PNT360

Time Synchronization Management Platform

Time & Frequency Management Platform will provide insight into your PNT systems from one easy-to-use, central location.

PNT360 is a web application which provides exhaustive monitoring of your Safran time systems.

- Visualization of time traceability metrics
- System and health status
- Centralized device management
- Alarm & email notifications

This is particularly useful for those operating multiple devices as you can manage everything from one location.

Device metrics are collected via SNMP and the device's REST API, if available, and stored temporarily in a Timeseries Database for immediate access by the web application. There is also a fully configurable metric sharing function which allows you to send us the data for further analysis.

View and monitor metrics related to network performance, timing accuracy, timing references and oscillator data, component temperature data, timing errors, and more.

Customize your experience by creating your own dashboards and adding the metrics that are the most important to you.

With our Insights license you get monitoring and management features to keep your network running smoothly or get the Enhanced license to increase capabilities to help you manage at scale, automate tasks, and stay ahead.

FEATURES	Insights Free	Essentials Call for Pricing
Dashboarding	✓	✓
Device Management	✓	✓
Topology	✓	✓
Log Aggregation	✓	✓
Email Alerting	✓	✓
Metric Sharing	✓	✓
Reporting	✗	✓
Bulk Configuration Management	✗	✓
Bulk Firmware Upgrades (SS2400 only)	✗	✓
Slack/Teams/PagerDuty Alerting	✗	✓

- Monitoring for SecureSync 1200, SecureSync 2400, VersaSync 1228, WR Z-16, WR ZEN TP-FL, WR ZEN 32BNC, White Rabbit Switch, WRZ + TSN
- 31-day data retention
- Dashboard customizability with easy-to-use basic mode or a more detailed expert mode
- Multiple visualization options
- Streamlined installation and configuration, easy install with Debian package
- Data and device comparisons with chart layering
- Import multiple devices from file
- Device Details and Data Collection Status
- Metric Sharing for analysis
- Syslog aggregator
- Localization in English, French, Spanish
- Light/Dark Mode Displays
- View of installed Option Cards/Ext. Boards
- Alerts based on user defined thresholds
- Timing Traceability Report
- Centralized Device Configuration
- Email-based alert notifications

Timing & Synchronization Monitoring

- Gain comprehensive insight into timing & synchronization specific metrics including data surrounding Network Time Protocol (NTP), Precision Time Protocol (PTP) services, Global Navigation Satellite System (GNSS) references and other time source references.

System Monitoring

- Remotely access and aggregate metrics related to device health observables and system performance such as device specific information, network metrics, aggregated logs and hardware monitoring data.

Timing Traceability

- Generate reports to view timing system information with source usage and configurations, output configurations and device-to-device time propagation.

Central Device Configuration & Management

- View details and manage the configuration of all your devices seamlessly from a central location. Setup log configuration, update NTP or PTP service configurations, add or remove references and more from an easy-to-use centralized platform.

Alerts & Notifications

- Visualize on-dashboard alerts for default or user-defined thresholds and configure customized email notifications

Topology

- View device arrangement and connections based on detected system configuration in an easy-to-read visualization.

TECHNICAL SPECIFICATIONS

Network Requirements	
SNMP Port	161/UDP
Log Aggregation Port	514/UDP

Standalone Installation Recommendation		
OS	Linux (Ubuntu 22.04 or newer)	
Processor	Intel Pentium 4 processor SSE2 Capable	
Memory	4GB RAM Minimum	
Storage	**Component**	**Recommended allocation**
	Operating system	20 GB
	PNT 360 application	4 GB
	Monitoring/data storage	128 MB × monitored devices
	Minimum storage	**24 GB + (128 MB × devices)**

Ex: 20 GB OS + 4 GB PNT 360 + (40 Devices × 128 MB) = ~29 GB

Deployment recommendation: PNT 360 should be installed on a dedicated server or virtual machine. The resource requirements above assume the system is dedicated to PNT 360. Running additional applications on the same system may require additional CPU, memory, and storage resources.