

# SYNCVIEW™ MANAGEMENT SYSTEM

For effective management of Oscilloquartz synchronisation equipment

- Full support of the entire line of Oscilloquartz synchronisation equipments, from PRC racks to SSU/BITS, GPS receivers and SDU
- Geographical representation of the entire synchronisation network
- Comprehensive management services: Fault, Configuration, Performance, Security and Operational Management
- Real-time and historical performance monitoring of inputs
- Flexible Client/Server hierarchical configuration to adapt to any size of synchronisation network and operational organisation
- Dynamic inventory data management and remote SW upgrade support
- User-configurable security levels
- Trouble-free deployment : SyncView™ is provided pre-installed and pre-configured. Redundant, high availability platform also available
- Platform: Win2003 Server / XP Professional / SQL 2000
- Communication support: Ethernet and X.25
- Seamless integration into third party Operations Support Systems (OSS) via optional SNMP / Q3 / TLI North-bound interfaces
- SyncView™ Client on UNIX to access SyncView™ from UNIX workstations

The leading partner for your  
synchronisation needs

# Overview

SyncView™ is Oscilloquartz' powerful Synchronisation Management System that allows telecom operators to manage all Oscilloquartz synchronisation elements from a single point and optionally enables control at regional levels.

The system offers a user-friendly graphical interface with network and element views.



## Full equipment support

SyncView™ supports all Oscilloquartz' synchronisation equipment including PRC, SASE, SDU and GPS line of products provided with management interface. All functionalities are fully supported by the graphical interface.

## Comprehensive management services

SyncView™ provides full Fault, Configuration, Performance and Security management.

### Fault Management:

➤ Fault Management handles the collection and processing of alarm messages, status data, events and other information from the elements. It also enables consolidation and prioritisation of data, filtering of alarm listings and presentation of data, to alert the system administrators of any problems in the synchronisation network.

### Configuration Management:

➤ Configuration Management provides control over all available functions across the synchronisation systems

connected, enabling reconfiguration, restoration and other operating functions. Access to all operations or actions depend on the profile of the user.

### ➤ Performance Management:

Performance data coming from managed elements capable of performance measurements are collected simultaneously on all input references, over predefined periods. SyncView™ Performance Management correlates data relating to the performance of the synchronisation systems to evaluate short and long term trends as

well as potential problems in the network. It also generates MTIE, TDEV and frequency graphs for comparison with international standards such as ITU-T or ETSI.

### Security Management:

➤ Each user is allocated a Security Management profile. The profile controls the actions that a user may perform and the elements upon which these actions can be performed. SyncView™ provides five user-configurable authority levels.

## Flexible architecture

SyncView™ is based on a client/server architecture with a relational database. Multiple client applications can be connected to a server to allow access to applications such as network browser, alarm list and performance management.

The Network Manager (NM) and Regional Manager (RM) are applications running on a Windows 2000 or 2003 Server platform normally located respectively at the network's main control centre and at secondary regional control centres.

Both NM and RM offer fault, configuration and performance management for each element. Security management can only be performed on the NM.

Depending on network size, SyncView™ can be configured in several ways:

### SyncView™ Network Manager

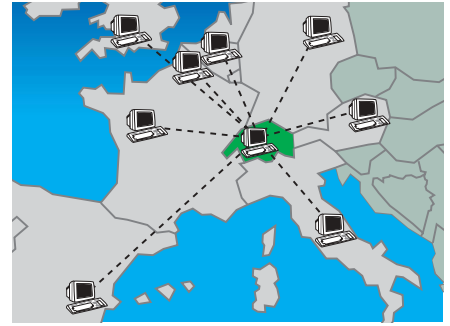
➤ A single Network Manager (NM) is suitable for managing small- to medium-sized synchronisation networks.

This option is upgradeable to a larger configuration such as the one described below.

### SyncView™ Network Manager & Regional Manager

➤ To manage large and more comprehensive synchronisation networks, a two-tiered architecture is recommended.

This consists of a Network Manager (NM) and a number of Regional Managers (RM).



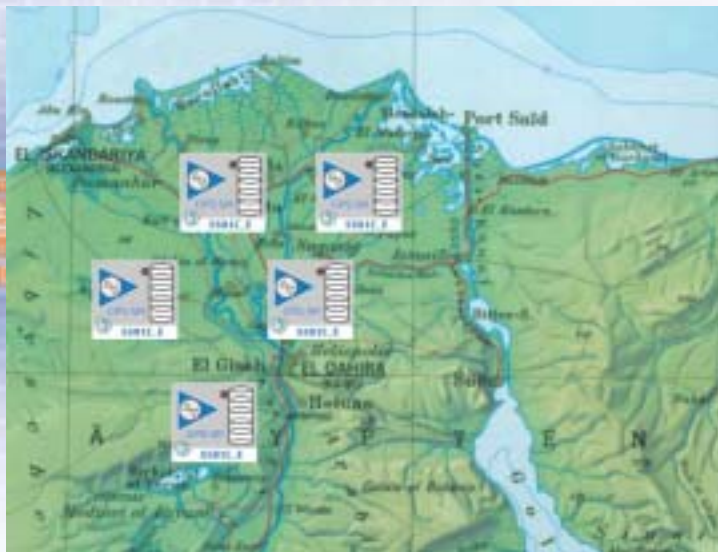
## Trouble-free deployment and operation

SyncView™ clients and servers stations are provided pre-installed and pre-configured for trouble-free deployment.

Moreover, if enhanced reliability is required, a redundant, high availability platform featuring hot-pluggable modules is also available as an option.

The optional SyncView™ Backup package allows to perform full backups while the application is running.

Backed up data include full Windows operating system data (including security, registry, SW licensing information, hidden files, open files, etc), full SQL 2000 data base status and full SyncView™ application data. SyncView™ Backup allows disaster recovery in less than one hour.



## Integration into third party OSS's

SyncView™ SNMP-Light, Q3-Light and TL1-Light interface modules enable seamless integration of Oscilloquartz synchronisation elements into third party Operation Support Systems (OSS). They forward alarm and events to the north-bound interface, allowing to concentrate fault management from

heterogeneous, multi-vendor management systems on a single OSS screen.

Finally, the optional SyncView™ Client on UNIX integration package allows access to a SyncView™ NM or RM server from any UNIX host.

## OS platform and data base support

SyncView™ is based on the latest Windows platform.

More precisely, SyncView™ NM and RM servers feature a Windows 2000 or 2003 Server OS and SQL 2000 DBMS, while SyncView™ Clients are based on Windows 2000 Professional or XP Professional

# Technical Specifications

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<p>Platforms:</p> <ul style="list-style-type: none"> <li>➤ SyncView™ NM/RM Platform:</li> <li>➤ Intel Pentium-based computer, TFT monitor</li> <li>➤ MS Windows 2000 or 2003 Server Operating System</li> <li>➤ MS SQL 2000 DBMS</li> <li>➤ Optional high availability platform (RAID, dual network interface, hot pluggable modules)</li> <li>➤ Optional backup package</li> </ul> <p>SyncView™ Client Platform:</p> <ul style="list-style-type: none"> <li>➤ Intel Pentium-based computer, TFT monitor</li> <li>➤ MS Windows 2000 or XP Professional Operating System</li> </ul> <p>SyncView™ Client on UNIX:</p> <ul style="list-style-type: none"> <li>➤ Citrix Metaframe XP</li> <li>➤ MS Windows 2000 Terminal Services</li> </ul>	<p>Configuration:</p> <ul style="list-style-type: none"> <li>➤ Full access to NE configuration</li> <li>➤ Dynamic logical view of equipment</li> <li>➤ Zooming to module and sub-module information</li> <li>➤ Remote SW download (for selected modules)</li> <li>➤ Dynamic inventory information</li> </ul>
<p>Architecture:</p> <ul style="list-style-type: none"> <li>➤ Client/Server</li> <li>➤ Optional two-tiers architecture (Network and Regional Managers)</li> <li>➤ Virtual Regional Managers</li> </ul>	<p>Performance:</p> <ul style="list-style-type: none"> <li>➤ 15min , 8h and 24h performance measurements</li> <li>➤ MTIE, TDEV, Ym graphs for all inputs</li> <li>➤ Up to 24 curves displayed simultaneously</li> <li>➤ Easy comparison with pre-defined standard templates</li> </ul>
<p>OSS Interfacing:</p> <ul style="list-style-type: none"> <li>➤ Available Northbound interfaces:</li> <li>➤ SyncView™ SNMP-Light</li> <li>➤ SyncView™ Q3-Light</li> <li>➤ SyncView™ TLI-Light</li> </ul>	<p>Security:</p> <ul style="list-style-type: none"> <li>➤ Five user authority levels: Read-only, Operator, Engineer, Administrator, Super-user</li> <li>➤ User authority control on NE basis</li> <li>➤ Security audits</li> </ul>
<p>Fault:</p> <ul style="list-style-type: none"> <li>➤ Alarm/Event display filtered by: NE, time/date range, alarm/event type</li> <li>➤ NE alarm status displayed on alarm totem directly in NE icon</li> <li>➤ Report printing &amp; export capabilities</li> </ul>	<p>Administration:</p> <ul style="list-style-type: none"> <li>➤ Manual and automatic archiving</li> <li>➤ Database comparison and alignment</li> <li>➤ Full SSM support</li> <li>➤ Full RTU support</li> <li>➤ Optional automatic backup of the entire machine for disaster recovery solution in less than one hour</li> </ul>

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