



Subtask 5- FI technology database

FI Tech Case #3: Comsel

Company contact information

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Comsel System develops, markets and delivers solutions for remote data acquisition. We want to lower the costs of our customers by automating various kinds of routine, manual data acquisition. In this way our customers will better be able to focus on their key operations, and will thereby have good opportunities to increase profitability.

Automatic meter reading (AMR), real estate automation and M2M-communication are areas where we can enhance efficiency and contribute to growing profitability for our customers. Our solutions are cost effective from day one. The main principles are to use the way of communication that is the optimal one for each single customer case, and to build the solutions on open standards. By this means our solutions can easily be combined with the systems already in use at the customer.

Energy companies, municipalities, real estate companies and industry are our customers.

Our solutions

Comsel System develops, markets and delivers solutions for remote data acquisition. Our solutions use wideband nets for remote data acquisition and control. Main areas of use are automatic meter reading (AMR), real estate automation and M2M communication. By automating various kinds of routine tasks, our customers will be able to increase efficiency and thereby have opportunities to increase profitability.

Automatic Meter Reading

ComselAMR is our solution for automatic meter reading. With AMR, power net owners can easily and safely collect data on electricity, water, heating and gas. AMR will save both time and money of our customers. As new regulations on frequent meter reading are taken into use, ComselAMR is the easy and safe solution especially if there is access to broadband.

ComselAMR is used directly with the existing database for measuring values and with the existing customer information system. This is to make it easy for the user to handle collected data. Data is transferred over fixed IP-connection, GSM, GPRS or a traditional modem. Focus is on safety, flexibility and the smallest possible margin of error.

In addition to energy meter reading, our system can be used to other value adding services. Net usage will be more efficient through for instance supervision of phase errors and registration of interruption. Both these functionalities can be added to the AMR-solution. This for you to be able to work efficiently and ultimately to improve your profitability.

Real Estate Solutions

Comsel RealEstate is a new way of managing real estate. The solutions are there for municipalities, real estate owners, tenant owner's associations, chains of shops and others owning real estate. If there is a need for efficient control and surveillance of consumptions or attendance, we have a solution. Both the real estate owner and the tenants can reduce their costs by using our solutions for remote data acquisition and control.

The advantages for the real estate owners are many. Measuring of electricity, water and heating consumptions and exact evaluation of collected information opens for cost reduction. Safety and home environment can be improved by supervision of different parameters in the facilities. Humidity measurement, supervision of phase errors and fire detectors are only a few examples of advantages for the real estate owners

Tenants can reduce their energy costs by improved consciousness of consumption. Safety and security are improved by surveillance of different threshold values. If some value is exceeded, a message can be received for example via GSM or as an e-mail.

CI/OS901®

Comsel I/O Server (CI/OS) 901 is an improved version of the forerunners in the PE-800-series. CI/OS 901 is the ultimate way to make remote data acquisition, measurement and control from almost any device, solution or environment using an Ethernet network through the TCP/IP protocol. Keywords of the product development have been security issues, intuitive user settings and administration.

CI/OSP®
Programming



[Technical information](#)



CI/OS® software includes the Configuration Manager, that makes Comsel products easier to configure; and client software that makes the products easy to manage. Our main target in the development of the software has been to get them as userfriendly as possible.



CI/OS SDK (Software Developer's Kit) is a package that makes it possible for developers and system integrators to communicate with CI/OS units without extensive network programming skills. The SDK CD contains libraries and examples written in different programming



languages. The most commonly used programming languages on Windows, Linux and other Unix platforms are supported. Integrating communication between CI/OS units and custom client applications or web portals is made quickly and easily with the SDK. The developer does not need skills in encryption or network protocols since all this is taken care of by the CI/OS SDK libraries.

Language options supported by CI/OS SDK are:

COM+

Support for application development using encrypted protocols. Software examples for Microsoft Excel 2000, Access 2000, Visual Basic 6 and Visual C++ 6 are included.

C/C++

Libraries for RedHat Linux 7.2 that support both encrypted and unencrypted protocols are included on the CD. Other Unix versions are available on request. Unencrypted protocols for Win32 are supported using a DLL, encrypted protocols using COM+.

Visual Basic (VB6)

Unencrypted protocols for Win32 are supported using a DLL, encrypted protocols using COM+.

PHP

Wrapper with support for RedHat Linux 7.2 and Apache is included on the CD.

PERL

Wrapper with support for Win32 and RedHat is included. The

Windows version is distributed in both binary and source code form. The Linux installation is distributed as source code.

Frequently asked questions:

When do I need the CI/OS SDK?

- When you want to add information from CI/OS units to Active Server Pages (ASP.NET).
- When you want to communicate with CI/OS units directly from your custom application.
- When you want to transfer data collected from CI/OS units into a database for further analysis, for example automatic energy meter reading, temperature registration or environmental surveillance.
- When you want to collect data from CI/OS units directly into Microsoft Office 2000, for example Excel or Access.

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