Enterprise
Technology
Solutions

YOKOGAWA ◆

Event Analysis Package

Exaplog

Process log analyzer helps optimize plant operation

Analyzes DCS Event History to Help You Enhance Efficiency

The Exaplog Event Analysis Package provides tools for managers, engineers and supervising operators to analyze DCS plant historical logs, and helps balance the process and enhance efficiency. Exaplog uses trend graphs to measure process request - operator action "balance", and pie charts or tables to analyze event-type distributions, so helps you identify and reduce unimportant/ consequential alarms, identify and improve inefficient operation sequences – and so balance the process and enhance efficiency.

Enhance Process Stability: Balance Process Events and Operator Actions

The Event Balance Trend (EBT) shows the *numerical balance* between process requests (events such as alarms and messages) and operator actions (such as tag mode and setpoint changes), and the *relative timings* of event and operation peaks – which are indicators of process stability and controllability.

## When, Where, What (3W) Filters Help You Narrow Focus of Analysis

Filters allow you to set items to display, set 3W include/exclude conditions and scope – e.g. (time) span, station or event type – in order to deduce the cause of a process unbalance. Filter settings can be saved for reuse. You can sort tables by keys such as message type and station IDs.

Event Balance Trend Window (When)
Lack of balance between process requests (+ axis) and operator actions (– axis) can indicate timing of process problems (areas for improvement).

Category Sort Window (What)
Events sorted by category (e.g. alarm, process status change) can be displayed as a pie chart or table.
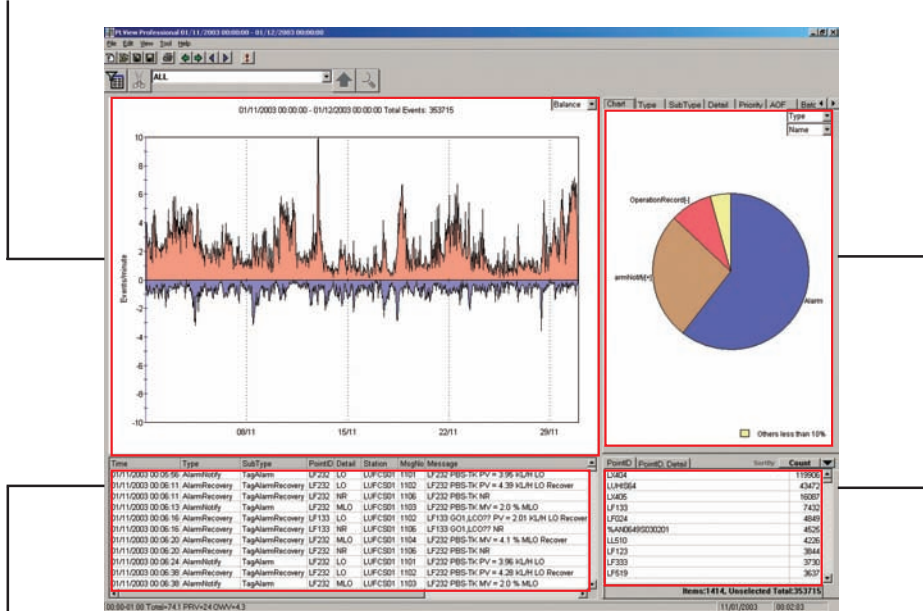
PL View

Message Summary Window
Displays time of events, type, and detail in order of event occurrence.

Point ID Sort Window (Where)
Displays events, sorted by frequency, with tag names/station IDs.

Event Balance Trends Suggest Areas for Improvement

EBT patterns:

EBT Pattern	Pattern Type	Suspected Problem
	Balanced	No short term problem
	Excessive Notification	Redundant alarms/messages Unimportant alarms/messages
	Excessive Operation	Complex operation sequence Insufficient operator guidance
	Operator Work Overflow	Insufficient operator capability Complex operation sequence
	Inadequate Operation	Unstable process Complex operation sequence

Continuous Improvement with Continuous Use

Using the package continuously helps you to optimize alarm settings, continuously improve process quality, safety, and productivity – and reduce costs.

Find Problem → Analyze → Solution → Evaluation
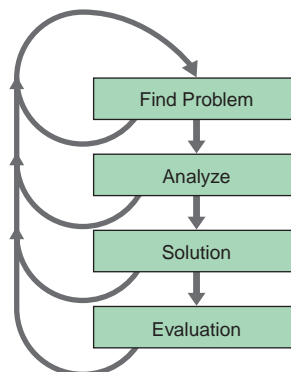
Supported Platforms

CENTUM VP: R4.01 or later
CENTUM CS 3000: R2.01 or later
CENTUM CS 1000: R1.01 or later
CENTUM CS: R2.05 or later
CENTUM-XL: R12 or later
μXL: R11 or later
Exaquantum R2.20 or later
*CIEMAC DS (Toshiba)
*Journal Station for TDCS (Yamatake)
*TDCS3000 (Honeywell)
*Delta-V (Emerson)
*MICREX-IX (Fuji)

Hardware Operating Environment

CPU: PC/AT (DOS/V) compatible, Pentium4 1.8 GHz or faster (Windows XP, Windows Server 2003) Core 2 Duo 2.13GHz or faster (Windows Vista)
Main memory : 768 MB or more (Windows XP, Windows Server 2003) 1GB or more (Windows Vista)
Disk capacity: 50 MB or greater free space
CRT display: 1024×768 or greater recommended (min. 800×600)

Note: Following hardware operating environment is recommended when more than 100,000 events occur per month.

CPU: Pentium4 3 GHz or faster
Main memory : 2 GB or more

Software Operating Environment

OS: Windows XP Professional
 + Service Pack 1, 2
 Windows Server 2003 Standard Edition
 + Service Pack 1, 2
 Windows Server 2003 R2 Standard Edition
 + Service Pack 1, 2
 Windows Vista Business Edition
 + Service Pack 1

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