

TerraExplorer[®]

Comparison Table

Version 7.1

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TERRAEXPLORER FAMILY

The TerraExplorer Comparison Table below compares the different capabilities of each of the products in the TerraExplorer family. TerraExplorer family has three types of products:

- TerraExplorer for Desktop – A cutting-edge 3D GIS desktop viewer and creator that provides powerful tools and a high resolution 3D environment in which to view, query, analyze and present geospatial data.
 - Viewer – Users can navigate through and perform advanced terrain analysis of high resolution 3D world environments created by fusing aerial and satellite photography, terrain elevation data and other 2D and 3D information layers. TerraExplorer Viewer also provides basic editing capabilities, including loading of online 2D and 3D layers as well as selected offline formats.
 - Plus – Adds loading of all 2D and 3D offline formats, feature layer editing and querying, advanced objects and drawing tools, a set of tools for professional usage, and the advanced Pro API interfaces.
 - Pro – Adds publishing capabilities as well as uploading of data to SkylineGlobe cloud.
- TerraExplorer for Mobile – An advanced 3D GIS viewer and editor for Android and iOS mobile devices with professional-grade tools for viewing, querying, analyzing and editing massive datasets in a high resolution 3D environment.
- TerraExplorer for Web – A lightweight 3D GIS viewer that enables you to view high-resolution, stunningly realistic SkylineGlobe 3D content in a web browser, without any plug-ins.

TERRAEXPLORER FOR DESKTOP

TerraExplorer for Desktop is a cutting-edge 3D GIS viewer and creator that provides powerful tools and a high resolution 3D environment in which to view, query, analyze and present geospatial data. With TerraExplorer's robust and extensive capabilities and seamless interoperability, users can overlay the terrain with unlimited data layers, 3D models, virtual objects and more to create stunningly realistic visualizations.

All TerraExplorer for Desktop products are based on TerraExplorer Pro, with each offering a different subset of TerraExplorer commands.

TerraExplorer for Desktop commands are accessible programmatically either from the standard API or from the ICommand interface. ICommand is an API call that simulates a user click on the TerraExplorer ribbon or menus, activating a TerraExplorer command.

Most operations can be performed by both of the methods. To create a polygon, for example, you can use the `Creator.CreatePolygon(...)` API to create a polygon and set all the parameters programmatically. Alternatively, you can call `ICommand.Execute (1012,5)` (the equivalent of clicking Create Polygon on the ribbon). This call opens the Properties Sheet and lets the user add the polygon and set its properties manually, like in TerraExplorer Pro.

A few commands (e.g., Publish Project) are only available via the GUI or the ICommand interface, and not programmatically from the standard API.

Note: When an online project (from a SkylineGlobe Server) is opened in TerraExplorer Viewer, the API is automatically upgraded to Plus level. Plus level API allows you to utilize all TerraExplorer Plus functionalities using API calls, including the ICommand interface.

TERRAEXPLORER FOR MOBILE

TerraExplorer for Mobile is an advanced 3D GIS viewer and editor for Android and iOS mobile devices with professional-grade tools for viewing, querying, analyzing and editing massive datasets in a high resolution 3D environment. The app can load local TerraExplorer projects as well as access online data from SkylineGlobe's TerraGate and other OGC compliant servers

TERRAEXPLORER FOR WEB

TerraExplorer for Web is a lightweight 3D GIS viewer that enables you to view high-resolution, SkylineGlobe 3D content in a web browser, without any downloads or plug-in installations. Based on the HTML5/WebGL standard, TerraExplorer for Web provides support for multiple platforms and browsers (Windows, Mac, Linux, select mobile devices, Chrome, Edge, Firefox, and more).

TerraExplorer for Web integrates smoothly with the entire Skyline product line for easy access to all your data – from photo-realistic, geographically accurate terrain databases created in TerrainBuilder to PhotoMesh's high-resolution, textured, 3D mesh models. TerraExplorer for Web seamlessly accesses online data from SkylineGlobe's TerraGate and other OGC-compliant servers.

COMPARISON TABLE

✓ – Available in the User Interface and the API

Online – layers from a SkylineGlobe Server

UI – Available only via the User Interface or the ICommand API (not available via standard API commands)

Capability	Web	Mobile	Desktop Viewer	Desktop Plus	Desktop Pro
Basic					
3D fly-through	✓	✓	✓	✓	✓
Load Fly and KML/KMZ projects	✓	✓	✓	✓	✓
View objects, layers and features	limited	limited	✓	✓	✓
Oculus Rift virtual reality			✓	✓	✓
Save project to Fly, KML and KMZ formats			✓	✓	✓
Create presentations			✓	✓	✓
Create movie			✓	✓	✓
Search addresses and layers	✓	✓	✓	✓	✓
Change project settings				✓	✓
Collaborate				✓	✓
2D and 3D Layers					
Load imagery and elevation layers	✓	✓	Online	✓	✓
Load feature layers	✓	✓	Online + shape	✓	✓
Load point cloud layers	✓		✓	✓	✓
Load 3DML	✓	✓	✓	✓	✓
Load BIM	Limited	Limited	✓ View Only	✓	✓
Load OSM map and feature layers	✓	✓	✓	✓	✓
Spatial and attribution queries				✓	✓
Create new feature layer				✓	✓
Edit and update feature layers geometry and attributes		✓		✓	✓
Classify a 3DML and convert models layer to 3DML					✓
Export 3DML to OBJ					✓
Classify a point cloud model			✓	✓	✓

Capability	Web	Mobile	Desktop Viewer	Desktop Plus	Desktop Pro
Analysis					
Distance and area measurement	✓	✓	✓	✓	✓
Terrain analysis tools	Limited	Limited	✓	✓	✓
Shadow and viewshed analysis	✓	✓	✓	✓	✓
Buffer query			✓	✓	✓
Elevation difference			✓	✓	✓
Objects					
View 2D and 3D objects	Limited		✓	✓	✓
Add and edit basic objects (label, line and polygon)			UI	✓	✓
Add and edit all 2D and 3D objects				✓	✓
Add and edit advanced objects (Building, Video on Terrain, Terrain Modification, Hole on Terrain and Dynamic Objects)				✓	✓
Advanced drawing tools (Duplicate Objects, Create Pipe Lines, Create Power Lines)				✓	✓
Navigation					
Navigation Map			✓	✓	✓
Underground mode	✓	✓	✓	✓	✓
Navigation tools (GPS tracking, target and Multiple coordinate system)			✓	✓	✓
Indoor editing and viewing			✓	✓	✓
Conversion Tools					
Make CPT				✓	✓
Create raster pyramid				✓	✓
Make XPL					✓
Make 3DML (and 3DMLCreator)					✓
Saving and Publishing					
Publish online kit (desktop, mobile, web)					✓
Publish offline kit (desktop, mobile)					✓
Extract terrain					✓
Upload data to SG cloud					✓