



# Objectia Kienzle Server 5.0

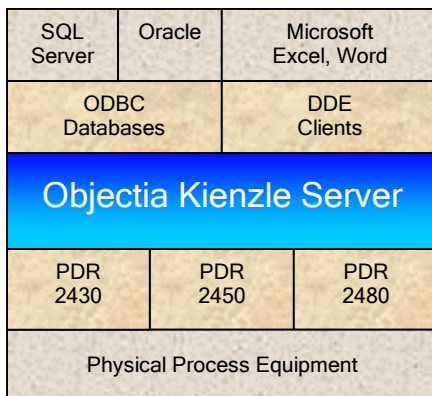
## OVERVIEW

Objectia Kienzle Server is a sophisticated process-monitoring tool that has been designed and built using modern software technologies and optimised for use with *gbo* Kienzle Production Data Recorders (PDR).

## PURPOSE

Objectia Kienzle Server functions as a data pipe. It implements the communications protocol required to extract real-time process information messages from the *gbo* Kienzle PDR's.

This process information is then made available to local and network client applications using the Microsoft Open Database Connectivity (ODBC) and Dynamic Data Exchange (DDE) technologies.



Objectia Kienzle Server architecture

## BENEFITS

**Process Automation.** Objectia Kienzle Server can completely automate the collection and storage of critical process information. Data can be written directly into any ERP or database system accessible via ODBC.

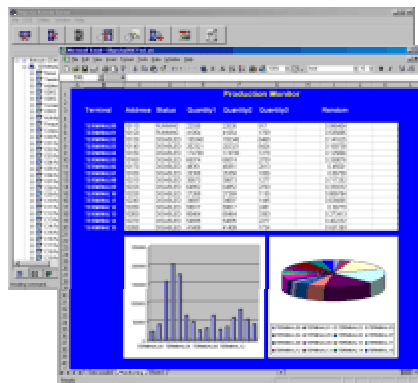
**Data Accuracy.** Data sheets and job records no longer need to be gathered and entered. Data errors are eliminated.

**Efficiency.** Staff members no longer need to perform tedious, time-consuming data entry tasks. They become available for more valuable and productive work.

**Low Total Cost of Ownership (TCO).** The Objectia Kienzle Server is designed to run 24x7 and requires almost zero maintenance. Ongoing costs are therefore minimal, giving a low TCO.

**Graphical Monitoring.** Data sheets and job records are often inconvenient and ineffective ways to monitor processes. DDE-enabled client applications such as Microsoft Excel® can be used to monitor the data collected by Objectia Kienzle Server, providing numerous monitoring options.

For example, your process could easily be represented as one or more charts using Excel's powerful graphics engine. Charts can be updated in real-time as process information is extracted from the PDR's and sent to Excel.



Process monitoring with Microsoft Excel

**Customer Satisfaction.** When your most valued clients ring you requesting a late delivery status update, Objectia Kienzle Server provides precisely the information needed to give them an accurate and reliable answer.

There is no need to track down and call Foreman or Machine Operators, wasting both your time and theirs. Client's job details can be retrieved without having to leave the office environment.

Give your clients the information they need, *when* they need it.

**Bi-directional Communications.** The communications link between Objectia Kienzle Server and each connected PDR is bi-directional.

This type of link allows the computer to send configuration information directly to each PDR instead of having to be manually entered via the PDR keypad.

**Externally Controllable.** The Objectia Kienzle Server product supports a rich command set enabling it to be controlled by another application.

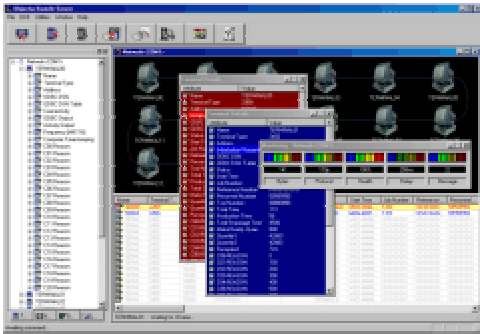
## PRODUCT FEATURES

Objectia Kienzle Server empowers you to extract process information easily and efficiently using a world-class graphical configuration environment.

- Floating and docking control bars
- Context sensitive menus
- A terminal simulator is embedded within the server for testing and demonstration purposes
- Comprehensive, informative and easy to use help system
- Multithreaded architecture: each network object runs in it's own thread
- Processor affinity support: each network object thread can be assigned to a user-specified system CPU
- A unique ODBC data source can be assigned to each terminal
- Network DDE support: remote clients can attach to the server using Network DDE
- DDE Execute command support: the server can be controlled by external applications
- Numerous network and terminal attributes are available as DDE items
- Complete network object state information is stored within the configuration file
- Speed-optimised display graphics

Commands can be sent to the Server using DDE. Control of Objectia Kienzle Server in this way enables seamless integration with numerous third party applications, including scheduling and automated provisioning systems.

**Rapid Deployment.** Objectia Kienzle Server is powerful, but very easy to operate. The user interface has been carefully designed to provide easy access to all configuration items.



*Objectia Kienzle Server user interface*

The Objectia Kienzle Server product can be customised to your unique process and computing environments.

**Multithreaded Software Architecture.** The Objectia Kienzle Server product employs multithreaded software architecture.

In Objectia Kienzle Server parlance, a network is a collection of terminals (PDR's) accessed via a common serial connection. Each network (or network object) provides an implementation of the Communications Protocol Engine (CPE). The CPE manages all communications activity with the terminals connected to the network.

The CPE is an autonomous, self-optimising object that maintains metrics pertaining to each of the connected terminals. Continuous feedback of these metrics to the CPE allows it to determine the optimal terminal polling speed for your network.

The Windows® 2000 operating system uses a symmetric multiprocessing model (SMP) for scheduling threads on multiple processors. With this model, any thread can be assigned to any processor.

Each network object CPE executes in its own thread. Objectia Kienzle Server provides built-in support for setting the thread ideal processor for each network object CPE thread.

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This means that if your computing platform has multiple CPU's, you can assign individual network object CPE's to execute on different system processors.

**Simulation Capability.** Objectia Kienzle Server has an in-built simulator that is capable of generating *gbo* 2430, 2450 and 2480 PDR process information messages.

The simulator generates numerous PDR MKT messages during the operation of an arbitrary production process. Process commencement, completion, stoppage and production states are supported.

The simulator is an invaluable addition to the product. It allows you to test your data monitoring application and third-party software integration without having to be connected to a live PDR network.

**Process Cognition.** The critical process information extracted from the PDR's using Objectia Kienzle Server provides you with the necessary foundation for process improvement. Before you can improve your processes you must determine their current status.

Once you have collected raw process information you can then quantitatively analyse that information using third party tools and implement any subsequent conclusions by updating your process models.

## AVAILABILITY

Objectia Kienzle Server 5.0 will be available in the third quarter of 2004.

For further information, technical detail, licensing terms, demonstrations and evaluations, please don't hesitate to contact us. We believe you will find us friendly, helpful, and professional, and we look forward to hearing from you

## SPECIFICATIONS

### Hardware and Software Requirements

#### Operating System

- Windows® 2000 Professional, Service Pack 2
- Windows® 2000 Server, Service Pack 2
- Windows® 2000 Advanced Server, Service Pack 2

#### Processor

- 800 MHz Pentium® III or faster

#### Available RAM

- Recommended: 256 MB or more
- Minimum: 128 MB

#### Available Disk Space

- Recommended: 10 MB for installation directory

## CONTACT DETAILS

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