

ORBISFUSE • BROWSER-BASED PLATFORM

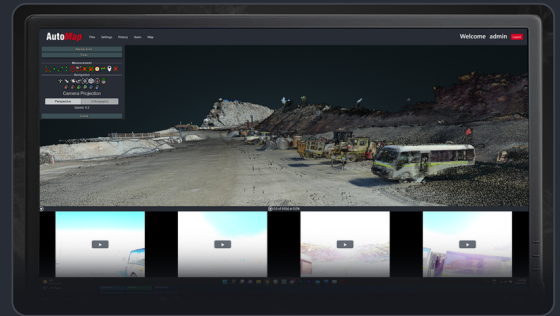
OrbisFuse

CHANGE DETECTION | AUTO CLEANING | UNLIMITED USERS

On-premises server SLAM — retain control of your data.

Upload .ply or .las files and start viewing, sharing, and measuring within minutes. OrbisFuse is the complimentary cloud platform behind every VellusX and TerrusM capture — unlimited seats, automatic conversion, measurement and annotation tools built in.

Designed to work wirelessly with all AutoMap systems: upload maps over WiFi **straight from the unit to the cloud** with no data loss, then explore and share the captured point clouds in a full 3D environment — connecting your team both on and off site.



THE ORBISFUSE VIEWER IN THE BROWSER

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USER ACCOUNTS

PLY/LAS

UPLOAD FORMATS

3D

IN-BROWSER VIEWING

On

PREM OPTION

CAPABILITIES

View, share, and measure — all in the browser

In-cloud processing

Heavy SLAM and point-cloud computation runs on server-side compute, not your laptop. Registration, fusion, and map optimisation are offloaded — results come straight back.

Centralised access

Every capture lands in one authoritative store. Surveyors, engineers, and project managers open the same point cloud from anywhere in the world.

Choose your workflow

Assemble the processing steps each job needs — downsampling, noise filtering, registration and drift correction, segmentation and classification.

Automatic pipelining

Uploads flow straight into an automated pipeline: filtering, alignment, and .ply → .las/.laz conversion run in the background, standards-ready for your GIS tools.

Customisable algorithms

Plug in the algorithms your analysis depends on — feature extraction, segmentation, change detection, or your own classifiers — tuned per project.

On-premises management

Run the whole platform inside your own network. Full sovereignty over storage, access, and audit logging — built for defence, mining, and government work.

Powered by **Wildcat** SLAM

OrbisFuse runs the same CSIRO-developed **WildcatSLAM** engine as every AutoMap scanner, scaled up to server hardware. The engine is fully multi-threaded with **no upper limit** on simultaneous threads — processing speed scales directly with your compute.

PLATFORM CAPABILITIES

DEPLOYMENT	Cloud-hosted or on-premises
ACCESS	Web browser, SSL (port 443)
USER ACCOUNTS	Unlimited
INPUT FORMATS	PLY, LAS
CONVERSION	Automatic .ply → .las / .laz
MEASUREMENT	Distance & volumetrics
ANNOTATION	Notes, mark-ups, sharing
ORGANISATION	Semantic map categories
CHANGE DETECTION	Basemap change mapping
CLEANING	Auto point-cloud cleaning
DEVICE UPLOAD	VellusX & TerrusM over WiFi
ENGINE	Unlimited-thread WildcatSLAM

RECOMMENDED SERVER (ON-PREM)

CPU	AMD Threadripper 7980X+
RAM	≥ 128 GB (1 h+ maps need more)
SWAP	Dedicated 4 TB SSD
STORAGE	≥ 20 TB, ~200 GB per hour
REDUNDANCY	ZFS or RAID
NETWORK	Gigabit scanner link; WiFi



• CAPTURE IN THE FIELD — REVIEW IN THE BROWSER



• COLOURISED STREETSCAPE — MEASURED & SHARED IN ORBISFUSE

01

Upload

Stream a capture straight from VellusX or TerrusM — or drag a .ply / .las in from the desktop.

02

Collaborate

Share a link. Teammates annotate, measure, and discuss the same point cloud in the browser.

03

Decide

Verify site progress, validate compliance, or hand the data off downstream — all from one workspace.

APPLICATIONS

• Plant digitization

• Underground mapping

• Road scanning

• Building documentation

• Shaft inspection

• AEC

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ECOSYSTEM

Feed it with **VellusX** for GPS-fused capture, or **TerrusM** for harsh environments.

