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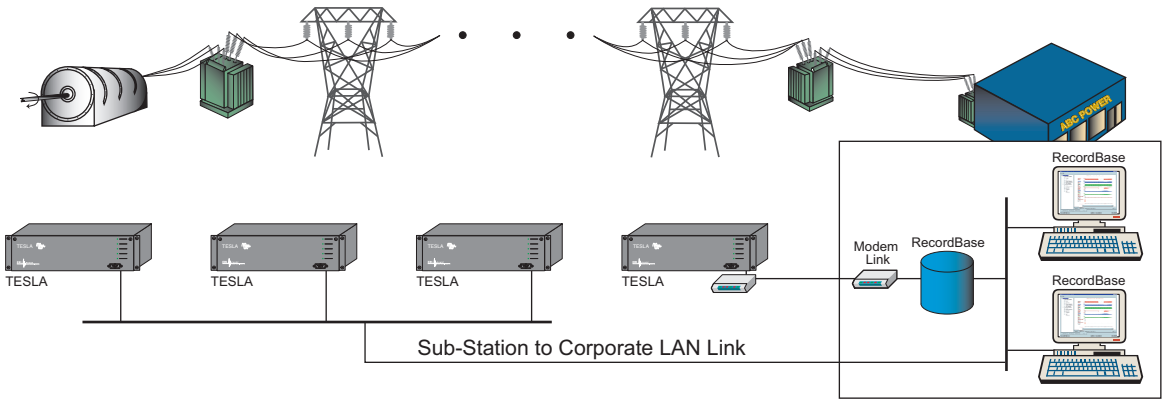
ERL PHASE Power Technologies

RecordBase Central Station



RecordBase central station software provides automated collection, storage and network access to transient fault and dynamic swing records produced by TESLA recorders.

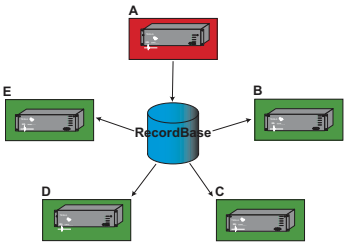
- Automated record transfer from TESLA recorders on a scheduled call-out or by recorder initiation
- Unique central cross-triggering of TESLA recorders provide system-wide dynamic swing recordings for stability analysis
- Accelerated post-disturbance analysis, NERC-compliant
- Supports COMTRADE, PTI and Excel output formats, plus graph export for report generation
- Company-wide access to record database on existing Windows® computers through the corporate LAN

The RecordBase central station features:

- Integrated record database with search, sort and filter functions by date/time, IED, fault class data, swing class data and record sets
- Graphical, interactive record display with timebase, phasor, harmonics and symmetrical component analysis tools
- Record summaries with classification, priority assignment, event lists and shared analysis comment field
- Status reporting and self-monitoring
- Runs on a standard PC platform (Windows® 2000/XP), supports TCP/IP protocol

RecordBase manages system wide dynamic swing recording

RecordBase accepts a dynamic swing recording trigger from a TESLA recorder (A) and issues time synchronized cross triggering commands to other TESLA recorders (B–E). RecordBase ensures a system wide synchronized snapshot of the grid's response to a dynamic disturbance using TESLA recorder's 20 minute record buffer and IRIG-B time synchronization features.



RecordBase Central Station

Network access to records from any desktop

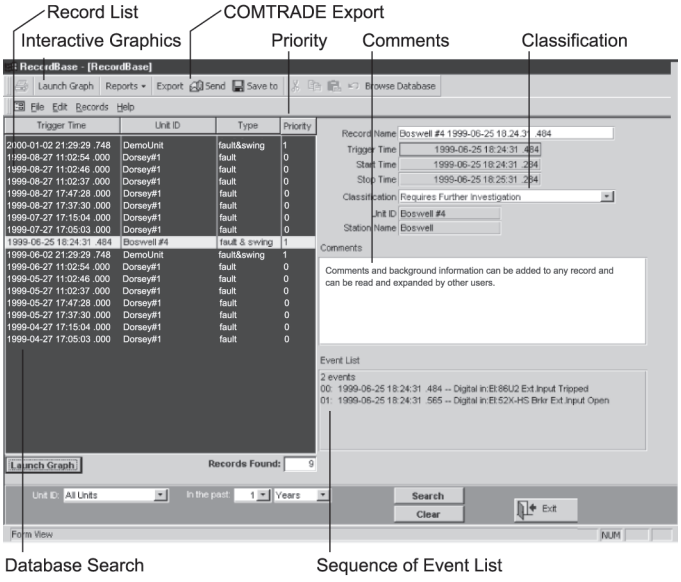
RecordBase maintains a central database of fault and dynamic swing records, providing company-wide access to data though the LAN. From any Windows desktop, search the database, display and sort a record list and view record summaries. The display integrates tools to generate reports, launch the interactive record analysisgraphics and export record data.

Automatic Record Collection

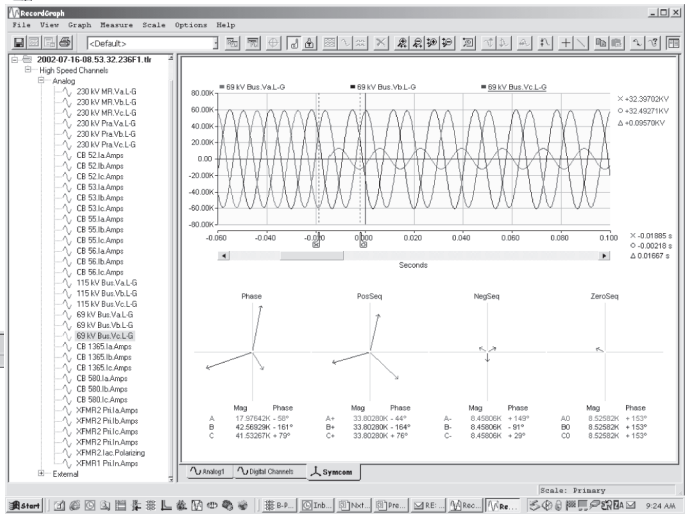
RecordBase automatically retrieves records via LAN or modem and adds them to its database. Configure record retrieval to occur on a polled schedule initiated by RecordBase or on a report-by-exception basis.

Analysis - faults, dynamic swings and events

State-of-the-art record graphics provide a complete tool for analysis oscillography, symmetrical components and harmonic. View system performance with simultaneous multiple-record display. Up to ten viewing sheets provide quick access to hundreds of channels. Use standard record viewing layout formats.



Timeline View displays the transient, dynamic swing and event data.



Symmetrical Component View analyzes positive, negative and zero sequence components of three phase voltages or currents.

System Administration Tools

RecordBase provides information about the current communication status of each TESLA recorder including a log of communications activity and diagnostics.

System Description

RecordBase consists of two main software components: RecordBase Server and RecordBase Tools.
RecordBase Server (Windows NT/2000/XP) minimum requirements – Pentium II 350 MHz, 256 MB and 100 MB of disk space.
RecordBase Tools (Windows 9x/ME/NT/2000/XP) minimum requirements – Pentium II 350 MHz, 128 MB and 100 MB of disk space.

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