



Enterprise systems integrator automates city-wide public safety media processing with Metiz

About the client

A leading enterprise technology systems integrator managing large-scale infrastructure and digital conversion contracts for public sector entities across Australia. The client needed an automated mid-office data engine to process public safety incident media – continuously pulling raw, encrypted footage from a city-wide camera network, applying processing filters, and packaging verified files into standardised daily archives for law enforcement systems.

Challenges

Cloud storage was prohibited. The platform had to deploy entirely on-premise across local Red Hat Linux servers, where variances in server behaviour turned a routine tenant setup into a two-week troubleshooting phase. Hardware was capped at 8 GB RAM while processing 50–60 cameras and roughly 200 incident profiles daily – a single camera thread could consume up to 10 GB, causing silent failures under load. Batches run every 30 minutes and must complete decryption, processing and filtering inside a 20-minute window. Live file sizes ran to multiple gigabytes against an estimate of under 1 GB per run. The original scope was terminal-only, leaving non-technical case managers unable to check system status without a DevOps engineer.



The client's new normal

Metiz Zero-Code Platform delivers an automated, secure mid-office media processing overlay, handling the full intake-to-delivery lifecycle with zero daily human intervention.

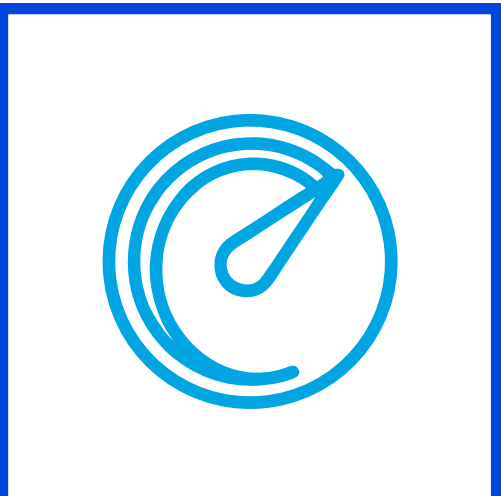
Guaranteed batch velocity

Re-engineered extraction logic keeps multi-gigabyte media batches well under the strict 20-minute threshold, eliminating crash risk.



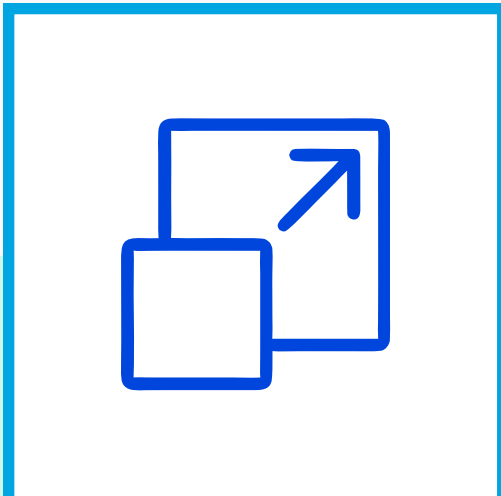
Accelerated delivery

Developed, tested and fully configured in 3.5 months, absorbing a 1.5-month hardware procurement delay.



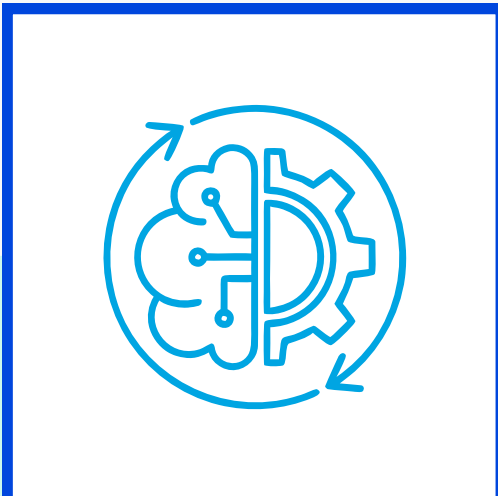
Expanded user access

A point-and-click dashboard cut manual DevOps dependency to zero, letting non-technical personnel track the daily data stream.



Automated compliance

Through real-time visibility into operational and financial metrics, allowing tracking existing investment performance and proactive decision-making





Metiz features at play

- ✓ **Automated Incremental Ingestion:** Scheduled ingestion loops run every 30 minutes, automatically scanning target subdirectories to isolate and pull only new "delta" incident assets without duplicating data.
- ✓ **Decryption & Format Extraction:** The engine automatically decrypts highly protected files directly within the local environment, executing data extractions across specialized enterprise formats.
- ✓ **Deterministic logic filters** custom Java rule sets read pixel-level data to drop invalid entries automatically. Obstruction filtering skips frames where a secondary vehicle blocks the target area; test-file purging removes blank diagnostic frames before they reach the queue.
- ✓ **100% on-premise architecture** deployed entirely on local servers to satisfy public safety data sovereignty requirements, with no cloud dependency
- ✓ **Automated daily tar packaging** at the close of each 24-hour window the engine aggregates valid assets into a compressed archive under a strict naming convention, generating a central log and a statistics log of confirmed incidents.
- ✓ **Visual management dashboard** a web front end surfacing last-run dates, batch statuses and file tables, with direct download of daily outputs.

Revolutionise your business with Metiz's modules.