile's **Map Services** section, add a map service for each service in the mash-up. (See [Managing Map Services](#) for information about adding and configuring map services.)
4. Add any other map service the agency needs to include in the map service mash-up.

By default, the map service that was added last displays on top of the previously added map services. You can [adjust the display order of the map services](#) according to your agency's requirements.

The following example shows a **Map Profile Settings** page with two map services, virtually creating a "service mash-up":

The screenshot displays the 'Map Profile Settings' page in the GIS Administration interface. The page title is 'GIS Administration' and the user is logged in as 'Hi, admin@accela.com'. The breadcrumb trail is 'Home > PetalumaProfileWithMashUp > Map Profile Settings'. The page is divided into two main sections: 'Profile Info' and 'Map Services'.

**Profile Info:** The 'Profile Name' is 'PetalumaProfileWithMashUp'. There is a 'Define Initial Map Extent' button.

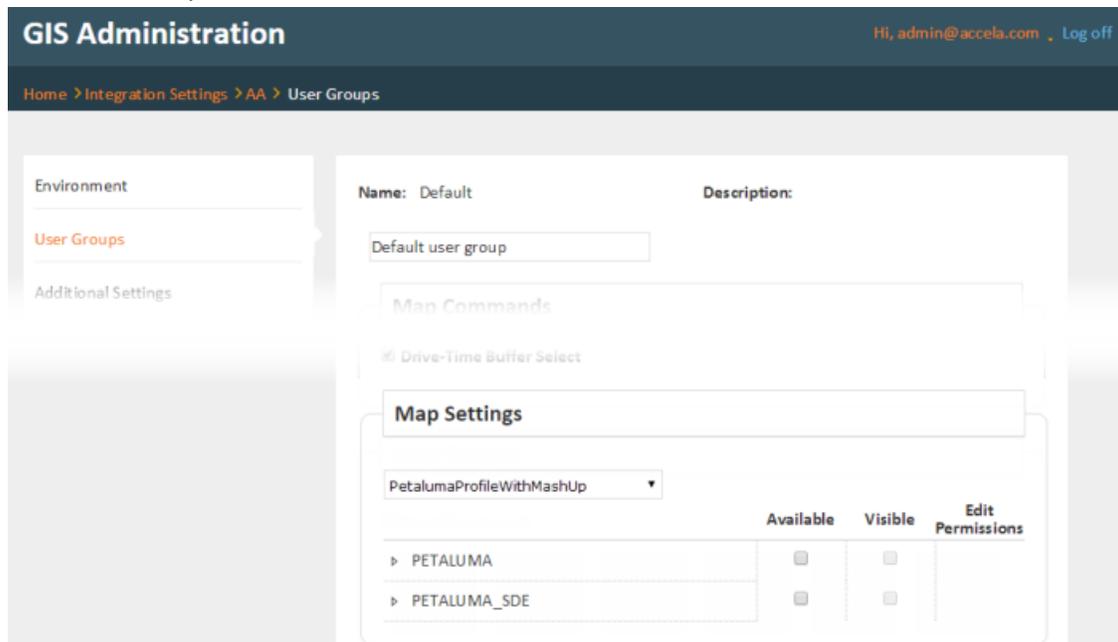
**Map Services:** This section contains three map services, each with a thumbnail, a checkmark, and a title. Each service is provided by 'ESRI ArcGIS Server'.

Thumbnail	Service Name	Map Service Provider	Map Service	Default	Actions
	MULTIPLE/PETALUMA_SEWER_DYNAMIC	ESRI ArcGIS Server	Multiple/Petaluma_Sewer_Dynamic	True	Edit Delete
	MULTIPLE/PETALUMA_PROPERTY_CACHE	ESRI ArcGIS Server	Multiple/Petaluma_Property_Cache	False	Edit Delete
	MULTIPLE/PETALUMA_CITY_LIMITS_DYNAMIC	ESRI ArcGIS Server	Multiple/Petaluma_City_Limits_Dynamic	False	Edit Delete

An 'Add Map Service' button is located in the top right corner of the Map Services section.

5. From the agency's **Home** page, click **Integration** to see the list of integrations.
6. Select the product integration for which the map service mash-up will be used.
7. On **Integration Settings**, click **User Groups**.

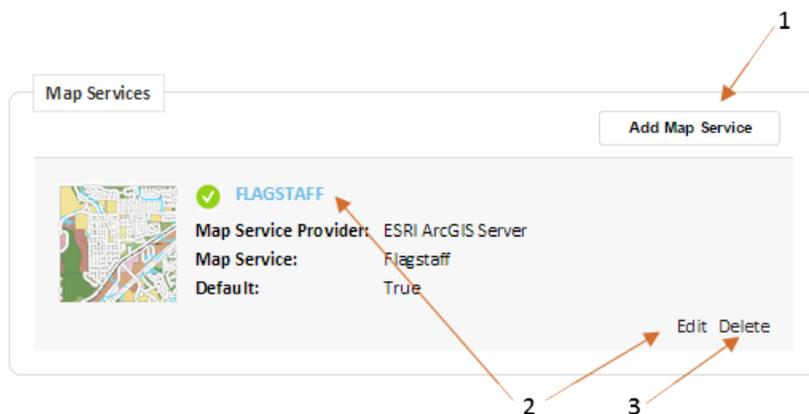
8. Select the user group that will use the map service mash-up. If anyone should be able to use the map service mash-up, select **Default**.
9. On the user group's **Map Settings** section, select the map profile containing the service mash-up.  
The following example shows the Default user group page with the assigned map profile containing the service mash-up:



**Note:** The map viewer performance might be affected as map services are added to the mash-up. Accela tested up to four map services with no effect on performance. Additional services may have negative impact on performance.

## Managing Map Services

The following diagram shows the Map Services section on a Map Profile page:



On the Map Services section of a Map Profile page, an administrator can:

1: Add a map service.

If an existing map service provider is ESRI ArcGIS Online, another map service cannot be added. This is because an ArcGIS Online map service is typically a mash-up of multiple services. Only one ArcGIS Online map service is supported.

2: Edit a map service.

3: Delete a map service.



**Note:** For ESRI map services, pre-processed map thumbnails are retrieved from ESRI and displayed next to the ESRI map services on the Map Services page.

## Related Links

[Configuring Map Services](#)

[Map Service Provider Settings](#)

# Configuring Map Services

The Map Service settings vary according to the type of the selected Map Service provider. The following are the supported Map Service providers:

Map Service Provider	Description
ESRI ArcGIS Server	<p>Esri's core, on-premise <a href="#">ArcGIS Server</a> map provider.</p> <p>See <a href="#">Map Service Settings Fields for ESRI ArcGIS Server</a>.</p>
OGC Map Service	<p>An Open Geospatial Consortium (OGC) Web Mapping Service (WMS) or Web Feature Service (WFS) published via <a href="#">AutoDesk Map Guide</a> or other open-source map publishing server such as <a href="#">GeoServer</a>.</p> <p>See <a href="#">Map Service Settings Fields for OGC Map Service</a>.</p>
ESRI ArcGIS Online	<p>Esri's cloud-based <a href="#">ArcGIS Online</a> map provider. The ArcGIS Online web map might contain tiled map services for map visualization and feature services for Accela data querying and integration. You can use ArcGIS Online Web Map to create mash-ups with dynamic map services published on Esri ArcGIS Server or with image services from ArcGIS Image Server.</p> <p>An ArcGIS Online map service is typically a mash-up of multiple services. For this reason:</p> <ul style="list-style-type: none"> <li>• Only one ESRI ArcGIS Online map service is supported.</li> <li>• An ArcGIS Online map service cannot be added if an ArcGIS Server map service has already been configured.</li> </ul> <p>See <a href="#">Map Service Settings Fields for ArcGIS Online Web Map</a>.</p>
ESRI Image Server	<p>Esri ArcGIS Image Server. Agencies often manage individual images using raster datasets. It is the simplest way to store a raster, and generally the fastest for smaller applications. Accela GIS supports an image service that has been published using ArcCatalog or the ArcGIS for Server manager.</p> <p>Raster Datasets can have the following file formats:</p> <ul style="list-style-type: none"> <li>• TIFF, GRID, Mrsid, JP2000, JPEG, NITF, CADRG, etc</li> <li>• Geodatabases</li> </ul> <p> <b>Note:</b> The display performance of an ArcGIS Image Server on Accela GIS largely depends on your agency's network support for the size and usage of the image server.</p> <p>See <a href="#">Map Service Settings Fields for ESRI Image Server</a>.</p>

After configuring the [Map Service Provider Settings](#), continue the Map Service configuration with the [Map service layers](#).

## Map Service Provider Settings

This topic describes the map service settings for each supported map service provider type:

- [Map Service Settings Fields for ESRI ArcGIS Server](#)
- [Map Service Settings Fields for ArcGIS Online Web Map](#)
- [Map Service Settings Fields for OGC Map Service](#)
- [Map Service Settings Fields for ESRI Image Server](#)

After configuring the map provider connection parameters, you can click the Retrieve Service link to retrieve the available [Map service layers](#) and configure each layer's ID field.

### Map Service Settings Fields for ESRI ArcGIS Server

Map Service Provider	Choose ESRI ArcGIS Server.
Map Server	The ArcGIS Server name or IP address
Port	The port number that corresponds to the map server's IP address. The default port number for the HTTP server is 80 while the default port number for the HTTPS server is 443.
Use HTTPS Scheme	Indicates whether or not to support HTTPS to communicate between Accela GIS Server and ArcGIS Image Server.
Instance	The server instance. The default value that populates this field is arcgis.
User Name	The ArcGIS Image Server user name. For more information about how to configure ArcGIS server security, see "Configuring ArcGIS Server security" on the <a href="#">ArcGIS Resources web site</a> .
Password	The ArcGIS Image Server password. For more information about how to configure ArcGIS server security, see "Configuring ArcGIS Server security" on the <a href="#">ArcGIS Resources web site</a> .
Retrieve Service	Click this link to see a list of map services on the Map Service drop-down list and to retrieve map service information from your map provider.
Map Service	If you retrieve a map service from ArcGIS Image Server, this drop-down list populates with map services that you have published to the root folder or its subfolders in ArcGIS Server. Select a map service from the drop-down list. For more information about how to publish map services in ArcGIS Server, see "Setting up Map Functionality" in the <i>Accela GIS for ArcGIS Server Configuration Guide</i> .
Default	This check box applies to agencies that use multiple map services to create map mashups in one integration environment. Mark this check box to set a map service as the default. When you mark this check box, common settings, such as the initial extent of the selected map service, display in the map viewer. If your agency uses map services from ArcGIS Server and Bing Maps or from ArcGIS Server and ArcGIS Online Base Map, set an ArcGIS Server map service as the default map service. You cannot set a map service from Bing Maps or ArcGIS Online Base Map as the default map service in an integration environment with the map mashups. Only one map service can be the default.



**Note:** In a map service, sets of raster (imagery) and vector (feature) data can be consolidated into layers, and can be made available as one web service. User can add data from ArcGIS Server as either map service layers or feature layers. Map service layers encapsulate all the data within a map service and use the symbology that is defined by the service. A feature layer, on the other hand, corresponds to one dataset or layer within a map service, and allows you to define its symbology and other properties. To configure a map service containing vector and image datasets, setup and publish the vector and image datasets on ArcGIS Server. For details, see Esri's ArcGIS Server documentation.

## Map Service Settings Fields for OGC Map Service

Map Service Provider	Choose <b>OGC Map Service</b> .
OGC WMS Service	The web mapping service URL for an Open Geospatial Consortium map provider. The web mapping service URL must come from the same data source as the web feature service URL.
OGC WFS Service	The web feature service URL for an Open Geospatial Consortium map provider. The web feature service URL must come from the same data source as the web mapping service URL.
Retrieve Service	Click this link to see a list of map services on the Map Service drop-down list and to retrieve map service information from your map provider.
Default	This check box applies to agencies that use multiple map services to create map mashups in one integration environment.  Mark this check box to set a map service as the default. When you mark this check box, common settings, such as the initial extent of the selected map service, display in the map viewer. Only one map service can be the default.

## Map Service Settings Fields for ArcGIS Online Web Map

Map Service Provider	Choose <b>ESRI ArcGIS Online</b> .
User Name	If you are using ESRI ArcGIS Online Web Map as the map provider, enter the agency's subscription user account for ArcGIS Online.
Password	The agency's subscription account password for ArcGIS Online Web Map.
Retrieve Service	Retrieves the list of your published web maps from ArcGIS Online and populates the <b>Map Service</b> drop-down list. See <a href="#">Map service layers</a> .
Map Service	A dropdown list that displays the web maps that you have published to ArcGIS Online. Select a web map as the map service.

## Map Service Settings Fields for ESRI Image Server

Map Service Provider	Choose ESRI Image Server.
Map Server	The ArcGIS Image Server name or IP address
Port	The port number that corresponds to the map server's IP address. The default port number for the HTTP server is 80 while the default port number for the HTTPS server is 443.
Use HTTPS Scheme	Indicates whether or not to support HTTPS to communicate between Accela GIS Server and ArcGIS Image Server.
Instance	The server instance. The default value that populates this field is arcgjis.

User Name	The ArcGIS Image Server user name. For more information about how to configure ArcGIS server security, see "Configuring ArcGIS Server security" on the <a href="#">ArcGIS Resources web site</a> .
Password	The ArcGIS Image Server password. For more information about how to configure ArcGIS server security, see "Configuring ArcGIS Server security" on the <a href="#">ArcGIS Resources web site</a> .
Retrieve Service	Clicking this link retrieves map service information from your map provider, and populates the Map Service drop-down list.
Map Service	If you retrieve a map service from ArcGIS Server, this drop-down list populates with map services that you have published to the root folder or its subfolders in ArcGIS Image Server. Select a map service from the drop-down list. For more information about how to publish map image services in ArcGIS Server, see "Publishing image services" on the <a href="#">ArcGIS Resources web site</a> .
Default	Applies to agencies using multiple map services to create map mashups in one integration environment. Mark this check box to set a map service as the default. When you mark this check box, common settings such as the initial extent of the selected map service display in the map viewer.

## Map service layers

The **Retrieve Service** link on the **Map Service Settings** page retrieves the map services that are available from the configured map service provider, and displays the map services on the **Map Service** dropdown list.

When you select a **Map Service**, its map layers are listed. Each map layer has an **ID field** dropdown list which displays the layer's available attribute fields. By default, the **ID Field** dropdown value is set to OBJECTID, which indicates that Accela GIS uses the default ID on the map layer.

When you select an **ID Field** for a map layer:

- You specify the field within the geodatabase feature class table that you want to map to the Accela GIS database. Accela GIS uses the ID field value to create the GIS object on the Accela GIS database.
- The **ID Field** connects the map layer in your map provider's geodatabase to the Accela GIS database. For example, if you select HYDRANT as the ID Field for Hydrants (as illustrated in [Figure 6: Map service layers and their ID fields](#)), then objects in the Hydrants map layer are identified by the HYD\_NUMBER field in the Accela GIS database.
- The **ID Field** values for each feature class in the geodatabase must be unique and fixed.
- The **ID Field** value will be automatically displayed when a map user selects or edits a GIS object on the map layer.
- The **ID Field** value is required on the GIS Object information panel.

**GIS Administration** Hi, admin@accela.com Log off

Home > petaluma\_back\_up > PETALUMA\_SDE > Map Service Settings

**Map Service Provider**  
 ESRI ArcGIS Server Retrieve Service

**Map Server**  
 Map Service  
 PETALUMA\_SDE

Layer Name	ID Field
Addresses	OBJECTID
Edit Layers	
Hydrants	HYDRANT
Street Lights	OBJECTID
Sewer Network	
Streets	OBJECTID
Railroads	OBJECTID
Downtown	OBJECTID
Buildings	OBJECTID
Floodplain	OBJECTID
Parcels	OBJECTID_1
City Limits	OBJECTID
Rivers	OBJECTID
Parks	OBJECTID
Zoning	OBJECTID_1

**Figure 6: Map service layers and their ID fields**

The map layers from the configured map service become available, visible, and/or editable to the Accela GIS users according to the Integration > [User Groups](#) settings.

## Display Order of Map Services

The display order of map services dictates how map users see the map layers of the map service mash-ups. By default, the map service that was added last appears on top of the previously added map service. To change the display order of the map services:

1. From the agency's **Home** page, click **Map Profiles** to see the list of map profiles.
2. Select the map profile you want to reorder the map services for.
3. On the **Map Profile Settings** page, for the map service you intend to reposition, click the up-arrow to move the service up or click the down-arrow to move it down. For example:

# GIS Administration

Hi, admin@accela.com [Log off](#)[Home](#) > [PetalumaProfileWithMashUp](#) > [Map Profile Settings](#)

## Profile Info

### Profile Name

[Define Initial Map Extent](#)

## Map Services

[Save Order](#)[Add Map Service](#)

### ✔ MULTIPLE/PETALUMA\_PROPERTY\_CACHE

Map Service Provider: ESRI ArcGIS Server

Map Service: Multiple/Petaluma\_Property\_Cache

Default: False

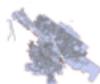
[Edit](#) [Delete](#) ▼

### ✔ MULTIPLE/PETALUMA\_SEWER\_DYNAMIC

Map Service Provider: ESRI ArcGIS Server

Map Service: Multiple/Petaluma\_Sewer\_Dynamic

Default: True

[Edit](#) [Delete](#) ▼[Move Up](#)

### ✔ MULTIPLE/PETALUMA\_CITY\_LIMITS\_DYNAMIC

Map Service Provider: ESRI ArcGIS Server

Map Service: Multiple/Petaluma\_City\_Limits\_Dynamic

Default: False

[Edit](#) [Delete](#) ▲ ▼

### ✔ MULTIPLE/PETALUMA\_PARK\_CACHE

Map Service Provider: ESRI ArcGIS Server

Map Service: Multiple/Petaluma\_Park\_Cache

Default: False

4. After you are done re-arranging the map service order, click Save Order. For example:

## GIS Administration

Hi, admin@accela.com [Log off](#)[Home](#) > [PetalumaProfileWithMashUp](#) > [Map Profile Settings](#)

## Profile Info

Profile Name

PetalumaProfileWithMashUp

[Define Initial Map Extent](#)

## Map Services

[Save Order](#)[Add Map Service](#)

## MULTIPLE/PETALUMA\_SEWER\_DYNAMIC



Map Service Provider: ESRI ArcGIS Server

Map Service: Multiple/Petaluma\_Sewer\_Dynamic

Default: True

[Edit](#) [Delete](#) ▼

## MULTIPLE/PETALUMA\_PROPERTY\_CACHE



Map Service Provider: ESRI ArcGIS Server

Map Service: Multiple/Petaluma\_Property\_Cache

Default: False

[Edit](#) [Delete](#) ▲ ▼

## MULTIPLE/PETALUMA\_CITY\_LIMITS\_DYNAMIC



Map Service Provider: ESRI ArcGIS Server

Map Service: Multiple/Petaluma\_City\_Limits\_Dynamic

Default: False

[Edit](#) [Delete](#) ▲ ▼

## MULTIPLE/PETALUMA\_PARK\_CACHE



Map Service Provider: ESRI ArcGIS Server

Map Service: Multiple/Petaluma\_Park\_Cache

Default: False

## Geocoding Services

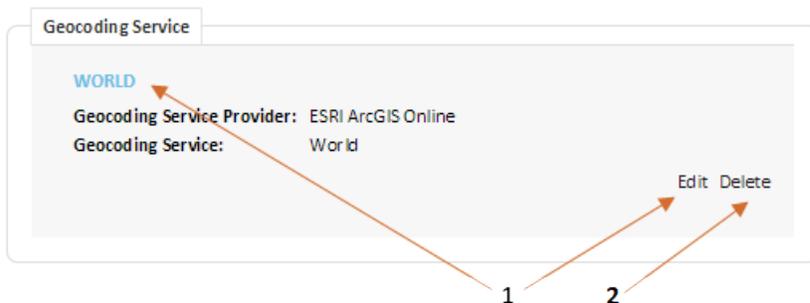
A geocoding service controls the visualization of location attributes on a map. For example, a geocoding service is responsible for displaying addresses as street number ranges along street centerlines. If the agency plans to use geocoding in a product integration environment, configure a geocoding service.

Optionally, if you plan to use geocoding in your map integration environment, you can use the Geocoding Service section to retrieve a geocoding service. The geocoding service provider can be ArcGIS Server, ArcGIS Online, or a custom geocoding web service. For information about integrating a custom geocoding web service, see [Accela GIS Geocoding Web Service Integration Guide](#). Contact [Accela Customer Support](#) for this supporting document.

The geocoding service you select can be different from the default map service. For example, you might want to use ArcGIS Online for geocoding and an ArcGIS Server map service for mapping, visualization, and layer interaction.

## Managing the Geocoding Service

The following diagram shows the Geocoding Service section on a Map Profile page:



On the Geocoding Service section of a Map Profile page, an administrator can:

- 1: Edit a geocoding service.
- 2: Delete a geocoding service.

The New Geocoding Service button (not shown above) only appears if the Map Profile does not yet have a geocoding service. Only one geocoding service can be configured in a Map Profile.

### Related Links

[Configuring Geocoding Services](#)

[Geocoding Service Provider Settings](#)

## Configuring Geocoding Services

An administrator configures a geocoding service either when adding or editing a Geocoding Service. The Map Service settings vary according to the type of the selected Geocoding Service provider. The following are the supported Geocoding Service providers:

ESRI ArcGIS Server	<p>Use ESRI ArcGIS Server for online mapping in Civic Platform, Mobile Office, and Citizen Access.</p> <p>For settings specific to ESRI ArcGIS Server, see <a href="#">Geocoding Service Settings Fields for ESRI ArcGIS Server</a>.</p>
OGC Map Service	<p>Select this option if your agency uses a geocoding service that meets the Open Geospatial Consortium (OGC) Web Mapping Service (WMS) and the Web Feature Service (WFS) Interface standards.</p> <p>For settings specific to OGC Map Service, see <a href="#">Geocoding Service Settings Fields for OGC Map Service</a>. For information about OGC map service configuration, see <i>Accela GIS 7.3 Open Geospatial Consortium (OGC) Map Service Configuration Guide</i>.</p>
Accela ArcGIS Online	<p>Select this option if you want to use Accela's complimentary ArcGIS Online account as the geocoding service provider.</p> <p>The web map might contain tiled map services for map visualization and feature services for Accela data querying and integration. You can use ArcGIS Online Web Map to create mash-ups with dynamic map services that you publish to Esri ArcGIS Server or with image services from ArcGIS Image Server.</p> <p>For settings specific to ESRI ArcGIS Online, see <a href="#">Geocoding Service Settings Fields for Accela ArcGIS Online Account</a>.</p>



**Note:** The Find Address (or place locator) widget on the map viewer always uses ArcGIS Online, regardless of the geocoding service configuration. The configured geocoding service is used when a user clicks anywhere else on the map viewer.

#### Agency ArcGIS Online

Select this option if you want to use your agency's ArcGIS Online account as the geocoding service provider, for which you will need to provide your agency's ArcGIS Online account's username and password.

The web map might contain tiled map services for map visualization and feature services for Accela data querying and integration. You can use ArcGIS Online Web Map to create mash-ups with dynamic map services that you publish to Esri ArcGIS Server or with image services from ArcGIS Image Server.

For settings specific to ESRI ArcGIS Online, see [Geocoding Service Settings Fields for Agency ArcGIS Online Account](#).



**Note:** The Find Address (or place locator) widget on the map viewer always uses ArcGIS Online, regardless of the geocoding service configuration. The configured geocoding service is used when a user clicks anywhere else on the map viewer.

## Geocoding Service Provider Settings

### Geocoding Service Settings Fields for ESRI ArcGIS Server

The following lists show the Map Service settings by provider type:

Geocoding Service Provider	ESRI ArcGIS Server
Geocoding Server	The Geocoding ArcGIS Server name or IP address.
Port	The port number that corresponds to the geocoding server's IP address. The default port number for the HTTP server is 80 while the default port number for the HTTPS server is 443.
Use HTTPS Scheme	Indicates whether or not to support HTTPS to communicate between Accela GIS Server and ArcGIS Server.
Instance	The server instance. The default value that populates this field is arcgis.
User Name	If you select ESRI ArcGIS Server as the geocoding service provider, this field is optional. Enter the user name for the geocoding service published to the ArcGIS Server.
Password	If you select ESRI ArcGIS Server as the geocoding service provider, this field is optional. Enter the password for the geocoding service published to the ArcGIS Server.
Retrieve Service	Click this link to retrieve geocoding service information from your geocoding service provider.
Geocoding Service	When you click the Retrieve Services link, this drop-down list populates with the all the geocoding services set up on your geocoding server.

### Geocoding Service Settings Fields for OGC Map Service

Geocoding Service Provider	OGC Map Service
----------------------------	-----------------

OGC WMS Service	The web mapping service URL for an Open Geospatial Consortium map provider. The web mapping service URL must come from the same data source as the web feature service URL.
OGC WFS Service	The web feature service URL for an Open Geospatial Consortium map provider. The web feature service URL must come from the same data source as the web mapping service URL.
Retrieve Service	Click this link to retrieve geocoding service information from your map provider.

### Geocoding Service Settings Fields for Accela ArcGIS Online Account

Geocoding Service Provider	<b>Accela ArcGIS Online Account</b>
Retrieve Service	Click this link to retrieve geocoding service information from your geocoding service provider.
Geocoding Service	When you click the Retrieve Services link, this drop-down list shows the geocoding services available with the complimentary Accela ArcGIS Online account such as World.

### Geocoding Service Settings Fields for Agency ArcGIS Online Account

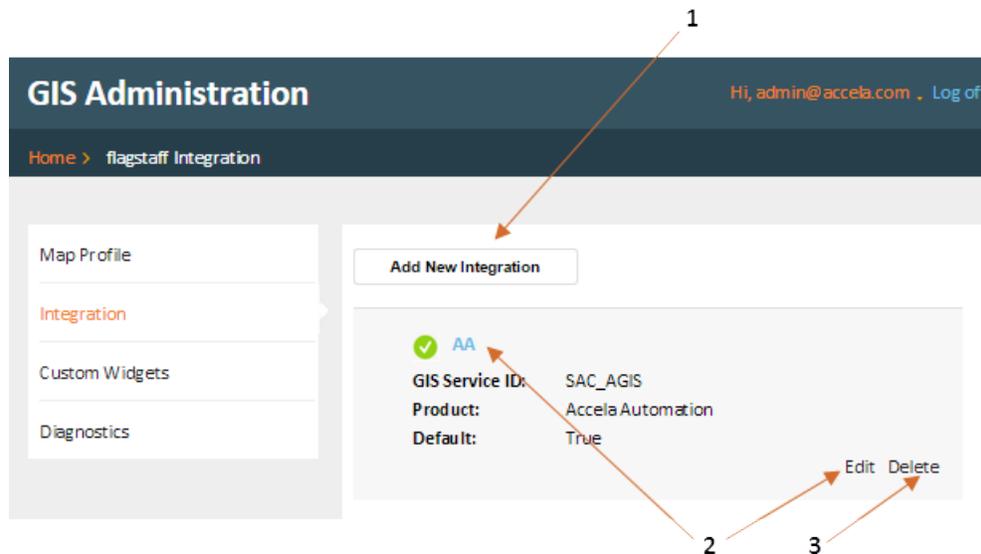
Geocoding Service Provider	<b>Agency ArcGIS Online Account</b>
User Name	If you select Agency ArcGIS Online Account as the geocoding service provider, this field is required. Enter the user name for the ArcGIS Online server. Please contact Esri to obtain a user account.
Password	If you select Agency ArcGIS Online Account as the geocoding service provider, this field is required. Enter the password for the ArcGIS Online server. Please contact Esri to obtain a user account.
Geocoding Service	When you click the Retrieve Services link, this drop-down list populates with the all the geocoding services set up on your geocoding server. If you select ArcGIS Online as the geocoding server, this drop-down list populates with the ArcGIS Online geocoding services such as World.
Retrieve Service	Click this link to retrieve geocoding service information from your geocoding service provider.

## Product Integrations

A product integration (or “integration”) is a collection of configuration settings that integrate your agency’s GIS services with a product environment such as Civic Platform. In addition to product environment settings, an integration includes one or more user group configurations that define settings according to a user group’s functions. A user group can use one of the [Map Profiles](#) with configured service mash-ups that provide map layers and GIS data. Multiple user groups can be assigned unique map profiles or can share the same map profile, depending on the group’s role and requirements.

### Managing Integrations

The following diagram shows a sample Integrations page:



On the Integrations page, an administrator can:

- 1: Add an integration.
- 2: Edit an integration.
- 3: Delete an integration.

## Integration Environment

Integration environment settings define parameters for connecting to the product environment.



**Note:**

Accela GIS 8.x supports product integration with Civic Platform and Citizen Access.

## Environment Integration Settings

Integration Name	The descriptive name of the product integration environment. For example, Bridgeview .
AA GIS Service ID	The service ID. For Civic Platform integration, this should match the GIS Service ID defined in Civic Platform Classic Administrator. For Citizen Access integration, this should match the GIS Service ID specified on the Citizen Access Administration site.
Product	The product to integrate with Accela GIS.  <b>Note:</b> For Civic Platform (8.x), choose "Accela Automation". For Citizen Access (8.0.1 and later), choose "Citizen Portal".

Application Server URL	The business application serverURL. For example, <code>http://&lt;host&gt;:3080</code> where <host> represents your agency's business application server name.
Automation User Name	A valid Civic Platform user name. uses the username to connect to the Application Server.
Automation Password	The password for the Civic Platform user name.
Default	If checked, this integration displays by default
Test Connection	Click the <b>Test Connection</b> link to test the server connection using the server URL and account information you provided. If Accela GIS successfully connected to the specified server URL using the account information, a confirmation message is displayed. Otherwise, consult with the Accela product administrator to ensure the connection parameters are correct.

## Dynamic Themes

A dynamic theme is a dynamic set of geographic features, which is a result of a query on Civic Platform and GIS data. As the data in Civic Platform changes, the results of these queries change accordingly. For example, if your agency performs routine safety inspections on buildings in an area, a dynamic theme can show users which buildings have been inspected and which have not, or the dynamic theme can let you see the results of the safety inspections.

The GIS Admin site allows an agency administrator to:

- Retrieve configured dynamic themes from Civic Platform
- Customize the map symbology of dynamic themes for an integration environment
- Set the availability and visibility of the dynamic themes for a user group

Dynamic themes are defined in Civic Platform administration. For details about how to configure dynamic themes, see [Configuring Dynamic Themes in Civic Platform](#).

### Retrieving and Configuring Dynamic Themes in Accela GIS (JavaScript version)

**To retrieve and edit dynamic themes in Accela GIS:**

1. Login the GIS Admin site.
2. From the agency's home page, click **Integrations**.
3. On the list of integrations, select a Civic Platform integration.
4. On the Civic Platform integration page, click **Dynamic Themes**.
5. Click **Retrieve Dynamic Themes** to display all dynamic theme definitions from Civic Platform.
6. Customize the map symbology or display properties of the dynamic theme. The following diagram shows a sample Dynamic Themes page with the dynamic themes' display properties:

Home > Integration Settings

Environment

Dynamic Themes

User Groups

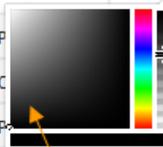
Additional Settings

Service Area Drive

Themes

XAPO Configuration

Retrieve Dynamic Themes

Dynamic Theme	Group	Outline Color	Outline Thickness	Fill Color	Preview
Open Workorders	AMS		<input type="text" value="1"/>		
Open Permits	P		<input type="text" value="1"/>		
New Buildings	C		<input type="text" value="1"/>		
Applications	P		<input type="text" value="1"/>		

Save Cancel

Grip and slide to adjust opacity.

Click to choose a color.

- To customize the outline color and opacity for a specific dynamic theme, click its Outline Color icon.
- To customize the outline thickness for a specific dynamic theme, select the width from its line Outline Thickness dropdown list.
- To customize the fill color and opacity for a specific dynamic theme, click its Fill Color icon using the color picker and opacity slider widgets.

7. Click **Save**.

#### To set the availability and visibility of dynamic themes in GIS user groups:

1. On the Civic Platform integration page, click **User Groups**.
2. Select the user group to assign dynamic themes to.
3. Under the **Map Settings** pane, find the dynamic theme rows which are organized by the theme groups. The following diagram shows a sample User Group page with the dynamic themes map settings:

Home > Integration Settings > AA > User Groups

Environment

---

Dynamic Themes

---

User Groups

---

Additional Settings

---

Service Area Drive

---

Themes

---

XAPO Configuration

**Name:** Default **Description:**

Default user group

Map Commands

Map Settings

PETALUMA

	Available	Visible	Edit Permissions
▸ PETALUMA_SDE	<input type="checkbox"/>	<input type="checkbox"/>	
▾ AMS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Open Workorders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▾ Permits	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Open Permits	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▾ Construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
New Buildings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▾ Planning	<input type="checkbox"/>	<input type="checkbox"/>	
Applications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Save Cancel

- To make the dynamic theme available to the user group, mark the **Available** checkbox for that dynamic theme layer. If a dynamic theme is marked as available, an end-user sees the dynamic theme on the Layers widget and has the ability to show or hide the dynamic theme.
- To make the dynamic theme visible by default to the user group, mark the **Visible** checkbox for that dynamic theme layer. If a dynamic theme is marked as visible, and the dynamic theme appears on the Layers widget by default. An end-user can choose to hide it.

4. Click **Save**.

## User Groups

User group settings define parameters that enable user group members to perform map commands, use map widgets, and view/edit map layers. A product integration can have multiple user groups, each with a set of permission settings according to the user group's role and responsibilities. For example, a Building user group can access one set of map commands, widgets, and map layers while a Planning user group can access a different set of map commands, widgets, and layers.

When an administrator adds an integration, a default user group is automatically created. The **Default** user group contains the default permissions for all map viewer users. The administrator must edit the Default user group settings to assign the appropriate default user permissions. The administrator can add user groups to grant custom permissions to different user groups according to the groups' roles and responsibilities.

**Note:**

In Civic Platform, a user can only belong to one user group per Civic Platform module. If a user belongs to multiple user groups that have been configured for the Civic Platform product integration, the user group permissions for the active Civic Platform module applies.

**Topics:**

- [Managing User Groups](#)
- [Creating User Groups](#)
- [Configuring User Groups](#)

**Managing User Groups**

The following diagram shows a sample User Groups page:

Name	Description	Action
Default	Default user group	View
Permits	Permits Department	Delete

On the User Groups section of a product integration page, an administrator can:

- 1: Add a user group.
- 2: Configure the **Default** user group, or edit a user group.
- 3: Delete a user group.

**Note:**

The **Default** user group cannot be deleted.

**Creating a User Group**

A user group can be created to override the Default user group permissions and assign a specific set of permissions according to the user group's role. A GIS user group can contain at least one user group that has been defined in Civic Platform. When creating a GIS user group, you can click the **Retrieve** link to retrieve all Civic Platform user groups. You can select from the list of retrieved user groups to add to the GIS user group.



**Note:** A Civic Platform user group can only be included in one GIS user group. If a Civic Platform user group has already been included in a GIS user group, that Civic Platform user group will be disabled and cannot be selected from the list of retrieved user groups.

The following diagram shows the Add User Group page with a sample list of retrieved Civic Platform user groups. In this example, the groups AMS, Building, Permits, and BuildingPermits cannot be selected because they already have been added to other GIS user groups:

The screenshot displays the 'Add User Group' interface. On the left, a sidebar contains navigation links: Environment, Dynamic Themes, **User Groups**, Additional Settings, Service Area Drive, and Themes. The main area features a 'Name:' and 'Description:' field. Below these is a 'User Group' section with a 'Retrieve' button. A list of categories is shown, each with a plus sign and a checkbox: AMS, Enforcement, Building, Planning, Licenses, ServiceRequest, Licenses, RDA, Permits, BuildingPermits, Health, and Facilities. The checkboxes for AMS, Building, Permits, and BuildingPermits are disabled (greyed out), indicating they are already in use.

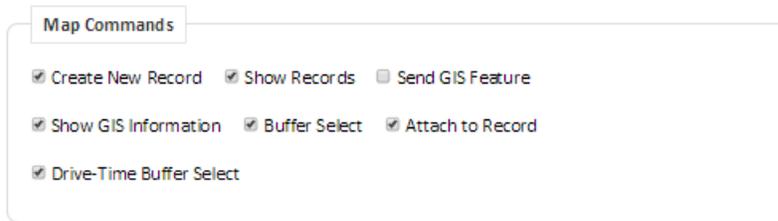
## Configuring a User Group

An administrator configures a user group either when adding or editing a user group. A user group configuration consists of settings for:

- [Map Commands](#)
- [Map Widgets](#)
- [Map Layer Settings](#)

## Map Commands

The Map Commands section allows the administrator to enable or disable map commands for the user group. The available map commands and the default configuration for each map command vary depending on the agency's Civic Platform configuration.



The following table describes the map commands available in 8.x:

**Table 17: Group Personalization Map Command Fields**

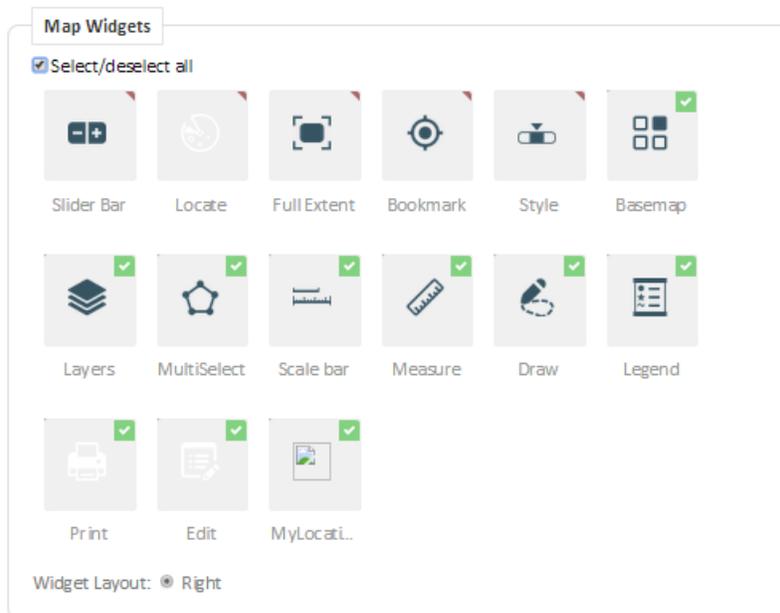
Create New Record	When you enable this command, users can create records from the map viewer. For example, a field worker might want to create a record for a parcel and request an inspection.
Show Records	When you enable this command, users can view the Civic Platform record for the selected GIS object on the slide-out panel.
Send GIS Feature	When you enable this command, users can send a GIS feature to Civic Platform.
Show GIS Information	When you enable this command, users can view GIS object attributes.
Buffer Select	When you enable this command, users can specify a distance buffer from a map location to identify objects within a specific proximity to another object.   <b>Note:</b> Buffering requires an ArcGIS Server geometry service. For more information about geometry services, see “Publishing Services” in the Setting Up Map Functionality chapter of the <i>Accela GIS for ArcGIS Server Configuration Guide</i> .
Attach to Record	When you enable this command, users can attach GIS objects to the current record in Civic Platform.
Drive-Time Buffer Select	When you enable this command, users can specify the number of driving minutes to identify objects within a specific proximity to another object.   <b>Note:</b> Drive-time buffering requires an ArcGIS Online service.

## Map Widgets

A map widget is a tool that facilitates a specific function or task on a map. The Map Widgets section allows the administrator to enable or disable map widgets for the user group. The available map widgets include out-of-the-box Accela GIS widgets and custom widgets.

To enable or disable a map widget for a user group, check or uncheck its corresponding checkbox. Map widgets without a checkbox are always available to users and are non-configurable.

The following diagram shows the Map Widgets section. In this example, MyLocation is a custom widget:



The following table describes the out-of-the-box widgets. These widgets are always available and visible to users.

**Table 18: Non-configurable standard widgets**

Slider Bar	Zooms in and out.
Full Extent	Resets the map display to the agency's default location.
Bookmark	Used for bookmarking locations and using the browser current location.
Style	Displays cluster markers, heat map, or pin map.

The following table describes the configurable widgets which can be enabled or disabled for users.

**Table 19: Configurable standard widgets**

Basemap	Shows a basemap gallery which allows users to choose a geographical background.
Layers	Shows the available and visible map layers provided by the map service. The Layers panel allows users to manipulate the display of the map layers. Similar to the Map Widget settings, the <a href="#">Map Layer Settings</a> are configured on the User Group page.
MultiSelect	Selects multiple points on the map to allow users to select multiple GIS objects for data viewing and analysis.
Scale bar	Shows the map scale, as provided by the map service.
Measure	Used for bookmarking locations and using the browser current location.
Draw	Used for map redlining and annotations.
Legend	Describes the symbols used on the map.
Print	Exports the current map to a selected format.
Edit	Used for editing and creating GIS objects on map layers.

## Map Layer Settings

The Map Settings section allows an administrator to enable or disable the availability, visibility, and editability of map layers for the user group. The administrator must choose a map profile for the user group. A map profile provides a mashup of map layers from various GIS service providers that have been configured for the map profile. After the administrator selects a map profile, all map services and their corresponding map layers display in a collapsible list.

Each map layer shows the permission attributes that apply to the user group members. To enable or disable map layer attributes for a user group, check or uncheck the corresponding checkboxes for the appropriate map layers. Checking a permission at the map service level automatically checks the permissions for all its map layers. You can selectively uncheck or restrict any map layer from that map service. Similarly, you can uncheck a permission at the map service level, and selectively check the appropriate map layer(s) below it.

The following map layer permissions can be enabled or disabled:

**Table 20: Map Layer attributes**

Available	<p>Determines whether or not the user group members have the ability to enable or disable the visibility of the map layer on the map viewer.</p> <p>When an administrator checks the Available checkbox for a map layer, the other permissions for that map layer can be set. If the Available checkbox is not checked, the other permissions cannot be set.</p> <p>Note that checking the Available checkbox does not allow the user group members to see the map layer by default. It simply gives the user group members the ability to show or hide the map layer on the map viewer (by selecting or un-selecting it on the Layers widget).</p> <p>To make the map layer visible to the user group members by default, check the map layer's Visible checkbox.</p>
Visible	<p>Determines whether or not the map layer is visible on the map viewer.</p> <p>An administrator cannot set the Visible checkbox unless the Available checkbox is enabled. If the Visible checkbox is checked, the user group members can see that map layer by default.</p> <p> <b>Note:</b> This configuration defines the initial visibility setting for map users. Map users can customize their own map layer Visible attributes on the map Layers widget.</p>
Edit Permissions	<p>Determines whether or not specified user group members can edit the map layer.</p> <p>When an administrator checks the User link under the Edit Permissions column for a map layer, the administrator can assign individual edit permissions to the group users.</p> <p> <b>Note:</b> To enable Edit Permissions configuration, the administrator must enable the Create, Update, and Delete feature access operations on the ArcGIS server. On the ArcGIS server administration site, go to <b>Capabilities &gt; Feature Access &gt; Operations allowed</b>. Enable the Create, Delete, and Update operations.</p>

## Additional Settings

The **Additional Settings** page contains miscellaneous configuration settings that can be defined for the user group:

<b>Persist Map Status</b>	If enabled, product integration users will view the map with the same extent and the same layer visibility as that of their previous map session. This also allows map users to keep their last map view and layer settings when they
---------------------------	---

switch modules in Civic Platform. See [Persisting Map Views and Layer Settings](#).

If disabled, the map view will be reset with the default extent and default layer visibility. By default, Persist Map Status is disabled.

**Accela Parcel Layer Mapping**

Not currently used.

**Feature Count**

Sets the maximum feature count for retrieving XAPO GIS features. If not set, the default is 200.

---

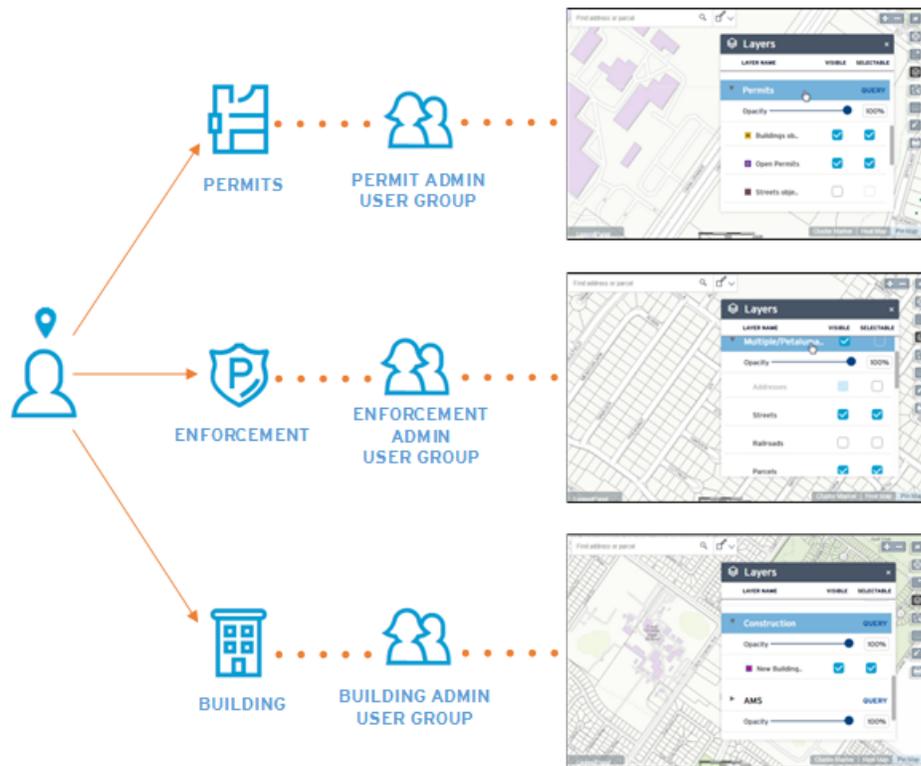
Other miscellaneous integration settings:

- **Service Area Drive** - This setting is available from the **Service Area Drive** option from the left navigation pane of the **Integration Settings** page. **Service Area Drive** defines the default drive time (in minutes) for the **Drive-Time Buffer Select** map command, which allows user to find GIS objects within the specified driving time originating from the selected map location. This setting requires ArcGIS Online.
- **Themes** - Currently, only the default map theme is used.

## Persisting Map Views and Layer Settings

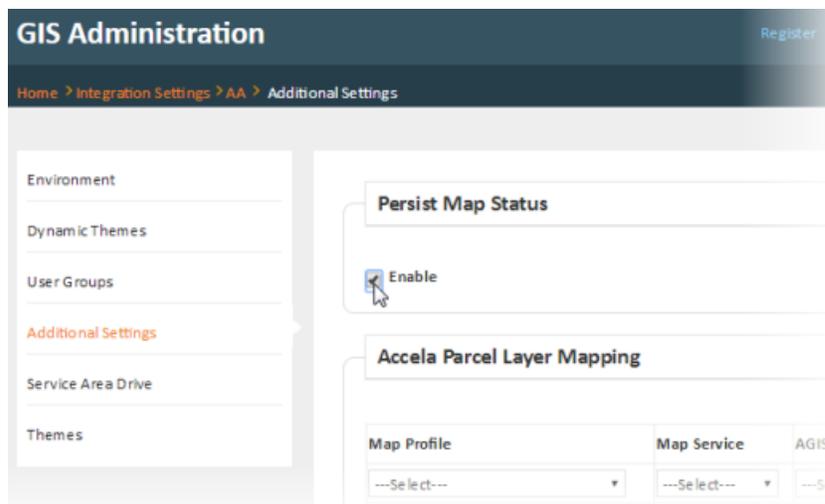
A user belonging to multiple Civic Platform user groups with access to different Civic Platform modules can see different map views based on the Accela GIS user group permissions. In Accela GIS Administration, a GIS user group is defined by leveraging Civic Platform user group memberships, and map layer permissions are assigned per GIS user group. Accela GIS 9.1.0 introduces the ability to persist a user's map view and layer settings across multiple Civic Platform modules.

In the following illustration, suppose a back-office user has access to the Permits, Enforcement, and Buildings Civic Platform modules, and respectively belongs to the Permits Admin, Enforcement Admin, and Buildings Admin user groups. In Accela GIS Administration, the Permits Admin, Enforcement Admin, and Buildings Admin user groups have been assigned their own map profile along with layer availability and visibility permissions. Since the user belongs to all three user groups, when he switches modules across Civic Platform, he sees the map view with only the visible layers that have been assigned to his user group for the appropriate module.



By default, a user's initial map view shows the map layers that have been assigned to the user group he belongs to. If your agency wants to allow the back-office staff to adjust and retain their own map view and settings, enable the **Map Persist Status** setting on the **Integration > {product} > Additional Settings** page on the Accela GIS Administration site.

The following shows a sample **Persist Map Status** setting for a Civic Platform integration:



If the **Persist Map Status** setting is enabled, a back-office user's last map view and layer **VISIBLE** and **SELECTABLE** settings on one module will be persisted when he switches back and forth across the

Permits, Enforcements, and Buildings modules. His initial map view in one module shows his last map view before he switched to a different module or before he logged off.

## Custom Widgets

A custom widget extends a map widget to provide custom features that meet specific map viewing and geospatial workflow requirements at your agency.

### Building Custom Widgets

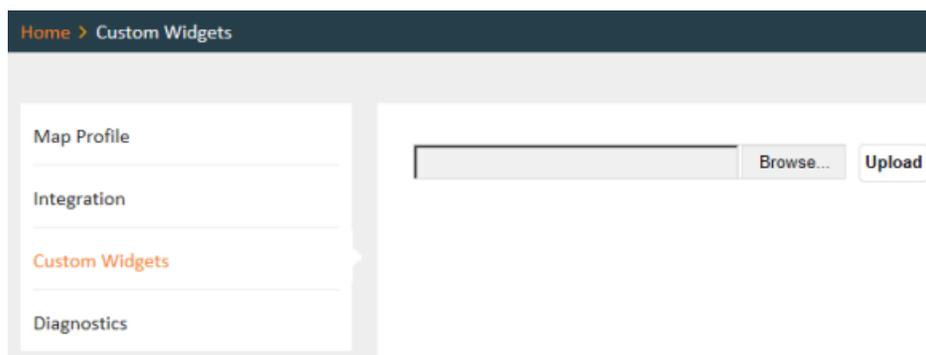
Accela GIS custom widgets must use the widget framework provided by ESRI's ArcGIS WebApp Builder. For details about how to develop a custom widget using the ArcGIS WebApp Builder, see [ArcGIS WebApp Builder Developer's Guide > Widget Development](#). For an overview about widgets, see [ArcGIS WebApp Builder Developer's Guide > Development overview](#).

For more information and an example about developing a Accela GIS custom widget, from the GIS Admin login page, go to **API Document > AGIS JavaScript API > Widget**.

### Deploying Custom Widgets

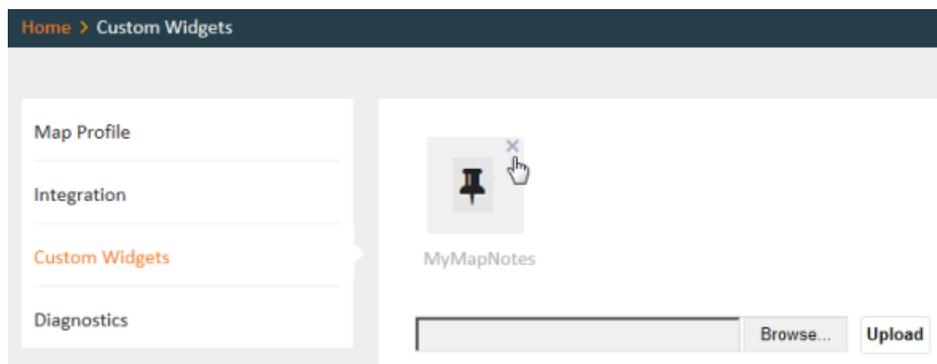
To deploy a custom widget on AGIS for a specific product integration:

1. Login to GIS Admin, select an integration, and click **Custom Widgets**:



2. Click **Browse** to select the custom widget zip file, and click **Upload**.

The following sample shows a custom widget named "MyMapNotes" which has been successfully deployed:

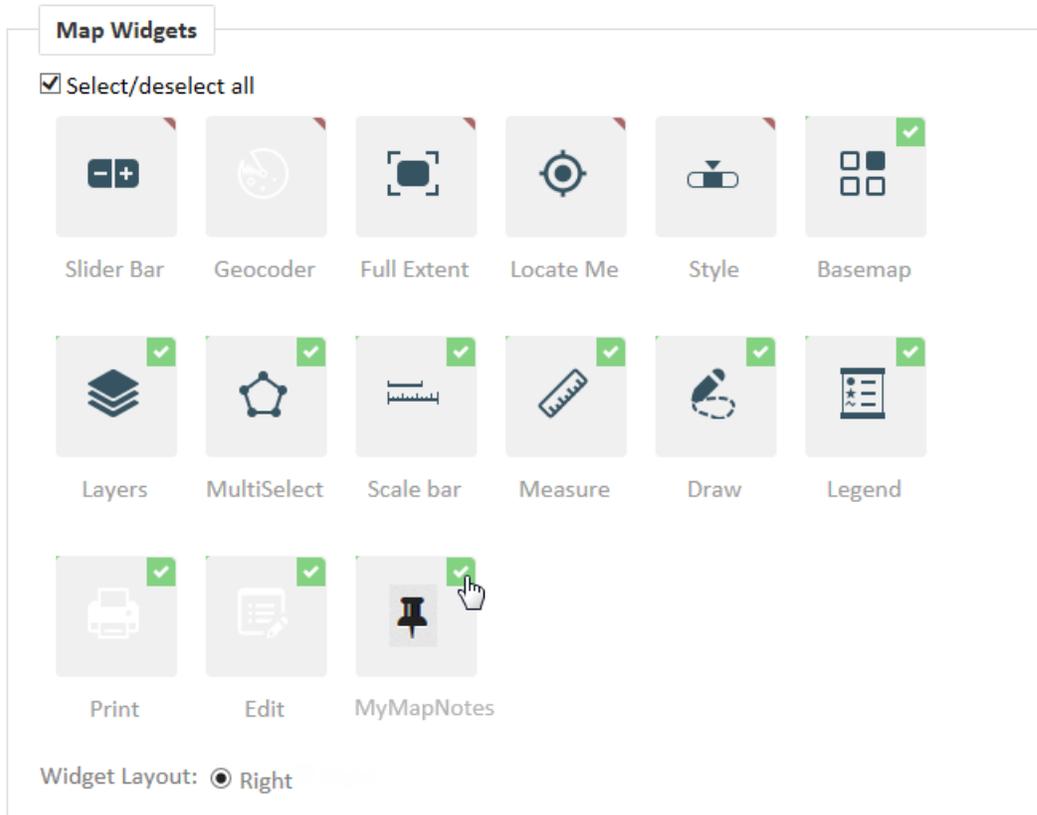


To delete a deployed custom widget, hover the mouse on the top-right corner of the custom widget icon, and click X.

## Enabling a Custom Widget

Deployed custom widgets can be enabled for user groups that have been configured for a product integration. After a custom widget has been deployed, it becomes one of the configurable Map Widgets on the **Integration > User Group** page.

The following diagram shows the Map Widgets section of a User Group page with a sample custom widget named “MyMapNotes”.



To enable the custom widget for the user group, hover the mouse on the top-right corner of the custom widget icon and click the checkbox. To disable the custom widget, clear the checkbox. Click Save to save any changes.

## XAPO Configuration for Accela GIS

Civic Platform can integrate with an external address, parcel, and owner (XAPO) data source. Accela GIS supports the mapping of reference object and custom fields between Civic Platform and an XAPO data source via the agency's map service. Accela GIS supports XAPO integration with map services provided by ArcGIS Server and ArcGIS Online.

The **XAPO Configuration** page on the GIS admin site allows an administrator to:

- Set the **Feature Count Limit** to control the maximum number of GIS records returned by an XAPO query. The default Feature Count Limit is 200.
  - 📄 **Note:** Setting the **Feature Count Limit** helps prevent users from submitting long-running query transactions. For example, if a user submits an address query on the XAPO data source which returns a large amount of data, the user is prompted to narrow the search criteria if the search results exceed the configured Feature Count Limit. When using a GIS REST API to query XAPO data, the API caller should submit the query with a narrower search criteria or set the **maxRows** page setting to a number less than the Feature Count Limit.
- Define the **XAPO Configuration** mapping of address, parcel, and owner data between Civic Platform and an XAPO data source.

Civic Platform standard choices also need to be configured to point the Civic Platform environment to the GIS (JavaScript version) data mappings. For details, see [Configuring XAPO in Civic Platform](#).

- 📄 **Note:** Users may get empty or incorrect XAPO results due to the pagination results from ArcGIS. To support pagination with ArcGIS, the agency must upgrade their GIS data store to Oracle 12c or SQL Server 2012. For details, see this [Esri Technical Article](#).

### Mapping XAPO fields to APO fields

1. Log into the GIS Administration site.
2. From the agency's home page, click **XAPO Configuration** on the left navigation pane.
3. On the **XAPO Configuration** pane, select the **Accela Reference Object**, either address, parcel, or owner.
4. Select the **Map Service** and **GIS Layer**. Your selected map service provides the XAPO data to be mapped to the Civic Platform APO object. After you select a **Map Service**, the **GIS Layer** drop-down list populates with all the related map layers.

- 📄 **Note:** Select the *same* **Map Service** across all Address, Parcel, and Owner objects.

5. For each of the object fields used in your agency's Civic Platform integration environment, select its corresponding GIS Layer field from your XAPO data source.

- 📄 **Note:** The **UID** field which is used as the object identifier must be mapped to the GIS layer's identifier field. The other Civic Platform fields can be mapped according to your agency's data requirements.

The following diagram shows a sample mapping of the Address fields (fields that are not mapped are not shown in the sample diagram for simplicity):

GIS Administration
Hi, qa@accela.com [Log](#)

Home > bptdev XAPO Configuration

Map Profile

---

Integration

---

XAPO Configuration

---

Custom Widgets

### Feature Count Limit

Feature Count Limit:  (Default 200)

### XAPO Configuration

Accela Reference Object:	Address ▼
Map Service:	Flagstaff_SDE ▼
GIS Layer:	XAPO_I18N ▼

Accela Reference Object Field	GIS Layer Field
UID*	parcelNumber ▼
XCoordinator	XCoordinator ▼
YCoordinator	YCoordinator ▼
addressDescription	addressDescription ▼
addressLine1	addressLine1 ▼
addressLine2	addressLine2 ▼
addressStatus	addressStatus ▼
addressTypeFlag	addressTypeFlag ▼
auditDate	auditDate ▼
auditID	auditID ▼
streetDistance	distance ▼

**Select an APO object.** →

**Select your XAPO data source.** →

**In this example, we are mapping the Address object to the Flagstaff Parcel XAPO data.**

**Select XAPO fields to map to the APO fields.** →

**In this example, Flagstaff's Parcel XAPO fields are mapped to the Address fields.**

6. After you are done with the Address object field mappings, click **Save**.
7. Repeat the above procedure for **Address**, **Parcel**, and **Owner** objects.



**Note:** Civic Platform standard choices also need to be configured to point the Civic Platform environment to the GIS (JavaScript version) data mappings. For details, see [Configuring XAPO in Civic Platform](#).

### Reference APO Object Fields

The following table lists the Civic Platform fields for each of the Accela reference objects (Address, Parcel, and Owner):

Reference Object	Reference Object Fields
Address	xCoordinator, yCoordinator, addressDescription, addressLine1, addressLine2, addressStatus, addressTypeFlag, auditDate, auditID, auditStatus, city, country, countryCode, county, distance, eventID, fullAddress, houseFractionEnd, houseFractionStart, houseNumberAlphaEnd, houseNumberAlphaStart, houseNumberEnd, houseNumberStart, inspectionDistrict, inspectionDistrictPrefix, levelPrefix, levelNumberStart, levelNumberEnd, lot, neighborhood, neighborhoodPrefix, primaryFlag, secondaryRoad, secondaryRoadNumber, sourceFlag, state, streetDirection, streetName, streetPrefix, streetSuffix, streetSuffixdirection, subdivision, unitEnd, unitStart, unitType, zip
Owner	UID, address, address1, address2, address3, auditDate, auditID, auditStatus, city, country, email, eventID, fax, faxCountryCode, isPrimary, ivrPinNumber, ivrUserNumber, mailAddress, mailAddress1, mailAddress2, mailAddress3, mailCity, mailCountry, mailState, mailZip, ownerFirstName, ownerFullName, ownerLastName, ownerMiddleName, ownerStatus, ownerTitle, phone, phoneCountryCode, sourceSeqNumber, state, taxID, zip
Parcel	UID, auditDate, auditID, auditStatus, block, book, censusTract, councilDistrict, eventID, exemptValue, improvedValue, inspectionDistrict, landValue, legalDesc, lot, mapNo, mapRef, page, parcel, parcelArea, parcelNumber, parcelStatus, primaryParcelFlag, planArea, range, section, sourceSeqNumber, subDivision, supervisorDistrict, township, tract

### Mapping XAPO fields to APO template fields

An address, parcel, or owner (APO) template is a collection of custom fields that can be added to APO reference data. For example, in addition to the standard Civic Platform reference address fields, your agency can collect additional agency-specific information that is associated with each reference address. As a GIS administrator, you can map the reference template fields to your agency's GIS map service fields to enable automatic retrieval of your agency's data into the custom fields.



**Note:** APO templates are configured in Civic Platform Classic Administration. To see the APO templates, login Civic Platform, and go to **Classic Administration > Admin Tools > Properties > APO Template**. Filter the list of APO templates by Attribute Type (either by ADDRESS, PARCEL, or OWNER). For details about how to configure an APO template and its custom fields, see *Civic Platform Administrator Guide > Land Management > Managing Property: APO > Maintaining APO Templates*.

#### To map your agency's GIS layer fields to the APO template fields:

1. Log into the GIS Administration site.
2. From the agency's home page, click **XAPO Configuration** on the left navigation pane.

3. On the **XAPO Configuration** pane, select the **Accela Reference Object**: either address, parcel, or owner.
4. Select the **Map Service** and **GIS Layer**. Your selected map service provides the XAPO data to be mapped to the Civic Platform APO object. When you select a **Map Service**, the **GIS Layer** drop-down list populates with the map layers from your selected map service.  
 **Note:** Select the *same* **Map Service** across all Address, Parcel, and Owner objects.
5. Click **Retrieve Template Fields**. When you click **Retrieve Template Fields**, Accela GIS fetches all enabled reference templates from Civic Platform for the selected object type, and lists each template's enabled custom fields.
6. For each of the custom fields used in your agency's Civic Platform integration environment, select its corresponding GIS Layer field from your XAPO data source.

The following diagram shows a sample mapping of the Address template custom fields:

**GIS Administration** Hi, qa@acc

Home > bptdev XAPO Configuration

Map Profile

Integration

**XAPO Configuration**

Custom Widgets

**Feature Count Limit**

Feature Count Limit:  (Default 200)

**XAPO Configuration**

Accela Reference Object:

Map Service:

GIS Layer:

Accela Reference Object Field      GIS Layer Field

**Retrieve Template Fields**

Accela Reference Template Field	GIS Layer Field
Address Created Date	<input type="text" value="DATE_"/>
Street ImprovedValue	<input type="text" value="improvedValue"/>
Street EventID	<input type="text" value="eventID"/>
Street Distance	<input type="text" value="distance"/>

Save      Cancel

**Select an APO object.**

**Select your XAPO data source.**

**In this example, we are mapping the Address object to the Flagstaff Parcel XAPO data.**

**Get the APO template fields from Civic Platform.**

**Select XAPO fields to map to the APO custom fields.**

**In this example, Flagstaff's Parcel XAPO fields are mapped to the Address custom fields.**

7. After you are done with the template custom field mappings, click **Save**.
8. Repeat the above procedure for **Address**, **Parcel**, and **Owner** objects.

Related topics:

- [Configuring XAPO in Civic Platform](#)

## **Appendices**

---

## Configuring Civic Platform

---

This appendix explains the additional configuration tasks performed in Civic Platform Administration to support GIS integration with Civic Platform:

- [Configuring Dynamic Themes in Civic Platform](#)
- [Configuring GIS Services in Civic Platform](#)
- [Configuring XAPO in Civic Platform](#)
- [Enabling the GIS REST API in Civic Platform](#)
- [Creating Attribute Mapping](#)

### Related information

- [Accela Civic Platform Configuration Guide](#) > APO and XAPO > Configuring and Enabling APO and XAPO Features

## Configuring GIS Services in Civic Platform

For a Civic Platform integration, GIS services need to be configured in Civic Platform administration.

### Topics

- [Adding a GIS Service](#)
- [Editing or Disabling a GIS Service](#)

### Adding a GIS Service

#### To add a GIS service

1. From Civic Platform, navigate to Classic Administration (or "AA Admin").
2. Select **Admin Tools** > **GIS** > **GIS Service**.  
Civic Platform displays the GIS Service - Search page.
3. Click the **Add** button.  
Civic Platform displays the GIS Service-Add page.

City of Metropolis

Menu | Favorites | Switch Agency | Help | Logout | Building

User ID: ADMIN

Admin Tools | Daily

Agency Profile | User Profile | Attachments | Application | People | Property | Fees | Inspection | Condition | Workflow | Calendar | Events | He

### GIS Service - Add

Use this form to add a GIS Service.

Service ID \* :

Service URL \* :

Portlet URL:

JavaScript API URL:

Default Map Service \* :  Yes  No

Save Cancel

4. Enter information as described in [GIS Service configuration fields in Civic Platform](#) below.
5. Click **Save**.  
Civic Platform returns you to the GIS Service-Search page.
6. If you want to check out the newly-added GIS service (e.g., Control\_Lines) in Civic Platform, do all of the following:
  - a. Log in to Civic Platform.
  - b. Click the **GIS** main link.
  - c. Select the GIS service you just added and click the **GIS** button.  
Civic Platform refreshes the GIS portlet to display the selected map.

## Editing or Disabling a GIS Service

You can edit the properties of a map service at any time. Items that you can edit include the service URL, the portlet URL, and the status of the map service. You should not edit the service URL unless you learn that the original URL changed. Otherwise, you may lose access to a particular map.

You can only disable a GIS service by changing its status, instead of deleting it. The status of the map decides if the map is available to users.

### To edit or disable a GIS service

1. From Civic Platform, navigate to Classic Administration (or "AA Admin").
2. Select **Admin Tools > GIS > GIS Service**.  
Civic Platform displays the GIS Service - Search page.
3. Enter the name of the map service you want to edit in the Service ID field and click **Submit**.  
If you do not know the name of the map service, click the **Submit** button to view all available map services.
4. On the Edit GIS Service page, modify the fields as appropriate. For field descriptions, see [GIS Service configuration fields in Civic Platform](#) below.

## GIS Service configuration fields in Civic Platform Classic Administration

Service ID	The map service identifier. Enter the same value exactly as you entered in the AA GIS Service ID field when defining a map integration environment for Civic Platform. See <a href="#">Integrating Your Environment</a> for more information.
Service URL	The URL that connects to the Accela GIS server (Silverlight version) that hosts the desired GIS service. Specify the web site URL entered during the Accela GIS server installation. For example:  <pre>http://myagency.host.com/agissl</pre> <p> <b>Note:</b> Your URL should begin with "http://" so you can successfully retrieve GIS attributes from the map service. If you publish the map service to Esri ArcGIS Server and the URL begins with "https://", you must import the Accela GIS server certificate into the Civic Platform biz server before using the map service in Civic Platform. See <a href="#">Importing the Accela GIS Server Certificate</a> for more information.</p>
Portlet URL	Leave this field blank.
JavaScript API URL	The URL that connects to the Accela GIS (JavaScript version) server. Specify web site URL entered during the Civic Platform Maps installation, and append /api to the URL. For example:  <pre>https://myagency.host.com/agisjs/api</pre> <p> <b>Note:</b> The URL for the Accela GIS (JavaScript version) server must use "https://". To support https connections, you must install the SSL certificate into the Maps server. See <a href="#">Requiring the Use of HTTPS</a> and <a href="#">Importing the Accela GIS Server Certificate</a> for more information.</p>
Default Map Service	Select Yes if you want this map service to be the default map service in Accela GIS. The default map service displays at the top of the GIS service drop-down list for GIS users.

## Configuring Dynamic Themes in Civic Platform

A dynamic theme is the result of a query that runs against your agency's Civic Platform application and applied to objects in the Accela GIS map viewer. As the information in your application changes, the results of these queries change correspondingly so that the maps accurately reflect the information in the application database. When configured with a product integration, user groups can see dynamic themes as part of the Layers widget on the map viewer.

You must create dynamic themes before you can assign them to user groups. When you define a dynamic theme, you can add or remove user parameters which allow users to add filter criteria to the query used in dynamic themes. Accela Silverlight GIS map viewer users can apply predefined user parameters to dynamic themes.

 **Note:** The Accela GIS (JavaScript version) 8.0.2 does not yet support user parameters in dynamic themes.

A user parameter is based on a predefined or "reference user parameter". An agency can create reference user parameters as templates for user parameters to be added to dynamic theme queries. Before you can add a user parameter to a dynamic theme, you must first create the reference user parameter.

### Topics

- [Creating a Dynamic Theme](#)
- [Editing a Dynamic Theme](#)
- [Creating Reference User Parameters](#)
- [Adding or Removing User Parameters for a Dynamic Theme](#)

## Creating a Dynamic Theme

To create a dynamic theme in Civic Platform

1. Navigate to Civic Platform.
2. Select **Admin Tools > GIS > Dynamic Theme**.

Civic Platform displays the **Dynamic Themes - Search** page.

3. Click the **Add** button.

Civic Platform displays the **Dynamic Themes - Add** page.

4. Complete these fields:

Theme Name	Enter a unique name for the dynamic theme. For example, enter "All Building Activities last 30 Days".
------------	---

Theme Group	Select the dynamic theme group to which you want to add the dynamic theme. Click the <b>Select</b> button to select an existing theme group or add a new theme group. Although not required, it is recommended to assign a theme group to help organize multiple dynamic themes as they appear on the list of map layers on the Layers widget.
Query	Enter an SQL query string in a language that is compliant with your agency's database.

---

**5.** Click the **Save** button.

Civic Platform saves the dynamic theme.

**Related topics:**

- [Retrieving and Configuring Dynamic Themes in Accela Silverlight GIS](#) - to configure dynamic themes for Accela Silverlight GIS
- [Retrieving and Configuring Dynamic Themes in Accela GIS \(JavaScript version\)](#) - to configure dynamic themes for Accela GIS (JavaScript version)

## Editing a Dynamic Theme

Civic Platform allows you to edit a dynamic theme. Possible values that you can edit include the theme group, the user parameters, the query, and the status of the query.

**To edit a dynamic theme**

1. Navigate to Civic Platform.
2. Select **Admin Tools > GIS > Dynamic Theme**.  
Civic Platform displays the Dynamic Themes - Search page.
3. Enter your search criteria in any of the following fields:

---

Theme Name	Enter the name of the dynamic theme you want to search for.
Theme Group Name	From the drop-down list, choose the group that contains the dynamic theme you are searching for.

---

**4.** Click the **Submit** button.

Civic Platform displays a list of all themes that match your search criteria.

**Dynamic Theme - Browse**

Use this form to edit Dynamic Theme  
(Click on the red dot below to select.)

Theme Name	Theme Group Name	Status
• All Building Activities in last 30 days2	Building Themes	Disabled
• All Building Activities last 30 Days	Building Themes	Enabled
• All Enforcement Activities last 30 days	Enforcement Themes	Disabled
• All Planning Activities last 180 days	Planning Themes	Disabled
• Code - Closed Activities last 30 days	Enforcement Themes	Disabled
• Enforcement Activities by Type and Status	Enforcement Themes	Disabled
• Enforcement Activities by Type and Status last 30 days	Enforcement Themes	Disabled
• Enforcement Activities by Type and Status last 60 days	Enforcement Themes	Disabled
• VAP - Closed Activities last 30 days	Enforcement Themes	Disabled

Search  
or  
Add  
New Dynamic Theme

- Click the red dot that appears next to the name of the dynamic theme you want to edit. Civic Platform displays the Dynamic Theme - Edit page.

**Dynamic Theme - Edit**

Use this form to edit Dynamic Theme.

Theme Name \* : All Building Activities last 30 Days

Theme Group: Building Themes Select User Parameters

Query \* :

```
SELECT distinct AGIS_OBJECT.GIS_ID, AGIS_OBJECT.GIS_TYPE_ID,
AGIS_OBJECT.GIS_SERVICE_ID, AGIS_OBJECT.OBJECT_ID, AGIS_OBJECT.REC_DATE,
AGIS_OBJECT.REC_FUL_NAM, AGIS_OBJECT.REC_STATUS,B1PERMIT.B1_APPL_STATUS
as LABEL_FIELD FROM AGIS_OBJECT, AGIS_OBJECT_ENT, B1PERMIT WHERE
AGIS_OBJECT.GIS_SERVICE_ID = 'AGIS_SACCO' AND AGIS_OBJECT_ENT.AGENCY='82'
AND AGIS_OBJECT_ENT.ENT_TYPE='APPLICATION' AND
AGIS_OBJECT_ENT.AGENCY=AGIS_OBJECT.AGENCY AND
AGIS_OBJECT_ENT.OBJECT_ID=AGIS_OBJECT.OBJECT_ID AND
AGIS_OBJECT_ENT.B1_PER_ID1=B1PERMIT.B1_PER_ID1 AND
AGIS_OBJECT_ENT.B1_PER_ID2=B1PERMIT.B1_PER_ID2 AND
```

Status \* :  Enable  Disable

Save Cancel

- Modify the fields as needed:

Theme Group	Click the <b>Select</b> button to select an existing theme group or add a new theme group.
Query	Update the SQL query as necessary.
Status	Click <b>Enable</b> or <b>Disable</b> to determine whether the dynamic theme is available for GIS use. When it is disabled, you cannot retrieve it from Civic Platform and apply it to your map service through the GIS Administration site.

- Click the **User Parameters** button to add reference user parameters to the dynamic theme.

**Note:** Accelea GIS (JavaScript version) 8.0.2 does not yet support user parameters in dynamic themes.

You can also directly enter an SQL Query string in a language that is compliant with your agency's database.

8. Click the **Save** button.

If there is a need to delete a dynamic theme, instead of deleting a dynamic theme, set its status to **Disabled** it so it remains in Civic Platform in case you want to use it at a later date.

**Related topics:**

- [Retrieving and Configuring Dynamic Themes in Accela Silverlight GIS](#) - to configure dynamic themes for Accela Silverlight GIS
- [Retrieving and Configuring Dynamic Themes in Accela GIS \(JavaScript version\)](#) - to configure dynamic themes for Accela GIS (JavaScript version)
- [Adding or Removing User Parameters for a Dynamic Theme](#) - to configure query user parameters. Currently only applies to Accela Silverlight GIS.

## Creating Reference User Parameters

A reference user parameter acts as a template user parameter that can be used by any dynamic theme. Before you can add user parameters to a dynamic theme, you must first create the reference user parameters.

**Topics**

- [Creating a Reference User Parameter](#)
- [Assigning Values to a User Parameter](#)

## Creating a Reference User Parameter

**To create a reference user parameter**

1. Navigate to Civic Platform.
2. Select **Admin Tools > GIS > Reference User Parameter**.  
Civic Platform displays the Reference User Parameter List page.

The screenshot shows the Sacramento County Civic Platform interface. At the top, there is a navigation bar with the Sacramento County logo, the text "Sacramento County", and a menu with options: Menu, Favorites, Switch Agency, Help, Logout, and Building. Below this, the user ID is "ADMIN" and there are tabs for "Admin Tools" and "Daily". The ACCELA AUTOMATION logo is also present. A secondary navigation bar contains buttons for Agency Profile, User Profile, Attachments, Application, People, Property, Fees, Inspection, Condition, Workflow, and Calendar.

The main content area is titled "Reference User Parameter List". It includes a "Menu" dropdown, "Search", "New", and "Help" buttons. Below this is a table with columns "Parameter Name", "Table", and "Field". The table contains the following data:

Parameter Name	Table	Field
App File ...	B1PERMIT	B1_FILE_DD
App File ...	B1PERMIT	B1_FILE_DD
Building ...	B3APO_ATT...	B1_ATTRIB...
Building ...	B3APO_ATT...	B1_ATTRIB...
Building ...	B1PERMIT	B1_PER_TYPE

Below the table is a "Reference User Parameter" section with a "Help" button. Underneath are tabs for "Details" and "Values". The "Values" tab is active, showing the following information:

Parameter Name: App File Date  
 Table: B1PERMIT  
 Field: B1\_FILE\_DD

Parameter Value	Display Order
'01/01/2007'	1
'07/01/2007'	2
'01/01/2006'	4
'07/01/2006'	5
'01/01/2005'	7
'07/01/2005'	8

3. Click the **New** button.

Civic Platform displays the **Reference User Parameter - Add** form.

4. Complete these fields:

Parameter Name	Enter the parameter's name.
Table	Enter the name of the table you want an SQL query to run against.
Field	Enter the field name in the table you want an SQL query to run against.

5. Click **Submit**.

Civic Platform adds the parameter to the list of existing parameters.

6. Add, edit, or remove parameter values as needed.

For more information, see [Assigning Values to a User Parameter](#).

## Assigning Values to a User Parameter

Assign possible filter values to each reference user parameter. For example, a Parcel Status parameter can have the values Pending, Disabled, and Enabled. When you add the Parcel Status parameter to a dynamic theme, GIS users can then select from these values to filter the dynamic theme results by parcel status.

### To assign values to a user parameter

1. Navigate to Civic Platform.

2. Select **Admin Tools > GIS > Reference User Parameter**.  
Civic Platform displays the **Reference User Parameter List** page.
3. Select a user parameter (you can search the user parameters).
4. Click the **Values** tab:

Parameter Value *	Display Order *
<input type="checkbox"/> '01/01/2007'	1
<input type="checkbox"/> '07/01/2007'	2
<input type="checkbox"/> '01/01/2006'	4
<input type="checkbox"/> '07/01/2006'	5
<input type="checkbox"/> '01/01/2005'	7
<input type="checkbox"/> '07/01/2005'	8

5. Click the **New** button.
6. On the **Reference User Parameter Value - Add** portlet, enter the value you want to query against in the Parameter Value field.
7. Click **Submit**.
8. On the **Display Order** column, enter the order in which you want the parameter to display.
9. Click **Save**.
10. If you want to delete any existing values, mark the check box next to each desired value and click the **Delete** button.

## Adding or Removing User Parameters for a Dynamic Theme

You can add pre-defined reference user parameters to the dynamic theme or remove parameters from it. These user parameters appear as options in the Accela GIS map viewer that allows users to use them as filter criteria for the dynamic theme results.



**Note:** Accela GIS (JavaScript version) 8.0.2 does not yet support user parameters in dynamic themes.

### To add or remove user parameters for a dynamic theme

1. Navigate to Civic Platform.
2. Select **Admin Tools > GIS > Dynamic Theme**.  
Civic Platform displays the Dynamic Themes - Search page.
3. On the **Dynamic Themes - Search** page, search for and select the dynamic theme that you want to edit.  
Civic Platform displays the **Dynamic Theme - Edit** page:

**Dynamic Theme - Edit**  
Use this form to edit Dynamic Theme.

**Theme Name \*** : All Building Activities last 30 Days

**Theme Group:** Building Themes **Select** **User Parameters**

**Query \*** :

```
SELECT distinct AGIS_OBJECT.GIS_ID, AGIS_OBJECT.GIS_TYPE_ID,
AGIS_OBJECT.GIS_SERVICE_ID, AGIS_OBJECT.OBJECT_ID, AGIS_OBJECT.REC_DATE,
AGIS_OBJECT.REC_FUL_NAM, AGIS_OBJECT.REC_STATUS,B1PERMIT.B1_APPL_STATUS
as LABEL_FIELD FROM AGIS_OBJECT, AGIS_OBJECT_ENT, B1PERMIT WHERE
AGIS_OBJECT.GIS_SERVICE_ID = 'AGIS_SACCO' AND AGIS_OBJECT_ENT.AGENCY='82'
AND AGIS_OBJECT_ENT.ENT_TYPE='APPLICATION' AND
AGIS_OBJECT_ENT.AGENCY=AGIS_OBJECT.AGENCY AND
AGIS_OBJECT_ENT.OBJECT_ID=AGIS_OBJECT.OBJECT_ID AND
AGIS_OBJECT_ENT.B1_PER_ID1=B1PERMIT.B1_PER_ID1 AND
AGIS_OBJECT_ENT.B1_PER_ID2=B1PERMIT.B1_PER_ID2 AND
```

**Status \*** :  Enable  Disable

**Save** **Cancel**

4. Click the **User Parameters** button.

Civic Platform displays the **Reference User Parameter - List** page.

**Dynamic Theme User Parameters**

**Menu** **Look Up** **Delete** **Help**

Theme Name: All Building Activities last 30 Days

Parameter	Table	Field
0 record(s) found.		

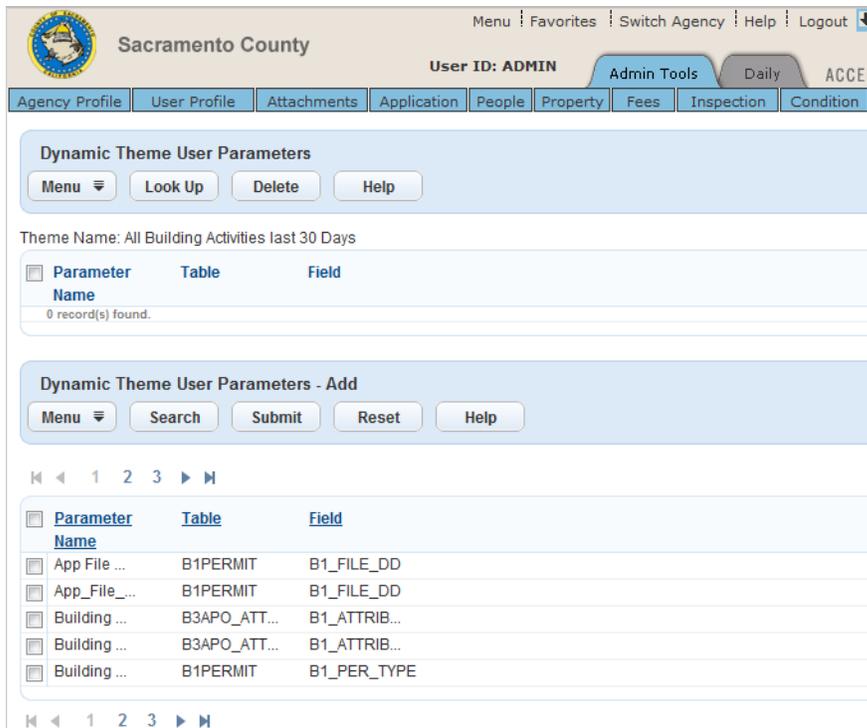
5. Click the **Look Up** button.

Civic Platform displays all pre-defined user parameters that you have not added yet in the **Dynamic Theme User Parameters - Add** portlet.



**Note:**

If there is no user parameter, you can create desired reference user parameters through the Reference User Parameter feature. See [Creating Reference User Parameters](#) for more information.



6. If the parameter list is long, search for the user parameter that you want to add to the dynamic theme.

a. Click the **Search** button.

Civic Platform displays the Reference User Parameters - Look Up portlet.

The screenshot shows the 'Reference User Parameter - Look Up' portlet. It has buttons for 'Submit', 'Reset', and 'Help'. Below the buttons are three input fields: 'Parameter Name:', 'Table:', and 'Field:'.

b. Complete any of the following fields:

Parameter Name	Enter the parameter name.
Table	Enter the name of the database table that the parameter runs against.
Field	Enter the field of the database table that the parameter runs against.

c. Click **Submit**.

Civic Platform displays the parameters that match your search criteria.

7. Mark the check box next to each parameter that you want to add.

8. Click **Submit**.

Civic Platform adds the parameter and refreshes the Dynamic Theme User Parameters list to reflect the addition.

9. If you want to remove any user parameter from the dynamic theme, mark the check box next to each desired parameter and click the **Delete** button.

Civic Platform removes the parameter and refreshes the Dynamic Theme User Parameters list to reflect the removal.

## Configuring XAPO in Civic Platform

By default, Civic Platform uses address, parcel, and owner (APO) data from a database included in the Civic Platform deployment. If your agency has a map service that provides APO data, your external APO (XAPO) data source can be integrated with Civic Platform via Accela GIS. This section describes how to configure Civic Platform to integrate to an XAPO data source via Accela GIS.

**To configure the XAPO standard choices in Civic Platform:**

1. Login **Civic Platform Classic Administration**.
2. Navigate to **Agency Profile > Standard Choices**.
3. On the **Standard Choices Item** search field, type "External" to look up the external APO standard choices.
  - If no standard choice records are found, click **Add** to create all of the following XAPO standard choices:
    - [EXTERNAL\\_ADDRESS\\_SOURCE](#)
    - [EXTERNAL\\_PARCEL\\_SOURCE](#)
    - [EXTERNAL\\_OWNER\\_SOURCE](#)
  - If the XAPO standard choices are already configured and need to be updated, click the red dot next to the standard choice to edit it.
4. Enter the appropriate values for each of the XAPO standard choices.
  - For Accela GIS (JavaScript version), see the [XAPO Standard Choice Values for Accela GIS \(JavaScript version\)](#).
  - For Accela Silverlight GIS, see the [XAPO Standard Choice Values for Accela Silverlight GIS](#).
5. **For Accela GIS (JavaScript version):** To enable the Accela GIS REST API for querying the XAPO data source, add the **USE\_GIS\_REST\_API** standard choice, and set the standard choice value to **Yes**.
  - 📄 **Note:** By default, Civic Platform uses the legacy SOAP-based XAPO API to execute XAPO queries. If your agency wants to use the REST API for Accela GIS, set **USE\_GIS\_REST\_API** to **Yes**.
6. Click **Save** or **Update** to save your changes.

### XAPO Standard Choice Values for Accela GIS (JavaScript version)

For Accela GIS (JavaScript version), the **SOURCE\_LOCATION** and **SOURCE\_REST\_API\_URL** values are required for the **EXTERNAL\_ADDRESS\_SOURCE**, **EXTERNAL\_PARCEL\_SOURCE**, and **EXTERNAL\_OWNER\_SOURCE** standard choices.

- 📄 **Note:** If your agency has already defined the Accela Silverlight GIS standard choice values for **EXTERNAL\_ADDRESS\_SOURCE**, **EXTERNAL\_PARCEL\_SOURCE**, and **EXTERNAL\_OWNER\_SOURCE**, you can keep them and simply add the **SOURCE\_REST\_API\_URL** standard choice value.

Table 21: Standard Choice Value for Accela GIS

Standard Choice Value	Value Description	Description
SOURCE_LOCATION	External	Set the SOURCE_LOCATION value to <b>External</b> for an XAPO data source.
SOURCE_REST_API_URL	http:// <host>/<agissl>	The source URL for the Accela GIS REST API. For example, https://agency.com/agissl

## XAPO Standard Choice Values for Accela Silverlight GIS

For Accela Silverlight GIS, the **SOURCE\_LOCATION** and **SOURCE\_URL** values are required for the EXTERNAL\_ADDRESS\_SOURCE, EXTERNAL\_PARCEL\_SOURCE, and EXTERNAL\_OWNER\_SOURCE standard choices. The rest of the standard choice values listed below are optional.

Table 22: EXTERNAL\_ADDRESS\_SOURCE Standard Choice Values for Accela Silverlight GIS

Standard Choice Value	Value Description	Description
SOURCE_LOCATION (Required for XAPO)	External	Set SOURCE_LOCATION to <b>External</b> for an XAPO data source.
SOURCE_URL (Required for XAPO)	http:// <host>/<agissl>/<xapo.asmx?wsdl>	The external APO source URL. For example, https://agency.com/agissl/xapo.asmx?WSDL
CAN_CONTAIN_PARCELS	Yes No	This value specifies whether the parcel information associated with the selected address can populate within the application. If you set the value description to Yes, the Parcel tab of the reference Address detail portlet can list all the parcels related to the address.
CAN_CONTAIN_OWNERS	Yes No	This value specifies whether the owner information associated with the selected address can populate within the application. If you set the value description to Yes, the Owner tab of the reference Address detail portlet can list all the owners related to the address. If you set the value description fields for CAN_CONTAIN_OWNERS and CAN_CONTAIN_PARCELS to Yes and you enable FID 8232 Get Parcel And Owner, Accela Automation exposes the Get Parcel & Owner button on the Address section of the application intake form.
SOURCE_ATTRIBUTES_MAPPING_ENABLE	Yes No	This value specifies whether the external APO data source handles the mapping between the address template attributes and the GIS map layer fields. When Civic Platform

Standard Choice Value	Value Description	Description
		uses Accela GIS as its external APO data source and each APO template attribute is mapped to a GIS map layer field, users can search for external APO data by template attribute.
SOURCE_AUTH_PWD	<webServiceAuthPassword>	This is the user password for accessing the web service.
SOURCE_AUTH_USER	<webServiceAuthUsername>	This is the user name for accessing the web service.
SOURCE_ID	<sourceId>	This unique value identifies the source in the code.
SOURCE_MAP_SERVICE_ID	<mapServiceId>	This value specifies the map service from which you want to retrieve geocoded addresses as external addresses. The mapServiceId must match the map service name configured in Accela Silverlight GIS Admin.
SOURCE_METHOD	Web Service	The APO source method to connect to the external source. Accela Automation only supports "Web service".
SOURCE_NAME	<xapoSourceName>	The name of the external source.
WEB_SERVICE_SSL_SUPPORTED	Yes No True False Default: Yes.	This value defines whether the web service needs SSL data transfer.
IS_XML_DATA	Yes No Default: No.	Specifies whether to use the XML data source.
XAPO_CLIENT_VERSION	7.2.3	7.2.3 stands for Accela Automation Version 7.2.0 Feature Pack 3. In 7.2.0 Feature Pack 3, Accela Automation added 5 address fields: House # Alpha (start), House # Alpha (end), Level Prefix, Level # (start), and Level # (end). You must define this Standard Choice value so users can search for addresses by the 5 address fields in the external APO source.

Table 23: EXTERNAL\_PARCEL\_SOURCE Standard Choice Values for Accela Silverlight GIS

Standard Choice Value	Value Description	Description
SOURCE_LOCATION (Required for XAPO)	External	Set SOURCE_LOCATION to <b>External</b> for an XAPO data source.
SOURCE_URL (Required for XAPO)	http:// <host>/<agissl>/<xapo.asmx? wsdl>	The external APO source URL. For example, https://agency.com/agissl/xapo.asmx?WSDL
CAN_CONTAIN_ADDRESSES	Yes No	This value specifies whether the address information associated with the selected parcel can populate within the application. If you set the value description to Yes, then the Address tab of the reference Parcel detail portlet lists all the addresses related to the parcel. If you set the value description fields for CAN_CONTAIN_ADDRESSES and CAN_CONTAIN_OWNERS to Yes and enable FID 8234 Get Address And Owner, Accela Automation exposes the Get Address & Owner button on the Parcel section of the application intake form.
CAN_CONTAIN_OWNERS	Yes No	This value specifies whether the owner information associated with the selected parcel can populate within the application. If you set the value description to Yes, then the Owner tab of the reference Parcel detail portlet lists all the owners related to the parcel.
SOURCE_MAP_SERVICE_ID	<mapServiceId>	This value specifies the map service from which you want to retrieve external parcels. The mapServiceId must match the map service name configured in Accela Silverlight GIS Admin.
SOURCE_ATTRIBUTES_MAPPING_ENABLE	Yes No	This value specifies whether the external APO data source handles the mapping between the parcel template attributes and the GIS map layer fields. When Accela Automation uses Accela GIS as its external APO data source and each APO template attribute is mapped to a GIS map layer field, users can search for external APO data by template attribute.
SOURCE_AUTH_PWD	<webServiceAuthPassword>	This is the user password for accessing the web service.

Standard Choice Value	Value Description	Description
SOURCE_AUTH_USER	<webServiceAuthUsername>	This is the user name for accessing the web service.
SOURCE_ID	<sourceId>	This unique value identifies the source in the code.
SOURCE_METHOD	Web Service	The APO source method to connect to the external source. Accela Automation only supports "Web Service".
SOURCE_NAME	<xapoSourceName>	The name of the external source.
WEB_SERVICE_SSL_SUPPORTED	Yes No True False Default: Yes	This value defines whether the web service needs SSL data transfer.
IS_XML_DATA	Yes No Default: No	Specifies whether to use the XML data source.

Table 24: EXTERNAL\_OWNER\_SOURCE Standard Choice Values for Accela Silverlight GIS

Standard Choice Value	Value Description	Description
SOURCE_LOCATION (Required for XAPO)	External	Set SOURCE_LOCATION to <b>External</b> for an XAPO data source.
SOURCE_URL (Required for XAPO)	http:// <host>/<agissl>/<xapo.asmx?wsdl>	The external APO source URL. For example, https://agency.com/agissl/xapo.asmx?WSDL
SOURCE_METHOD	Web Service	The APO source method to connect to the external source. Accela Automation only supports "Web Service".
SOURCE_NAME	<xapoSourceName>	The name of the external source.
WEB_SERVICE_SSL_SUPPORTED	Yes No True False Default: Yes.	This value defines whether the web service needs SSL data transfer.
IS_XML_DATA	Yes No Default: No.	Specifies whether to use the XML data source.

If your agency uses an external APO data source but not Accela GIS, a custom XAPO adapter can be written to integrate with Civic Platform. For Accela Silverlight GIS, a custom adapter can use the AGIS SOAP API methods to access the XAPO data source. For Accela GIS (JavaScript version), a custom adapter can use the Accela GIS REST API to access the XAPO data source.

Related documentation:

- *Accela Automation External APO Integration Guide* - for details about using the Accela GIS SOAP API
- *Accela GIS API Reference > XAPO* - for details about using the Accela GIS REST API

## Configuring Proximity Alerts in Civic Platform

Proximity alerts facilitate location-based notifications sent to users in their workflow processes. For example, an agency might want to create a proximity alert that checks whether a liquor store business application is within a certain distance of a school. When a proximity alert is defined in Civic Platform, the proximity alert can be added to a Civic Platform workflow process. Civic Platform internally calls either Accela GIS (JavaScript version) or Accela Silverlight GIS to retrieve the GIS data for proximity alerts.

By default, Civic Platform internally uses Accela Silverlight GIS' SOAP-based API to process GIS proximity alerts. Accela GIS (JavaScript version) provides an equivalent GIS REST API that supports proximity alerts. To enable Civic Platform to use the new GIS REST API instead of the legacy SOAP-based API, configure the following standard choice in Civic Platform Administration:

- **USE\_GIS\_REST\_API** - A new system switch which enables the usage of the Accela GIS (JavaScript version) REST API.

Add the following standard choice value:

Standard Choice Value	Value Description	Description
<b>Yes</b>	<b>Yes</b>	Uses the Accela GIS REST API to process GIS proximity alerts. The default value is <b>No</b> , which uses the legacy SOAP-based API.

To configure a proximity alert on Civic Platform, go to **Admin Tools > GIS > Proximity Alerts**, and enter values in the following fields:

Field	Description
Service	The GIS Service ID that has been configured on <b>Civic Platform Administration &gt; Admin Tools &gt; GIS Service</b> . The specified GIS Service must also be configured on the Accela GIS Admin Site.
Name	The name of the proximity alert. This name will be included in the list of proximity alerts when configuring workflow proximity alerts.
Description (optional)	A description of the proximity alert.
Alert Message	The message to be shown to the user when a workflow status change triggers a match in the proximity query.
Trigger	The proximity query to be triggered.
Distance	The proximity distance (in feet) to use in the query.
Layer	The map layer to query. The <b>Layer</b> name must be a valid map layer on the specified GIS <b>Service</b> .

For example:

### Proximity Alert - Edit

Use this form to Edit proximity alerts

**Service \*** :   
**Name \*** :   
**Description**:   
**Alert Message \*** :   
**Alert Message(Default) \*** : *A street is within 500 feet.*  
**Trigger \*** :    
**Distance \*** :  **(feet)**  
**Layer \*** :

## Enabling the GIS REST API in Civic Platform

By default, Civic Platform uses the legacy Accela SOAP GovXML interface to call the functions related to the following Civic Platform features:

- Proximity alerts
- GIS Master Scripts
- XAPO queries

The Accela GIS (JavaScript version) provides a REST API to replace the legacy SOAP API. To use the REST API, configure the **USE\_GIS\_REST\_API** standard choice item. The XAPO, proximity alert and GIS Master Scripts functionality should remain the same when the GIS REST API is used.

**USE\_GIS\_REST\_API** is a system switch that replaces the use of SOAP GovXML API with the GIS REST API that supports Accela GIS (JavaScript version). The **USE\_GIS\_REST\_API** standard choice values are as follows:

- **Yes**: Enables the usage of the Accela GIS REST API to perform the GIS-related Civic Platform features
- **No**: Uses the legacy Accela GIS SOAP GovXML API. This is the default behavior.

Related documentation:

- *Accela Automation External APO Integration Guide* - for details about using the Accela GIS SOAP API
- *Accela GIS API Reference* - for details about using the Accela GIS REST API

## Creating Attribute Mapping

This topic applies to Accela Silverlight GIS.

Associations between Accela GIS objects and application specific information fields can be created to extract information from map layer objects in Accela GIS and display it in Civic Platform. Certain application specific fields automatically populate with GIS object attribute values when a user adds an asset or a parcel that associates with the Accela GIS object to an application intake form or adds an associated GIS feature to the form. For example, if you create a mapping relationship between the Parcel Area field in Civic Platform and the area of the parcel in Accela GIS, the Parcel Area field automatically gets a value from the GIS object that represents a parcel when a user selects it from the GIS map viewer and adds it to the application intake form.

To establish attribute mapping with Accela GIS map layer objects, you must have FID 0182 enabled on your Civic Platform system.

### Topics

- [Searching for Attribute Mapping](#)
- [Creating Attribute Mapping](#)
- [Editing Attribute Mapping](#)
- [Deleting Attribute Mapping](#)

## Searching for Attribute Mapping

You can search for existing attribute mapping sets in order to verify which attributes are mapped, to edit them, or to delete unnecessary attribute mapping sets.

### To search for attribute mapping

1. From Civic Platform, navigate to Classic Administration (or "AA Admin").
2. Select the **Admin Tools > GIS > GIS Map Object Attribute Mapping** menu option. Civic Platform displays the GIS Map Object Attribute Mapping—Search page.

The screenshot shows the 'GIS Map Object Attribute Mapping - Search' page. At the top, there is a navigation bar with 'Menu', 'Favorites', 'Switch Agency', 'Help', and 'Logout' (with a user icon and 'AMS'). Below this, it says 'User ID: ADMIN' and 'Admin Tools' (selected), 'Daily', and 'ACCELA AUTOMATION®'. A horizontal menu contains: Agency Profile, User Profile, Attachments, Application, People, Property, Fees, Inspection, Condition, Workflow, Calendar, Events, Help, and GIS. The main heading is 'GIS Map Object Attribute Mapping - Search'. Below the heading is the instruction: 'Use this form to add or search for GIS map object attributes.' The form has three input fields: 'Mapping Set Name:' (text), 'Map Service:' (dropdown), and 'App Specific Info Group Code:' (text). Below the form are three buttons: 'Submit', 'or', and 'Add'. At the bottom of the form area is the text 'New Mapping Set'.

3. Enter any search criteria.  
For a list of field descriptions, see [Table 25: Attribute Mapping Field Details](#).
4. Click the **Submit** button.  
Civic Platform displays a list of attribute mapping sets that match your search criteria.

## Creating Attribute Mapping

You can create a mapping relationship where attributes of GIS objects on the various map layers are mapped to specific ASI fields.

### To create attribute mapping

1. From Civic Platform, navigate to Classic Administration (or "AA Admin").
2. Select the **Admin Tools > GIS > GIS Map Object Attribute Mapping** menu option. Civic Platform displays the GIS Map Object Attribute Mapping—Search page.
3. Click the **Add** button. Civic Platform displays the GIS Map Object Attribute Mapping—Add page.

4. Update the fields. For a list of field descriptions, see [Table 25: Attribute Mapping Field Details](#).
5. Click the **Submit** button. Civic Platform displays your new Attribute Mapping set on the GIS Map Object Attribute Mapping—Attribute List page.

GIS Map Object Attribute Mapping - Browse

Use this form to select or delete GIS map object attributes  
(Click the • below to select.)

Mapping Set Name	Map Service	App Specific Info Group Code	
<a href="#">AL01</a>	flagstaff	AL01	Delete
<a href="#">APN_ASI</a>	Sac_Bing	AGIS_ASI	Delete
<a href="#">JOHTEST</a>	Flagstaff_Mash	JOH	Delete
<a href="#">SWM_SO</a>	CFW_AGIS	SWM_SO	Delete
<a href="#">TEST</a>	flagstaff	SWM_WO_RO	Delete

or  
  
**New Mapping Set**

**Table 25: Attribute Mapping Field Details**

Mapping Set Name	Enter a name for the mapping set. Use a descriptive name that is specific to the mapping set.
Map Service	Use the drop-down menu to select the map service that contains the GIS map layer objects that you want to associate with the application specific information.
Map Layer	Enter the name of the map layer that contains the GIS objects.
Object Attribute	Enter the name of the object attribute field from which you want Civic Platform to get field values. For example, if you want Civic Platform to extract the area of a building, and if the GIS map layer object attribute was named AREA, you would enter AREA in this field.
App Specific Info Group Code	Use the drop-down menu to select the application specific information group code that you want to link to the GIS object.
App Specific Info Group Name	Use the drop-down menu to select the application specific information group name that you want to link to the GIS object.

---

App Specific Info Field	Use the drop-down menu to select the application specific information field that you want to be automatically populated by the attribute value of the GIS object.
-------------------------	---

---

## Editing Attribute Mapping

Attribute mapping sets may need to be updated to correct problems or to adapt to new procedures. Map layers, object attributes, application specific information group names, and application specific information fields may be changed. If you need to change the set name, map service, or application specific information group code, you should create a new attribute mapping set.

If application specific information is changed, the applications automatically populated with this information remains unchanged. New applications created and automatically populated with the application specific fields reflect the new changes.

### To edit attribute mapping

1. Locate the attribute mapping set you want to edit.  
For instructions, see [Searching for Attribute Mapping](#).
2. From the GIS Map Object Attribute Mapping—Attribute List page, click the red dot next to the attribute mapping set.  
Civic Platform displays the GIS Map Object Attribute Mapping—Edit page.

GIS Map Object Attribute Mapping - Attribute List

Use this form to edit or delete GIS map object attributes  
(Click the • below to select.)

Mapping Set Name: APN\_ASI  
Map Service: Sac\_Bing  
App Specific Info Group Code: AGIS\_ASI

Map Layer	Attribute Name	App Specific Info Group Name	App Specific Info Field	
<span style="color: red;">•</span> City_Parcels	STREET_NBR	ASI	<a href="#">Object ID_city parcel</a>	Delete
<span style="color: red;">•</span> Parcels	APN	ASI	<a href="#">APN</a>	Delete
<span style="color: red;">•</span> Street	OBJECTID	ASI	<a href="#">Object ID</a>	Delete

3. Update the fields as necessary.  
For a list of field descriptions, see [Table 25: Attribute Mapping Field Details](#).
4. Click the **Submit** button.  
Civic Platform saves your changes and displays the GIS Map Object Attribute Mapping—Attribute List page.

## Deleting Attribute Mapping

When you no longer need a certain attribute mapping set, you can delete it. Be certain that it is no longer necessary because once a mapping is deleted, you can only get it back by recreating it.

### To delete attribute mapping

1. Locate the attribute mapping set you want to delete.  
For instructions, see [Searching for Attribute Mapping](#).
2. From the GIS Map Object Attribute Mapping—Attribute List page, click the **Delete** button next to the attribute mapping set you want to delete.  
Civic Platform deletes the attribute mapping set.

## Securing Communications

This appendix explains how to secure communication between the Accela GIS client and server, and how to secure communication between the Accela GIS server and the ArcGIS server.

If your agency uses Microsoft Bing Maps, instead of the ArcGIS map services, there is no need for a specific configuration to secure connections between Accela GIS and Bing Maps because Bing Maps supports both SSL and non-SSL communication. If users access the Accela GIS map viewer through an HTTP URL, then the Accela GIS server retrieves HTTP images from Bing Maps. If users access Accela GIS through an HTTPS URL, then the server retrieves HTTPS images. However, Accela GIS only supports using Bing Maps geocoding and routing services through HTTP.

### Related Links

[Communication Security Overview](#)

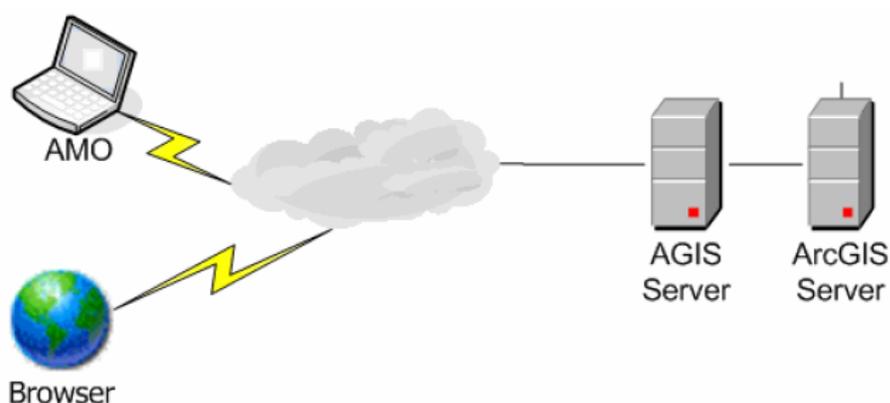
[Importing the Accela GIS Server Certificate](#)

[Requiring the Use of HTTPS](#)

## Communication Security Overview

If your agency is using Accela GIS in Citizen Access or Mobile Office, then your agency installs Accela GIS in a demilitarized zone (DMZ) on a separate machine than the ArcGIS server. It is likely that your agency installs Citizen Access or Mobile Office on the same machine as Accela GIS, and that machine is publicly accessible. However, if your agency is using Accela GIS in Civic Platform, then your agency installs Accela GIS in an Intranet zone on a separate machine than the ArcGIS server. A tier of communication exists between the Accela GIS client machine and the Accela GIS server, and another tier of communication exists between the Accela GIS and ArcGIS servers. See [Figure 7: Accela GIS Deployment](#) for the illustration that shows how an agency integrates the GIS system with Mobile Office.

There may be sensitive information or sensitive customer data that you want to protect on the machines. Accela recommends that you implement security for each tier of communication to protect sensitive data.



**Figure 7: Accela GIS Deployment**

### Topics

- [Securing Communication between the Accela GIS Client and Server](#)
- [Securing Communication between the ArcGIS and Accela GIS Servers](#)

## Securing Communication between the Accela GIS Client and Server

The Accela GIS server supports both secure (HTTPS) and insecure (HTTP) access from the Accela GIS client either by an Internet browser or an Accela application. You must follow these steps to secure communication between the Accela GIS client and server.

- Obtain an SSL certificate from a certificate authority and issue it to the Accela GIS web server. For more information about how to obtain a certificate, see <http://www.iis.net/learn/manage/configuring-security/how-to-set-up-ssl-on-iis>.
- Require the use of HTTPS for the Accela GIS server. See [Requiring the Use of HTTPS](#).
- Import an SSL certificate from the Accela GIS Server to the Civic Platform biz server. See [Importing the Accela GIS Server Certificate](#).

## Securing Communication between the ArcGIS and Accela GIS Servers

The Accela GIS server retrieves map services from the ArcGIS server. The communication between the Accela GIS and ArcGIS servers supports both anonymous and non-anonymous access. To ensure the security of sensitive information, you must disable anonymous access and choose an authentication method such as Integrated Windows Authentication or Digest Authentication. You must follow these steps to secure communication between the ArcGIS and Accela GIS servers.

- Obtain an SSL certificate from a certificate authority and install it on the ArcGIS server.
- Require the use of HTTPS for the ArcGIS server. For more information about how to obtain an SSL certificate and configure the use of HTTPS, see the [ArcGIS Server documentation](#) > Configure HTTPS on ArcGIS Server.

## Importing the Accela GIS Server Certificate

To ensure that Accela GIS functions properly in Civic Platform, you must import the SSL certificate from the Accela GIS server into the Civic Platform biz server. Follow the steps in this section to import the Accela GIS server certificate.

Before you import the Accela GIS server certificate, you must set up a Certificate Server on the machine which hosts the Accela GIS server. Make sure the Certificate Server issues the certificate to the Accela GIS server. And then verify whether the Issue to field on the General tab of the certificate indicates the same domain name with the service URL for a GIS map service in Civic Platform Classic Administration Tools.

### To import the Accela GIS server certificate

1. Export the Accela GIS certificate file in .cer format from IIS Manager or your browser.
  - To export the certificate from IIS Manager, do these tasks:
    1. In the Default Web Site Properties window, click the **Directory Security** tab.
    2. On the Directory Security tab, click the **View Certificate** button.
    3. In the Certificate dialog box, click the **Details** tab.
    4. In the Details tab, click **Copy to File...** to export the certificate in the format that you want.
  - To export the certificate from Internet Explorer, do these tasks:

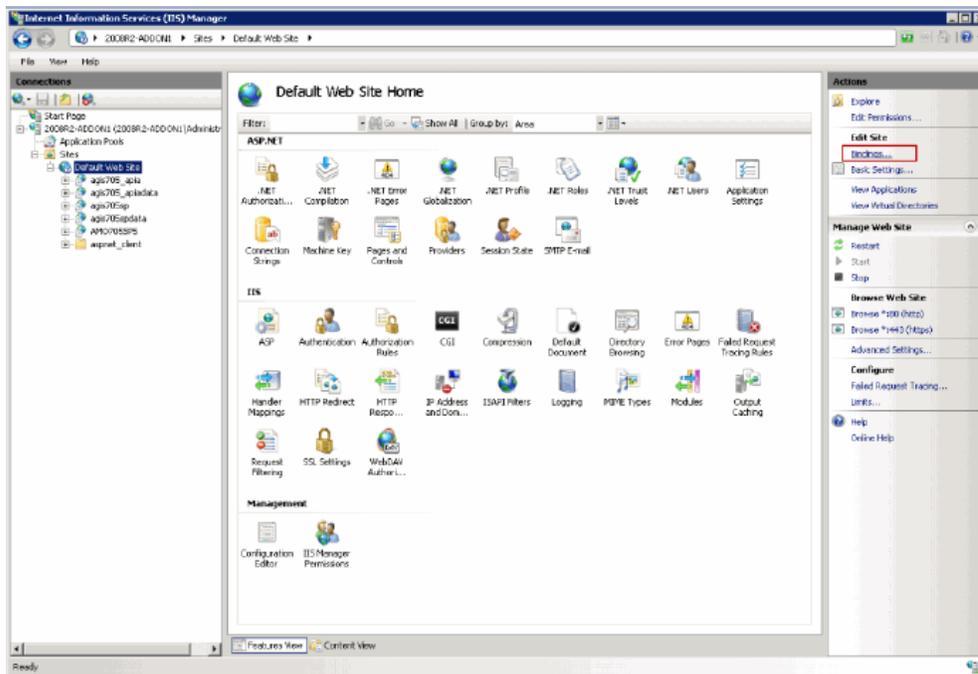
1. Open the SSL-enabled Accela GIS server.
  2. At the top of the address bar, click Certificate Error.
  3. In the Details tab of the certificate, click **Copy to File...** to export the certificate in the format that you want.
2. Log in to the Civic Platform biz server.
  3. Copy the certificate file to a directory on the biz server, such as E:\705IST\_MSSQL\_I18N\_BIZ.
  4. Open a command prompt window and then navigate to the certificate directory by typing in a command such as `cd/d E:\705IST_MSSQL_I18N_BIZ`.
  5. Call the batch script `av-env.cmd` in the certificate directory to set the environment by typing in a command such as `E:\705IST_MSSQL_I18N_BIZ\av.biz\bin\av-env.cmd`.  
In the script, you can set the `JAVA_HOME` and the `AA_AS_HOME` variables.
  6. Import the certificate by typing in the following command: `%JAVA_HOME%\bin\keytool -import -alias AGIS -file "AGIS.cer" -keystore "%AA_AS_HOME%\conf\certs\trusted_cacerts" -storepass "changeit"`.  
Be sure to replace "AGIS.cer" in the command string with the file name of your Accela GIS certificate.
  7. Enter "Y" when prompted to confirm.
  8. Restart the server.

## Requiring the Use of HTTPS

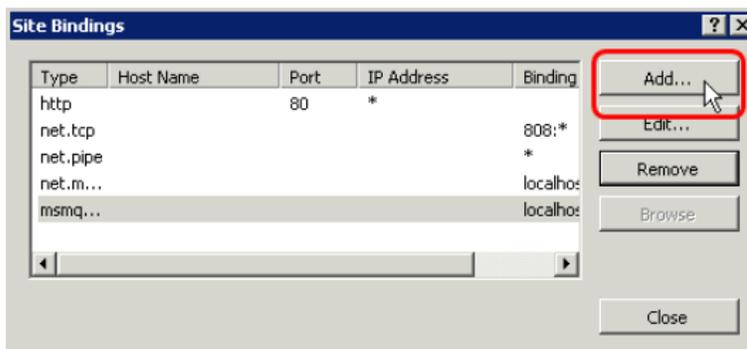
This section explains how to restrict the Accela GIS Administration site to HTTPS in IIS 7 or 8.

### To require the use of HTTPS in IIS 7 or 8

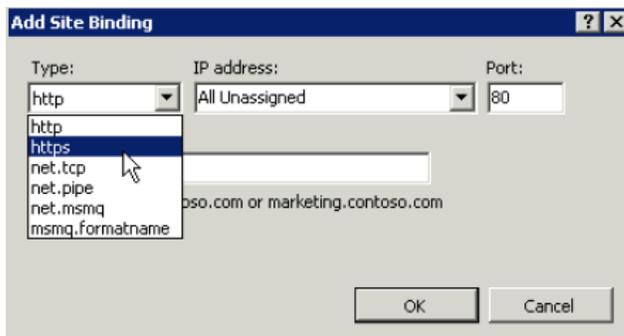
1. Open IIS Manager from the Accela GIS server.
2. Expand the **Web Sites** folder and expand the **Default Web Site** node.
3. Right-click the **Default Web Site** node.  
IIS Manager displays the corresponding available features and available actions.



4. In the Actions pane, click the **Bindings** link.  
IIS Manager displays the Site Bindings dialog box.

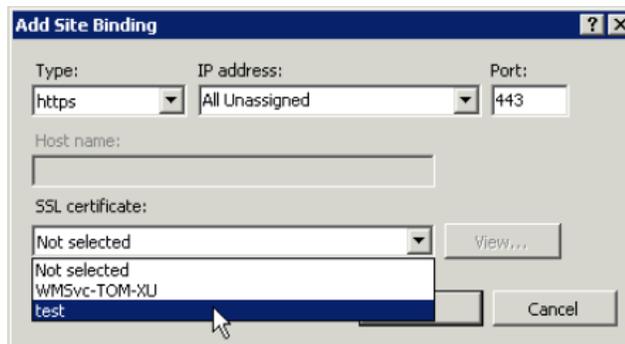


5. In the Site Bindings dialog box, click the **Add** button.  
IIS Manager displays the Add Site Binding dialog box.



6. In the Add Site Binding dialog box, complete these fields:

Type                      Select "https" from this drop-down list. Then IIS Manager refreshes and displays the Add Site Binding dialog box as follows:



IP addresses

Select "All Unassigned" from this drop-down list.

Port

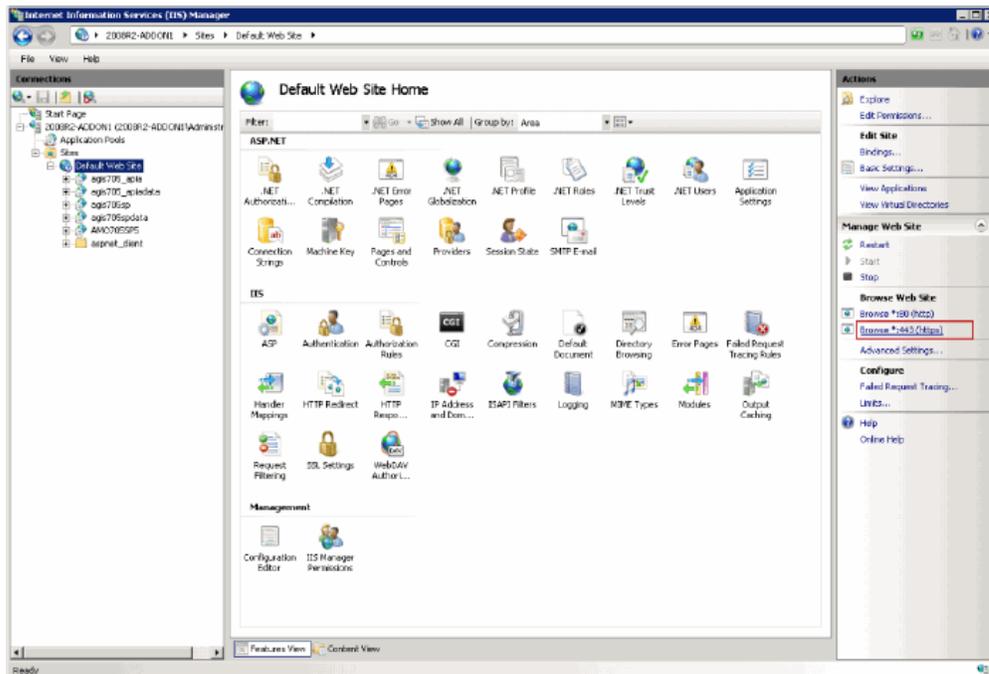
Enter any desired port number. By default, it is 443.

SSL certificate

Select the SSL certificate that you have obtained and installed from the certificate authority.

- Click the **OK** button to close the Site Bindings dialog box, and then click the **Close** button to close the Add Site Binding dialog box.

IIS Manager displays the Browse \*: 443 (https) link in the Browse Web Site area of the Actions pane.



## Application Pool Pipeline Mode in IIS Manager

---

After you install Accela GIS, set the managed pipeline mode of the Accela GIS Application Pool to **Integrated**.

To verify Application Pool pipeline mode:

1. Open Internet Information Service (IIS) Manager.
2. In the **Application Pools** panel, right-click the application pool you want to work with and click **Basic Settings** from the right-click menu.
3. Verify that the **Managed pipeline mode** drop-down list is set to **Integrated**.
4. Click **OK**.