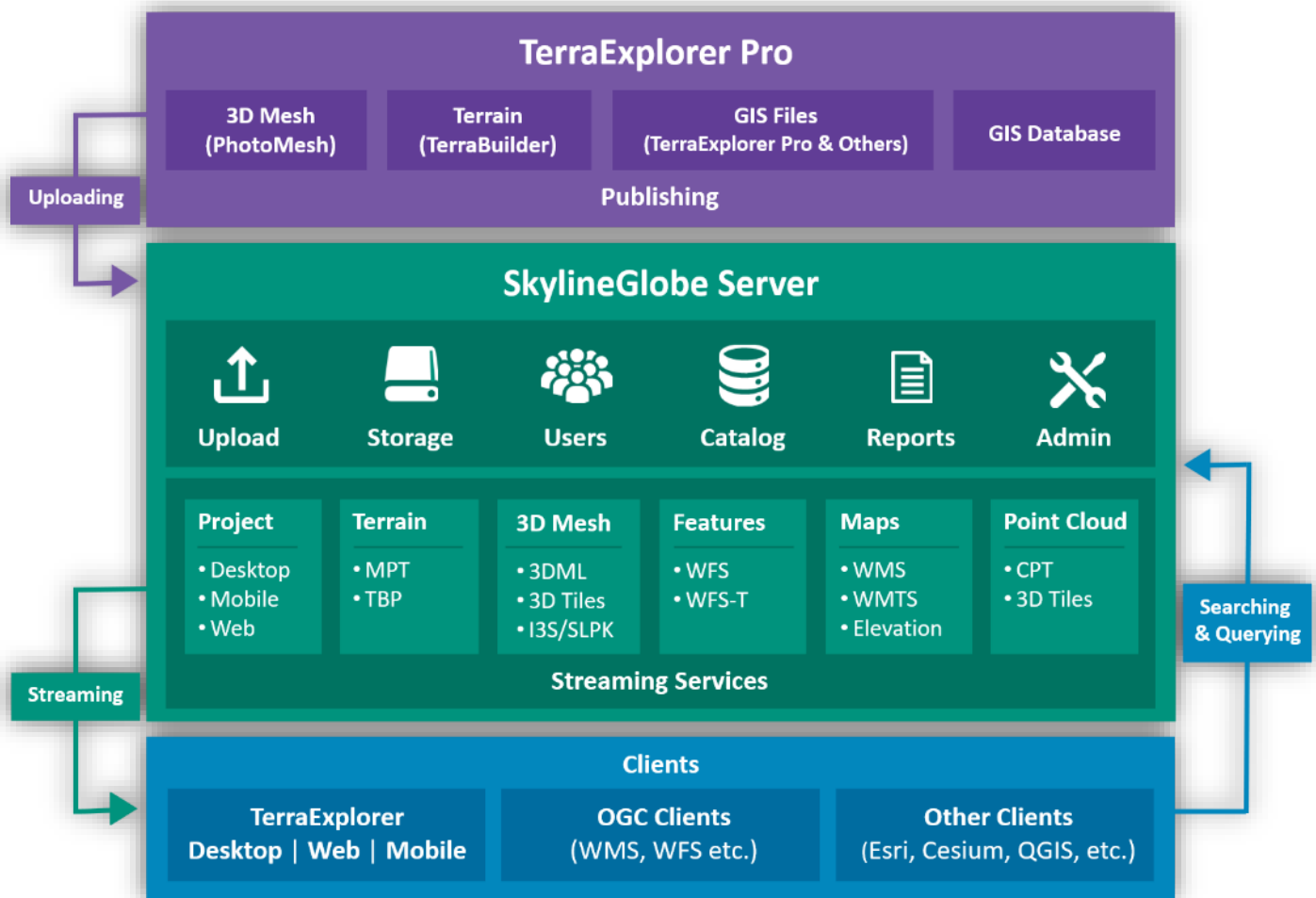# SkylineGlobe Server

TerraExplorer for Web

Release Notes

V 7.3.1

OVERVIEW

SkylineGlobe Server is a private cloud solution that provides a comprehensive set of web services for publishing, storing, managing and streaming 3D spatial data. All your spatial data types can be streamed including imagery (MPT/TBP/WMS/WMTS), elevation (MPT/TBP/WMS/WMTS), feature (WFS/WFS-T), 3D Mesh (3DML, OGC 3D Tiles, Esri I3S/SLPK), point cloud (CPT, OGC 3D Tiles), project files and other resources. Through a single publishing operation, data is made ready for consumption by all TerraExplorer clients: Desktop, Web and Mobile, as well as other geospatial applications including Esri, QGIS and Cesium-based viewers.

TerraExplorer for Web (TE4W) is a lightweight 3D GIS viewer that enables you to view and analyze high-resolution, stunningly realistic SkylineGlobe 3D content in a web browser, without any plug-ins. Building on standard Cesium support for imagery, elevation and KML layers, TerraExplorer for Web can also display most of your spatial databases including 3D city layers and feature layers. 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 TerraBuilder to PhotoMesh's high-resolution, textured, 3D mesh models. Based on HTML5/WebGL standards, TerraExplorer for Web provides support for multiple platforms and browsers (Windows, Mac, Linux, and selected mobile devices, Chrome, Firefox, Edge, Internet Explorer and more).
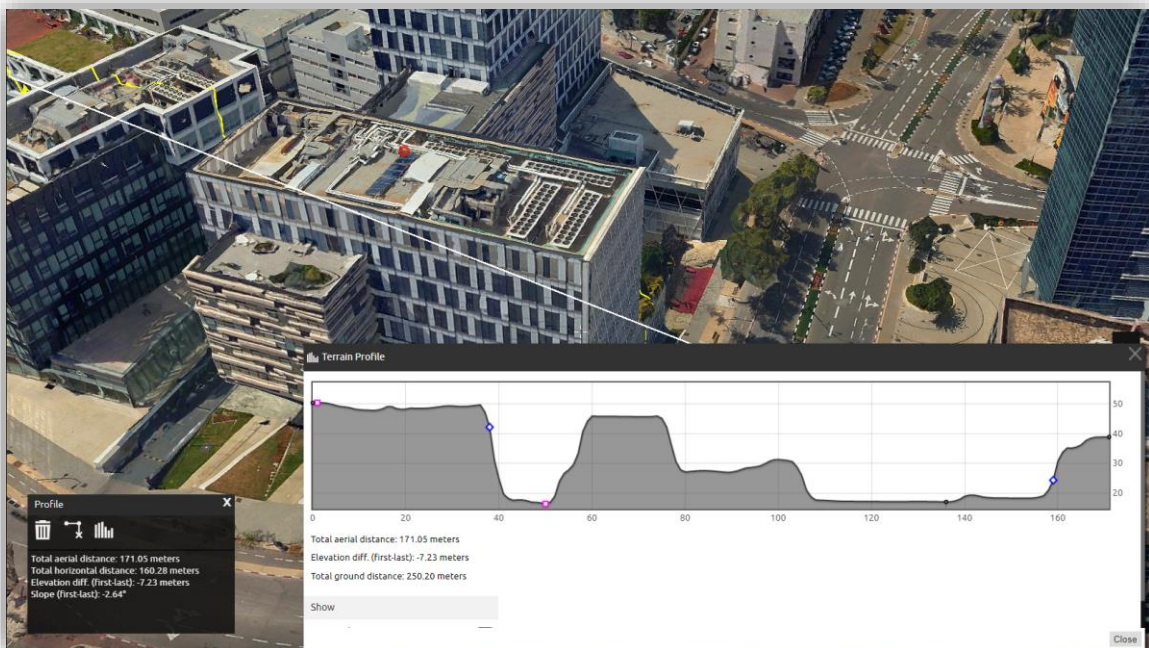
SkylineGlobe Server

- Security updates

    - Updated JQuery and JQuery-Migrate libraries to fix Cross-Site Scripting (XSS) vulnerability

    - Fixed link manipulation vulnerability (DOM-based)

    - Fixed frameable response vulnerability (potential clickjacking)

- Improved support for 3D Tiles texture transparency

- Added support for ArcGIS Pro 2.9 and ArcGIS Earth 1.14

- Supports publishing of project's aerotriangulation photos when using TerraExplorer v7.4 Photo Inspector

- Includes Datum Transformation Grid file (.GTX) to support coordinate readjustments in addition to vertical datums

- Bug fixes and stability

    - Corrected issue that caused some BIM 3DML layer textures to flicker (for B3DM consumers)

    - Corrected problem that prevented editing of SGS feature layers that were published to GeoPackage databases

    - Corrected problem that prevented editing of SGS feature layers that were published from PostgreSQL database on the server

    - Improved support for converting 3DML to 3D Tiles with refine/add modes

    - Improved quality of 3D Tiles and SLPK

    - Fixed bug that caused reordering of PostgreSQL layer's attribute columns

    - Fixed bug that caused wrong feature position when scanning and loading feature layers from an Oracle database

TerraExplorer for Web

- Security updates

  - Upgraded JQuery and JQuery-Migrate libraries to fix Cross-Site Scripting (XSS) vulnerability

  - Fixed XPath vulnerability

- New setting to zoom to location of user's device. This option is available for desktop and mobile devices

- Resolved issues affecting display of 3DML:

  - Preserve TerraExplorer Desktop's "Replace Terrain With" setting

  - Restored proper transparency support for published 3DML created from models feature layers

  - Corrected issue causing large gaps between certain mesh layers and the base terrain

  - Improved efficiency of modify terrain and mesh ground mechanisms, thus reducing the number of requests being sent and enhancing overall performance

  - Resolved issue affecting display of certain BIM models

- Fixed several bugs affecting feature layers:

  - Tooltips now display properly when hovering over polylines

  - Corrected issue causing polylines to appear broken and discontinuous

  - Fixed bug causing display of purple and black lines when hovering or selecting

  - Corrected issue affecting visibility of feature layer text labels

  - Resolved issue causing altitude changes when zooming in and out of some layers

  - Restored support for loading of complex geometries

- Additional bug fixes and improvements

  - Resolved bug causing part of point cloud to disappear when zooming in

  - Improved efficiency of modify terrain and mesh ground mechanisms, thus reducing the number of requests being sent and enhancing overall performance

  - Resolved issue that resulted in text labels appearing under the terrain when camera was tilted

  - Fixed bug that caused all layer tab buttons to disappear when KML settings were configured to only hide the "Display Load Layers" button

  - Fixed issue affecting display of labels' attribute popup message

REQUIREMENTS - SKYLINEGLOBE SERVER

Operating System	Windows® Server 2008 R2 / 2012 R2 / 2016 / 2019 – 64-bit.
System Memory	4 GB RAM (8 GB or more recommended)
Processor	Dual-Core (4 or 8 cores recommended).
Browser	Microsoft Internet Explorer 8 or higher, Edge, Mozilla Firefox, and Google Chrome
User Privileges	Administrator privileges required for installation and configuration.
Additional Software	Microsoft Internet Information Services IIS7.5, IIS8.5, IIS10 with Net 4.8 and ASP.Net. If .Net 4.8 is missing, you can manually download and install it from: https://dotnet.microsoft.com/download/dotnet-framework/net48.

REQUIREMENTS – TERRAEXPLORER FOR WEB

Operating System	Windows / Linux / MacOS / Android / iOS
System Memory	2 GB RAM (4 GB or more recommended)
Processor	4 cores (8 cores recommended).
Browser	• Windows: Chrome, Firefox • MacOS: Chrome, Safari • Linux: Chrome • Android: Chrome • iOS: Safari

For additional information, check out the SkylineGlobe Server section and TerraExplorer for Web section of our knowledge base.

www.skylinesoft.com

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