

Zyntai Director

For centralized network control and orchestration and to enable data-driven architectures

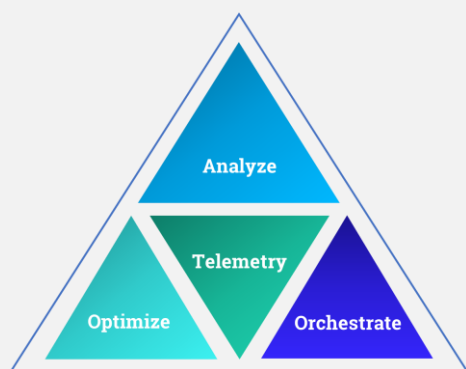
The Zyntai Director provides a wide range of Telemetry metrics which is key to understand your synchronization network. 100s of key metrics including absolute time errors, delay variations, round trip times, unidirectional delays, delay percentiles and standard deviations are measured in each Time Node with nanosecond accuracy. All metrics are collected centrally to provide sophisticated visualization of key time data and enable data-driven analytics. The Zyntai Director has a variety of functions for analyzing and presenting performance aggregate metrics and the analysis and validation of the synchronization layer is easily accessible and presented in a comprehensive visualized manner, so that the operator may resolve issues before they affect the end systems.

Centralized Management

The Zyntai Director simplifies and automates the synchronization network, improves network performance, and delivers new critical services with highest security, reliability, and availability. The Telemetry module collects critical time data both on a per node level and on a more central level. By providing comprehensive visualization of key capabilities in the synchronization layer, the overall operator efficiency is improved.

In the Zyntai Director, Net Insight has implemented 20 years of experience from operating and optimizing large synchronization networks and the solution enables both AI (Artificial Intelligence) and ML (Machine Learning) for more complete and efficient network operation.




The Zyntai Director also provides timing service orchestration which enables time and phase management over varying networks and infrastructures. The orchestration includes many functions for analyzing and presenting performance aggregate metrics like spread, hotspots, families etc.



Zyntai Director Components




Telemetry Analytics

Telemetry Analytics




-  **Measure** – Collecting sync data and 100s of real-time and sync-related metrics from all TimeNodes
-  **Analyze** – Analyzes and presents all sync data and metrics in graphs and dashboards
-  **Optimize** - Advanced processing of all data to enable optimization of sync routing and sync performance

Sync Orchestration

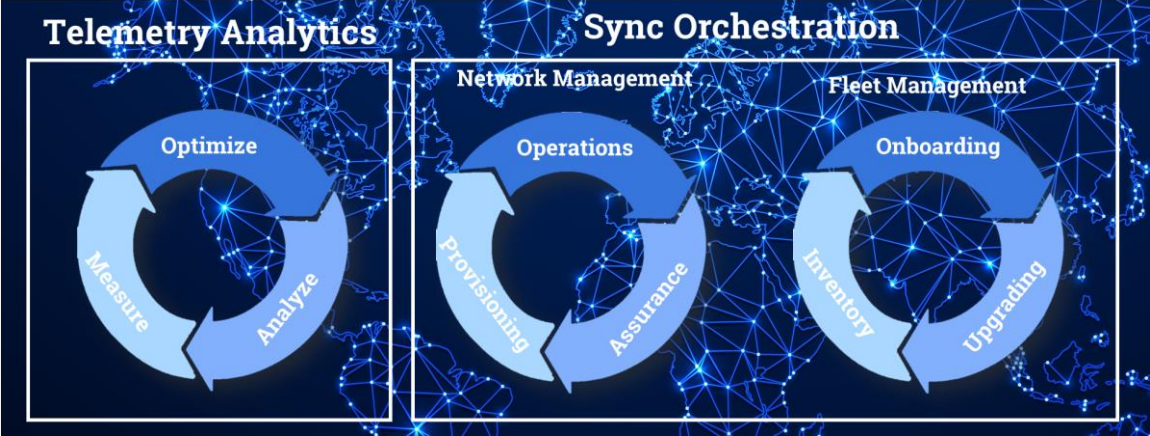
Fleet Management

-  **Onboarding** – Enabling scalable, centralized onboarding and configuration of TimeNodes.
-  **Inventory** - Enabling centralized inventory management of thousands of TimeNodes.
-  **Upgrading** – Seamless software upgrading through automated centralized procedures

Network Management

-  **Operations** – Performance monitoring, alarm reporting, network visualization link and node performance status
-  **Provisioning** - Provisioning node and sync links, configuring sync routing
-  **Assurance** – Redundancy settings, alarms, threshold settings

Zyntai Director functionality overview



Net Insight AB (publ): Phone +46 (0)8 685 04 00, info@netinsight.net, www.netinsight.net
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