Communication That Connects

IPCOMM GmbH

ABOUT THE COMPANY

Set up Jan, 1st, 2004, IPCOMM GmbH is an SME based in Erlangen, Germany. Our main emphases are the development of industrial-use gateways and data communication systems for the seamless integration of heterogeneous networks.

By focusing on our core business for over 20 years, we have been able to accumulate extensive know-how in the field. This knowledge, flexibility and a wide range of products enable us to offer both standard products and customized solutions based on customer requirements. Making us your first choice service provider.

Our communication competence has been proven in numerous projects worldwide in gas, water and electricity utilities, encompassing single-stop solutions as well as the integration of legacy systems.

MARKET & HISTORY

Developing communication protocols, specifically protocol conversion (i.e. one or multiple protocols exchange information) poses a great challenge. Successful protocol conversion is a complex problem that requires extensive knowledge.

In the early stages of telecontrol technology, no appropriate standards existed, so a wide variety of proprietary standards arose. These standards were continuously developed and modified in individual projects to meet specific customer requirements. Many of these protocols have meanwhile disappeared or are about to do so. Others have been distributed worldwide and – due to the system's long life - are still in use today.

Technological progress has led to the first national standards such as DIN 19244 or HNZ.

International norms have emerged from this, for instance ISO / IEC 60870-5 or IEC 61850 which have met wide acceptance. Some protocols of an originally proprietary nature, such as Modbus, DNP 3.0, Profibus and others, were published and their development left to independent user organisations, which led to them becoming standards.

Also applications have grown in complexity and the demands placed on communication protocols have also constantly risen over time. Compared to the early days, the representation of information has become much more abstract today, with numerous additional attributes, such as information quality or the time of a status change. The volume of transmitted data and the networking complexity have increased substantially.

QUALITY ASSURANCE

The complexity of applications also raises the demands placed on products. Because we consider reliability and persistently highest quality as essential, we introduced the ISO 9001 quality management right when our company was founded. IPCOMM was certified on June 21st, 2004 according to this standard.

We make sure that only fault-free products leave our premises, subjecting all items to rigorous performance checks and burn-in tests before dispatching them.

Qualified staff and regular training ensure full compliance and further refinement of quality standards.

Compliance tests assure that all our products conform to relevant standards.
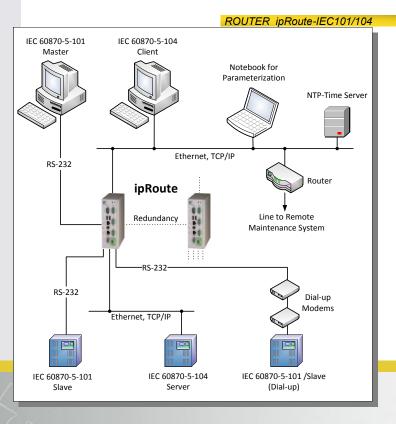
ORGANIZATIONAL STRUCTURE

IPCOMM supports a flat hierarchical structure which fosters personal responsibility, efficiency and innovative thinking in each of our staff.

The innovative strength of our staff ensure our competitiveness and give rise to innovations that will benefit all our customers today and tomorrow.

Openness, reliability and tolerance are the hallmarks of all our company's activities.

Respect for the cultures and traditions of our customers and business partners worldwide represents our supreme maxim.

ROUTER ipRoute-IEC101/104

IEC 60870-5-101 Master

IEC 60870-5-104 Client

Notebook for Parameterization

NTP-Time Server

RS-232

Ethernet, TCP/IP

ipRoute

Redundancy

Router

Line to Remote Maintenance System

RS-232

RS-232

Dial-up Modems

Ethernet, TCP/IP

IEC 60870-5-101 Slave

IEC 60870-5-104 Server

IEC 60870-5-101 /Slave (Dial-up)

Solution

PRODUCT REQUIREMENTS

Success does not happen by chance. Longstanding experience, consistent market research and product development result in solutions of sufficient flexibility to fulfill customer preferences and meet all project-specific requirements. Extensive troubleshooting abilities for tracking down communication and software problems are just one of many characteristics contributing to higher efficiency. Intuitive web-based configuration windows significantly reduce the time and effort for parameterization and commissioning. Password authentication prevents unauthorized access.

Proprietary hardware development enables optimal customization of our products to each use case, assuring high reliability, long product life and continued availability.

Market trends demand universal and flexible PC based systems, in addition to embedded systems. We meet this demand by offering PC-based systems under LINUX and Windows.

OUR PORTFOLIO

Our standard delivery program includes the data communication systems gateway and router, which can be used for the most diverse applications, such as single user, redundancy, leased line and dialup line.
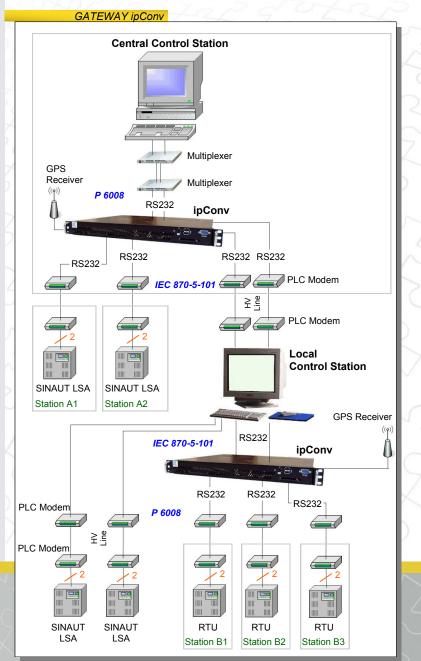Should the need arise, our solutions can be individually modified, extended or newly developed to meet project-specific requirements for system integration.
We also offer a wide range of services, among others system parameterization, training and commissioning of systems.

Communication Systems	
Gateway	ipConv
	ipConvLite
	ipConvOPC
	ipConvPS
	ipConvPM
Router	ipRoute-IEC101/104
Dialup Adapter	ipRouteDialup
Support & Service	
Parameterization	
Training	
Factory Acceptance Test, Commissioning etc.	

We can offer a great variety of protocols with our communication systems:

Standard Protocols	Legacy Protocols
IEC 60870-5-104	RP 570 / 571
IEC 60870-5-101	Indactic 33 / 41, 2033
IEC 60870-5-103	Simatic Fetch / Write
DNP 3.0	Telegyr 80x
IEC 61850	HNZ 66-S-11/15
TASE.2 / IEC 60870-6 (ICCP)	SINAUT 8 FW
OPC DA / OPC DA XML	Harris 5000/6000
MODBUS RTU, TCP	CDC Type I,II
Profibus DP	Conitel 2020
SNMP	SEAB 1F
And many more…	

GATEWAY ipConv

Customer / System Integrator		End Customer / Project	
ABB Switzerland Ltd.	Switzerland	DUBAL Aluminium Ltd., Dubai	DUBAL21, United Arab Emirates
		Austrian Federal Railways (ÖBB)	ABBOPC104, Austria
		Swiss Federal Railways (SBB)	ABBOPC1013, Switzerland
Andritz Hydro GmbH	Austria	ESKOM	Gariep, South Africa
AREVA / GE Consumer & Industrial	Germany	Vattenfall Europe Mining AG	Power Plant Boxberg, Germany
Cegelec	France	TOTAL	TOTAL AKPO, Nigeria
ELES	Slovenia	ELES	ELESGW / ELESRT, Slovenia
ELIA ASSET	Belgium	ELIA ASSET	ELIA, Belgium
Mainova	Germany	Mainova	MAINIPC, Germany
Nokia Siemens Networks	Germany	WINGAS GmbH & Co. KG	WINGAS, Germany
PT INPAR SAKA	Indonesia	PT PLN	PLN Gambir, Indonesia
Rittmeyer AG	Switzerland	KHR Kraftwerke Hinterrhein AG	Power Plants Hinterrhein, Switzerland
Siemens AG	Germany	China Southern Power Grid	HVDC Yunnan-Guangdong, China
		DEWA (Dubai Electricity and Water Authority)	DEWADCC / DEWATCC United Arab Emirates
		Energinet.dk	HVDC Storebælt, Denmark
		Entergy Corporation	SVC Porter, USA
		Istanbul Metropolitan Municipality	Metro Istanbul, Turkey
		Neptune Regional Transmission System LLC (RTS)	HVDC Neptune RTS, USA
		Powergrid Corporation of India Ltd.	HVDC Ballia-Bhiwadi, India
		Red Eléctrica de España	HVDC Cometa, Spain
		Saudi Electricity Company	SEC SVC, Saudi Arabia
		Vattenfall Europe Mining AG	Nochten opencast mining, Germany

Please find detailed information of references on our website: http://www.ipcomm.de/reference_en.html

Excerpt From Our
Client List

CONTACT

Did we arouse your interest?
Do you have any questions about our products & services?
Would you like our help to design or implement your communication solution?

Please contact us:

IPCOMM GmbH

Gundstraße 15
91056 Erlangen
GERMANY

Phone: +49 9131 92076-0
Fax: +49 9131 92076-10

info@ipcomm.de
www.ipcomm.de

TÜVRheinland
ID:9105024675
DIN EN ISO 9001:2008
Zertifikat: 01 100 040757

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