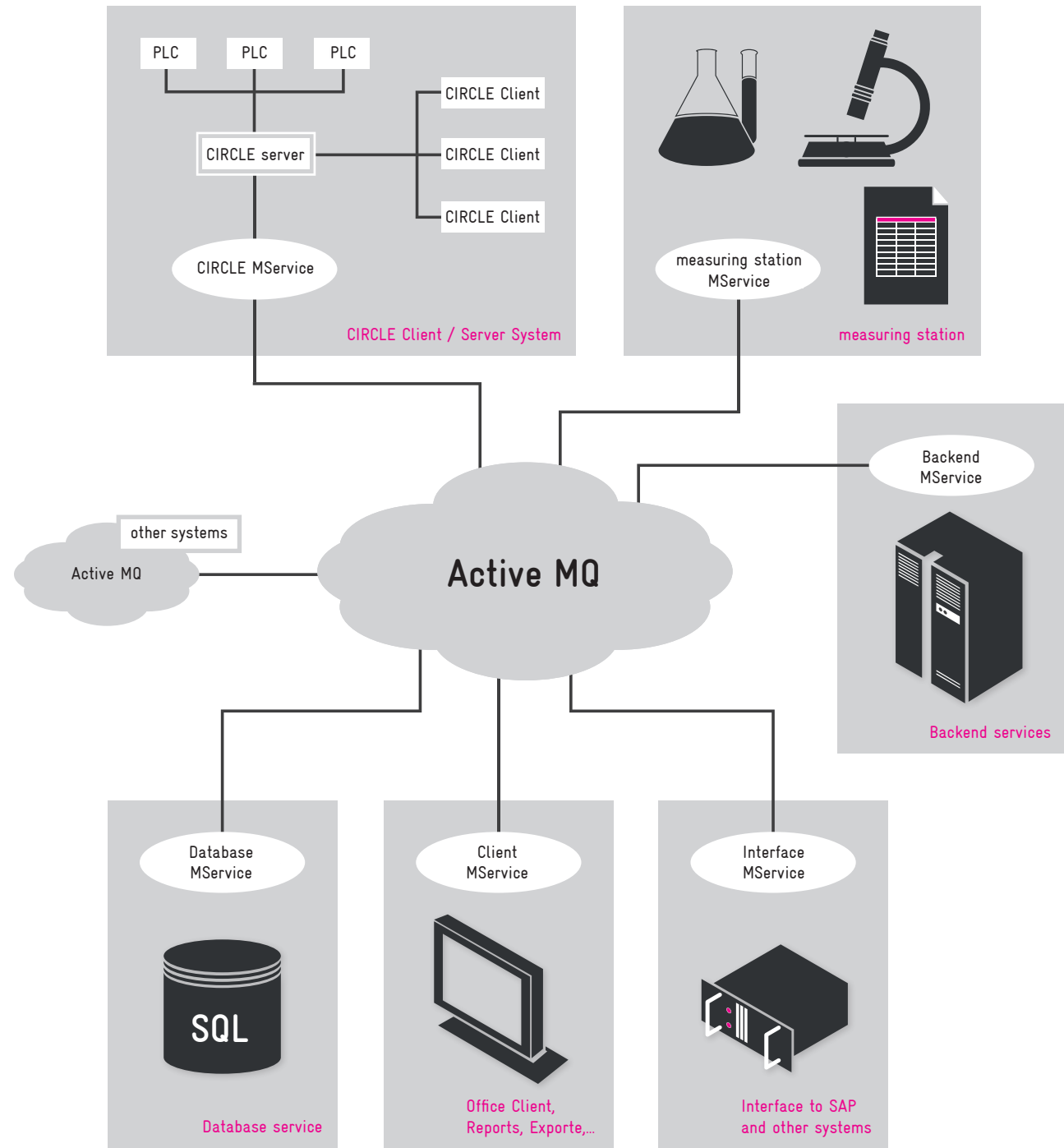




CIRCLEacara.

CIRCLE acara is an information processing system. This system provides more possibilities for users to get easy reports on every office place. System is very open and scalable. System can be connected to many different systems or devices. Layout is shown in Figure. Measurement stations delivers data to Active MQ and Active MQ sends data to SQL database. On office clients many individual reports, like batches, shifts and customer reports are presented. Reports are available in different formats, like excel, word or pdf. CIRCLE acara can manage several measurement stations.



CIRCLEacara.

Components and Functions

CIRCLE System

CIRCLE System stores data from PLC to online database in production. CIRCLE Message service transfers desired data to Active MQ. Transfer can be done continuously or on request.

Active MQ

Active MQ is a messages broker, like an e-mail service. Active MQ receives data from a consigner and transfers data to one or more addressee. Data transfer is controlled only by Active MQ. So this system is open and flexible. Installation is possible worldwide.

Measurement Station

Station controls measurement equipment. The station sends data to database via Active MQ. Measurement station could be measurement equipment with Labview. Measurement data will be processed and committed to Active MQ. Measurement station receives also batch and order data from Active MQ.

Database service

Service stores and locates data in SQL data base. Each SQL database is possible (MS SQL, my SQL, ORACLE, ...). Database can be installed locale or central in factory LAN.

Interface Services

Interface services realize connection to SAP or other systems.

Office Client

Office client provides reports for users. User can search data by calendar, batch number or product type and shifts. Office Client is a rich client application. CIRCLE acara can be connected with any numbers of clients. The installation of client ensues automatically.

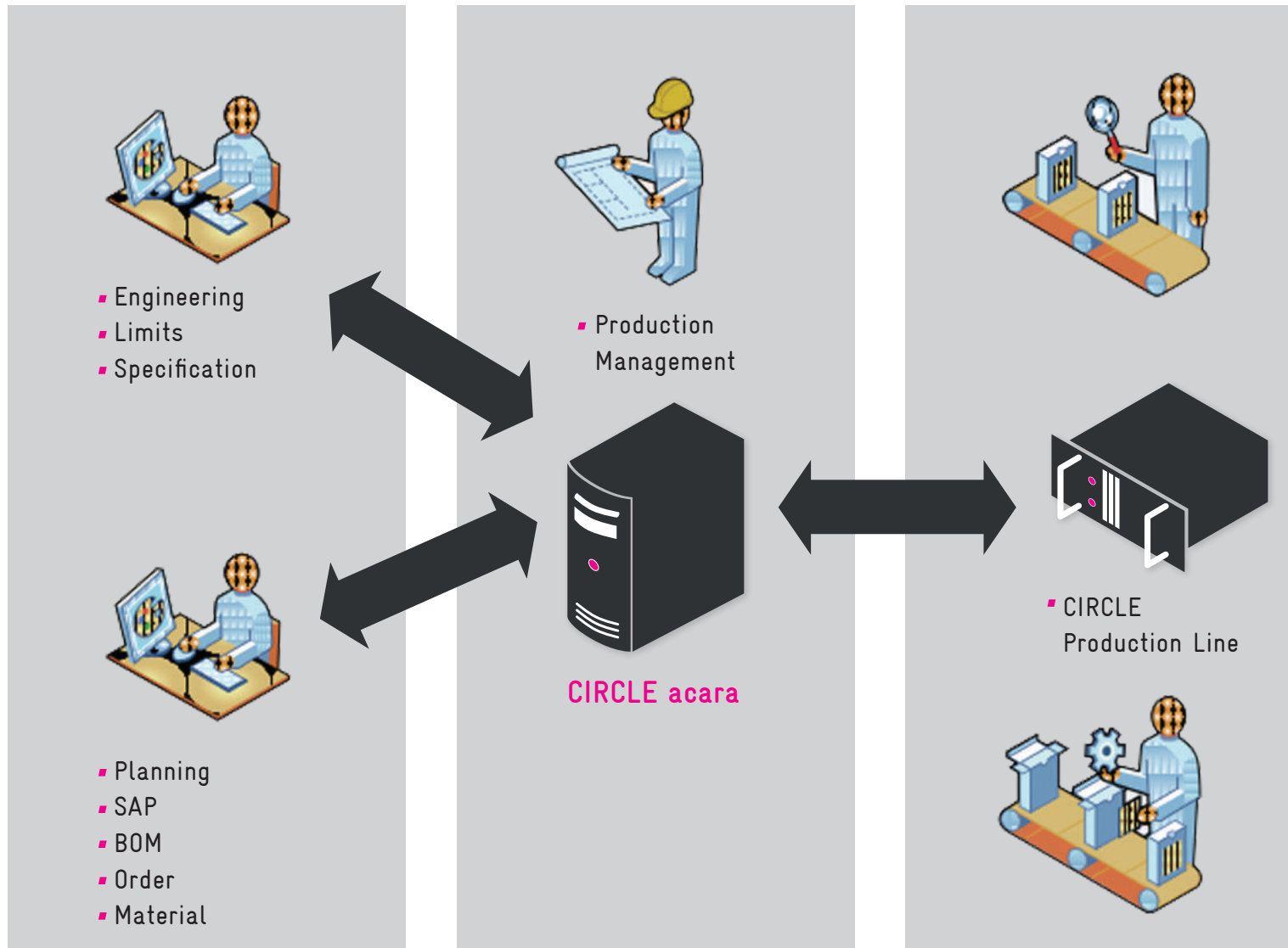
Backend services

Backend service contains functionalities, like generating reports, making backup, special calculations.

Functions

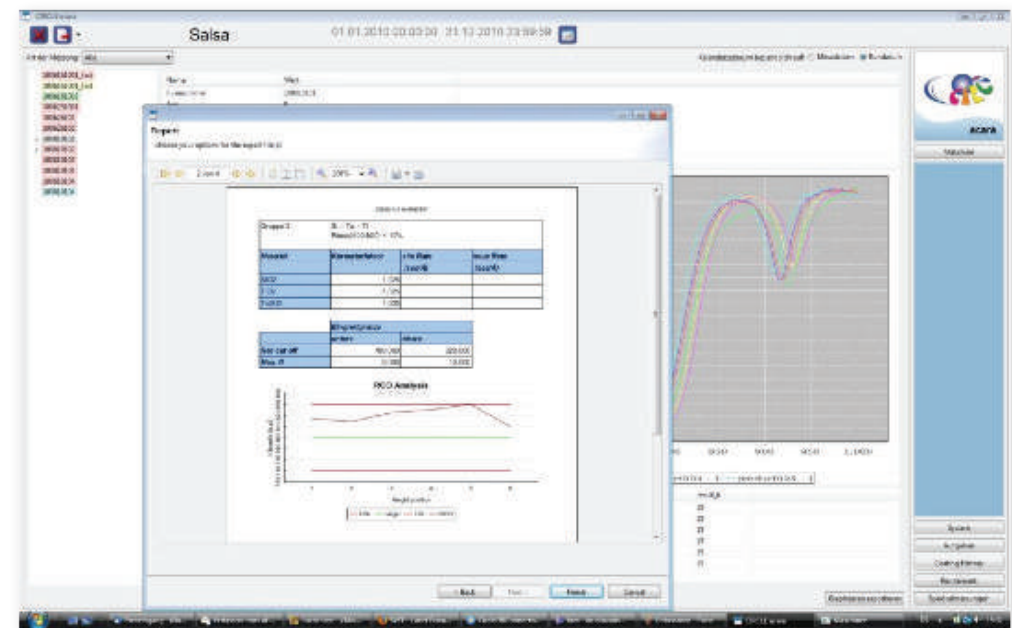
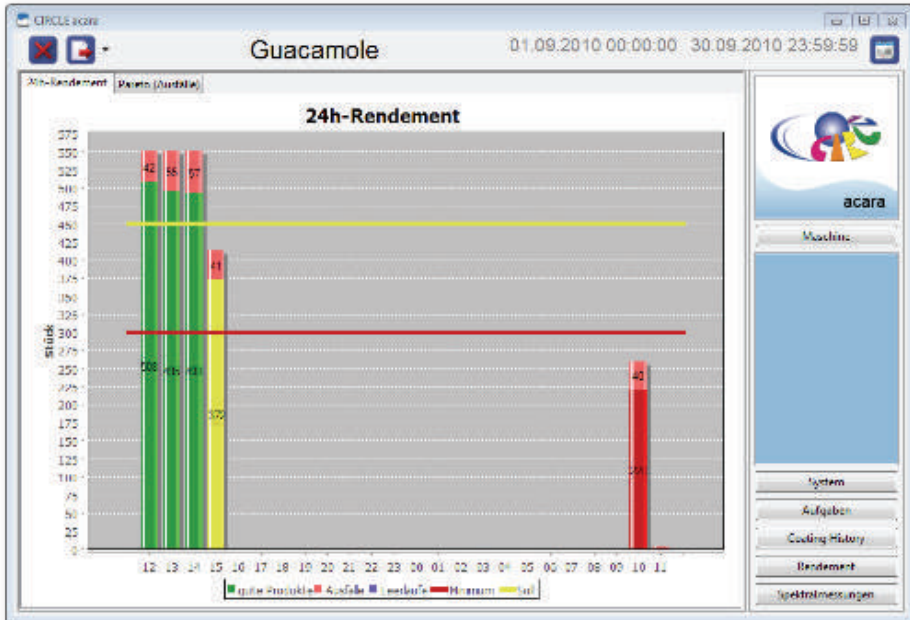
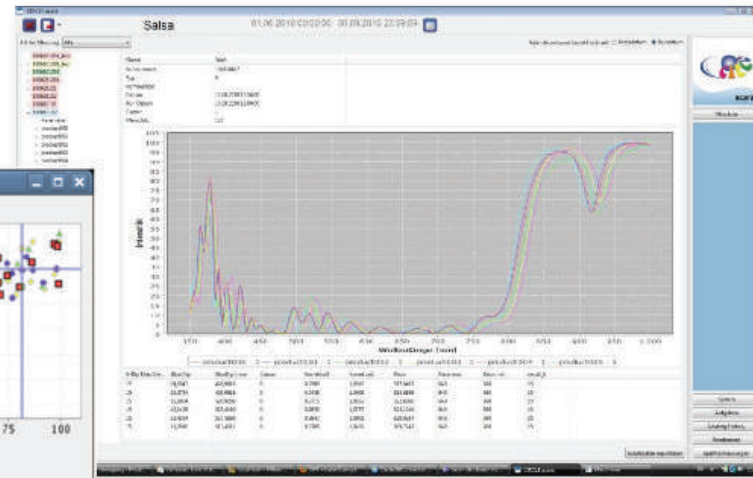
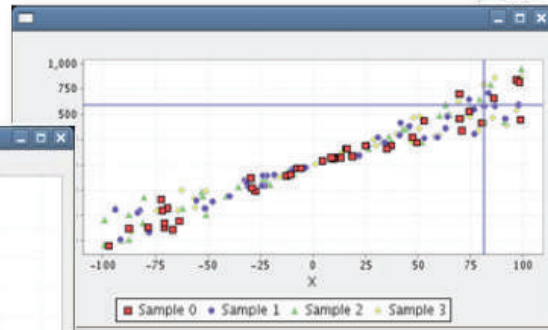
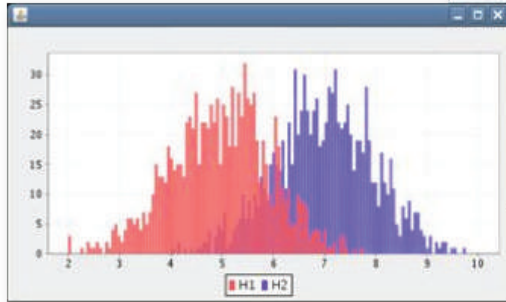
- universal selection for data of groups and machines
- manifold exporting and reporting functionality
- order and material registration
- efficiency monitoring
- analysis of measured data
- analysis for rejects, downtime and idle periods

Order management, Offline Limits



CIRCLEacara.

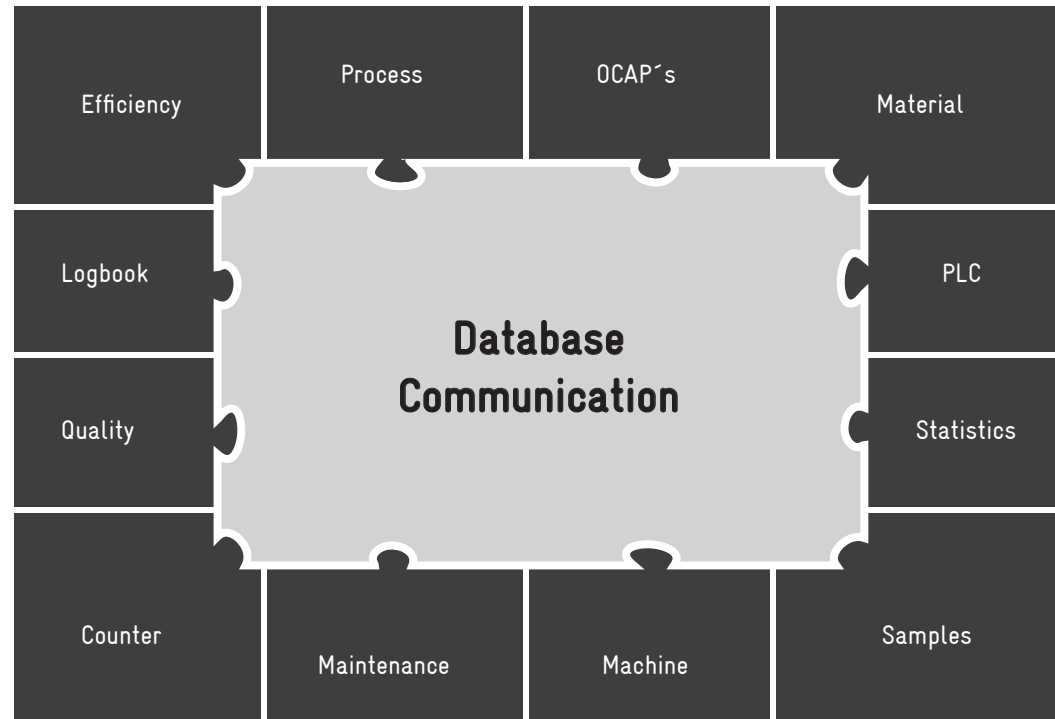
Screenshots



CIRCLEacara.

Characteristics of the new system

- rapid development of new functionality
- future-proof application development platform
- open system
- independent components
- Hardware and OS independent system
- supports all standard SQL database
- supports standard report systems



The modular design allows to customize the layout and let it fit the users demands.