

ENTERPRISE PNC INFORMATION COLLECTION

Central Office of Design - Surveying and Mapping Office

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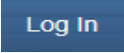
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Access and Logging In

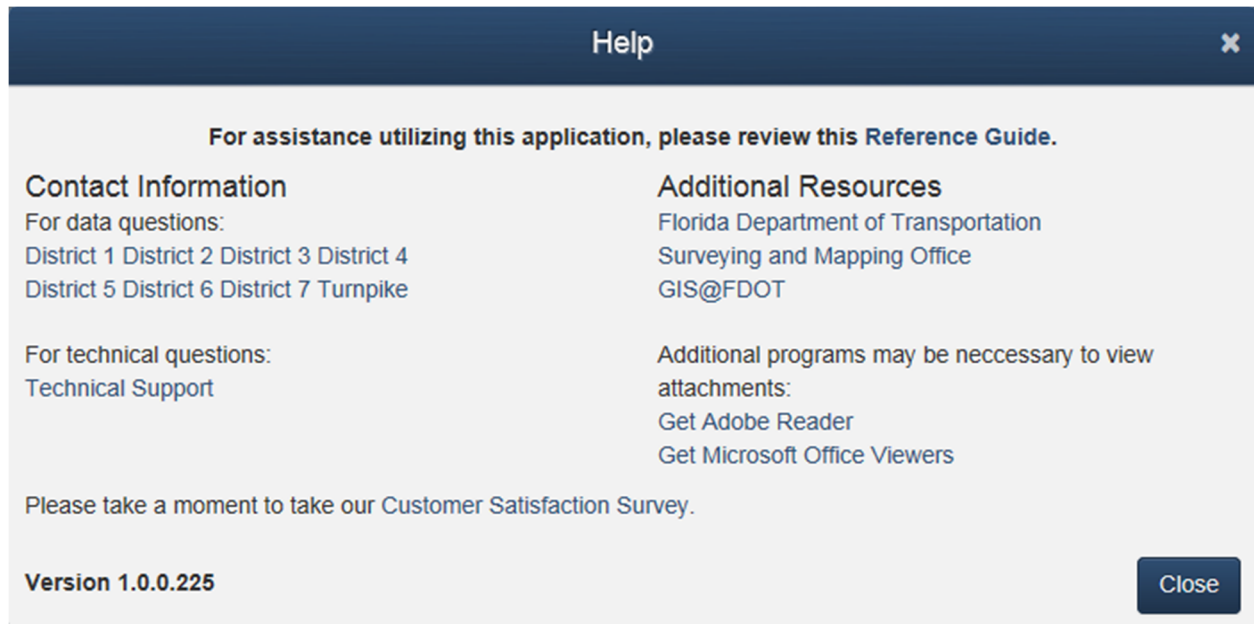
Accessing Epic

EPIC can be found on the FDOT internet site by navigating to the Maps and Data page. When on the Maps and Data page a link to EPIC can be found under Applications and Tools. Please bookmark EPIC on your browser for quick access.

To Log In

Once the application is open, the  button can be located on the top right. Once selected a popup window will appear. FDOT RACF credentials are required to login.

Help Window



Help ×

For assistance utilizing this application, please review this Reference Guide.

Contact Information For data questions: District 1 District 2 District 3 District 4 District 5 District 6 District 7 Turnpike	Additional Resources Florida Department of Transportation Surveying and Mapping Office GIS@FDOT
For technical questions: Technical Support	Additional programs may be necessary to view attachments: Get Adobe Reader Get Microsoft Office Viewers

Please take a moment to take our Customer Satisfaction Survey.

Version 1.0.0.225 Close

The help window is a page where users can find information about EPIC and other resources. This page contains a Reference Guide, contact information and other helpful links.

Map Navigation



Zoom Buttons

The zoom button is located on the upper left of the screen and can be used when on mobile or desktop. The mouse wheel can also be used for zooming in and out.

Layers

The layers will appear on the map only when zoomed in to a scale near the county level. When zoomed in further labels on the points will appear. A legend will also appear that the bottom right when the layers are visible.

Measure Tool

The Measure Tool  allows the user to determine distances from features on background maps to control points. Clicking on the *Pencil Icon* in the upper left-hand corner of the screen will start the measuring process. Measurement units can be changed selecting from the drop down list that appears next to the icon. Measurements can be made as a single line or as a polyline with a distance displayed for each line segment. To delete the line click the *Trashcan Icon*  in the upper right-hand corner of the screen.




Legend

The legend will appear in the bottom right once zoomed to the level that shows the data on map.

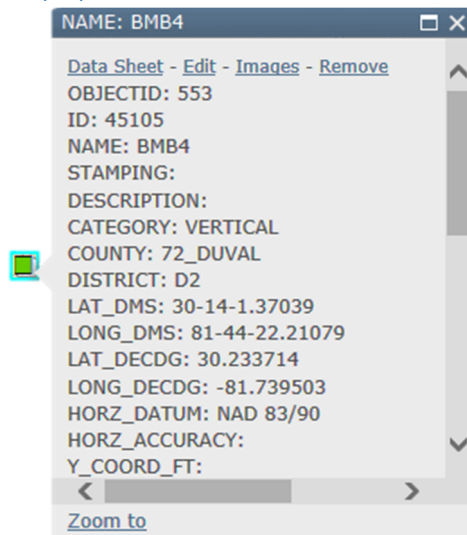
Legend Symbols

Epic

EPIC_Points

-  BOTH
-  HORIZONTAL
-  UNSPECIFIED
-  VERTICAL

Popup Window



A popup appears when a point is selected. This window contains the attribute data and links to edit, export, Zoom to and remove control points that are selected. One or more point may be selected at a time.

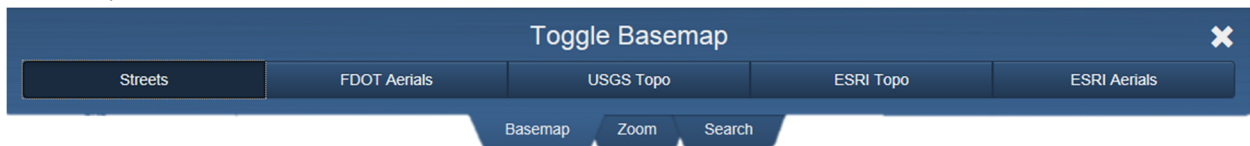


In the cases that two or more points are stacked the “(1 of #)” will indicate how many have been selected. Use the arrow on the top right to scroll through each point or use the zoom until they are no longer stacked.

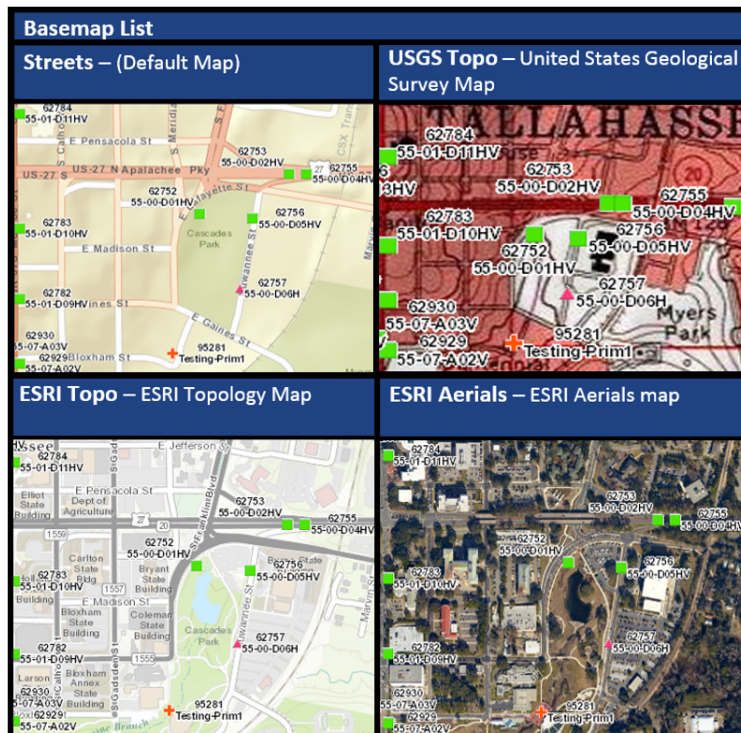
User Interface

Top Ribbon

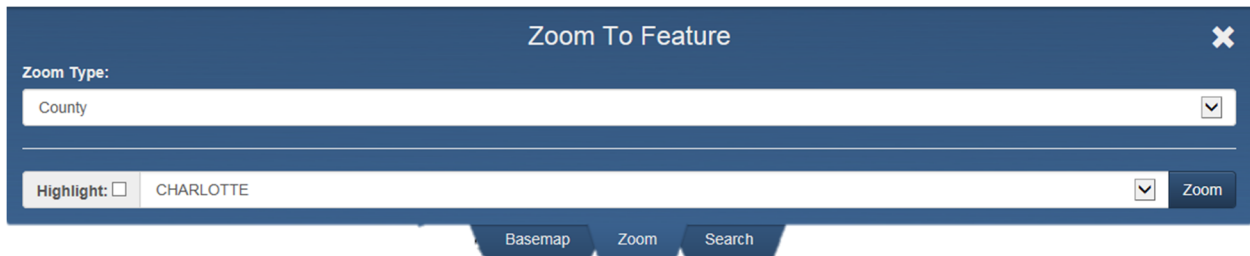
Basemap Tab



Selecting one of the five options under the Basemap tab will change the map displayed. The aerial imagery works best when using the measure function in the application.

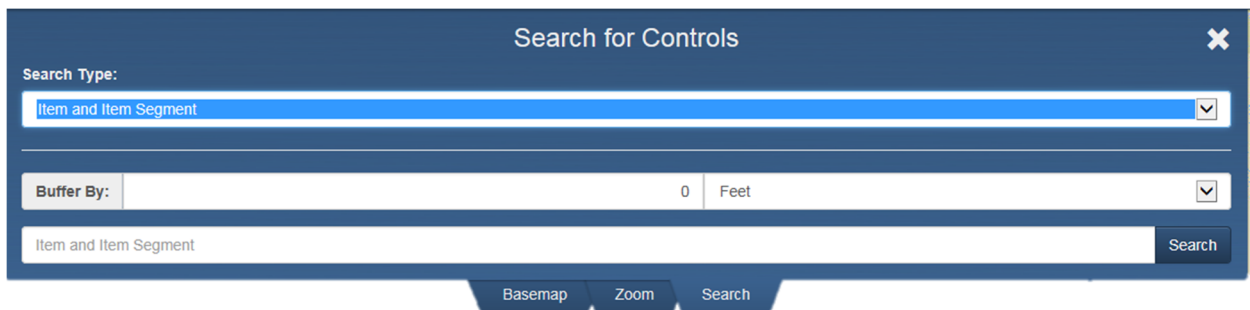


Zoom Tab



The “Zoom To” feature allows the user to select a feature from the drop down menu to zoom to.

Search Tab



Polygon – Enables the user to draw a closed figure around the area that the user wants to search.

Rectangle – Enables the user to draw a rectangle around the area that the user want to search.

Item and Item Segment – Allow the user to search by item and item segment using a buffer.

Roadway Section ID – Allow the user to search by a unique eight-digit identification number assigned to a roadway or section of a roadway.

Attribute – Allow the user to search by the following:

- Cities – Allows the user to search by city

- PLSS – Allows the user to search by the Public Land Survey System (PLSS) using Section, Township and Range.

- Counties – Allows the user to search by county

- EPIC_POINT – Refer to the data dictionary in appendix A for definitions.

Search Results

Result Set 2 ✕

OBJECTID	ID	NAME	STAMPING	DESCRIPTION	CATEGORY	COUNTY	DISTRICT	LAT_DMS
20	44572	7208014GPS1			VERTICAL	72_DUVAL	D2	30-22-2.99999
33	44585	7208014GPS2			VERTICAL	72_DUVAL	D2	30-22-14.0016
360	44912	7229110BM2			VERTICAL	72_DUVAL	D2	30-22-12.3708
375	44927	7208019BM2			VERTICAL	72_DUVAL	D2	30-22-15.3084
376	44928	7208014 GPS1			VERTICAL	72_DUVAL	D2	30-22-2.928

< 1 2 > Showing 1 to 5 of 9 results

Edit Results Remove Results Export Data Sheets

When search results are generated there are options for editing results, removing results, exporting results to a spreadsheet and generating data sheets for results. The data sheet is formatted to contain data fields and photos.

Update Data

Update Control(s)

Update Data ✕

Update Control(s) Insert Control Batch Insert

Please Search for a Control set to update.



This feature allows for the user to update a single or batch of control features by searching for the existing features. Utilize the search function to select the control to be updated. Once the search function has been completed a result set window will appear. To edit a single record select edit next to the corresponding record. To edit all records in the result set select “Edit Results” at the bottom right of the window. All records in the result set will be updated when this edit is made.

Insert Control

The screenshot shows the 'Update Data' interface with the 'Insert Control' tab active. The form is organized into three columns: 'Update Control(s)', 'Insert Control', and 'Batch Insert'. The 'Insert Control' column contains the following fields:

- Name: Text input
- Category: Dropdown menu (required, marked with *)
- Stamping: Text input
- County: Dropdown menu (required, marked with *)
- District: Dropdown menu (required, marked with *)
- Latitude (DMS): Text input
- Longitude (DMS): Text input
- Latitude (DD): Text input (required, marked with *)
- Longitude (DD): Text input (required, marked with *)
- Ellipsoid Height (ft): Text input
- Horizontal Accuracy: Dropdown menu
- Horizontal Source: Dropdown menu
- X Coordinate (ft): Text input
- SP Zone: Dropdown menu
- Orthometric Height NAVD88 (ft): Text input
- Vertical Accuracy: Dropdown menu
- Date Set: Text input
- Last Recovered: Text input
- Photo Link: Text input
- Condition: Dropdown menu

'Add' and 'Clear' buttons are located at the bottom center of the form.

The use of this menu is for the input of one control point at a time. Please, refer to the [Data Dictionary table](#) for field information. All of the fields that have the asterisk * are required to be filled out. Grater data quality will be achieved when all of the fields are populated. Enter Latitude and Longitude coordinates in either Degrees Minutes Seconds (DMS) or Decimal Degrees (DD), the system will convert and fill the other corresponding fields. To remove all entered data use the “Clear” button  and to apply the record to the database use the “Add” button . Once the information is applied to the database, a user will receive a popup stating that “New Control entered successfully!”. The newly added control is now searchable using the Search tab or can be found visually using the maps pan and zoom functions.

Batch Insert

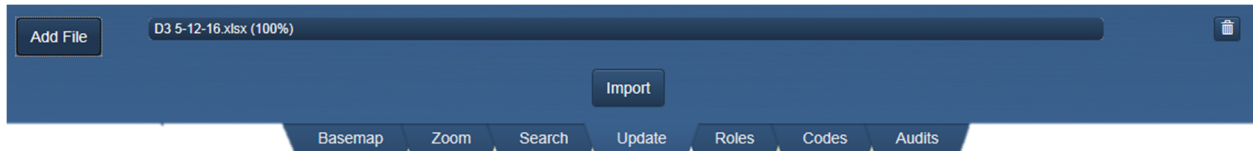
The screenshot shows the 'Update Data' interface with the 'Batch Insert' tab active. The form contains the following text:





Add any csv or xlsx files containing rows to insert or update. Only rows with a valid object ID will be updated, any others will be inserted. Only column names matching the columns of the feature class will be imported. Geometries for the imported rows will be generated from the provided lat/long coordinates.

For a premade batch import template, click [here](#) (Excel Spreadsheet, 10kb).

An 'Add File' button is located at the bottom left, with a red arrow pointing to it.

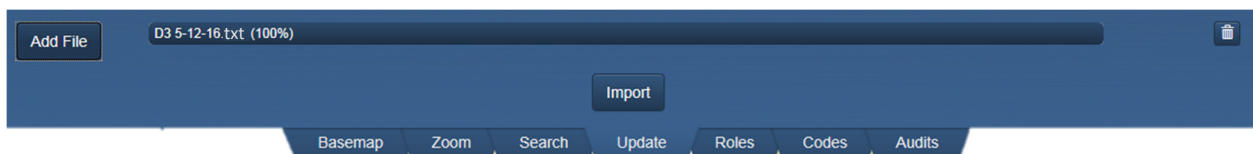
The Batch Insert tab allows data stewards to upload groups of data at one time instead of individually. Both .csv or .xlsx formats are acceptable. A premade template is available and should be used to ensure that all column names are correct and match those in the database.






To upload a file, select the *Add File Icon*  and then select the appropriate file. Then, select the *Import Icon*  to finish uploading the file. If a mistake was made, select the *Trashcan Icon*  to delete the file. When the user selects the *Import Icon* the user will be asked “Are you sure a you wish to import the given file(s)?” select the *OK Icon*  to continue.

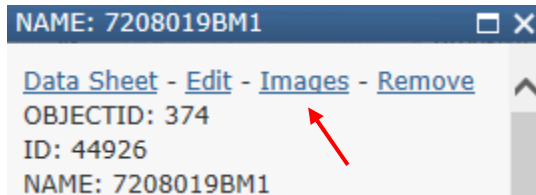
Text File Automation

Using this feature a user can upload a .txt file with the points that were collected in the field. This method allows for the Name, Coordinate, elevation to be pre populated.

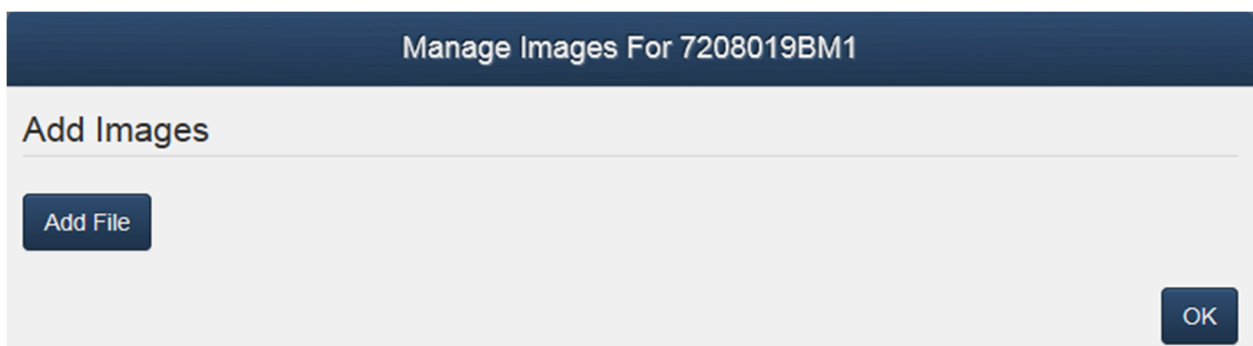


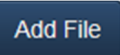
To upload a .txt file, use the Batch Insert tab and select the *Add File Icon* . Then select the appropriate file. Now, click the *Import Icon*  to finish uploading the file. If a mistake was made, select the *Trashcan Icon*  to delete the file.

Photos




To add images to the control points first click on a control point and click images.



Once the window above opens, click the *Add File*  button and select the images you want to be associated with the control point. Repeat the steps above for all points you want to add images to. To view the images click Data Sheet in the control point popup.

Control Sheet(s)

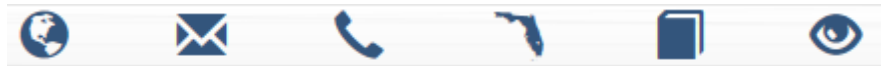
FLORIDA DEPARTMENT OF TRANSPORTATION CONTROL MONUMENT DATA SHEET			
POINT NAME	7200115BM2	POINT TYPE	VERTICAL
PROJECT ID		NORTHING (FT)	
ORTHO HEIGHT NAVD88 (FT)		EASTING (FT)	
ORTHO HEIGHT NGVD29 (FT)		HORIZONTAL DATUM	NAD 83/90
ELLIPSOID HEIGHT (FT)		ZONE	
GEOID MODEL		LATITUDE (DMS)	30-16-13.1484
SCALE FACTOR		LONGITUDE (DMS)	81-45-53.2088

Clicking “Data Sheet” on the popup or on the Search Results tab allows a user to download a .zip file containing a control sheet PDF for each control point selected.



The PDF Control Sheet are dynamically generated by the database each time the user request control sheets so, it may take a few moments for the download prompt to popup.

Bottom Ribbon



The bottom ribbon contains information links. Hovering the mouse over the icon will give a description of the link.

Appendix A.

Data Dictionary

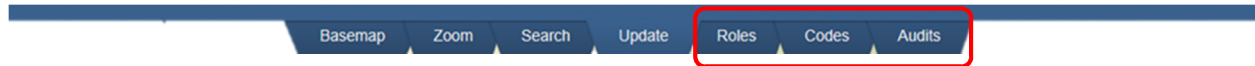
No	Name	Description	Option
1	NAME	Station Name or Designation.	Code Domain
2	STAMPING	Information stamped on the face plate of the control.	
3	DESCRIPTION	Description of the station.	
4	* CATEGORY	The category of survey control.	Horizontal Vertical Both Unspecified
5	* COUNTY	Florida county number based on the FDOT county numbers. Example: 55_Leon	FDOT county codes and Names

6	* DISTRICT	Name of the FDOT district.	D1 D2 D3 D4 D5 D6 D7 TP CO
7	LATITUDE (DMS)	Latitude in Deg-Min-Sec format. Up to 5 decimal. Example: 30-28-4.44517	
8	LONGITUDE (DMS)	Longitude in Deg-Min-Sec format. Up to 5 decimal places. Example: 86-54-38.55693	
9	* LATITUDE (DD)	Latitude in decimal degrees. Up to 8 decimal places. Example: 28.08774999	
10	* LONGITUDE (DD)	Longitude in decimal degrees. Up to 8 decimal places. Example: 82.45349999	
11	ELLIPSOID HEIGHT (FT)	Present if available. The height in US Survey Feet referenced to GRS80 ellipsoid.	
12	HORIZONTAL DATUM	Name of the horizontal datum.	NAD 83/86 NAD 83/90 NAD 83/96 NAD 83/99 NAD 83/02 NAD 83/07 NAD 83/11 NAD 27
13	HORIZONTAL ACCURACY	Horizontal accuracy.	Approximate Primary Project Control Secondary Project Control Project Validation Control
14	HORIZONTAL SOURCE	Measurement method used to determine the horizontal position.	Conventional Static GPS Rapid Static GPS RTK GPS
15	Y COORDINATE (FT)	Y state plane coordinate in US Survey Feet.	
16	X COORDINATE (FT)	X state plane coordinate in US Survey Feet.	
17	SP ZONE	State plane zone that X and Y coordinates are referenced to.	901_East 902_West 903_North

18	ORTHOMETRIC HEIGHT NGVD29 (FT)	Present if available. The elevation referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29) in US Survey. Feet to 2 decimal places.	
19	ORTHOMETRIC HEIGHT NAVD88 (FT)	Present if available. The elevation referenced to North American Vertical Datum of 1988 (NAVD 88) in US Survey. Feet to 2 decimal places.	
20	VERTICAL ACCURACY	Vertical accuracy.	First Order per NGS Standards Second Order per NGS Standards Third Order per NGS Standards Standards of Practice MTS
21	VERTICAL SOURCE	Measurement method used to determine the elevation.	RTK GPS Static GPS Rapid Static GPS Trigonometric Levels Diff Leveling
22	DATE SET	Date when the station was first set.	
23	LAST RECOVERED	Date when the station was last recovered.	
24	LAST RECOVERED BY	Person or contractor who reported the last condition of the control point.	
25	DATA LINK	Link to the location of a survey control report.	
26	PHOTO LINK	Link to the location of a picture of the monument.	Use picture upload above
27	CONDITION	Last recovered condition of the control point.	Good New Disturbed Destroyed Not Found
28	SCALE FACTOR	Multiplier for converting between grid and ground coordinates and distances.	
29	STATION/OFFSET	Distance along a baseline and distance left or right of a baseline.	
30	GEOID	Representation of the earth's surface.	FPRN GD16 GEOID12A GEOID09 GEOID06 GEOID03 GEOID99 GEOID96

Appendix B. (Admin Functions)

Admin Functions: These functions are available when logged in with administrative privileges.



Roles

The Roles tab shows a list of who the current existing users are and what permissions they have. Permissions can be edited for each existing user and new users can be added from this tab on an as needed basis

Codes

The Codes tool is used to edit the domain codes which control the drop down or selection data for control point attributes.

Audits

Manage audits is a tool that shows changes that have been made to the data. There is a search function to filter down a search.

Legal Information

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