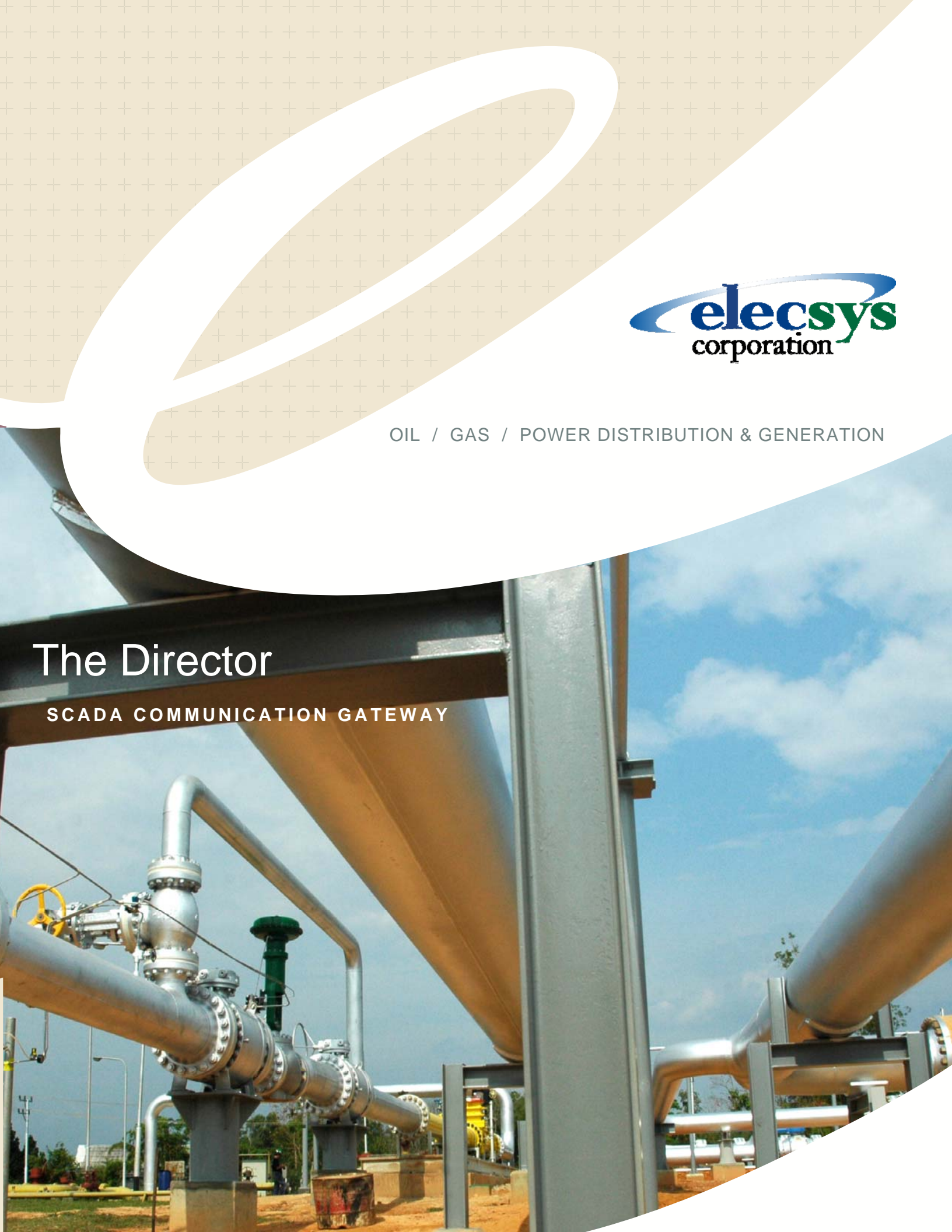




OIL / GAS / POWER DISTRIBUTION & GENERATION

The Director

SCADA COMMUNICATION GATEWAY



Hardware Platform

Expansion Ports	Com Ports	Ethernet	I/O	Size	Power
(2) USB (1) PC104 Compact Flash SD Memory	(3) RS232 (1) RS485	2 RJ-45 Ports	8 General Purpose I/O's with Optional Expansion	H- 2 5/8" (6.7 cm) W- 5 1/2" (14.2 cm) D- 8 9/16" (21.7 cm)	9 to 30 VDC

Expandable Modules



COMMUNICATION MODULES

- ETHERNET INTERFACE MODULE
- 8 RS-232 PORTS

INPUT/OUTPUT MODULES

- 16 ISOLATED STATUS/PULSE/FREQUENCY INPUTS
- 16 OPTO-ISOLATED DIGITAL INPUTS
- ISOLATED 16 CHANNEL 12-BIT ADC AND 8 DIGITAL INPUTS
- ISOLATED 2 CHANNEL 12-BIT DAC AND 8 DIGITAL INPUTS
- ISOLATED 16 CHANNEL 12-BIT ADC, 2 CHANNEL 12 BIT DAC AND 8 DIGITAL INPUTS
- 8 CHANGEOVER RELAYS AND 8 OPTO-ISOLATED DIGITAL INPUTS

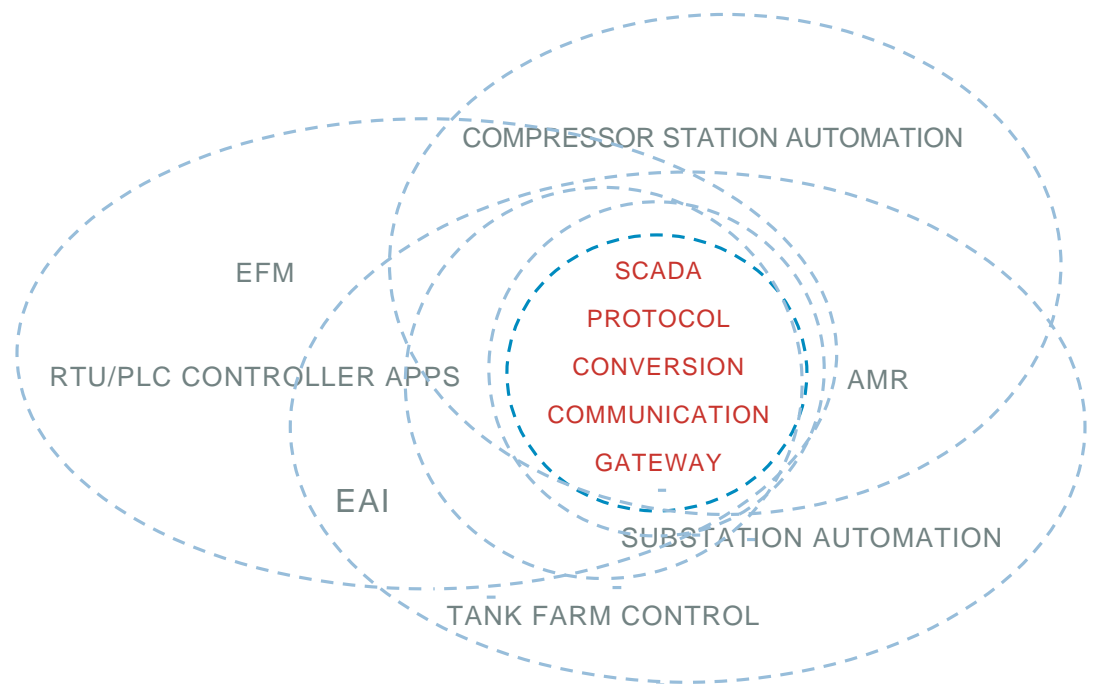
Technology	Simple Configuration	Medium Configuration	Complex Configuration and Programming
SCADA	Terminal Server/ Terminal Client passing RTU data	Acquire, collect, transform, and publish Report By Exception operational data	IsaGraf business logic- sophisticated data analysis and reporting
RTU Functionality	I/O card support	Custom scripting tool	Full PLC functionality with IsaGraf
TCP/IP Networking	Configure multiple network interfaces	Static route tables, DHCP client/server	IPTABLES utility allows firewalling, port forwarding, DNAT, SNAT. Quagga routing
Security	Multiple user accounts	SSH, SFTP, SCP	Open VPN
Director Diagnostics	Textual technician's console	Linux system administrator tools	Remote IsaGraf debugging

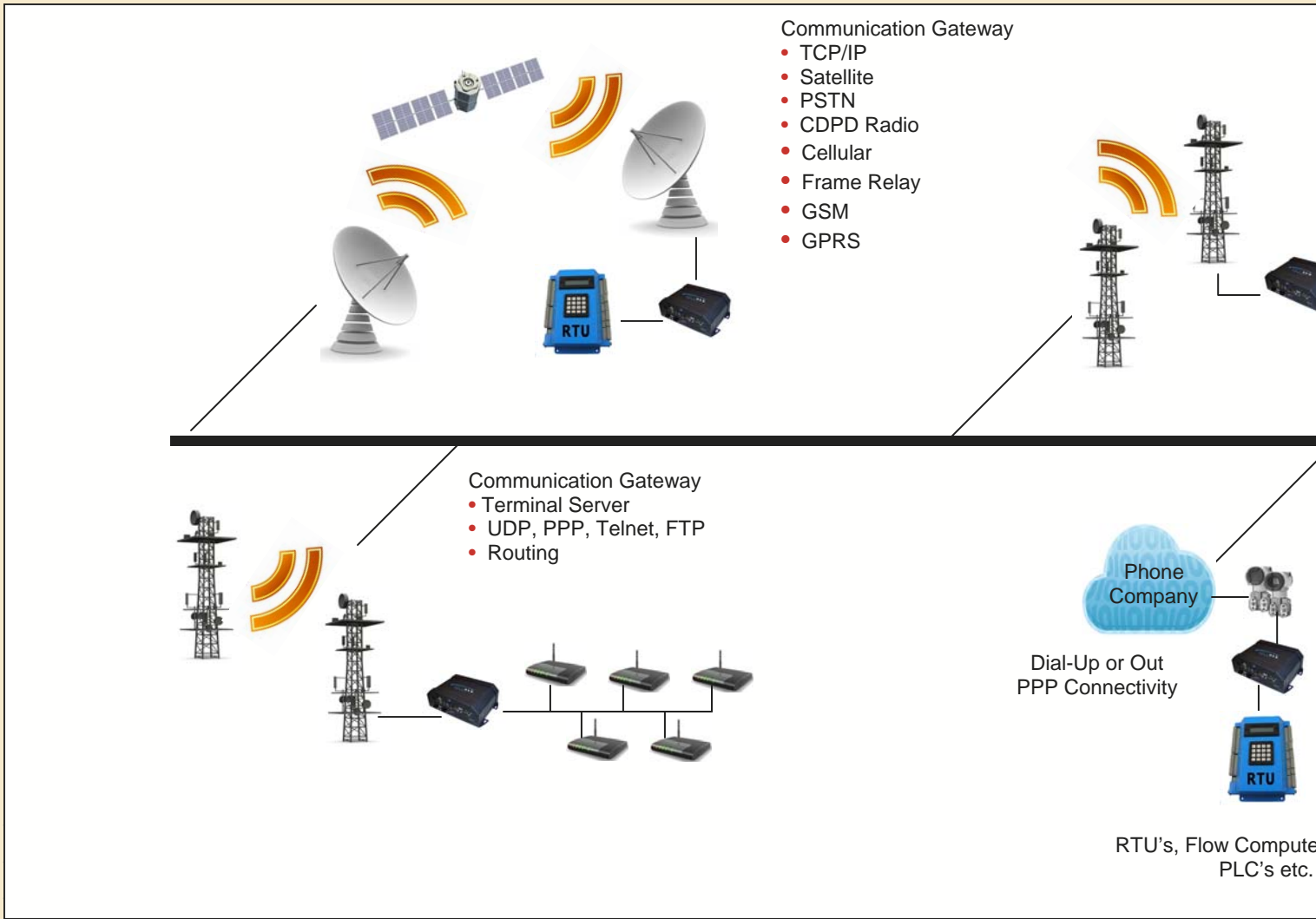
BUSINESS Integration

The Director SCADA Communications Gateway enables data from plant and remote field devices to be acquired in near real-time. Utilizing its interfacing capabilities to acquire data from a diverse array of field equipment, The Director delivers data in a neutral format such as the MQTT message broker publish/subscribe data protocol.



The Director is a multi-platform product built around the AEL (Arcom Embedded Linux) software core. Both operational and functional data can be acquired, networked, transformed, and utilized efficiently by taking full advantage of established TCP/IP technologies and communication networks.





OPERATIONAL

DATA ACQUISITION

The core functionality of The Director is to obtain and make use of data. Protocol drivers have been developed to control, convert, concentrate and enable data.

- Protocol Conversion
- Data Conversion
- Multi-Protocol Support
- Several protocols supported including Modbus, DNP 3.0, Allen-Bradley DF1, GE and Hart

NETWORKING CAPABILITIES

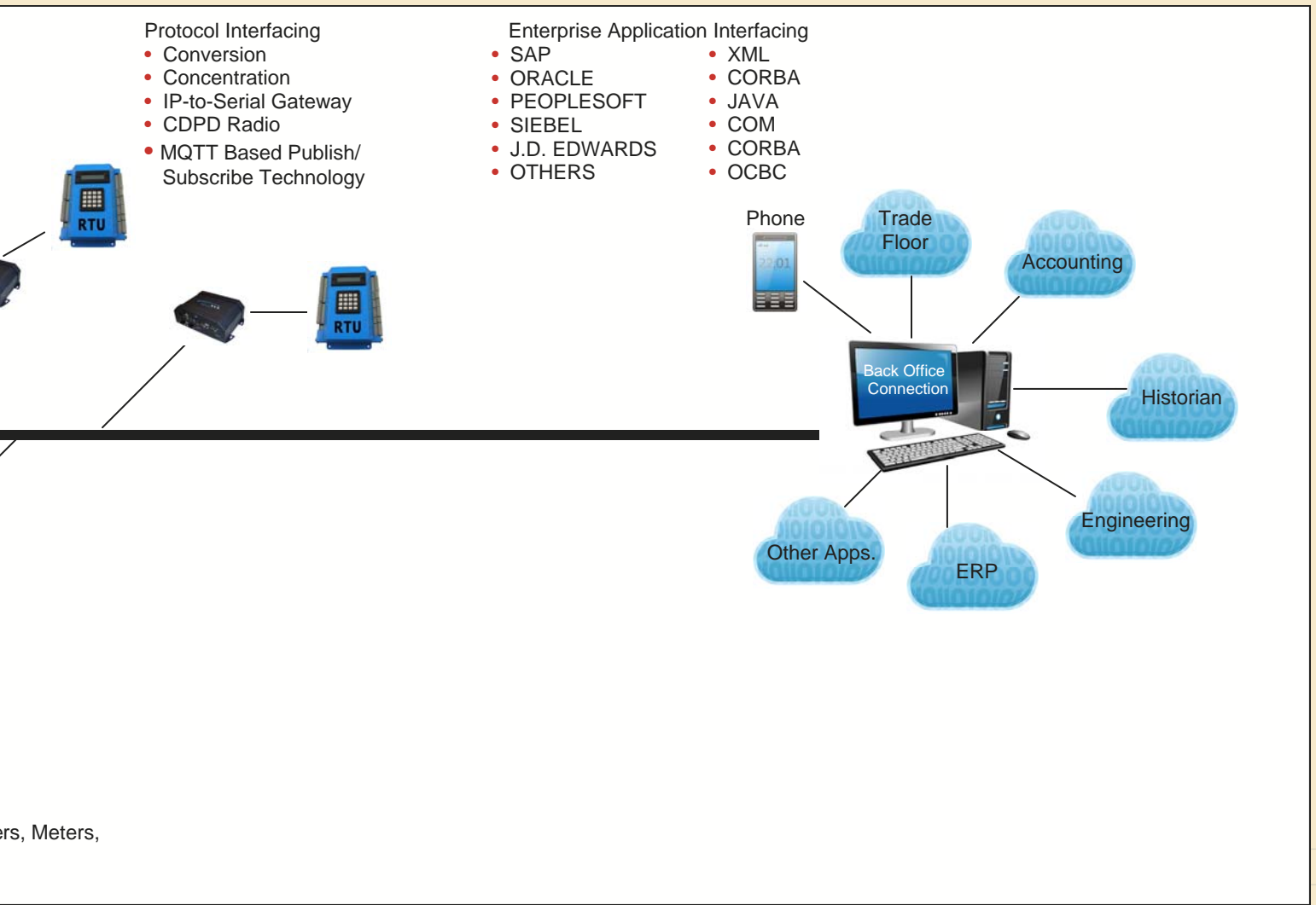
The Director has an embedded TCP/IP stack ideal for the industrial environments that provide connectivity for LAN/WAN communication networks.

- TCP/IP, UDP, PPP
- Terminal Server Capabilities
- Routing
- Remote Diagnostics

COMMUNICATIONS

The Director can utilize many methods of communication providing a truly multi-protocol network.

- LAN/WAN
- Internet
- Frame Relay
- Satellite
- CDPD



COMMUNICATION CONNECTIVITY

The Director incorporates the ability to interface with a wide range of communication protocols and provides comprehensive data integration.

- GSM
- AVDO
- 3G
- Cellular Data
- Dial Up or Out

BUSINESS INTEGRATION

The Director enables complete end-to-end integration of data from field to business enterprise applications.

- MQTT Client
- Publish/Subscribe Event driven technology
- ERP Integration

RTU/PLC FUNCTIONALITY

The Director is a proficient controller with programmability to control virtually any operation.

- IEC 1131 Programmability
- Local I/O
- Easy Expansion

About Elecsys

Elecsys Corporation provides machine to machine (M2M) data acquisition, telemetry, and analysis systems for critical industries where reliability is paramount.

Companies look to M2M communication technologies for cost-effective data collection and web-based graphical analysis tools in order to improve operational efficiencies. Elecsys designs, manufactures, and supports innovative equipment and turn-key systems that utilize its unique wireless remote monitoring, ultra-rugged mobile computing, and radio frequency identification (RFID) technologies.

The Elecsys culture and philosophy place a high emphasis on innovation, quality, reliability, and customer support.

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