• MAXGAUGE
  OVERVIEW
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• FEATURE
  REAL-TIME MONITOR
  ADMIN
  PERFORMANCE ANALYZER

• PERFORMANCE ANALYZER
  ALERT & MONITORING
  EXEM DASHBOARD
SW solution for database performance optimization

MaxGauge is a software solution to manage the database performance providing real-time monitoring and operation data collection/diagnosis/analysis, SQL tuning, etc., to effectively manage the system’s availability and performance. With its Pro-Active monitoring technique, MaxGauge also provides concrete analysis data on the effect of investments by instantly identifying problems, effectively analyzing the bottleneck effect of applications, and storing diverse performance data.
ARCHITECTURE

Real-Time Monitoring

Performance Analysis

DB Server
- Kernal API
- Sysmon Daemon
- TCP/IP (9729)
- MySQL Repository
- JDBC (3306)

Logging Server
- WAS
- JDBC (3306)
- Gather Daemon
- MySQL Repository

Web (8070)
Performance collection data types

MaxGauge
for MySQL

STEP 1.
- Source Data

STEP 2.
- Log
  - Error Log
  - General Log
  - Slow Log

STEP 3.
- Kernel API
  - CPU
  - I/O
  - Memory (Kernal API)

STEP 4.
- Performance SCHEMA
  - SYSTEM_EVENT
  - SESSION_EVENT
  - CURRENT_WAIT (ActiveThreads)

STEP 5.
- Status & Variables
  - Variety of Status
  - Parameter (variables)
  - Replication Delay

STEP 6.
- INFORMATION SCHEMA
  - Process_List (Active Threads)
  - INNODB_LOCK_WAIT
  - INNODB_LOCKS
  - INNODB_TRX
FEATURE

REAL-TIME MONITOR
ADMIN
PERFORMANCE ANALYZER
Easy and intuitive user interface

View by service group

Visualization of OS and Thread index

Integrated monitoring of multimode performance index

Wait monitoring

Real-time event recording

Slow Query monitoring

Active Thread and query data

Visualization of OS and Thread index
Easy arrangement of performance index according to operating conditions

Changeable monitoring performance index
DB monitoring through an easy **TOP-DOWN** approach

Linkage to the Thread Detail screen by double-clicking for the thread performing query for a long time.

Data on current standby events, OS index, and ongoing SQL.
Identification of the number of active threads **according to the respond time**
SLOW QUERY analysis *through* Xview, real-time monitor

Mouse drag on the area to be check

Slow query list included in the drag time can be checked. SQL sentences and PLAN.
Alarm history is provided **based on the threshold setting**.
Lock/Session/Parameter data linkage of **certain instances through tools**

Right-click mouse

Holder/waiter data at lock

Session group monitoring through conditional searching

Parameter List on the appropriate instance
Simple MaxGauge management through **Admin functions**

- **Easy server registration and Test connection**
- **User account addition and authorization**
- **Easy threshold setting**
Admin Group management by operation instance

Grouping by operation instance on the View Setting tap

Multi View check of certain groups
Performance Analyzer to analyze the data *stored in the repository*.
Provision of all indexes provided by MySQL
LOCK history at a certain time is provided in a tree structure.

Detailed analysis through a drag at a certain time.

Lock Tree at a certain time can be checked.
Dead Lock analyzes real-time LOCK waiting relations
Real-time provision of InnoDB Status data

InnoDB Status is recorded every 5 seconds
TOP-DOWN analysis of SLOW QUERY at a certain time

① Slow Query at a certain time can be checked by dragging the period

② Double-click of the Slow Query to be checked
Easy collection and search of the ERROR/EVENT log which can be exported in Excel
Enterprise Management System

ALERT & MONITORING
EXEM DASHBOARD
Swift response to **any alert by sending messages**

Alert can be set for all stats and events provided by MySQL, ensuring fast and accurate detection.

- An alert occurs when a preset item exceeds the threshold
- Data per second is checked and sent via SMS individually or in a group
  - Transfer in an individual or a group
  - Repetition limit for a certain time or message
  - Message filter
  - Recording of sent messages
- Data is sent to the client via SMS or e-mail
Health Check of several instances through the **EXEM Dashboard**!

EXEM Dashboard 3.0 is a monitoring screen that shows up to 140 instances in real time at once, enabling real-time
Strong connection of the **Real-Time Monitor and PA**

The instance can be linked to the Real-time Monitor or the Performance Analyzer by right-clicking on the dashboard.
Provision of the history and stats of **all instances registered in the Dashboard**

The event history and stats of all registered instances can be checked.
Thank you