Vega Systems, Inc.

PRODUCT CATALOG

The immune system for video infrastructure

Redundancy, live video continuity, migration, cloud archive and remote connectivity for mission-critical video security.

RMF
Site redundancy

Tandem
Recorder redundancy

SureStream
Live video continuity

XPort
Migration

Nidhi
Cloud archive

Atlas
Remote connectivity · planned 2027

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Catalog 2026.11

OVERVIEW

The portfolio at a glance

Each product answers a specific point of failure or a specific project.

PRODUCT	WHAT IT DOES	PLATFORM	LICENSING
RMF SITE REDUNDANCY	Cybersecure redundancy across separate, isolated XProtect sites. Every camera records at both sites.	Milestone XProtect	One-time license per device, plus annual support
Tandem RECORDER REDUNDANCY	Two recorders present as one, each with a full copy, so failover stays invisible to third-party systems.	Milestone XProtect	Perpetual, per recorder pair
SureStream LIVE VIDEO CONTINUITY	Client-side failover: operators switch to direct camera streams in the Smart Client when the data center fails.	Milestone XProtect	Perpetual, per camera
Nidhi CLOUD ARCHIVE	Extends the XProtect archive to cloud storage, with playback straight from the cloud and no restore step.	Milestone XProtect	Annual, per recording server
XPort MIGRATION	Merges, splits, one-step upgrades and storage moves, automated to save time and cost.	Milestone XProtect	Annual, per recorder
Atlas REMOTE CONNECTIVITY	Remote and vehicle cameras over cellular, presented to the SOC as local ONVIF cameras.	Any VMS (open ONVIF)	Monthly subscription per edge camera · planned 2027

Which product, and when

Live video when the data center fails, is patched or is attacked	**SureStream**
A second site that is truly separate, with cybersecure sync	**RMF**
A recorder that fails without gaps or broken integrations	**Tandem**
Long retention, with the archive extended to the cloud	**Nidhi**
Upgrades, merges, splits and storage moves without weeks of rework	**XPort**
Remote and vehicle cameras, live in the SOC over cellular	**Atlas**

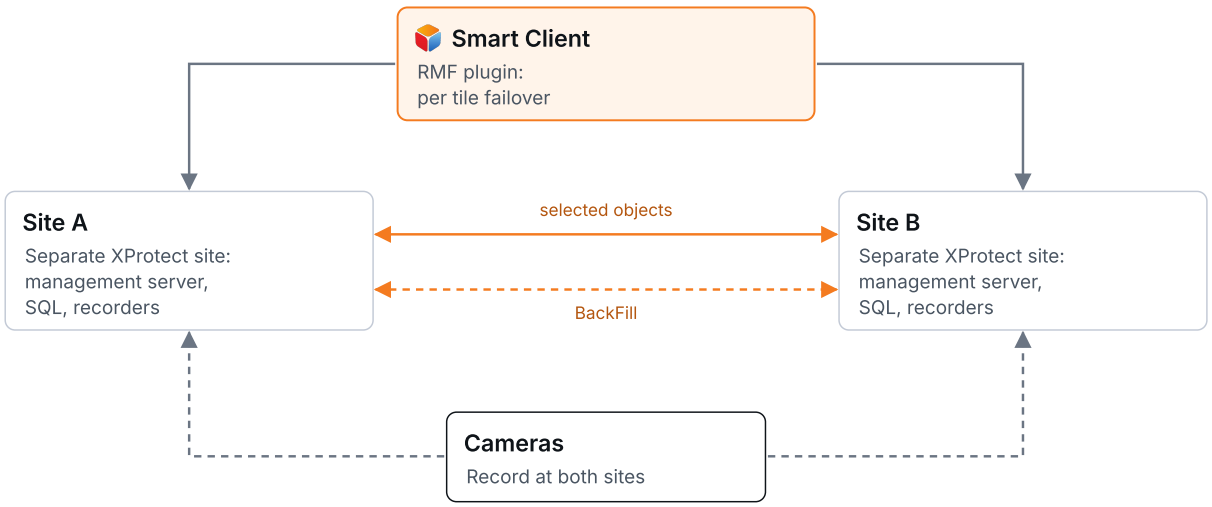
Vega software protects video at airports, nuclear power stations, seaports, metro rail, offshore oil and gas, government sites, data centers and banks, in 14 countries. Built for Milestone XProtect. Atlas is built on open ONVIF for any VMS.

PRODUCT

RMF

Redundancy Management Framework.
Cybersecure redundancy for Milestone XProtect.

Most two-site deployments rely on SQL or service clustering for high availability. Clustering ties the sites together, so a fault, a failed upgrade or a compromise at one copy can reach the other. RMF is built the other way: two separate, isolated XProtect sites that stay redundant.



Every camera records at both sites. Selected objects sync through the Milestone API over one HTTPS port; Backfill keeps both recordings complete.

Separate sites

Each site has its own management server, SQL database and recording servers. There is no shared authentication, storage or real-time database replication.

Selective object synchronization

Devices, groups, roles, views and streams sync one object at a time through the Milestone API, over a single HTTPS port with scoped tokens. You choose what syncs, and in which direction.

Dual recording

Every camera streams independently to each site, so each site holds a full copy of the video.

Near-instantaneous live video

In the Federated and Single site architectures, live video moves to the other site near instantaneously, hands-free and per tile in the Smart Client.

Licensing

One-time license per device, plus annual support. A device is one MAC address: an encoder or a multi-lens camera uses one license. Supports all versions of XProtect Corporate, Expert, Professional+ and Express+.

Three architectures

ARCHITECTURE	HOW THE SITES RELATE	LIVE VIDEO FAILOVER
Federated	Two XProtect sites joined in a Milestone Federated Architecture	Automatic, hands-free, per tile
Single site	One XProtect site with redundant recording stacks	Automatic, hands-free, per tile
Independent	Two fully independent XProtect sites	The operator logs back in to the other site

Site mirroring

Devices
Add, delete, replace or move devices on the primary site and see the change on the secondary.

Device groups
Add, delete and rename groups, or move cameras between them. Changes are mirrored on licensed devices.

Roles
Add, delete or modify roles and user permissions, to the extent the Milestone MIP SDK supports.

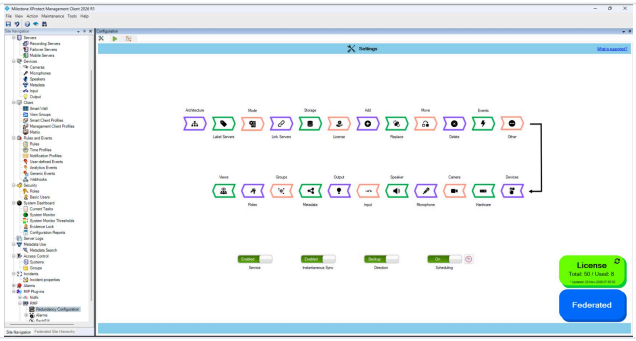
Views
Smart Client view groups are replicated, so operators see a consistent layout when they log in to the other site.

Precision and direction
Synchronize a chosen set of devices, roles or streams, or everything, from primary to secondary or back. Restore an accidental change with ease.

Scheduling
Run synchronization on a schedule, or on demand.

Asymmetric redundancy
No one-to-one recorder mapping required. Use different stream definitions on each site to fit your cost and performance targets.

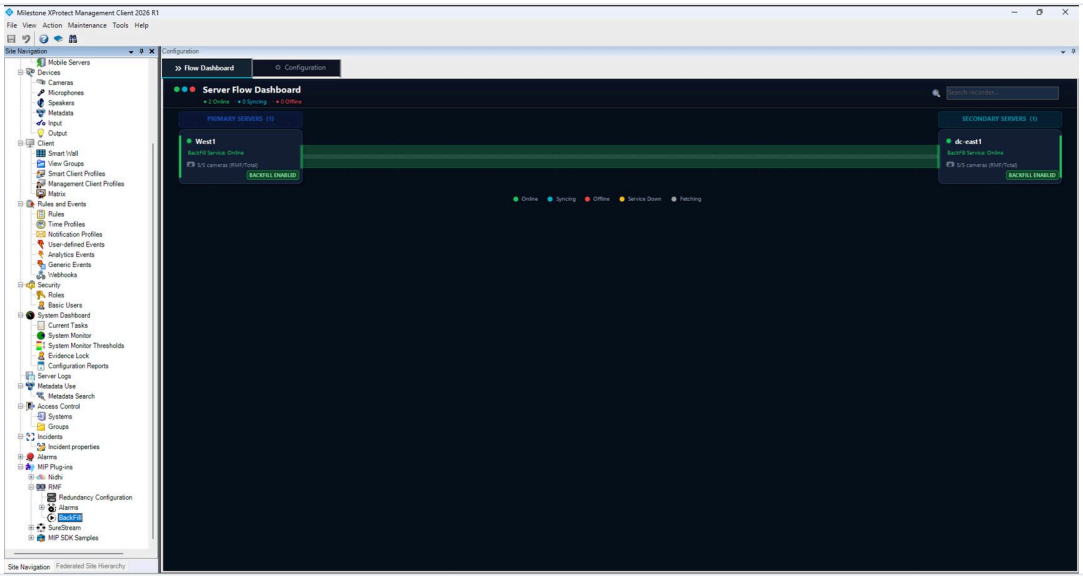
Flex licenses
Assign licenses to a set of devices and move them later. Buy and use what you need.



RMF in the XProtect Management Client.

Backfill

When a recorder on either site goes offline for maintenance, a network drop or a hardware failure, its peer keeps recording. When it returns, Backfill copies the missed footage across, so both sides end with the same continuous timeline. A throttling scheduler accepts several time windows, each with its own MB/s ceiling, so Backfill catches up overnight without disturbing daytime traffic.



The Backfill dashboard: every recorder pair, its state and its Backfill status at a glance.

Automatic playback switching

Playback in the RMF Smart Client plugin comes from the other site when the primary is missing content.

Redundant bookmarks

Bookmarks saved in the RMF Smart Client plugin are saved on both sites.

Cause-agnostic detection

Client-side detection covers recorder, network and site failures that affect what operators see.

High-availability alarms

Redundant events generate alarms even if one site misses firing an event.

REST API

Lets authenticated systems such as PSIM and analytics use the redundancy.

Password updates

Update camera passwords across sites in one step, with minimal disruption.

Design help

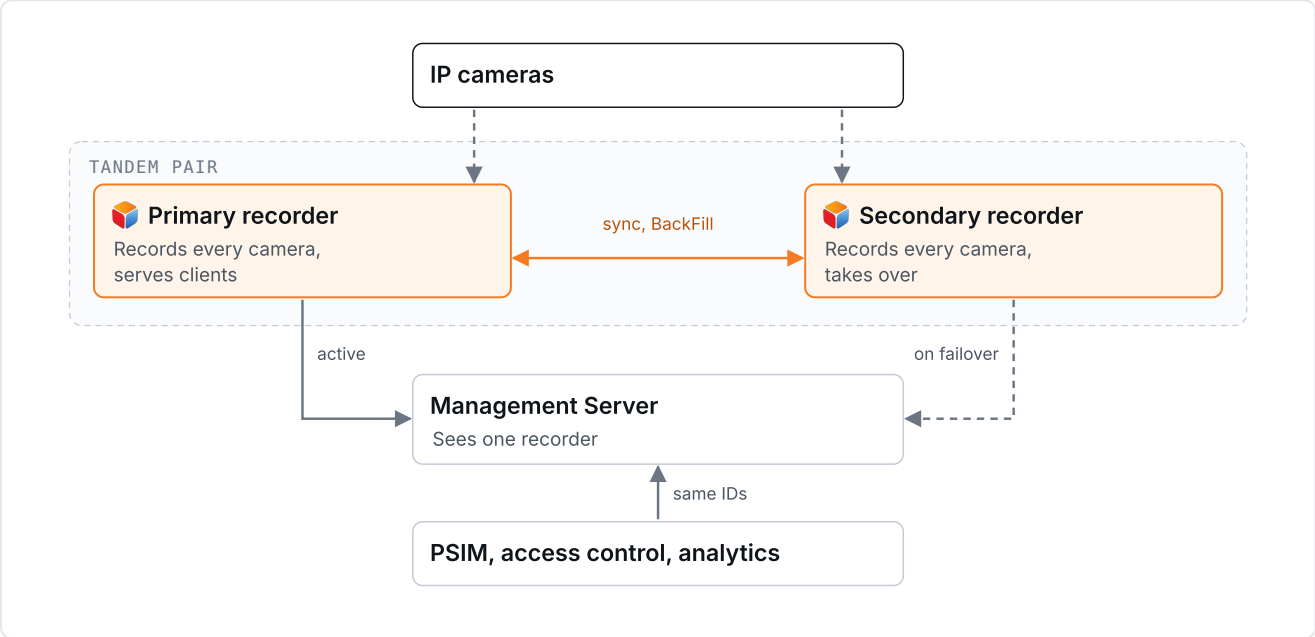
Use the Outage and Mitigation Simulators at vega365.com, or share your goals and a Vega engineer will design the architecture with you.

PRODUCT

Tandem

Two recorders. One identity. Two full copies of your video.

Tandem pairs two XProtect recording servers, physical or virtual, into one logical recorder. Both record every camera all the time, so each keeps a full copy of the video. When the active recorder fails, the other takes over within seconds, with nothing for operators to do.



Both recorders of a Tandem pair record every camera. XProtect sees one recorder.

	STANDARD XPROTECT FAILOVER	TANDEM
Copies of the video	One	Two full copies
Standby server	Waits idle until needed	Records every camera all the time
After recovery	Recordings are merged back	Bidirectional Backfill makes both copies identical

Licensing and availability

Perpetual license per recorder pair. Available since October 1, 2026, for XProtect 2026 R1 or later on Corporate, Expert and Professional+.

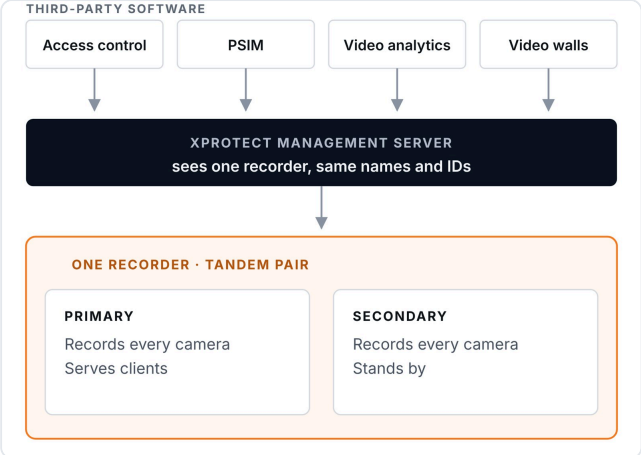
PRODUCT

Tandem

Transparent to everything built on XProtect

Third-party systems keep working

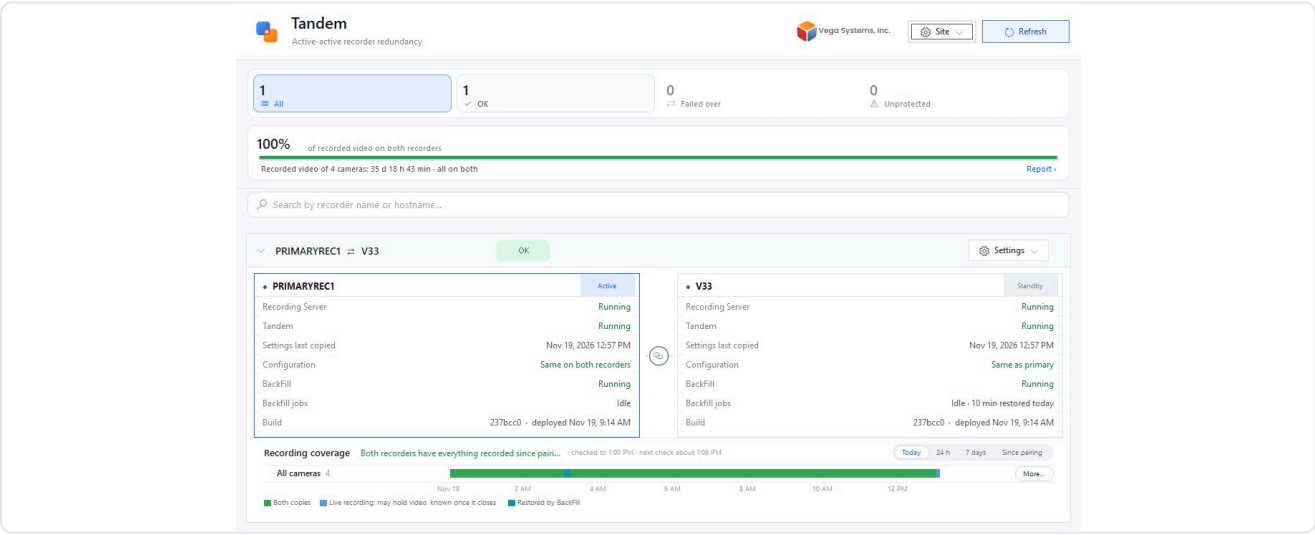
The pair presents to XProtect as a single recorder, so every name, ID and reference that integrated systems depend on stays the same through a failover. PSIM, access control, analytics, LPR and video walls need no repointing, mapping, scripts or vendor support.



Integrations connect to XProtect, which sees one recorder.

What Tandem does

- **Pairing:** presents the two machines to XProtect as one recorder.
- **Continuous configuration sync:** keeps both members identical, so either is always ready.
- **Bidirectional Backfill:** when a member returns, it copies what it missed, so both hold the full record again.
- **Bandwidth control:** hourly throttling for Backfill traffic.
- **Alarms:** failover and recovery events appear in XProtect.



The Tandem dashboard: pair status, recording coverage on both members and Backfill jobs.

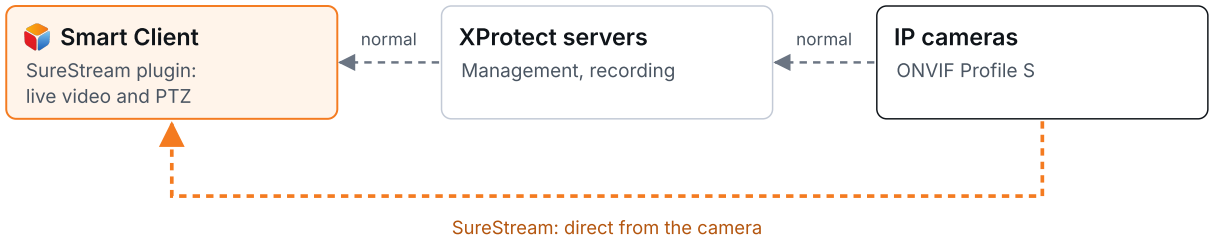
Need redundancy for the management server and SQL database, or across separate sites? Use RMF.

PRODUCT

SureStream

Client-side failover for live video in Milestone XProtect.

In XProtect, live video normally reaches the Smart Client through the recording servers. When the data center fails, is being patched or comes under attack, SureStream lets operators switch to direct camera streams in the Smart Client and keep live video and PTZ, with no extra servers.



With the XProtect servers down, the Smart Client streams live video straight from the cameras.

New in SureStream 10.0

In the Management Client

A setup wizard that tests every camera before it goes live; a camera dashboard with guided fixes; per-camera access and streaming; one-click sync with XProtect; port map export.

In the Smart Client

GPU-accelerated decoding at native XProtect performance; redesigned tiles and status messages; a new PTZ control pad; tree-based camera selection; clearer multicast diagnostics.

Also in 10.0: three streaming modes per camera (unicast, multicast and more), AES-encrypted camera credentials, camera clock sync and H.265.

Licensing

Perpetual license per camera.

Requirements

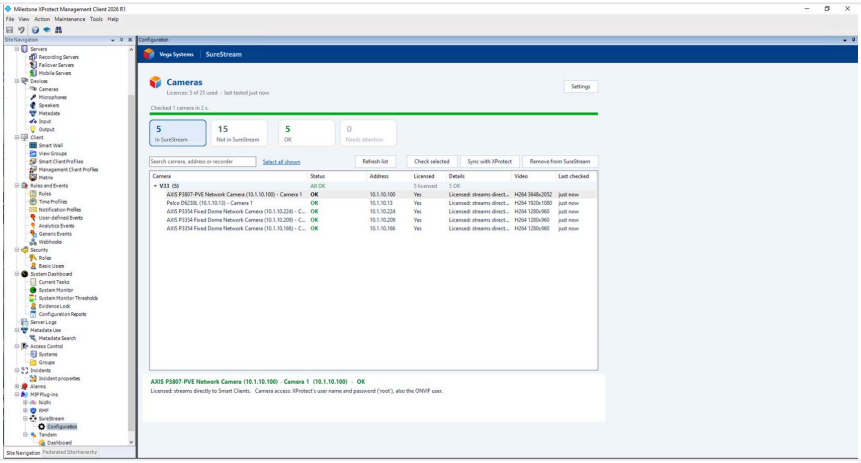
VMS	Milestone XProtect Corporate, Expert, Professional+ and Express+
Cameras	ONVIF Profile S. H.264, H.265 or MJPEG. ONVIF credentials required.
Network	Direct IP reach from Smart Client and Management Client workstations to the cameras. Multicast needs IGMP snooping on switches.
Components	Management Client plugin for configuration and licensing; Smart Client plugin on each operator workstation for streaming.

Scope

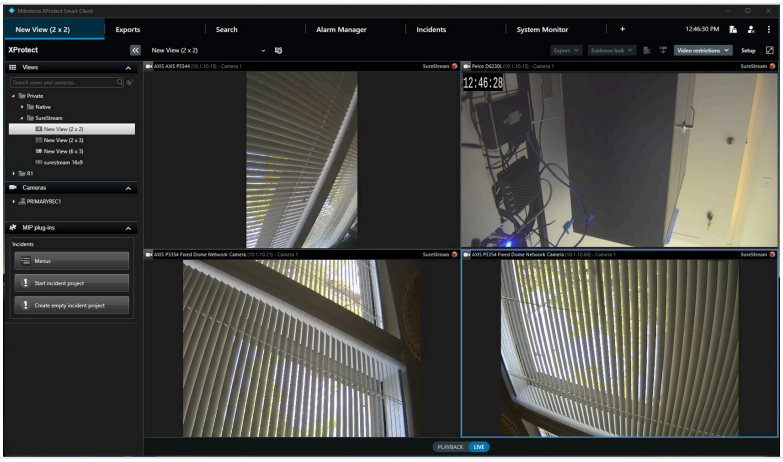
SureStream provides live video and PTZ only. Playback, recording and analytics need running XProtect servers.

> **Token timeout**
> Smart Clients log out when the management server is offline. Extend the token timeout to the expected repair time to keep operators signed in during an outage.

Port requirements by streaming mode: docs.vega365.com/surestream



SureStream 10.0 camera dashboard in the XProtect Management Client.



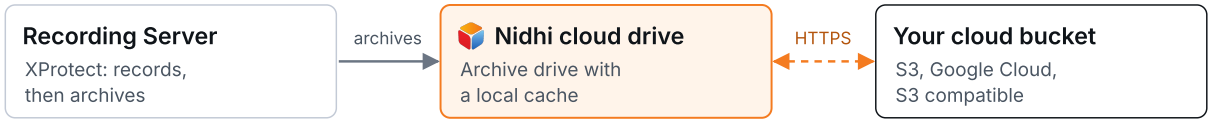
SureStream views in the XProtect Smart Client.

PRODUCT

Nidhi

The XProtect archive, extended to the cloud.

Nidhi extends the Milestone XProtect archive to cloud storage. Recent footage stays on the recording servers and older footage moves to the cloud. XProtect archives to it like any other disk and plays footage straight back from it, with no restore step.



The recording server archives to a Nidhi cloud drive, which uploads to your own bucket over HTTPS.

Works the way XProtect works

Archived footage stays searchable, playable, exportable and bookmarkable in XProtect, and can be evidence-locked.

Only XProtect deletes

Nidhi sets no expiry rules of its own, so evidence-locked footage stays put.

Your storage

Amazon S3, Google Cloud Storage and S3-compatible storage, in your own account. Vega never holds your footage.

Survives a lost recorder

If a recording server is lost or damaged, its archived footage is still in the cloud.

Licensing

Annual license per recording server, independent of data volume or camera count. Free trial available.

PRODUCT

Nidhi

Built for operations

Rides out cloud outages

A local cache on each recorder carries the archive through an outage, sized from an hour to 30 days.

Alerts in XProtect

Failures arrive as XProtect events and alarms in the Smart Client, through the rules your team already uses.

Secure by design

HTTPS to every recorder. Cloud keys never leave the recording server.

Per-recorder control

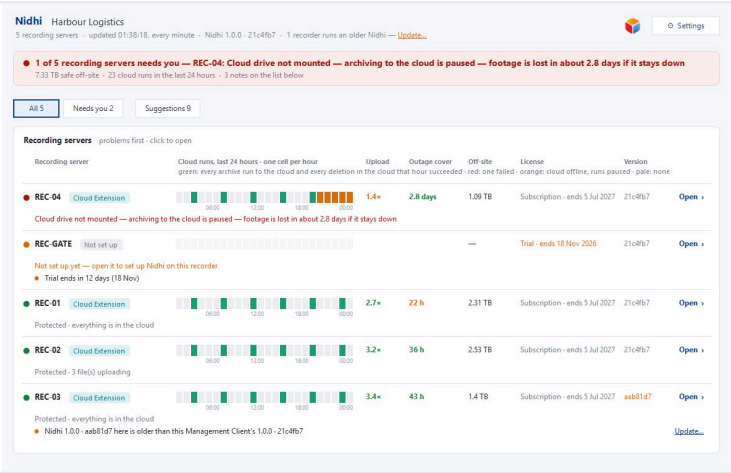
Destination and bandwidth schedule are set per recorder, so each site can follow its own windows.

Footage Protection Report

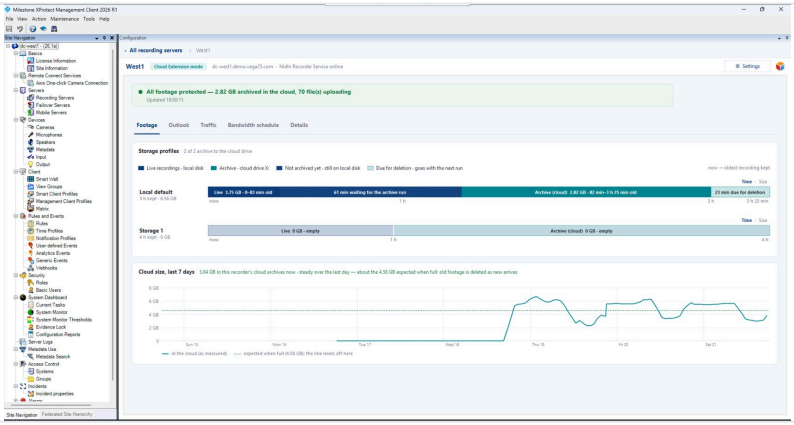
A report for customers and auditors showing what is protected.

Dashboard and setup wizard

Managed from a Management Client plugin with a site-wide dashboard.



The Nidhi dashboard: every recording server, upload status, outage cover and license.



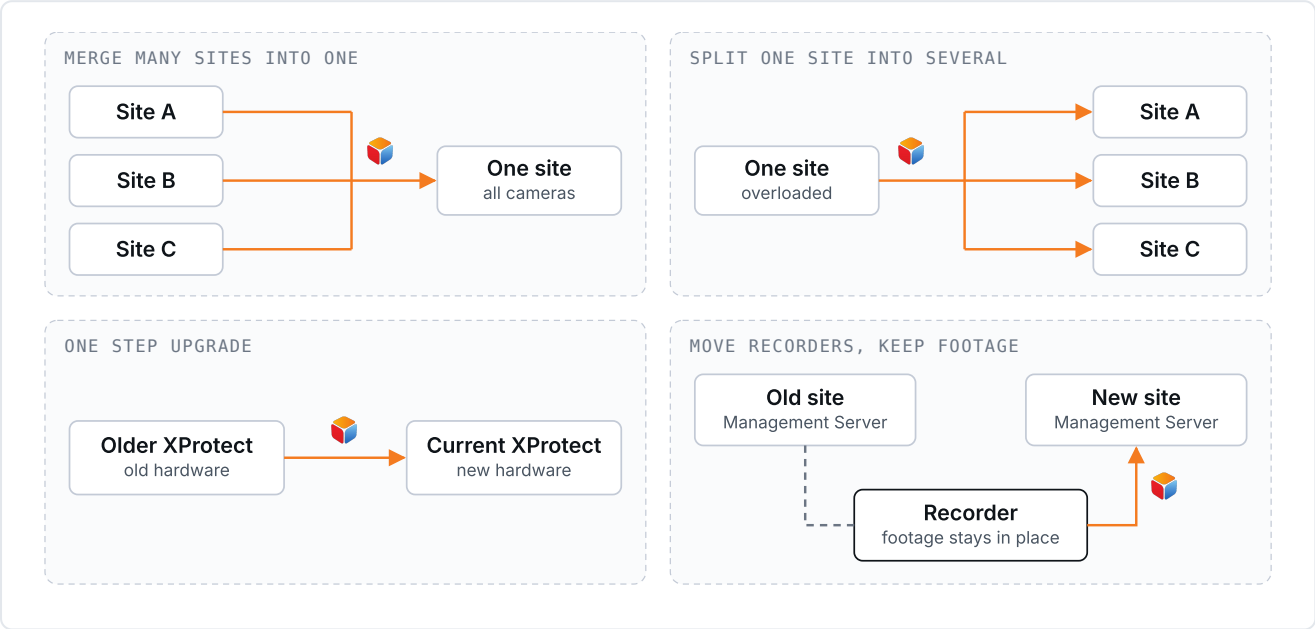
A recorder page in the XProtect Management Client.

PRODUCT

XPort

Automated XProtect migration. Save time and money on every project.

Moving XProtect to new hardware, merging sites, splitting a site or upgrading across versions usually means restoring databases, editing XML or rebuilding by hand. XPort automates it through the XProtect APIs, so video security administrators can run migrations without database expertise.



Merge many sites into one, split one site into several, upgrade in one step, and move storage volumes with their footage.

Precise control

Migrate a few devices, specific roles or everything, and choose whether to include views, privacy masks, PTZ presets and more.

Any combination

Same or different product and version, on-premises to cloud. Redistribute devices from fewer recorders to more, or consolidate many into fewer.

Cybersecure method

XPort moves the objects you select through the XProtect APIs instead of cloning the database, so whatever is hidden in the source SQL is not copied wholesale.

Media migration

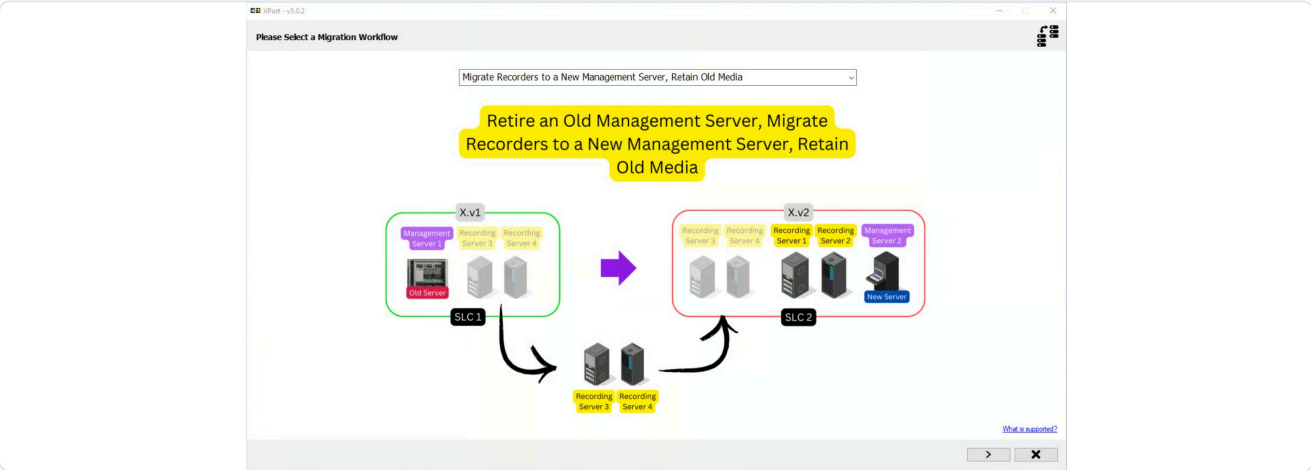
Video, audio, metadata and I/O move together, with bandwidth throttling and flexible fan-in and fan-out. Recorders can also be repointed with footage kept in place.

Licensing

Annual license: one base license per destination SLC and one site license per source recorder.

Migration workflows

One to one	Same or newer version, on new hardware or in the cloud.
Many to one	Merge siloed deployments, each with its own SLC, into one system. Original recorders can be kept with recordings intact.
One to many	Split one deployment into several, sending roles and devices where you choose. Needs an XPort license per destination.
Storage moves	Move volumes between recorders with their footage.



Choosing a workflow in XPort.

Results

National logistics provider	~70% lower cost than a manual migration of 150+ sites.
Major US city	Sites consolidated in under 2 days, down from about 3 weeks.
UK seaport (Hall & Kay)	Upgraded fully remotely in 6 weeks with no operational downtime.
Global technology company, APAC	Many XProtect versions consolidated onto one central site on the latest version.
Medical technology, Mexico and US	Recorders in Mexico repointed to management servers in the US, with configuration and footage intact.
5-star hotel, Qatar	Storage volumes rebalanced between recorders.

Source: Vega deployment data, Nov 2026. 240+ recording servers migrated with XPort. Estimate copy times with the XPort migration estimator at vega365.com.

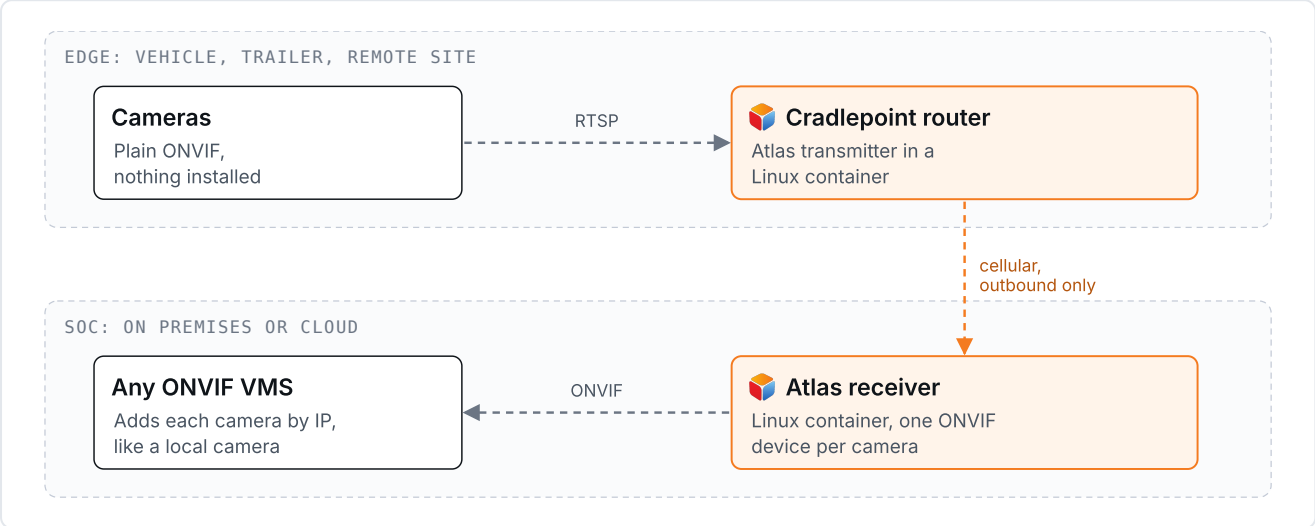
“Their team was extremely helpful throughout the entire process, providing clear guidance and resolving challenges quickly and professionally. The migration was completed smoothly, and the customer was very pleased with the final result.” Gary Donnelly, Account Manager, Security, Hall & Kay Security Engineering

PRODUCT

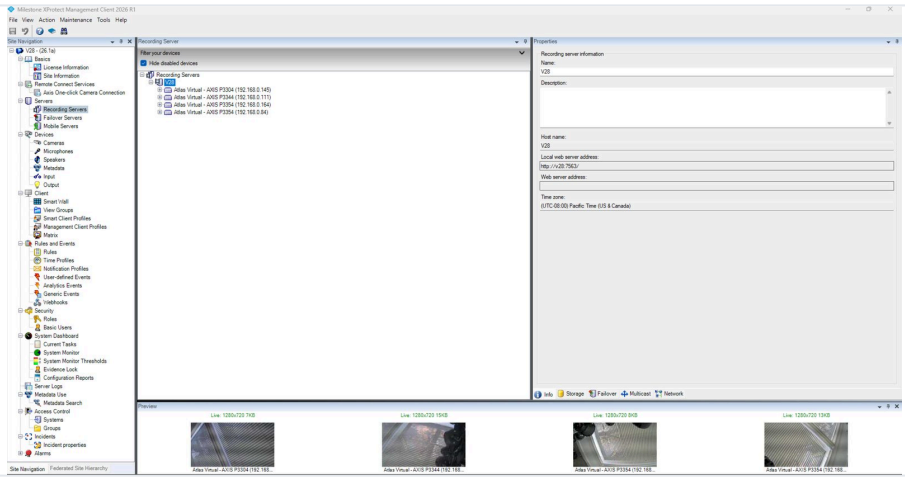
Atlas PLANNED 2027

Remote and vehicle cameras, live in the SOC over cellular.

Cameras in vehicles, trailers and remote sites sit outside the wired network. Atlas brings them into the SOC over cellular and presents each one to the VMS as a local ONVIF camera, added by IP like any other. Built on open ONVIF for any VMS.



Each remote camera reaches the SOC over cellular and appears to the VMS as a local ONVIF camera.



Four remote cameras behind a cellular router, added to Milestone XProtect as ONVIF devices (lab setup).

ONVIF virtualization

The VMS connects to each remote camera exactly as it would a local one, including camera controls.

Outbound-only edge

The edge makes outbound connections only, with no inbound ports or public IP addresses on site.

Runs in the router

The transmitter runs as a container inside the Cradlepoint router, so there is no extra box at the edge.

No VPN connector

The receiver needs no VPN; DNS addressing or a static IP works.

PRODUCT

Atlas PLANNED 2027

Control and management

Bandwidth caps

Set a cap per edge device and per camera when the uplink is shared, and Atlas respects it.

Multi-user streaming

One stream from the edge serves many viewers, without pulling duplicate streams across the cellular link.

Central management

Monitor every Atlas edge device from one place: location, health and configuration.

REST API

Programmatic setup, configuration and monitoring at the receiver.

Edge hardware	Cradlepoint routers
VMS	Any VMS that supports ONVIF. Works natively with Milestone XProtect.
Receiver	Linux container at the SOC, on premises or in the cloud
Licensing	Monthly subscription per edge camera
Availability	Planned for 2027. Early sites welcome: info@vega365.com

VEGA SYSTEMS

Contact

We design every deployment with you.

Talk to an engineer

Share your XProtect architecture and what must keep running. A Vega engineer will map out the right resilience, migration or connectivity with you.

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