

InteractX 2.0

New HMI Tools for Operator Tracking and Electronic Signatures



Other New Features in InteractX™ 2.0

Tools for FDA Part 11 and cGMP

InteractX™ now includes "Easy E-sig" tools, so that no special scripting is required to comply with today's new regulations and industry standards. It's never been easier to collect complete record of events, change requests, identities and approvals that are needed to establish an effective audit trail on a machine or group of machine

Built-in Electronic Signature Support

Whether transparently tracking machine changes in the background or enabling operator "E-signature" interactions, InteractX now offers an easy "1, 2, 3" E-sig solution. By using simple checkboxes, you can add, remove or modify user authentication and input approval requirements in your application.

- **Integrated Database Logging**

Event and Historical Data Logging is now included as a standard part of every InteractX system. The new Access, SQL and ODBC database capabilities allow the logging of user activity to create audit trails and time or trigger based historical data.

- **Built-in User Administration Enhancements**

The built-in User Administration has been enhanced to make it easier to implement operator uniqueness. The new and updated features include: **User's Full Printed Name** and **User Configuration History**, with full Part 11 capable runtime user management.

- **Networked-Based User Administration**

When network based user administration is required, Windows operating system services can now be used. The new product features allow an OEM to build an application without knowledge of the network requirements, and easily enable network user administration during machine setup. It can even automatically detect Active Directory and NT Domain Services.

- **And more . . .**

- New VBA User Administration functions for custom application needs
- Alarm Management updates
- New powerful Tag Scaling functions
- New portable hardware license
- COMM Server and communications driver additions and updates
- 7 new and 28 updated drivers**
- More continuous improvements

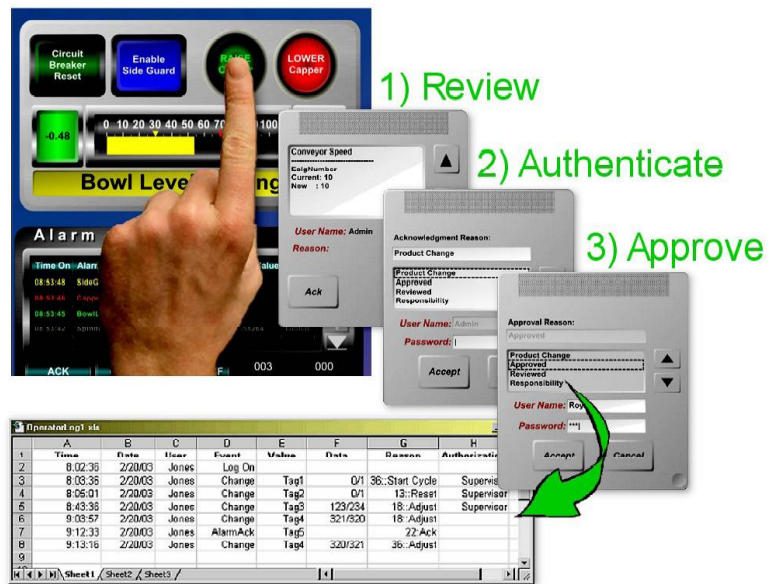


InteractX 2.0 Features & Benefits

Easy E-Sigs - Easy as 1, 2, 3!

Tracking operator input and implementation of Electronic Signatures is now easily configured using tools that eliminate the need for custom programming. Input tracking configuration options include:

- 1) **Require Input Approval** – activates tracking of changes made by the operator.
- 2) **Verify Input** – defines the actions required by an operator to check their input before it is sent to a controlling device. Options include:
 - a. **Require Authentication**
 - b. **Reason for change**
- 3) **Approve Input** – option configures the rules for supervisor approval before a change is made to the system.
 - a. **Approval User Level**
 - b. **Require Authentication**
 - c. **Approval Reason for change**



No Scripting Required!

InteractX™ Award-Winning Windows® HMI Software Features:

- A panel tool library for quick screen development
- Lifelike graphics for easy machine operation
- Alarming from real-time and historical archiving/review
- Open architecture to support ActiveX® 3rd-party tools
- Customization with VB for Applications (VBA)
- Over 60 standard communication drivers
- Vast 3rd-party OPC client/server support
- Multi-language support for international market

**"No Tag Games"
Windows HMI**

Winner of
Control Engineering's

2003 Editors' Choice Award

and

2003 Engineers' Choice Award



NEW!



CTC's new high-performance **HPX PowerStations** feature 10, 15 and 17 inch displays . . . pre-installed and licensed with InteractX Windows-based HMI software.

See for yourself why InteractX is the top pick for HMI software . . .

For your **FREE Software Evaluation CD**, log on to ctcusa.com or call us at **800-233-3329**.

Microsoft, Windows, Visual Basic and ActiveX logos are registered trademarks of Microsoft Corporation in the United States and/or other countries.



InteractX 2.00 Driver Guide

InteractX includes 60+ bundled communication drivers for the major PLC manufacturers. The following drivers are an integrated part of the InteractX COMM Server. The drivers are provided, at no additional cost, with each development and runtime system. One or more of the drivers listed below may be used in any application.

Manufacturer	Communication Type (Driver)	Control Devices Supported	Protocol
Allen-Bradley	ControlLogix Ethernet/IP	CompactLogix 5300/5320/5330 with E suffix <ul style="list-style-type: none"> Built in Ethernet/IP Port Channel 0 via 1761-NET-ENI (Series B) 	Ethernet / IP (CIP over Ethernet)
		ControlLogix 5550/5555/5563 processors <ul style="list-style-type: none"> 1756 ENET/ENBT 	
		FlexLogix 5400/5433/5434 <ul style="list-style-type: none"> 1788-ENBT Ethernet Daughtercard Channel 0 via 1761-NET-ENI (Series B) 	
		SoftLogix 5800 <ul style="list-style-type: none"> Ethernet/IP Messaging Module 	
		Via 1761-NET-ENI to Channel 0: Micrologix 1000/1200/1500 SLC 5 Family PLC-5 series (excluding the PLC5/250 series) PLC-5/20C, PLC-5/40C, PLC-5/80C	
		Via DH+ Gateway: SLC 5Family PLC-5 series (excluding the PLC5/250 series)	
		Via ControlNet Gateway: PLC-5/20C, PLC-5/40C, PLC-5/80C	
	DH+/DH-485 Networks	SLC5 and PLC5 connections using a network interface card.	Allen-Bradley DH+ or DH-485
		Supported Interface Cards AB: 1784 KTX/KTX-D, PKTX/PKTX-D, or PCMK/B, SST Woodhead: 5136-SD-ISA or 5136-SD-PCI	
	PLC2 Ethernet	Allen-Bradley PLC's programmed to send PLC-2 type commands	Allen-Bradley Unsolicited Ethernet
	SLC5/PLC5 Ethernet	SLC5/05 processor, PLC5 series excluding the PLC5/250 series	Allen-Bradley Ethernet
	SLC5/PLC5(DF1) Serial	Micrologix 1000/1200/1500 series, SLC500 series, PLC5 series excluding the PLC5/250 series	DF1 Full-Duplex (point-to-point communication) and Half-Duplex Master (multidrop communication, DF1 Polled-Mode)

InteractX 2.00 Driver Guide

Aromat	FPx Serial	FP0, FPM, FP1 (models: C16, C24, and C40), FP3, FP10SH	MEWTOCOL-COM
	FPx Ethernet	FP series PLC with ET-LAN Ethernet unit	FP Ethernet Protocol (UDP or TCP)
AutomationDirect	205/405 ECOM Ethernet	DL-05, DL-06, DL-230, DL-240, DL-250, DL-260, DL-430, DL-440 and DL-450 PLCs via an Hx-ECOM module.	Koyo Ethernet
	205/305/405 DirectNet Serial	DL-05, DL-06, DL-230, DL-240, DL-250, DL-260, DL-330, DL-340, DL-430, DL-440 and DL-450 PLCs	DirectNet Hex Mode
	205/405 K Sequence Serial	SG Series PLCs SL Series PLCs D1-105, D2-05, D2-06, D2-230, D2-240, D2-250, D2-260 D4-430, D4-440, D4-450	Koyo K Sequence
Compumotor Example applications provided on CTC's web site for Compumotor products	Acroloop ACR9000	ACR9000 EtherNet/IP	Ethernet/ IP (ACRCIP)
	Acroloop PC Bus Cards	ISA and PCI ACR1500, ACR2000, ACR8010, and ACR8020 PC Cards	Bus Interface
	Acroloop General Serial	ACR9000 RS-232 Serial	User Config. Driver
	6K Serial and Ethernet	6K Series of Universal Motion Controllers 6K2, 6K4, 6K6 and 6K8	<i>Compumotor 6K OPC Server</i>
	Compax3 Serial	RS-232 and RS-422 serial connectivity	User Config. Driver
	Gemini and Gemini6K	Serial and Ethernet connectivity	<i>Compumotor ActiveX Control</i>
	PLmC	Ethernet connectivity	3S OPC Server Provided with PLmC
Fuji	Fuji Flex	NB/NS/NJ series serial communications	Fuji Computer Link
GE Fanuc	CCM Serial	Series 90-30 311/313, 331/341 Series 90-70 731/732, 771/772, 781/782 Series Six CCM2 Series Five	GE CCM
	GE Ethernet	Series 90-30 311/313, 331/341, 350,360 Series 90-70 731/732, 771/772, 781/782 GE OPEN (Wide range model support) Horner OCS (Horner's Operator Control Stations)	GE Ethernet
	GE Ethernet Global Data	Series 90-30 CPU-364 or higher equipped to handle EGD transactions Any device that supports EGD protocol.	EGD Transactions
<i>GE Fanuc continued.</i>	SNP Serial	Series GE Micro Series 90-30 311/313, 331/341, 350,360 Series 90-70 731/732, 771/772, 781/782 GE OPEN Wide range model support	GE SNP

InteractX 2.00 Driver Guide

	SNPX Serial	Series GE Micro Series 90-30 311/313, 331/341, 350,360 Series 90-70 731/732, 771/772, 781/782 GE-OPEN Wide range model support	GE SNPX
General	DDE Client	DDE Client Driver is capable of standard "CF TEXT" DDE data format	"CF TEXT" DDE data format
	ODBC Database Client	Retrieves data records from ODBC compliant databases such as using the Microsoft Data Access Components (MDAC) including <ul style="list-style-type: none"> • Microsoft Access • Microsoft SQL • Oracle • Sysbase 	ODBC Database using MDAC
	Simulator	Live data simulation including Boolean, ramp, wave, sine and string values	-
	Advanced Simulator	Provides data simulation by returning values sequentially on a timed basis from an ODBC record set	
	OPC Client	InteractX tags may be served to 3 rd party OPC Clients.	-
	OPC Server	3rd party OPC Servers can be used to interface to multiple control devices	-
	User Configurable Driver	Serial and Ethernet devices	Master and unsolicited messaging for ASCII and Binary protocols. Ethernet Devices via Ethernet Serial Encapsulation
Hilscher	DeviceNet and Profibus DP	Use with Hilscher Communications Interface (CIF) cards for DeviceNet and Profibus DP connectivity. DeviceNet Master: CIF50-DNM DeviceNet Slave: CIF50-DNS Profibus DP Master: CIF50-PB Profibus DP Slave: CIF50-DPS	Universal Device Driver for CIF Cards
Honeywell	UDC Serial	Honeywell UDC 3000 UDC 3300 MODB3K mode	Modbus RTU with Honeywell UDC extensions
IDEC	Serial	Micro1, Micro3, MicroSmart, OpenNet, FA2J, FA2, FA3S-CP11 and FA3S-CP12 PLCs	Idec ASCII Protocol
Mitsubishi	A and Q Series Ethernet	All A Series PLCs via AJ71E71 Module All Q Series PLCs via A1SJ71QE71 Module	Mitsubishi Ethernet
	A Series Serial	All A Series PLCs	Format 1 with Checksum Enabled

InteractX 2.00 Driver Guide

<i>Mitsubishi continued.</i>	FX Net Serial	FX, FX2C, FX0N, FX2N	Format 1, Checksum
	FX Series Serial	FX, FX0, FX0N, FX2N	Direct Serial
Modicon	Modbus Ethernet	Modbus Ethernet compatible devices, both Master and Slave.	Modbus Master and Slave (Mailbox)
	Modbus Plus	Modbus Plus compatible devices, both Master and Slave.	Modbus Plus via SA85 card
	Modbus Serial ASCII	Modbus ASCII compatible devices, Flow Computers using the Daniels/Omni/Elliott register addressing	Modbus ASCII
	Modbus Serial RTU	Modbus compatible devices Elliott Flow Computer Magnetek GPD 515 Drive Omni Flow Computer	Modbus RTU
	Modbus Serial RTU SLAVE - Unsolicited	Modbus compatible devices	Modbus RTU
Omron	Fins Ethernet	C200H/C200HE/C200HE-Z/C200HG/C200HG-Z/C200HS/C200HX/C200HX-Z, C500, C1000H, C2000/C2000H, CV500, CV1000, CV2000, CVM1/CVM1-V2 (CPU01/CPU11/CPU21), CS1H/CS1G	Omron FINS
	Fins Serial	C200H/C200HE/C200HE-Z/C200HG/C200HG-Z/C200HS/C200HX/C200HX-Z, C500, C1000H, C2000/C2000H, CV500, CV1000, CV2000, CVM1/CVM1-V2 (CPU01/CPU11/CPU21), CS1H/CS1G	Omron FINS
	Host Link	C20H, C200H, CQM1	Omron Host Link
Siemens	MPI Network	Siemens S7-300 and S7-400 devices via MPI PC Adapter: Siemens Part: 6ES7-972-OCA23-OXAO Version 5.1 Siemens Part: 6ES7-972-OCA22-OXAO Version 5.0	Multi Point Interface (MPI) via PC Adapter
	Ethernet to MPI	Ethernet to MPI serial connection using NETLink adapter from Systeme Helmholtz	Siemens Ethernet Driver.
	Siemens Ethernet	Siemens S7-300/400 PLCs via an Industrial Ethernet interface communication processor (CP) S7-200 via CP243 Module S7-300 via CP343 Module S7-400 via CP443 Module	S7 Messaging on Industrial Ethernet (ISO 8073 Class 0) over TCP/IP
	S5 - RK512	Any device that supports 3964 or 3964R protocol and uses the RK 512 computer link program.	3964R and 3964 (The 3964 variant is identical to 3964 except it does not use a Byte Check Character)
	S5 Programming Port	Siemens S5 - 90U, 95U, 100U - 100, 100U - 101, 100U - 103, 101U, 115U - 941, 115U - 942, 115U - 943, 115U - 944, 115U - 945, 135U - 921, 135U - 922, 135U - 928, 155U - 946, 155U - 947	AS511 Current Loop
	S7-200 PPI	Siemens S7-200 devices	Point-to-Point (PPI) S7-200 Communications Protocol

InteractX 2.00 Driver Guide

<i>Siemens continued.</i>	Simatic 505 Ethernet	T1 Series 505 processors including 525, 545, 565	Simatic 505-CP2572 Ethernet module or the Control Technology Inc. 505-CP2572 card. User Datagram Protocol (UDP) or Transfer Control Protocol (TCP)
	Simatic 505 Serial	T1 Series 500/505 processors - 520, 525, 535, 545, 555, 565, 575	Non-Intelligent Terminal Protocol (NITP) Transparent Byte protocol (TB)
	TIWAY UNLINK (Serial)	TIWAY Secondary Devices via TIWAY 1 Host Adapter or TIWAY 1 UNILINK Host Adapter connection to TIWAY compatible PLCs	NITP protocol
SquareD	SY/MAX Serial	SY/MAX PLCs and PowerLogic power line monitors	SY/MAX Point-to-Point
Telemecanique	Uni-Telway Serial	TSX Controllers including the TSX Micor/Permium PLCs	Small and Large Frame Uni-Teleway
Toshiba	T Series Serial	EX100, EX200, T1, T1 Super, T2 PLCs, and T3 PLCs	Toshiba ASCII Computer Link Protocol
Toyopuc	Computer Link Serial	PC2 Series PLC or any Computer Link compatible device	Computer Link
	PC2 Ethernet	PC2 Series PLCs via EN-I/F Module	Computer Link
	PC2/PC3 Ethernet	PC2 and PC3 Series PLCs via EN-I/F Module	Computer Link
WAGO	Ethernet TCP/IP	Wago 750 Bus Couplers	Wago Specific Modbus Ethernet
Yaskawa	Memobus Plus	Yasakawa controllers via Memobus Plus using the Modicon SA85 Network card.	Memobus Plus
	MP Ethernet	MP 920 Series controllers using 2181F Ethernet communication modules	Ethernet TCP/IP
	Memobus Plus	MP 900 Series controllers using serial connection with native tag addressing	Modbus RTU