

## An Introduction to PetroOnline

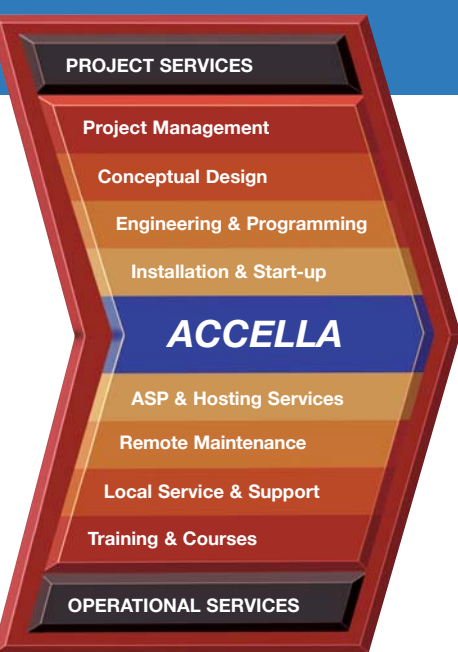
PetroOnline is a leading supplier of automation and IT solutions for efficient storage and distribution of petroleum products. Based on in-depth knowledge of our customers' value chain, we supply systems and services that contribute to safe and profitable operations.

PetroOnline is an independent, privately owned Norwegian company established in the mid-1970s. Our competence and solutions are the result of more than 30 years of close cooperation with oil companies in Europe. In total, we have delivered more than 200 terminal automation systems and our reference list includes most of the world's leading oil companies.



## E-solutions for a Networked Industry

PetroOnline has been in the forefront of a development that has gradually expanded the concept of terminal automation to a wider entity. By taking full advantage of the opportunities offered by the internet and new data and telecom technologies, we supply network-based automation/IT solutions that allow for operation and administration of the complete terminal chain to be performed from a central system. This centralized, network-based concept offers considerable administrative advantages, close follow-up of quality and safety and great savings related to operation and investment in individual terminals.



## Close, Long-term Customer Relations

PetroOnline has a strong, multidisciplinary technical organization. Long experience with complex system deliveries enables us to take total responsibility throughout the project - from system design and engineering to installation, training and support.

But our involvement doesn't stop there. Modern network technology has opened the door for new services. Today's operational services can vary from a restricted responsibility where we, for example, provide day-to-day maintenance and back-up of databases to more extensive agreements where we take full responsibility for the operation and functionality of the systems.

## The advantage of more than 30 years of experience

PetroOnline has developed and delivered terminal automation systems since the early 1980's and is today the market leader in terminal automation in the Nordic countries. Our ACCELLA terminal automation system has been delivered to over 50 terminals in the Nordic and Baltic regions.



### Statoil

All Statoil terminals in Scandinavia and the Baltic countries are equipped with our ACCELLA system which forms a fully integrated part of their company-wide data network.



### Oliudreifing (ODR)

ODR is the distributor for Esso and Olis in Iceland, and is Iceland's largest importer and distributor of petroleum products. They have ACCELLA at all of their largest terminals and were the first to utilize the ACCELLA.NET client.



### Shell

Shell has been our customer for the last 15 years, and today they utilize our ACCELLA concept throughout their terminal network in Norway, Sweden and Finland.

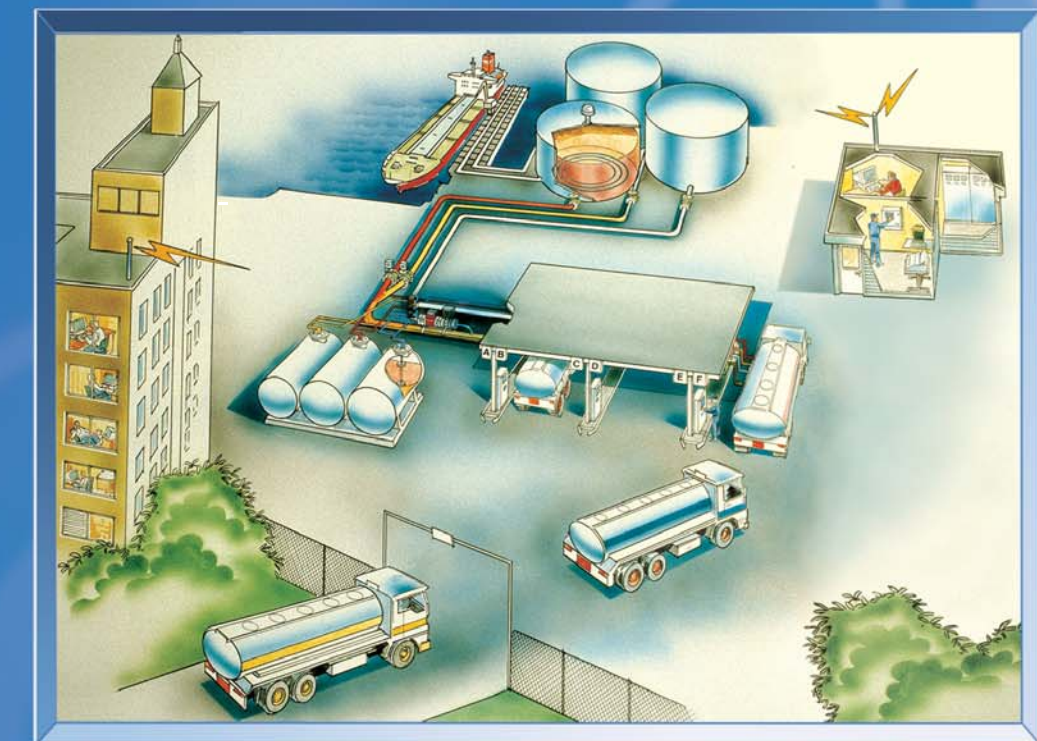


### Hydro Texaco

Both Hydro and Texaco have been our customers for many years. When they founded a joint distribution company in Norway, PetroOnline and ACCELLA was a natural choice.

# ACCELLA

- managing the flows



## Terminal Automation and Administration System



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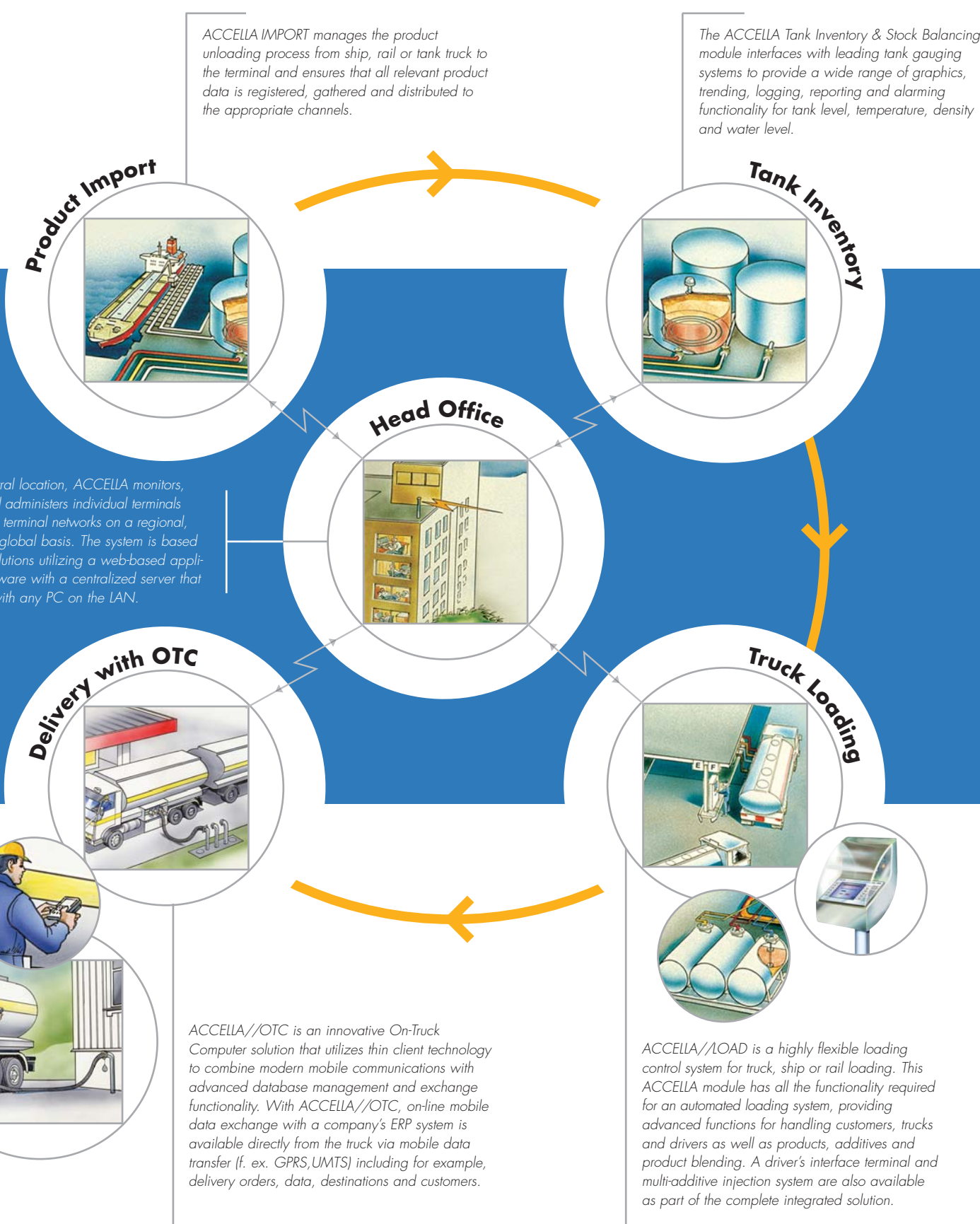


Sundheim-Madsen - 03/2006



# ACCELLA - managing the flows

ACCELLA is a total solution for automation, operation and administration of petroleum terminals and distribution of refined products. From product import to delivery, ACCELLA manages the flow of both products and information - increasing efficiency and lowering operating costs throughout the value chain.



## ACCELLA Overview

ACCELLA is a complete, modular system solution for control and administration of oil terminals and terminal networks, and is easily configured to achieve the level of functionality that is best suited for each customer and installation.

### Administration Level

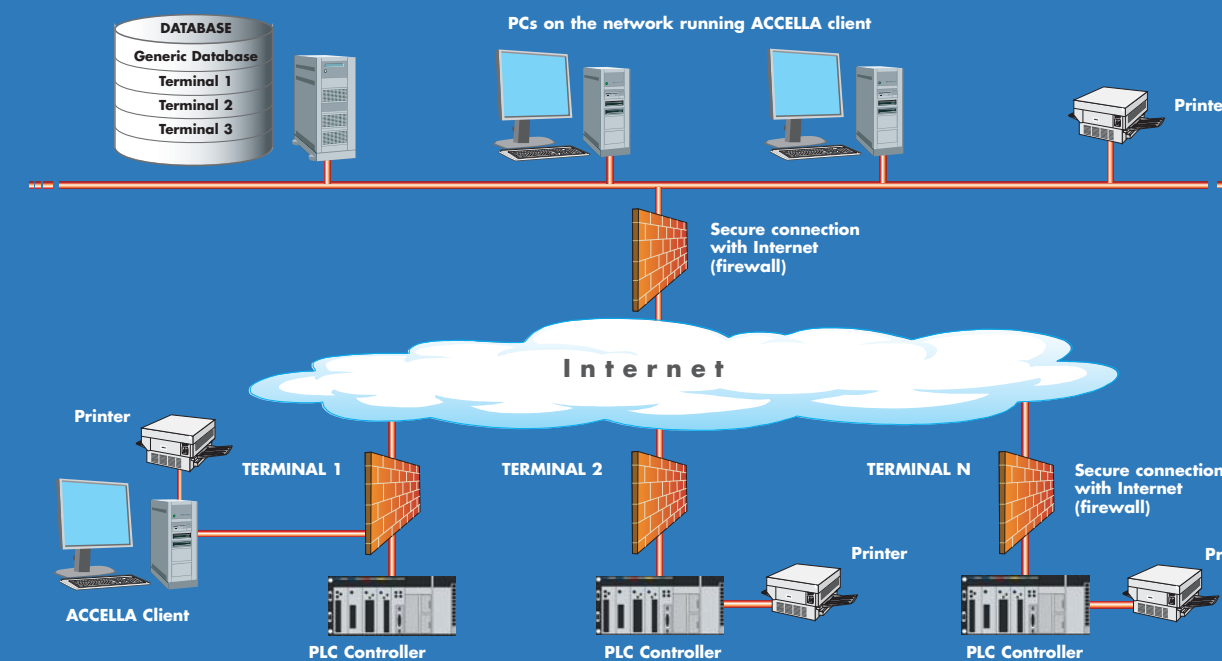
ACCELLA's Administrative Level consists of a range of software function modules and a powerful data base that stores and exchanges data with ACCELLA's Process Control Level, the customer's central ERP system and other connecting systems. The user interface is based on the Microsoft.NET platform, so there is no need to install the ACCELLA application on all

user PCs - all functions and interface screens reside on a central server and are distributed to the clients.

### Process Control Level

ACCELLA's Process Control level is based on advanced PLC technology and is fully configurable from the Administrative Level. Functions such as additive injection, flow control and tank gauging can be supplied as an integral part of ACCELLA, but standard interfaces are also available for all commonly used field equipment from other suppliers. To provide maximum operational continuity, Process Control systems are designed to function independent of continuous communication with the ACCELLA server.

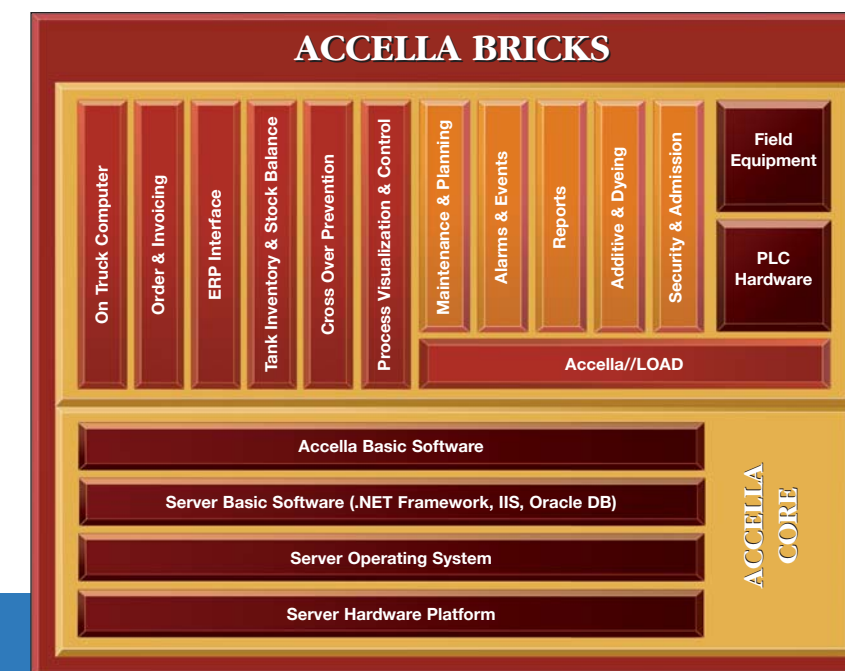
### ACCELLA Server - Head Office



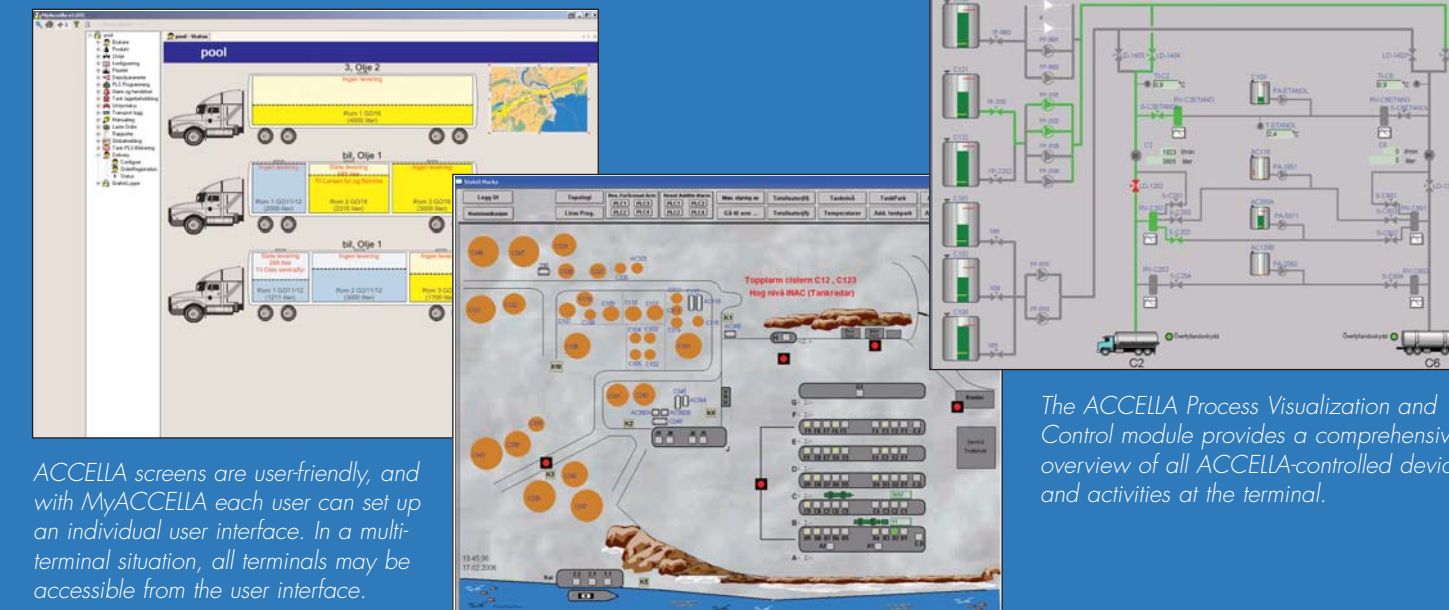
## The ACCELLA Advantages

- Low system, installation, commissioning and operational costs
- Fully scalable from the smallest, single-loading terminal to large, multi-rack loading terminals
- "Off the shelf" hardware equipment - no specialized components required
- Well-proven for over a decade yet modern in system architecture - cutting edge hardware and software platforms
- Supports standard and open communication protocols - f. ex. Profibus, DeviceNet, OPC, TCP/IP and standard tank gauging systems
- Database-driven system with client-server technology using thin clients - client software is distributed through the server (no installation necessary on client computer)
- Easy to configure new process lines and relations of equipment due to advanced PLC technology with pre-installed functionality and a powerful configuration tool in the ACCELLA client. No PLC programming required.

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ACCELLA is a highly modular system where functionality is built up "brick-by-brick". The core of the system consists of ACCELLA Basic Software with associated operating, database and networking software, and selectable function modules determine system functionality.



ACCELLA screens are user-friendly, and with MyACCELLA each user can set up an individual user interface. In a multi-terminal situation, all terminals may be accessible from the user interface.

The ACCELLA Process Visualization and Control module provides a comprehensive overview of all ACCELLA-controlled devices and activities at the terminal.

