

CREATE Spatial Portal USER'S GUIDE

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ABOUT

The Association of American Railroads (AAR) has engaged HNTB Corporation to develop and implement the CREATE Spatial Portal. The CREATE Spatial Portal is a Web-based solution designed to provide a secure and centralized access to the large amount of survey and mapping data acquired for the planned CREATE project areas. The CREATE Spatial Portal is accessible at www.createspatialportal.com.

The CREATE Spatial Portal will be designed to provide an organized and efficient means of storing and converting the data acquired from the CREATE data collection and conversion mapping efforts. Because a wide range of contractors, designers, consultants and great number of public and private partner agencies are using this information daily on-behalf of the CREATE Program; the need for secure and accessible web-based platform for this data is essential.

AAR has defined two project types as far as the specification of the available mapping for given projects. The two types are:

1. **A-1/Corridor** - A-1/Corridor projects are mapped with a limited data set including: track centerline, turnout POS-POF and PI, mileposts, wayside signals, signal bridges, RR bridge over roadway, roadway bridge over RR, storage tanks, at-grade roadway crossings, RR access roads, and property lines.
2. **A-3** - A-3 projects include a more extensive data set of the previous features plus walls, buildings, boxes, bungalows, and utilities.

In both project types, mapped features are identified within 100 ft of the nearest track. This mapping was primarily captured by both automated and manual extraction techniques from Light Detection and Ranging (LIDAR) data. More details regarding the source, accuracy and history of the individual data sets are included within the downloadable metadata documentation for each project.

The CREATE Spatial Portal is designed for optimal use with Microsoft Internet Explorer 6.0 or later; Mozilla Firefox 2.0.0.7 or later.

REQUEST AN ACCOUNT

If you need to request a User ID and Password, or if you have forgotten your user ID and/or password, begin by navigating to www.createspatialportal.com. All users must have a valid user account, registered with AAR to access the Portal.

Users can begin requesting access to the Portal by clicking on the **CREATE/Change Password** link.

Create/Change Password ←

Sign up for a new account

Continue

To setup a new account and request access to the Portal, click **CONTINUE**.

Sign up for a new account

While the CREATE Program has made an effort to provide accurate and complete information, due to changing circumstances and conditions, or other potential errors, before acting in reliance on data, maps and other information provided on this site you should undertake an effort to verify the same for accuracy and completeness.

Previous | Accept

Next, the user must agree with the CREATE Program disclaimer. In order to continue the process of registration, the user must click **I ACCEPT**.

User Information

First Name:

Last Name:

Company:

Title:

Address 1:

Address 2:

City:

State/Province:

Postal Code/Zip:

E-mail:

Phone:

Fax:

Purpose of Use:

List of Projects

- B1
- B2
- B3
- B4
- B5
- B6
- B8
- B9
- B12
- B13
- B15
- B16
- C1
- C2
- C3
- C4
- C5
- C6

Accessible Projects

>>>

>

<

<<<

Once the user accepts the disclaimer, the User must enter in user information and account information. When complete, the User clicks **CREATE USER**.

Project Requests: allows the user to designate which CREATE Project(s) the user needs access to. Please enter only the project numbers that require your access. The Authenticator has the ultimate decision on which projects a user will be granted access to.

Account Information

User Name:

The password must be 7 characters or longer.
Password must have at least one numeral (0,1,2,3,etc.)
and one special character (!,*,\$,etc.).

Password:

Confirm Password:

Security Question:

Security Answer:

User Name and Password: allows the user to decide a unique username and a password to use for accessing the CREATE Spatial Portal website. *In order to provide adequate security, the password must be seven characters or longer, have at least one numeral (0,1,2,3,etc.) and at least one special character (!,*,\$,etc.).*

Create User. This creates a notification for the CREATE Account Administrator. Once the account request is reviewed by the administrator, the User will receive an e-mail notice of when they are authorized and access to the Spatial Portal. In most cases, it is expected that the turn-around time for Authenticator approval will be within 48 hours.

INTRODUCTION

Once logged in, the User is presented with a map-driven user interface to provide access to the mapping resources for the CREATE Program. On the map are the CREATE project boundaries presented in a range of colors (grouped by project types); the project boundaries are also labeled by their respective CREATE project designation.

Chicago Region Environmental and Transportation Efficiency Program

CREATE
Spatial Portal

User: psegerstrom

Home | Data | Projects | Admin | Profile | Logout

Overview >>
Search >>
Search Results >>
Map Layers >>
Intro >>

Welcome to the CREATE Spatial Portal website. This site provides a secure and centralized resource to aid users in obtaining survey and mapping data for the CREATE program. AAR has defined two project types: A-1/Corridor and A-3.

A-1/Corridor projects are mapped with a limited data set including: track centerline, turnout POS-POF and P1, mileposts, wayside signals, signal bridges, RR bridge over roadway, roadway bridge over RR, storage tanks, at-grade roadway crossings, RR access roads, and property lines.

A-3 projects include a more extensive data set of the previous features plus walls, buildings, boxes, bungalows, and utilities. Features are identified within 100 ft of the nearest track where captured by lidar data.

HEADER

Chicago Region Environmental and Transportation Efficiency Program

CREATE
Spatial Portal

User: psegerstrom

Home | Data | Projects | Admin | Profile | Logout

1. Application logo.
2. Users must be logged into the application to access the Spatial Portal. The user name is displayed here at all times during the use of the Portal.
3. Navigation bar – collection of tools for interacting with the interactive map portion of the Portal.
4. Frame navigation – collection of links to guide the user to different frames of the Portal.
 - Data – navigates the user to the data access frame
 - Projects – provides the user with a comprehensive list and descriptions for the CREATE projects
 - Admin – (user restricted); navigates authorized users to the Portal management tools
 - Profile – contact information (name, address, etc.) for the current user.
 - Logout – user clicks to exit out of the Portal.

MAP NAVIGATION TOOLS



Zoom In: zoom in to the map by clicking on or dragging a box on the map



Zoom Out: zoom out of the map by clicking on or dragging a box on the map



Pan: pan around the map by clicking a dragging the map image



Zoom to Full Extent: click to automatically zoom to the full extent of the map



Identify: click button, then click map element provides descriptive information about the item.



Select Project(s): select CREATE Projects by dragging a box; will present results in the Search Results window



Measure: click to be presented with a dialog box for choosing measurement options. Measurements can be done at a point, for a linear distance and for an area. Pressing ESC will clear the measurement graphics that have been drawn on the map.



Magnify: click to be presented with a dialog box to see a close-up of given area. User can move the magnified area to anywhere on the interactive map frame.

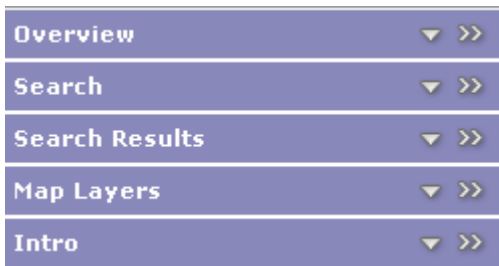


Print: click to develop a printable layout of map



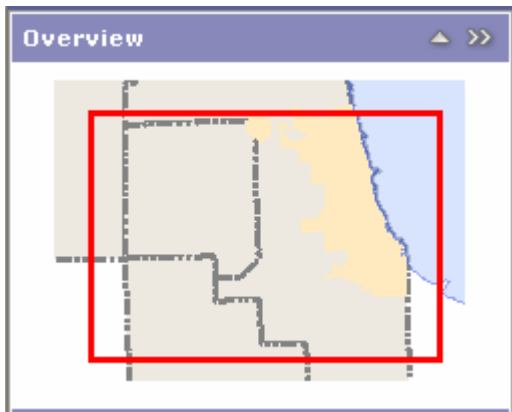
Extract Data: click to download data in the map extents. This feature is not available for all users.

FUNCTION PANELS



The Function panels provides access to various features of the CREATE Spatial Portal including

- **Overview** offers an overview of the map.
- **Search** allows users to search different criteria.
- **Search Results** displays the results of a user's search.
- **Map Layers** allows users to turn a layer on and off.
- **Intro** text explaining the basics of the website.



Overview shows an overview of the map. This map is updated every time the user moves around the map. The user can also control the map by panning around on the Overview map.

Search ▲ >>

Project Boundaries ▲

Project Type
A-1 ▼ GO

Project Corridor
Beltway ▼ GO

Project Name
B1 ▼ GO

Flight ▲

Flight Path
▼ GO

Railroads ▲

Railroad Company
BNSF ▼ GO

Municipal Boundaries ▲

Find all projects that are within or cross the boundary of:
Alsip ▼ GO

Search allows users to perform attribute searches. Users can search and find matching projects using any of the following criteria:

- Project Type
- Project Corridor
- Project Name
- Flight
- Railroad
- Municipal Boundaries

Search Results ▲ >>

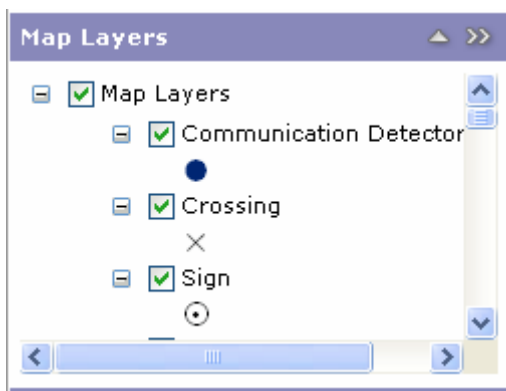
Project(s)

Central	C1	Sel Map Data
Central	C10	Sel Map Data
Central	C11	Sel Map Data
Central	C12	Sel Map Data
Central	C2	Sel Map Data
Central	C3	Sel Map Data
Central	C4	Sel Map Data
Central	C5	Sel Map Data
Central	C6	Sel Map Data
Central	C8	Sel Map Data
Central	C9	Sel Map Data

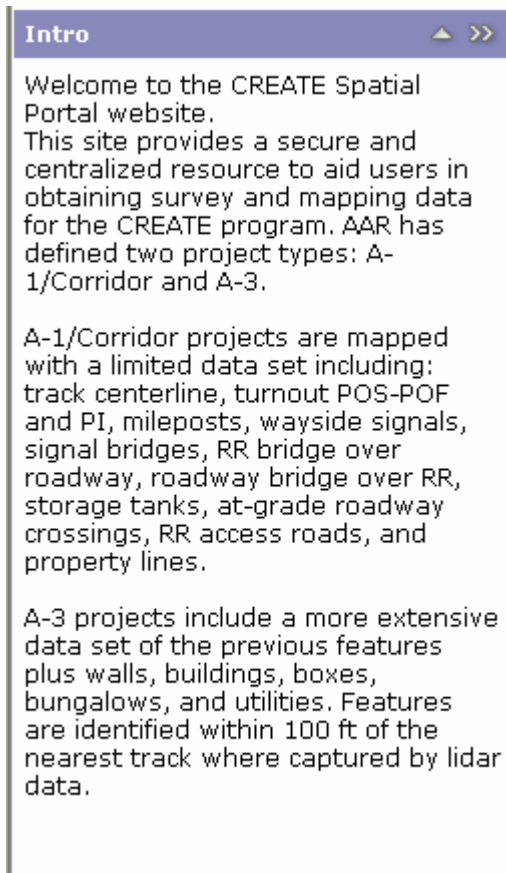
Search Results displays results from a user search.

Search Results has three links:

- **Sel** selects the project on the map and zooms to the extent of the project.
- **Map** zooms to the extent of the project.
- **Data** redirects the user to the Data page that then displays related data.



Map Layers provides access to the layers and symbology that make up the map. Layers can be turned on and off.



Intro provides user with a summary of the use and purpose for the CREATE Spatial Portal.

DATA DOWNLOAD AND ORDER

Data download provides a way for users to download CREATE project data into various formats. For example, a contractor who needs the property boundary shapefile for a project would download the property boundary shapefile to their local computer. An engineer who needs the property boundary shapefile, but would like to receive it in CAD format, would select the property boundary layer, select CAD as the output format, and then proceed to download the property boundary CAD file to their computer.

Data Available Directly Through Download

Select which groups of data you wish to download. You may select up to 400 MB in a single download.

	Project	File	File Contents	Size
<input type="button" value="Download"/>	B1	Documentation		3.0 MB
	B1	Documentation	A-3 Control Points Final Coord-Elev-Scale.pdf	
	B1	Documentation	CREATEDataGuide.pdf	
	B1	Documentation	Data_Dictionary.pdf	
	B1	Documentation	FMEWorkspace.fmw	
	B1	Documentation	FMEWorkspace.PDF	
	B1	Documentation	ReferenceMosaicMSV8.pdf	
<input type="button" value="Download"/>	B1	MicroStation		16.0 MB
	B1	MicroStation	B1_extopo.dgn	
	B1	MicroStation	B1_Property.dgn	
	B1	MicroStation	GroundControl.dgn	
<input type="button" value="Download"/>	B1	ShapeFiles		486 KB
	B1	ShapeFiles	B1_PGON.shp	
	B1	ShapeFiles	B1_PLINE.shp	
	B1	ShapeFiles	B1_POINT.shp	
	B1	ShapeFiles	B1_Property.shp	
	B1	ShapeFiles	GroundControlPoints.shp	

Data Available By Order Only

Available Mosaic Images
 Select all Mosaic Images for project
 16 Mosaic Images found. 48 related files totaling an estimated 241 MB.
[Details](#)

Available Video
 Select all Video files for project
 296 Videos found. 296 related files totaling an estimated 38662 MB.
[Details](#)

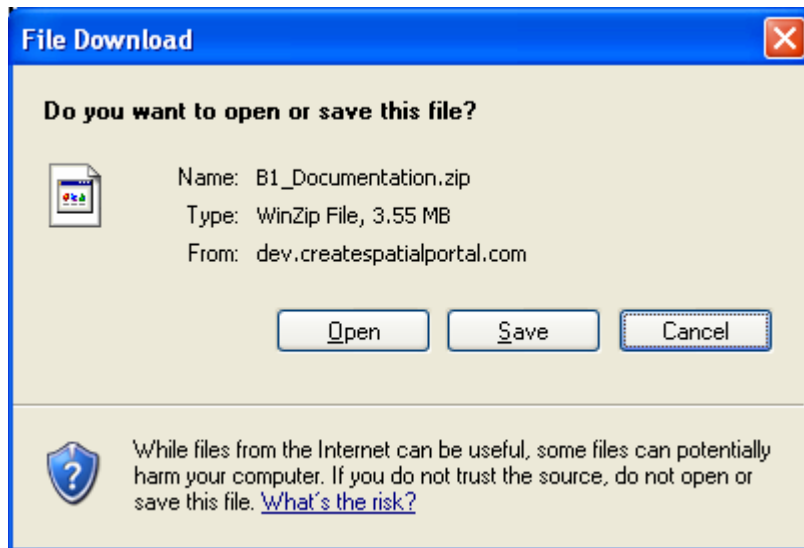
Available Still Images
 Select all Still Images for project
 66870 Still Images found. 133740 related files totaling an estimated 42798 MB.
[Details](#)

Available Lidar Files
 Select all Lidar files for project
 262 Lidar Files found. 535 related files totaling an estimated 1990 MB.
[Details](#)

DATA AVAILABLE DIRECTLY THROUGH DOWNLOAD

Data can be downloaded for one project at a time. Click the **DOWNLOAD** button to download the data for a particular file type. Data is downloaded in Zip format and you will be prompted to choose a location on your computer to save the zip file to.

	Project	File	File Contents	Size
<input type="button" value="Download"/>	B1	Documentation		3.0 MB
	B1	Documentation	A-3 Control Points Final Coord-Elev-Scale.pdf	
	B1	Documentation	CREATEDataGuide.pdf	
	B1	Documentation	Data_Dictionary.pdf	
	B1	Documentation	FMEWorkspace.fmw	
	B1	Documentation	FMEWorkspace.PDF	
	B1	Documentation	ReferenceMosaicMSV8.pdf	



DATA AVAILABLE BY ORDER ONLY

Some data, such as mosaic images, is only available through ordering. To do this, select which groups of data you are interested in and click ORDER DATA.

Data Available By Order Only

Available Mosaic Images
Select all Mosaic Images for project
 16 Mosaic Images found. 48 related files totaling an estimated 241 MB.
[Details](#)

Available Video
Select all Video files for project
 296 Videos found. 296 related files totaling an estimated 38662 MB.
[Details](#)

Available Still Images
Select all Still Images for project
 66870 Still Images found. 133740 related files totaling an estimated 42798 MB.
[Details](#)

Available Lidar Files
Select all Lidar files for project
 262 Lidar Files found. 535 related files totaling an estimated 1990 MB.
[Details](#)

A window will appear displaying a summary of requested data including the number of files and total size of request in megabytes. Also displayed is the address the data will be sent to. This is the address you established when you registered on the site. Click ORDER FILES to order your data.

You have requested the following files

B1: Mosaic Images. (116 Mosaic Images. 48 total files. Estimated size 241 MB.)

48 Total files.
241 Total size in megabytes.

The requested data will be compiled onto DVD and sent to the following address:

**Paul Segerstrom1
HNTB
111 n canal
1250
chicago IL, 60606**

Click **Order Files** to request files.

**Your order is being processed.
You should receive an email shortly with a summary of the requested data.
Thank you.**

A confirmation window will appear telling you that your order is being processed. You will also receive a confirmation email summarizing your data request. The site Administrator will review your order and determine what can/cannot be sent to you. Completed orders will be sent to the user on a CD or DVD.

MAP EXTRACTION (AUTHORIZED USERS ONLY)

Map Extract allows users to download data within the current map extent to a format of their choice. This is accessed by clicking the **DOWNLOAD EXTENT** button.

NOTE! This feature is not available for all users.



The user will be redirected to a new page.

Select Layer:

CREATE:

- BREAKLINE
- CR_BRIDGE
- CR_COMMUNICATION_DETECTOR
- CR_COMMUNICATION_FACILITY
- CR_CROSSING
- CR_CROSSING_AREA
- CR_FENCE
- CR_OBSCURE_AREA
- CR_PROJECT_BOUNDARY
- CR_PROPERTY

← Select which layers you want.

Format:

AutoCAD DWF

← Select data format.

Order Data

Click **ORDER DATA** when ready. You will then be prompted to select a location on your computer to save the zip file containing the transformed data. Select a location and click save.

USER ADMINISTRATION TOOLS

LOGIN ADMINISTRATION FOR USERS

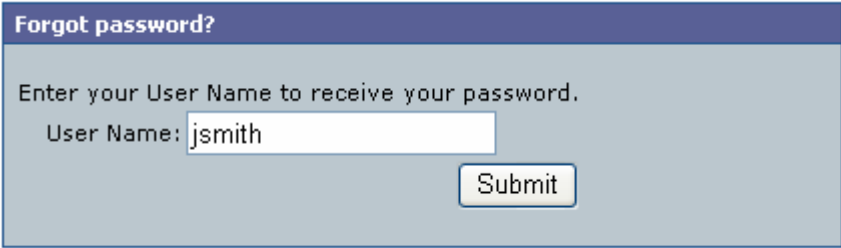
You must have a valid user account to log-in. Users will remain logged in until their session times out (after 30 minutes of no activity). In the case of session time-out, a user will be required to log in again in order to proceed with using the Spatial Portal.



The 'Existing Users Sign In' form has a blue header. Below the header, the text 'Log In' is centered. There are two input fields: 'User Name:' followed by a text box, and 'Password:' followed by a text box. Below these is a checkbox labeled 'Remember me next time.' and a 'Log In' button.

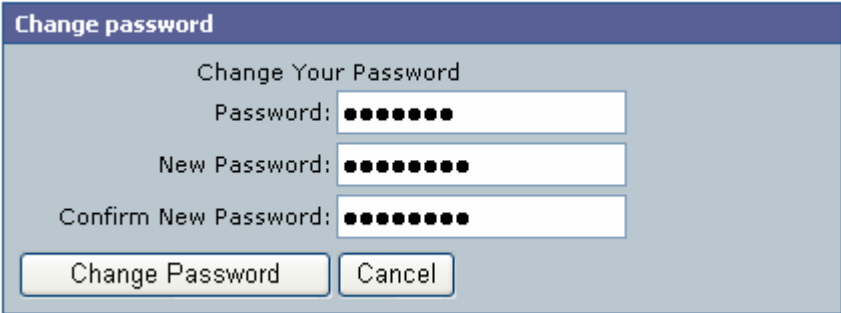
Create/Change Password ←

To retrieve a forgotten password, enter User Name and click SUBMIT. A reminder e-mail will be sent to the e-mail address that has been registered with the given User Name.



The 'Forgot password?' form has a blue header. Below the header, the text 'Enter your User Name to receive your password.' is displayed. There is a 'User Name:' label followed by a text box containing 'jsmith'. A 'Submit' button is located to the right of the text box.

To change your password, use the form to enter the current password and propose a new one.



The 'Change password' form has a blue header. Below the header, the text 'Change Your Password' is centered. There are three input fields: 'Password:' followed by a masked text box, 'New Password:' followed by a masked text box, and 'Confirm New Password:' followed by a masked text box. At the bottom, there are two buttons: 'Change Password' and 'Cancel'.

LOGIN ADMINISTRATION FOR ADMIN (AUTHORIZED USERS ONLY)

Users who register with the site must first be approved by an Authenticator. The Authenticator is responsible for assigning new users to a User Role. Even after registering, users will not have access to the site until approved by the Authenticator. In most cases, it is expected that the turn-around time for Authenticator approval will be within 48 hours.

All user access approval must be handled through the administrative page of the Spatial Portal website. Because of this, the Authenticator will be required to log in to the administrative page of the Spatial Portal website in order to approve/disapprove any new users.

mb / mb@yahoo.com
Summary View

[Delete member](#)

User Name
mb [change](#)

Email Address
mb@yahoo.com [change](#)

Roles
Level 3 [change](#) ← Select access **role** for user (Level 2, Level 3 or Level 4)

Status
 ← **Lock/Unlock** a User. Users can become locked out if they use a wrong password too many times.

Approved [Disapprove](#) ← **Approve/Disapprove** a user. When a user is approved, an email is automatically sent to them notifying them that they have been approved to use the CREATE Spatial Portal.

Created 10/9/2007
Not Locked Out

Activity
Last Login 10/9/2007
Last Activity 10/9/2007

Password
Password ***** (Encrypted) [change](#)
Last Changed 10/9/2007 10:20:41 AM
Failed password attempts 2

CONTACT INFO

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