

FARO® WebShare Enterprise Software

The Private Digital Twin Platform for Project Management, Facility Operations & Maintenance

WebShare Enterprise is a digital twin hosting platform for companies requiring easy, on-demand access to 3D facility conditions while maintaining privacy away from the cloud. The software offers organizations a true on-premise server or private cloud hosted experience to view, navigate, collaborate, plan and download 3D reality capture data in industry standard formats. Install locally on your company server or on the private cloud instance of your choice (such as AWS, Azure or Google), giving your organization full control of hosted data and security infrastructure. WebShare Enterprise is hardware-agnostic and supports 3D reality data of unlimited size, to be stored, viewed, evaluated shared by authorized persons only, anywhere and anytime, using a web browser. All common industry standard formats for downloading reality data are supported, enabling seamless and collaborative Scan-to-BIM and design validation workflows.



Features

Flexible Reality Data Upload

Upload data of any source, captured by terrestrial laser scanners, hand-held scanners, drones, mobile scanning systems and photogrammetry devices from FARO and other providers without constraints in data size.

Easy Data Visualization and Sharing

Various viewing modes provide an impressive visualization of uploaded data and easy orientation for project exploration. Make point cloud projects accessible to partners via unique URL.

Powerful Evaluation Tools

Evaluate captured data directly in a web browser. Take, edit and share measurements and add annotations, organize using categories and reference tags or add links to external sources like Dropbox and Box Cloud Storage.

Ortho Image Functionality

Download true to scale ortho images created from any point of view to be used for efficiently generating 2D deliverables such as floor, elevation and facade plans or sections.

Design Validation or Scan-to-BIM

Sections and entire projects can be downloaded as 3D point clouds or panoramic images, for direct use with Autodesk® Siemens, Bentley Pointools portfolio or any CAD and BIM software.

Management Platform Integration

Directly integrates with collaborative construction management tools and platforms. Use deep links to implement certain views into BIM, construction, facility and asset management databases.

Benefits

Productivity Advancement

Easy to learn, simple to use and affordable to implement, WebShare guarantees fast reality data exchange among partners for seamless, highly-efficient project management without utilizing data storage on a local server, using third-party cloud services or shipping data physically.

Customizable Download

Export functionality enables new timesaving workflows through exporting sections and complete projects directly without conversion breaks into any preferred target design system for tasks (as-built modeling and construction QC).

Interactive and Definite

Provides immediate access to all project partners of the latest reality data, ensuring collaborators operate with the identical level of knowledge, thus avoiding redundant and outdated data, faulty communication, erroneous project decisions and site rework.

Flexible Project Groups

A simple, yet sophisticated project and user management logically authorizes defining access rights and user permissions as required. Share projects with partners worldwide independent from having a user account.

Key Features

Data Upload into the Cloud or Own Server

- Upload 3D reality data via FARO SCENE or SCENE LT (free) software in high resolution without quality reductions and data simplifications as .fls, .pts, .ptx, .ptz, .xyz, .e57, .cpe, .sfm, .las and .laz files.
- Directly upload 2D floor plans and panoramic images from the FARO ScanPlan™ handheld mapper.
- Use structured and unstructured 3D reality data from terrestrial laser scanners, hand-held scanners, drones, mobile scanning systems and photogrammetry devices from FARO and other providers without constraints in data size.
- Add 3D point clouds to uploaded projects to expand various points in time for documenting different project stages.

Data Visualization, Evaluation and Sharing

- View and explore captured 3D reality data directly in any web browser. Multi-layer overview maps, 3D views and panoramic scan views provide a powerful visualization and easy orientation even within most complex projects. Impressive Virtual Reality view functionality gives a feeling of being live on site.
- Dynamically move within scan projects by clicking on the different scan positions.
- Take, edit and share measurements and annotations in all different view modes.
- Create categories and reference tags for comprehensive data organization and data filtering.
- Add links to data and documents located on external data sources like Dropbox or Box Cloud Storage.
- Make all project data accessible to partners worldwide via unique URLs, ensuring best project overview and collaborative decisions based on one single source of truth.

Ortho Image Functionality

- Generate true to scale ortho images within the ground and facade view mode from free configurable positions with full color detail to be downloaded for creating 2D deliverables like floor, elevation and facade plans or sections.
- Specific WebShare view as an iFrame into online software tools for BIM, construction, facility and asset management.

User and Project Management

- Invite an unlimited number of clients, suppliers, team members or other partners to join the platform.
- Flexible, sophisticated user right management allows to manage projects in customizable user groups. Complex work and coordination steps are transferred into the cloud.
- Define authorization like access rights (public or private projects) and user permissions for administration, data upload, sharing or download, flexibly giving partners access to reality data from anywhere in the world.
- Projects can be shared with partners without the need of owning a WebShare user account.

Data Download from the Cloud

- Project images can be used directly in the target design system for seamless Scan-to-BIM operations without conversion breaks.
- Export data as common industry standard formats:
 - Unstructured scan data: Autodesk® ReCap format (.rcp), Bentley Pointools format (.pod), FARO file format (.cpe), XYZ ASCII file format (.xyz) and .e57
 - Structured scan data: .e57
 - High-resolution panoramic images: .jpg.

WebShare on Enterprise Level Usage

- Ensure full control over the security of the stored reality data, by using your company's own cloud infrastructure (private cloud) or server.
- Users sign in using their organizational accounts. Thanks to single sign-on (SSO) support, there is no need to remember and manage different passwords. This provides easy and secure way for administrators to control who has access.

Deep Link Functionality

- Directly integrate into Autodesk® construction management tool BIM 360™ and Nemetschek's Allplan Bimplus platform.
- Every point of view is accessible from outside by sharing its unique URL. Partners receiving the URL only need to copy and paste into the hyperlinks of any system or embed the specific WebShare view as an iFrame into online software tools for BIM, construction, facility and asset management.

License and System Requirements

License	12-month subscription license with automatic renewal; installable on one private server or one private cloud instance ¹			
General	A server or virtual machine running a 64-bit Linux operating system; Ubuntu 20.04 LTS			
Production Setup Recommendation	16 CPU cores	128 GB RAM	11 TB of Disk Space: <ul style="list-style-type: none"> • 1 TB disk space of project data • 1 TB disk space for exported data • 9 TB for temporary files 	
Supported Browsers	WebShare supports the two most recently released major versions			
	Windows: Firefox, Chrome, Opera & Edge	Android Tablet Devices: Chrome	iOS Tablet Devices: Safari	macOS: Safari

¹Customer must accept End User License Agreement for all terms and conditions

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