



Tervela[®] TPM Provisioning & Management System[™]

TPM-1000

Central Messaging Control

The Tervela TPM Provisioning & Management System is an administrative platform that provides centralized control of the Tervela Message Network[™]—an ultra-low latency infrastructure designed to solve market volume, volatility and visibility challenges. With a single-point web interface, the TPM manages and monitors:

- Tervela TMX Message Switch[™] to provide enterprise scale, unparalleled speed and continuous stability
- Tervela Client API[™] to decouple producers from consumers
- Tervela TPE Persistence Engine[™] to capture all message traffic and address storage requirements
- Tervela TSE Service Engine[™] to provision common extensible applications

The TPM presents a holistic view of the messaging infrastructure so administrators can make informed and justified decisions on the provisioning and configuration of applications, servers and network resources. These include feed

handlers and last known value (LKV), book and persistence services.

By non-intrusively capturing and collecting statistical data on overall network health and operations, the TPM centrally aggregates message traffic flow information for the entire enterprise. This enables administrators to:

- Establish and enforce access privileges based on user entitlements, subscriptions and topics
- Provision and deploy messaging systems and services throughout the enterprise
- Monitor message traffic and manage data flow in real time
- Track and store configuration, utilization and performance information
- Report and alert on usage patterns and performance

Unlike traditional messaging systems and message-oriented middleware solutions, the TPM provides administrative control that ensures sustained high-performance messaging, ultra-low latency and operational continuity—even during periods of extreme market volatility.

HIGHLIGHTS

Centralized control and manageability across the messaging infrastructure

Dynamic provisioning of messaging systems and services

Holistic monitoring of message traffic in real time

Ability to separate administrative control traffic from application data flow

Extensive schema management and field mapping capabilities

Seamless integration with existing systems

Centralized Management

As a centralized provisioning, management and monitoring system, the TPM eliminates the “multi-touch” approach to administration typical of other solutions. By configuring network components, managing topics and establishing user access privileges, the TPM provides a single point of control across the entire messaging infrastructure. It also offers extensive schema management and field mapping capabilities to ensure data integrity and operational flexibility.

Visual Monitoring

With end-to-end visual monitoring, the TPM displays all messaging devices, applications and connected clients across the Message Network in real time or via playback. The system collects and monitors comprehensive information—including current utilization, message rates, per-feed statistics and administrative activity such as login attempts, subscription requests, retransmission requests, responses and more—without impacting performance. It also details per-application information such as CPU and memory utilization, subscribed topics and message throughput. This enables administrators to quickly review and drill into historical application or network event data to determine the root cause of a problem or outage.

Extensive Alerting

The TPM provides continuous, real-time alerting that automatically sends email to administrators when thresholds on monitored statistics are met or exceeded. Alerts can be viewed directly through the TPM or SNMP monitoring systems.

Comprehensive Reporting

The TPM works with the TMX to provide the following data:

- Subscriber topics
- Network connection and device status
- Sent and received messages per time interval
- Slow consumers over specified time periods

Administrators are able to import and export data in XML, access event logs and drill into reports to analyze utilization and performance information. The TPM also tracks configuration changes across the messaging infrastructure to help meet audit report requirements.

Key Advantages

- Provides a single point of administrative control
- Monitors the network and manages traffic flow
- Establishes and enforces user access privileges
- Shows real-time and historical slow consumers
- Reports and alerts on performance levels
- Improves data integrity to increase efficiency

Technical Specifications

Physical Dimensions

1U: 1.75" (44.45 mm) h x 17.25" (438 mm) w x 29" (736.6 mm) d
33 lbs. (15 kg)

Power Requirements

100-240V; 50-60Hz; 218.5W; 746 BTU/hr

Operating Environment

Airflow: Front to Back

Operating: 41° to 95° F (5° to 35° C)

Storage: -40° to 158° F (-40° to 70° C) Non-Condensing

Interfaces

2 Gigabit Ethernet (Management)

1 DB9 Serial Console Port

Environmental

FCC Part 15, Class A

ICES-003, Class A

EN 55022, Class A

AN/NZS CISPR 22, Class A

Contact Tervela

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