Designing AVEVA InTouch HMI application for web clients

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Introduction (What is InTouch Web)
Architecture
The Introductory Demo
What works
What doesn’t work
Example(s) Demo
Workspaces
Call to Action (Try your apps)
What is it?

InTouch Web Defined
Web HMI has come to InTouch

Empowering All InTouch Customers with native Web Capability

- Window Viewer user experience in Web Client with minimal footprint.
- Backwards compatibility with InTouch application (stand-alone, modern, managed)
- Extending the Window Viewer navigation & experience to the native web browser
- Localization Support (German, Japanese, French, Simplified Chinese)
- Higher Scalability for large scale deployment
InTouch Web Client Key Benefits

Simply works out-of-box without any re-engineering!

- Access plant floor data using any HTML5 browser from any device
- Display real-time and historical data from InTouch HMI or System Platform
- Simple configuration. No Programming. Use existing Navigation or Simply point to folder with the selected graphics

- The InTouch Web Server can run on both Microsoft Windows Server or Workstation OS
- No IIS web server or Remote Desktop Services (RDS) required
- Zero client installation. No IT administration required!
Architecture Review

What are the pieces and where do they fit
Reference Architecture

Cloud Development

- InTouch WindowMaker
- Historian

Edge layer data, or IIoT data sources

PLC / RTU / Devices

Plant Floor
- InTouch WindowViewer

Control Room
- InTouch WindowViewer

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Using The Introductory Demo

The Existing Demo Application Designed for The Web Client
Starting InTouch Web Server

Using InTouch Application Manager

• From the Start Menu Select
• Application Manager will Start
• First time you will see the default applications
  • Demo Application 1280 x 1024
  • InTouch Introductory Demo 1080p

• There are 3 Tabs
  • InTouch (the default)
  • OMI
  • Web Client
    • Switch to Web Client

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Checking the Web Client

Start and Stop Client

• Select Current Application
  • List shows all applications that are available
    • Intro demo designed specifically for InTouch Web
    • Select Intro Demo and Save
    • Leave all other defaults

• Settings can be customized
  • Click to customize button to change settings
  • Notice keywords
  • Notice ability to reset to defaults
Run the Introductory Demo

Designed for Web

- Launch WindowViewer into the “InTouch Introductory Demo 1080p”

- WindowViewer Starts

- Select “InTouch Web Client” from the Start Menu
Questions to Ask Yourself or The Application Developer

- When was the application last updated?
- Are there controls used in the application?
- Are there custom script functions?
- Does each session need its own memory tags or are they shared?
- What type of security do you need?

Structure for the User
- Built in Navigation
- Folder organization
What Works

Not all objects can render in the web client, so what works?
Industrial Graphics

- InTouch Windows can Be Converted to Industrial Graphics
- Prebuilt Library's
  - Industrial Graphic Library
  - Situational Awareness Library
  - Widgets
Web Widgets

What they are and how to use them

- HTML5 Applications That Execute and Render in a Browser
  - Out of the Box
  - Custom
  - Can be Imported
  - Can Be Used to Replace Some Legacy Control Functionality
  - Can Be Created Using Toolkit
What Doesn’t Work

Not all objects can render in the web client, so what doesn’t work?
Legacy Controls

Not Web Friendly

- GOT Objects
- ActiveX Controls
- .Net Control
- WPF Controls
Demo Examples

Extending the reach and getting everyone InTouch
Standard Workstation
Map Widget

Here a Map widget displaying process graphics

Tank 1
- Flow rate: 17 gallon/min
- Temperature: 57 °F

Tank 2
- Flow rate: 27 gallon/min
- Temperature: 47 °F
Now In A Browser

Any HTML5 Compatible Browser
InTouch Application Templates

Leverage Out-of-the-Box Tools\Materials
Other Architecture Options

Cloud Development

- InTouch WindowMaker
- Historian
- InTouch WindowViewer
- Edge layer data, or IIoT data sources
- PLC / RTU / Devices
- Remote Reference...

- InTouch WindowViewer
- Web Client

Plant Floor

- InTouch WindowViewer
- Web Client

Control Room

- InTouch WindowViewer
- Web Client

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Workspaces

Users can create their own dashboards
Conclusion

Your call to action
InTouch Web Summary

The Facts

• No Installation Needed
• Works with any HTML5 Browser
• Works with Legacy InTouch with Modifications
• Supports Read Only and Read\Write Functionality
• Works with Windows Domain Security
• Also works with System Platform
• Can be used for a multi-node consolidated server
• Includes Personal Workspaces
Questions?
Please wait for the microphone.
State your name and company.

Please remember to...
Navigate to this session in the mobile app to complete the survey.

Thank you!
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