

Enterprise Monitoring

Centralized Oversight for TV 3.0 Networks

DigiCAP®

DATASHEET



Enterprise Monitoring (EM) from DigiCAP is a centralized monitoring and alerting platform designed for nationwide ATSC 3.0 / TV 3.0 deployments. It provides real-time visibility, automated alerts, and system-wide health monitoring across all DigiCaster instances and associated edge components in the broadcast chain.

Built with broadcasters like Broadcaster in mind, EM enables operators to monitor hundreds of sites simultaneously, ensuring operational continuity, compliance, and proactive management of critical broadcast infrastructure.

Key Features

- **Centralized visibility:** Monitor DigiCaster-M, DigiCaster-S, DigiCaster-R, and DigiCaster-T instances across 200+ sites.
- **Real-time metrics:** Collects and displays detailed performance data (LLS, signaling, frame timing, spectrum usage, bitrate, STL info, tuner status, GPS sync, etc.).
- **Automated alerts:** Immediate notifications via Slack, Teams, Email, or Telegram when abnormal conditions occur.
- **Scalable architecture:** Docker-based deployment and time-series database for stable, high-volume monitoring.
- **Web-based dashboard:** Unified UI for live metrics, status checks, and event logs, accessible from standard browsers.

Why Enterprise Monitoring Matters

In large-scale rollouts like Brazil's TV 3.0 transition, broadcasters must maintain **consistent performance across hundreds of affiliates**. Manual monitoring is inefficient and prone to delays, leading to outages or degraded service.

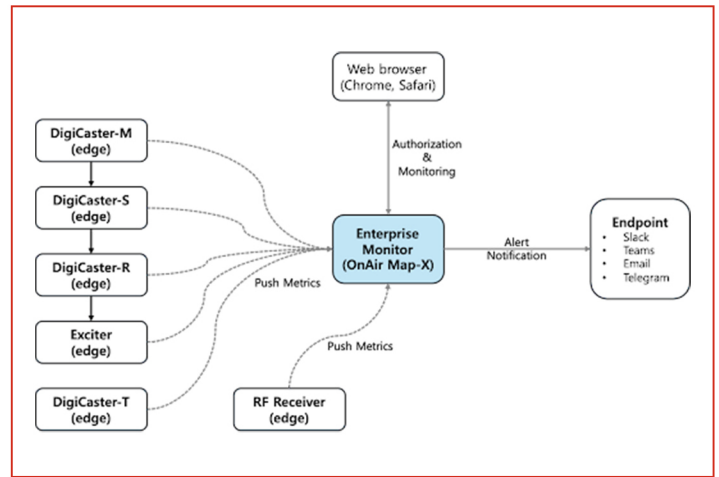
Enterprise Monitoring delivers:

- **Nationwide operational control:** One console for all sites.
- **Proactive fault management:** Alerts triggered before failures impact services.
- **Efficiency gains:** Automated data collection replaces manual status checks.
- **Future-proofing:** Scalable for growth in affiliates, services, and monitoring needs.



Architecture

- ✓ **Edge data collection:** DigiCaster systems push metrics to EM in real time.
- ✓ **Time-series database:** Optimized for stability and high-volume connections.
- ✓ **Web-based UI:** Intuitive dashboards for operators, no extra software required.
- ✓ **Notification engine:** Rules-based triggers for Slack, Teams, Email, and Telegram.



What This Means for Broadcaster

By deploying Enterprise Monitoring, Broadcaster gains:

- **Centralized visibility** into nationwide DigiCaster deployments.
- **Early-warning alerts** that minimize downtime and service disruptions.
- **Operational efficiency** with reduced manual workload.
- **Scalability** to support Brazil's full TV 3.0 affiliate network.

With EM, Globo transitions from **reactive troubleshooting to proactive management**, ensuring broadcast continuity and quality of service across the entire country.

Inputs & Outputs

- ✓ **Inputs:** Metrics from DigiCaster (signaling, certificates, bitrate, frame timing, spectrum, service tables), DigiCaster-R (redundancy state), DigiCaster-T (network delay, tuner/GPS status).
- ✓ **Outputs:** Web dashboards, alerts/notifications, system logs, and exported reports.

Security

- **RBAC support** for secure operator access.
- Encrypted data transfer between edge devices and EM server.
- Logged and auditable monitoring history for compliance.

Recommended Hardware Specification

	Minimum	Recommended
OS	Ubuntu20.04	Ubuntu22.04
CPU	8-core processor from Intel or AMD's 4th generation CPU	16-core processor from Intel or AMD's 4th generation CPU
RAM	16GB	32GB
Storage	256GB	1024GB

Specifications

- **Supported sites:** 200+ simultaneously monitored.
- **Deployment:** Docker-based, compatible with diverse OS environments.
- **Monitoring scope:** Signaling, STL redundancy, spectrum, tuner, GPS, bitrate, host resources.
- **Alert channels:** Slack, Teams, Email, Telegram.
- **Interface:** Web browser (no client installation).

Support



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