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NEW TRENDS IN AMM SYSTEMS: ADD GRUP SOLUTIONS



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ADD GRUP: Short Summary

ADD GRUP has been founded in 1992. Since 1998 the company deals with development, production, implementation and technical support of Advanced Metering Infrastructure (AMI) Systems based on LV and MV PLC data communication. During this period a series of AMI-projects have been successfully implemented worldwide in:

Sweden (including projects based on MV PLC)

Finland

Estonia (including projects based on MV PLC)

Czech Republic

Bulgaria

Russia

Ukraine

Indonesia

United Arab Emirates

South Africa

Egypt

Brazil

New Zealand



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ADD GRUP: Short Summary

The production is certified according to ISO 9001:2000 Quality Management System.



Today 300 people within ADD GRUP contribute to the creation of ADDAX AMI Systems. 90 persons deal with R&D activities, and 210 are involved in the production.



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What is ADDAX IMS?

ADDAX Integrated Metering System (ADDAX IMS) is a modern automated system designed for remote metering and management of different resources consumption.

Meters designed for different resources can be integrated into the system, thereby, ADDAX IMS can perform metering of several kinds of resources simultaneously:

Electricity

Water

Gas

Heating



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General presentation of the system

Smart IMS has 3-level architecture:

Upper Level



ADDAX IMS Metering Management Software and SQL Data Base

Upper Communication Channels

PLC LV&MV, GSM/GPRS, RS-232, Ethernet

Intermediate Level



Routers

Lower Communication Channels

PLC LV, RF

Lower Level



ADDAX Meters, Other Meters



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Lower level

Terminal devices (meters) - are installed directly at metering points: ADDAX meters, meters produced by other manufacturers, supporting interfaces applied in the System.

Key features of ADDAX Electricity Meters:



Support of DLMS/COSEM

Full two-way communication via LV & MV Power Lines

Multi-function

Multi-tariff



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Middle level

ADDAX Routers are special communication device, used to build full scale distributed data transmission network – ADDAX.Net. Routers provide communication both through open (public) and specific physical environments, typical for AMR/AMI:

Ethernet
GSM (GPRS)
MV Power Line
LV Power Line
Local RF
Wire (CM.Bus)



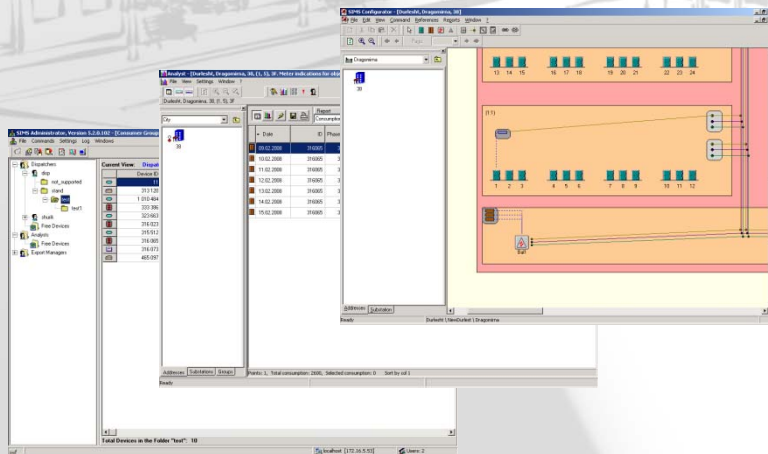
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Upper level

Data Collection and Processing Center

The Center software includes:

- MS Windows 2000 SP4 / XP SP2 / 2003 Server SP1
- MS SQL Server 2005 Express Edition
- MS Office 2000 / 2003+
- ADDAX (Smart IMS) Application Soft



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Areas of application

Electrical Energy Metering

Gas Metering

Water Metering

Heat Metering

Demand Management

Street Lighting Management



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System Advantages

Scalability, Flexibility, Openness and Cost Efficiency

ADDAX IMS is a **scalable** system that can be easily extended in accordance with customer's requirements. System's size can range from a separate building to a multi-million city.

ADDAX IMS is a **flexible** system that can be easily adjusted, both structurally and functionally, to particular application conditions.

ADDAX IMS is an **open** system, compatible with other systems, for example, billing system, supporting standard protocols and generally accepted data formats.

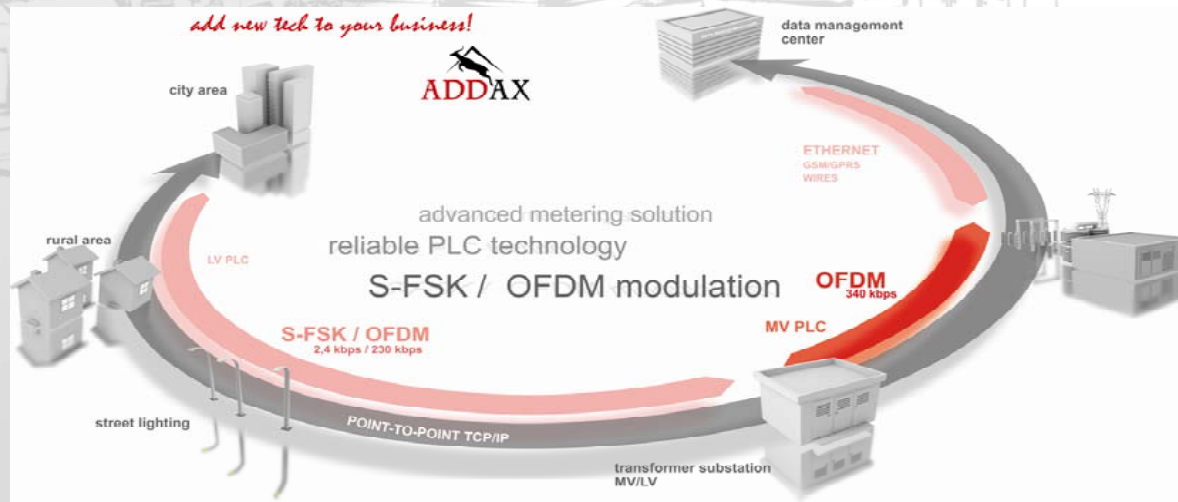
ADDAX IMS is a **cost efficient** system, due to reliable data communication via MV-lines.



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OFDM

ADD GRUP has developed an OFDM modem for faster transmission of data on PLC LV networks. The modem allows data rates up to 76,8 kbps for one mains phase (up to 230 kbps for 3-phase communications), and the shift from S-FSK to OFDM can easily be made.



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Contact Us

Andrei VASILACHI
Marketing Section

ADD GRUP

36, Dragomirna str.,
MD-2008, Chisinau,
Republic of Moldova

Tel./Fax: +373 22 582948

GSM: +373 69 872077

e-mail: andrei.vasilachi@addgrup.com

URL: <http://www.addgrup.com>



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Thank you!

