

Ready's ProcessIT group bridges the gap between our clients' corporate information technology departments and their plant process control groups. Our expertise is information technology in the critical process control environment, and safe interconnection to business systems outside of the protected plant network.

Industrial Networking & Security Expertise	Operating Systems Installation & Configuration
Design, specification, optimization, and commissioning of wired and wireless solutions.	Microsoft Windows (all versions), Sun Solaris, HP-UX, Linux, QNX, OS/2, VMS, DOS.
Cisco, Dell, HP (and lower tier) network gear.	RAID-level specification and configuration.
Ethernet TCP/IP, ControlNet, DeviceNet, PROFINET, PROFIBUS, Data Highway Plus, A-B Remote I/O, DH485, DF1, MODBUS, RS232, RS422/485, OPC.	Specialized multi-monitor configurations.
NERC compliance and Security Audits.	Specialized control system keyboards.
Protocol Conversions and Extension.	Disaster recovery.
VPN and remote access solutions.	Administration and Standard Operating Procedure development.
Process Historians	Databases
Design, implementation and integration.	Design, programming, and administration.
OSI: PI	Oracle
Aspentech: IP.21 and CIM/21, Process Explorer, Web.21	Microsoft SQL and Access
Wonderware: InSQL, Active Factory	Crystal Reports
Westinghouse: eDB Enterprise Process Historian	
GE: Proficy Historian, Proficy Real-Time Information Portal	

A key role of ProcessIT is the facilitation of data communication. This includes the fundamental infrastructure of physical switches, routers, and cable, and the secure design and configuration of industrial networks. More specialized are ProcessIT solutions that allow different technology platforms to communicate with each other and exchange data effectively:

- Legacy process control system communication with new controllers and process historians.
- Proprietary system interfaces to open protocol systems.
- Communication between multiple proprietary systems.

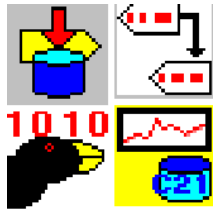
The ProcessIT group also serves a critical role in Process Improvement and Reliability Engineering. By combining our in-depth plant knowledge with sophisticated IT technologies we can bring data from the plant floor into the corporate boardroom. Information can be combined from several sources and used for any of the following:

- Predictive or Condition Based maintenance strategies based on real-time process data.
- Analysis of long term patterns to identify potential process improvement.
- Provision of real-time data to anyone in the company and not just those in the control room.
- Downtime reporting, Key Performance Indicators, and Equipment Condition Monitoring.

Ready configures, designs, programs, and deploys applications across a wide range of technology platforms to meet the demands of its heavy industrial customers.

Special Applications

Administration and Client Tools



Ready has developed a diverse array of software utilities to enhance process control administration and data acquisition. Some examples are automated spreadsheets and software to enhance administration of Wonderware InTouch/InSQL. Ready's suite of vendor-neutral historian data access tools is capable of simultaneously drawing data from PI, CIM/21, IP.21, and InSQL data sources. Other Ready tools provide process control-oriented HTML data acquisition (Web Scraping), and web-based process data rendering.

Coal Blending



Ready's second-generation fuel blending technology, CoalFusion, is the most powerful coal blending application in the World. CoalFusion is configurable for any plant and can be quickly reconfigured for physical plant modifications and additions. CoalFusion vastly increases the value of the online analyzers used in mines and power plants.

Revision Control for Process Systems



Ready was one of the first integrators of MDT Software's AutoSave, the industry's most advanced change management solution. Implementing this enterprise source management solution helps to control, protect, restore, and track changes to your industrial programmable devices, including PLC, HMI, DCS, and transmitter configurations—both online and offline—as well as the associated documentation.

I/E Project Control Software



A custom application built for real-time measurement and management of large-scale instrument/electrical projects in Alberta's oil sands, where cost control is a critical issue. The application manages material take-offs, organizes tasks into contractor work packages, and executes work-phase planning. Tasks and packages are monitored, progressed, and reported with real-time precision. With accurate and timely project information flowing up the chain of command, senior management decisions reflect true construction conditions and needs.

Programming Platforms and Software Development Tool Expertise

Ready provides concept-to-commissioning software design services in a wide range of specialty process control software design niches, including custom developed solutions to meet specific clients' needs. Some of the products and technologies we routinely utilize in our software development projects are:

- Microsoft Visual Studio 6, Visual C++, Visual Basic, ASP
- Microsoft .Net, Visual Studio.Net, Visual Basic.Net, Visual C#.Net, ASP.Net
- MatLab, MatLab Builder.Net
- Java, Java Script, HTML, XML, AJAX, SQL
- Process vendor API programming – AspenTech IP.21 API, OSI PI API/SDK, Wonderware Archestra