

Loki Data Logger

Advanced Database Historical Data Logging

Loki is a data logging application that can log data it receives from an 'OPC Server', into any database supported by Microsoft ODBC (Open DataBase Connectivity). Microsoft ODBC supports Access, Excel, SQL Server, Oracle, and many more database platforms. Loki will create a table, or set of tables within an existing database, and log data to it.

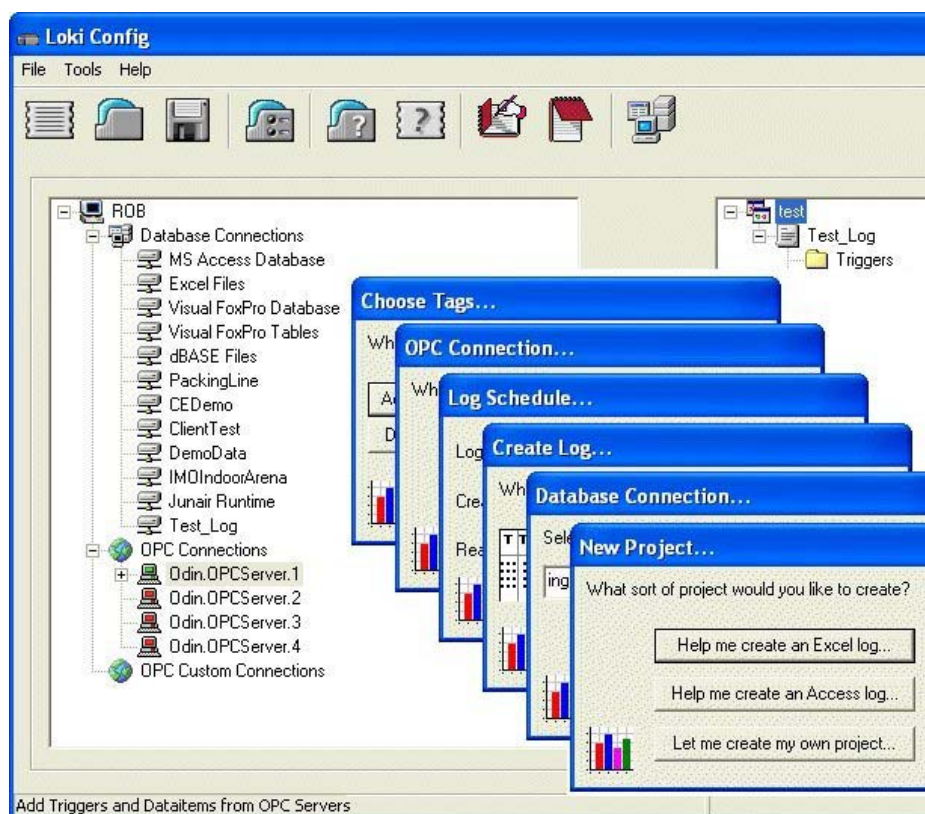
Data is received via OPC, from an 'OPC Server'. OPC is an industry standard way of transferring data between a server and a client application. OPC itself is a technology defined by the OPC Foundation, an organization that exists to create this standard of data transfer.

Loki can receive data from IMO's 'Odin' OPC Server product, or IMO's 'Panel-Point' Scada System. Both of these applications provide an OPC Server which can supply raw data received from a variety of sources, such as PLC's, temperature controllers, drives, HMI's, etc.

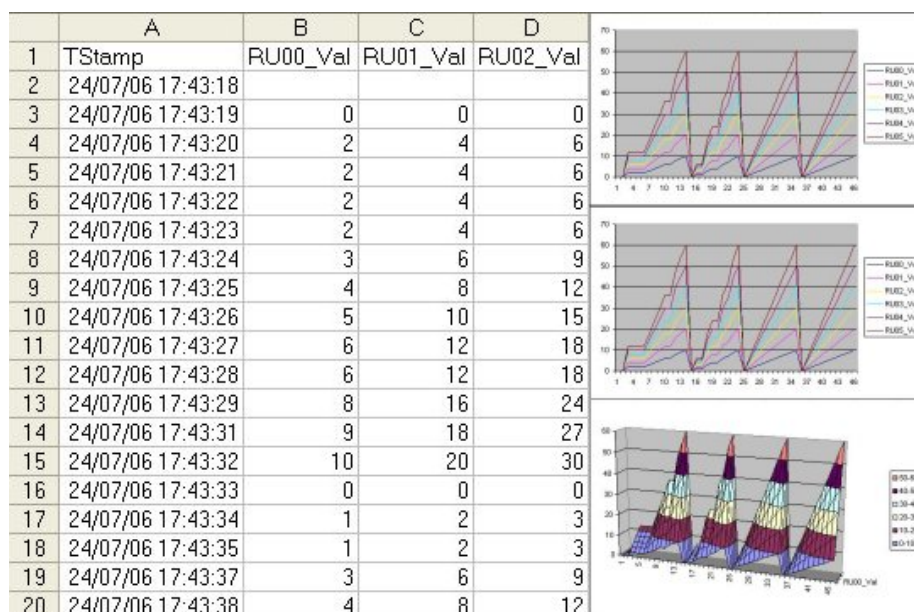
The Loki Config Tool is a software, "front end" for the 'Loki Runtime' logging application. It creates a configuration file, used by the runtime software, which defines what logs will be produced and where the data will come from.

Use the Loki Config Tool to design one or more logs, including what columns will be included, and the conditions for logging data. Data can be logged periodically, or when a logical condition is met. For example you may want to log some information every minute, or maybe every time an alarm condition is tripped.

Once configuration is complete within Loki Config, your configuration file is simply selected in the Loki Runtime application. The system is then started, the relevant OPC server application is launched automatically and Loki will begin logging data. With it's 'autorun' facility the whole system can be launched at the click of a single icon.



Loki Config provides a Windows™ front end used to configure logs, data items and triggers, using simple 'drag and drop' operations. Alternatively use Loki's simple configuration wizard to create a two minute Excel or Access log!



From logged data within Excel you can easily create graphs, charts and reports, as you would with any other spreadsheet data. Excel will provide powerful data analysis and allows mathematical computation on the data retrieved.

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Features

Configuration Features:

- Configuration wizard for quick project creation
- Easy drag and drop configuration for more advanced projects
- Range of time based and exception based triggers
- Time based triggers include periodic and scheduled triggers
- Exception based triggers include 'on change', bounds, less than, greater than and equals
- Multiple data items can be logged following a trigger
- Horizontal or vertical data logs can be configured
- Multiple logs can be created within one or more databases
- Log paging possible within Excel when a sheet is full
- Simple control possible following a trigger, including trigger reset and write to a specified tag

Data Features:

- Data type conversions supported
- Full range of OPC data types supported for triggers and data items
- Configurable message texts which replace values in database fields
- All data logged with timestamp
- Optional columns can be created, including data quality, device name, machine name and item description

Supported Database Providers:

- Microsoft Excel
- Microsoft Access
- Microsoft SQL Server
- Microsoft FoxPro
- Oracle
- Text Based Database Formats (e.g. CSV)
- Any format for which ODBC drivers are available...

Runtime Features:

- Autorun and load last configuration features
- Start/stop logging from interface control
- Interface allows selection of configuration file at runtime
- Automatically launches OPC Server applications

OPC Features:

- OPC Client connects to servers which support v2.0 of the OPC Data Access specification
- Multiple OPC Server connections possible, to acquire data from several sources
- 'Access Paths' supported via 'custom OPC connections'
- COM and DCOM supported, DCOM offers connection over TCP/IP
- Supports 'OPC Browse' functionality for selection of data items and triggers
- Supports 'Server Shutdown' functionality
- Recommended OPC Server is IMO's Odin product

Minimum PC Specification:

- Pentium III, 1GHz processor
- 128MB RAM
- 500MB available space on the system drive
- CD-ROM or DVD-ROM drive
- 100Mb Network Card
- Ethernet access either via wired or wireless network
- Super VGA (800x600) or higher resolution monitor with 256 colours
- Microsoft Mouse or compatible pointing device
- Supported Operating Systems: Windows XP Home Edition, Windows XP Professional, Windows XP Media Center Edition, Windows XP 64-Bit Edition, Windows Server 2003, Windows 2000 Professional, Windows 2000 Server

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