InTouch Machine Ed. & IIoT

Presented by Mike Llapitan
InTouch Machine Edition Introduction

Who is it for?

- Need to get started with SCADA, HMI, IIoT?
- Need results fast
- Want an open platform not tied to a single hardware vendor
- Want local support you can call now
- Need the ability to grow when needed
- Worried about staying within your budget
Wonderware HMI/SCADA Scalable Portfolio

COTS Offers by Functionality, Scale and Reuse Tailored for Industry Fit
InTouch ME Demo: Comprehensive HMI Package
Example: Tracking Waste

- InTouch Machine Edition Touch Panels integrate with legacy serial based scales and the Wonderware Historian

- Operators weigh the “scrap” and select from drop-down boxes:
  - Line No.
  - Shift
  - Waste Type (Cooked/Raw)
  - Product Group
  - Product ID

- Data is stored for immediate access to “Waste Reports” by Line, Product Group, Product ID, Shift

- Reports measure waste in $
Interoperability

- Over 240 Protocols (Drivers)
  - TCP/IP
  - OPC Server Gateway
  - XML
  - ODBC/ADO
  - DDE
  - OPC UA, DA, .NET, XML
- Web (HTML & XML)
- Driver & Database API
- Open Architecture
  - System Integration
  - Product Customization
- Mobile Access
  - Email, data, and page interface from mobile devices
- Web Solution
  - Access to the system from anywhere using a single browser
- Plant Floor Integration
  - Schneider-Electric, OMRON, GE FANUC, AllenBradley, Siemens, Modbus, Profibus, DeviceNet, ControlNet, Interbus, Beckhoff and many others...
- Client Stations
  - Redundancy
  - Data Exchange in Real-Time
  - Third-Party Systems
  - Thin Clients
- Enterprise
  - Excel, Access, Oracle, MySQL, Sybase, SQL Server, SQL Azure, Wonderware Historian and many others...

Web Solution
Access to the system from anywhere using a single browser
Easy-to-configure interface to Wonderware Historian & WW Online, or any SQL Relational Database: SQL Server, MySQL, MS Access, Excel, etc.

Interface via standard technologies: ADO.NET, ADO, OLE-DB, and ODBC

Built In Data Logging – Works with Any Database

Redundancy and Store-and-forward built-in features

Alarm history, Event history, Trend history, Process data, OEE dashboards, and more.
Native Thin Client Solutions

**Web Clients – HTML5**
- Platforms: Agnostic
- Host: Web Browser agnostic
- Technology: HTML5

**Desktop Thin Clients**
- Platforms: Windows
- Host: Secure Viewer (executable)
- Technology: ActiveX
Water/Wastewater Example Architecture

Control Room Workstation
InTouch Machine Edition
Development/Runtime
Data Logging
PLC Connectivity

Phones, Tablets & Laptops

Supervisor Desktops & Operator Workstations

Touch Panels

PLCs

RTUs
Manufacturing Example Architecture

**Control Room Workstation**

- **InTouch Machine Edition**
  - Development/Runtime
  - Data Logging
  - PLC Connectivity

**Phones, Tablets & Laptops**

**Supervisor Desktops & Operator Workstations**

**TV Dashboards**

**Touch Panels**

**PLC**
InTouch Machine Edition System Price Example

- **InTouch Machine Ed. Runtime 1k Tags**
  - Cost: $2,005
  - Part Number: ITMER-02-N-17
  Includes:
  - Full Runtime + 1 Concurrent Web/Thin Client
  - Connect to any PLC
  - Data Logging & Trending
  - Alarming & Email/Text Notification

- **Additional Concurrent Web Client**
  - Cost: $625
  - Part Number: ITMETC-02-N

- **Development**
  - Cost: $1,085
  - Part Number: ITMED-01-N-17U
Import PLC Tags from Allen Bradley, Modicon, Siemens & more

- Improves efficiency when designing and maintaining applications.

- Evolving list of data sources supported, including:
  - TwinCAT (Beckhoff)
  - CodeSys (3S)
  - RSLogix 5000 Family (Rockwell)
  - Allen-Bradley PLC5, SLC500 (Rockwell)
  - AutomationDirect Koyo (AD)
  - AutomationDirect PAC 3000 (AD)
  - Schneider Unity Modbus (Schneider-Electric)
  - Siemens S7-1500
Import Wizard for FactoryTalk™ ME/SE, PanelView & PanelMate
InTouch Machine Edition Touch Panel Example Price

- **15" InTouch Machine Ed. Panel 100 Tags**
  - Cost: $3,050
  - Part Number: TCND2U-15AC-PM2C

Includes:
- Connect to any PLC
- Data Logging & Trending
- Alarming & Email/Text Notification
- 1x Concurrent Web Client
- 2 Year Advanced Replacement Warranty

**N2930 Quad-Core Celeron 1.83 GHz, 4GB DDR3, 16/32GB SSD, NEMA4X, Fanless**

- **Upgrade to 500 Tags**
  - Cost: $335
  - Part Number: ITMEEV-02-N-17
Wonderware Online IIoT Example
Wonderware IIoT Pricing Example

- Wonderware Online 100 Tags, 5 Named Users
  - $2,000 Annual Subscription
    - Includes InStudio Browser Client
    - SmartGlance Mobile App
    - Advanced Desktop Trend
    - OData Rest Interface
    - Historian SDK

- ITME IoTView 100 Tags
  - $165 One Time License
    - Includes all Drivers/Database Connectivity
    - Store & Forward Data to Wonderware Online
    - (1) Web Client
    - Supports Linux & VxWorks
Enhanced Data Input for Mobile Thin Clients

- Support the mobile device’s language
- Consistent with the native virtual keyboard provided by the mobile device’s operating system
- Support for both numeric and alphanumeric input
Portfolio Integration

Best in class solution integrating local HMIs with central SCADA system, increasing productivity and quality

- Seamless IDE integration
- ArchestrA Galaxy Repository
- Automatic point mapping
- Event-driven value communication
- Synchronized Alarm Status
- Native support for Wonderware Historian
- Remote Management and Deployment
Free Online Training Video Library & Local Workshops

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<td>One of 3 Thin Clients, Topology, Publish Screens as HTML, Configure Settings, Configuring Microsoft IIS</td>
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<td>One of 3 Thin Clients, 2 Parts, Tabular, MA (HTML5), Configuration, Alarms, Process, Tags, and Trends</td>
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Thank you!
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