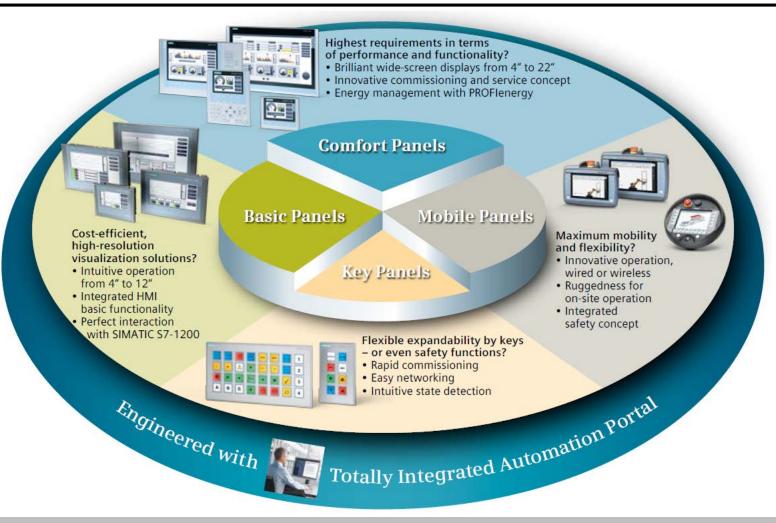


Universal Connectivity with Siemens HMI

Kelly Anton

Professional Control Corporation

Siemens HMI Family Introduction





HMI Software TIA Portal

Same look and feel between all Editions of WinCC software in TIA Portal **WinCC Professional** Engineering **WinCC Advanced WinCC Comfort WinCC Basic Panel PCs Basic Panels Comfort Panels, SCADA Mobile Panels Devices**



Selection Based on Size or Keys

























Touch from 4" to 22" Key devices from 4" up to 15"

Archives, scripts, Internet Explorer, PDF/Excel/Word viewer, Media Player, F(x) – functions, system diagnostics viewer, ...











All Comfort Panels offer the same high-end functionality over all display sizes.



Data and System Slots



"Data" slot for archives and other data

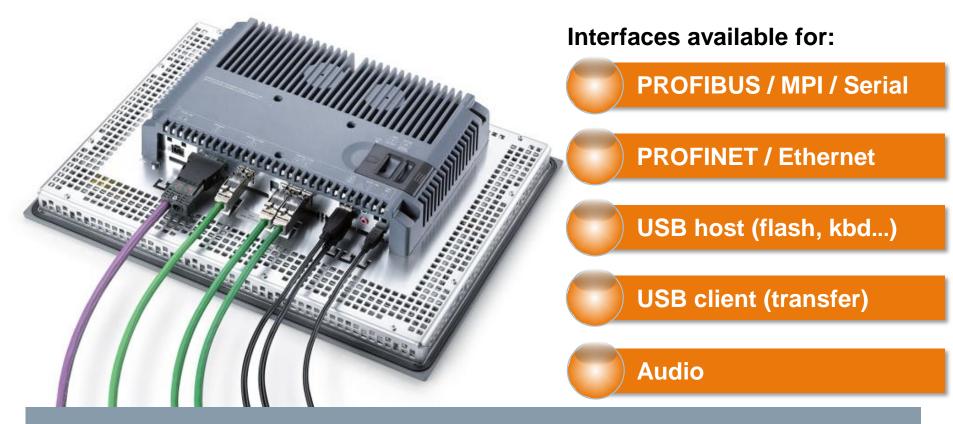
 Maximum data security for archives in RDB format. Store archive data and files

"System" slot for automatic backup

Fast device exchange with SIMATIC Card
Insert card ⇒ confirm message ⇒ done



Comfort Panel Interfaces

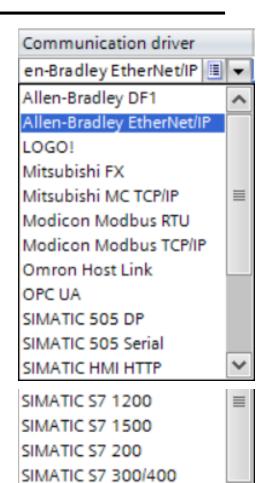


Various communication possibilities by standardized interfaces



Communication Drivers

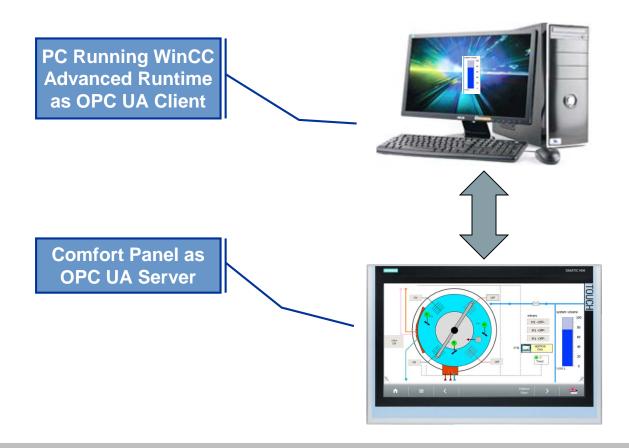
- Built in drivers for:
 - Siemens PLC's
 - 3rd party PLC's such as Ethernet/IP
- Multiple drivers at same time.
- Channel Support Packages (CSP) TI
- AB Tag Converter Available
- Siemens 422/485 to 232 converter





OPC UA Server

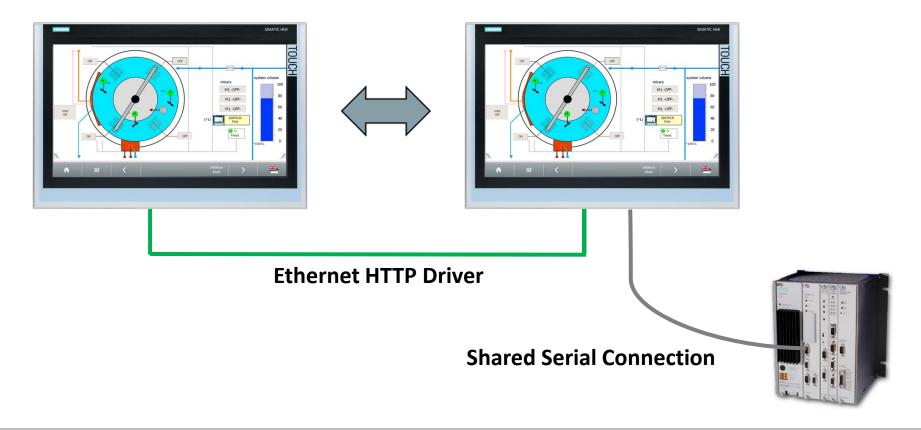
Make HMI tag data available upstream.





HTTP Driver

HMI to HMI Tag Sharing

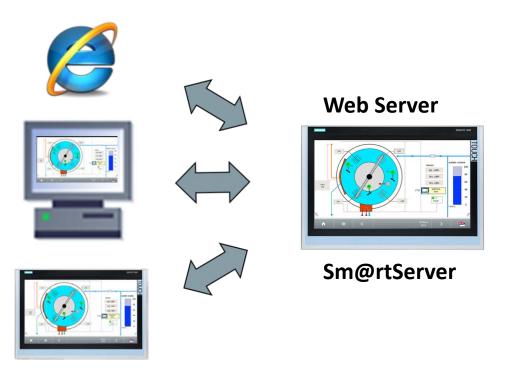




Panel Web Pages and Sm@rtServer

- HMI as Web Server
- Web Browser, SmartClient.exe & Sm@rtClient view



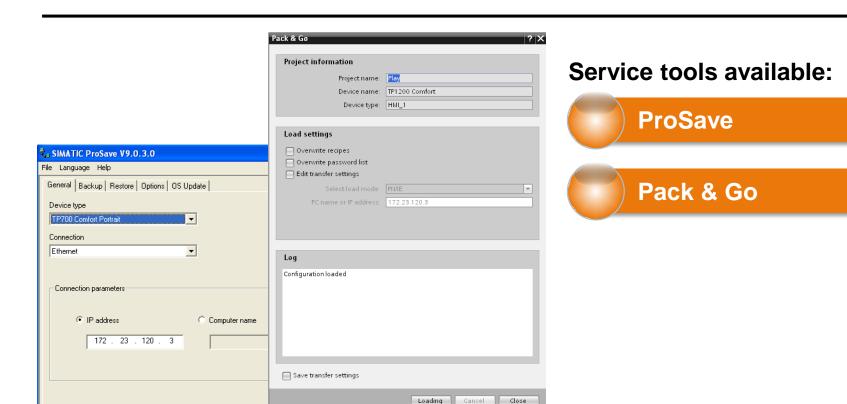


Clients



Service and Commissioning

TP700 Comfort Portrait Ethernet



Free tools that can save a trip.



Camera Control

- Ethernet Camera Streaming Protocols
 - RTP/RTSP
- Video Formats:
 - H264
 - MPEG4
 - MJPEG

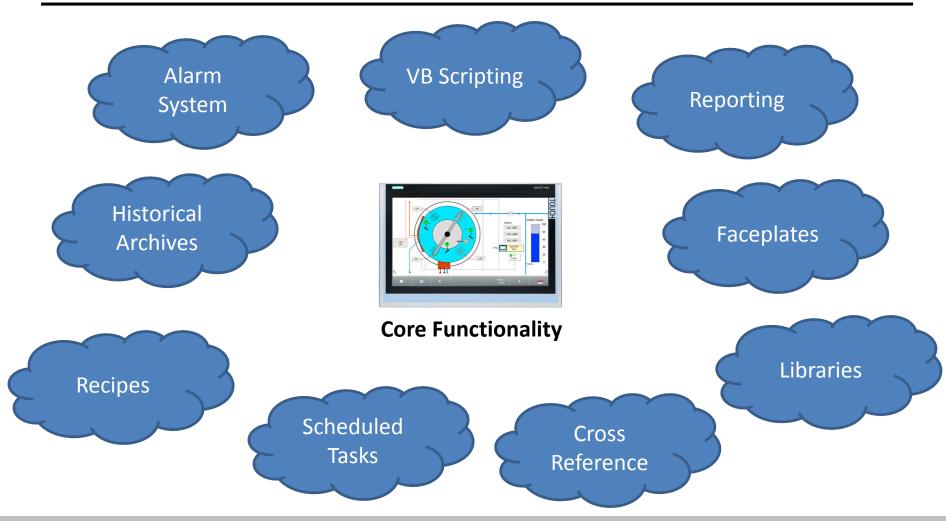


Camera AXIS 215 PTZ Network Camera

Resolution: 704x480

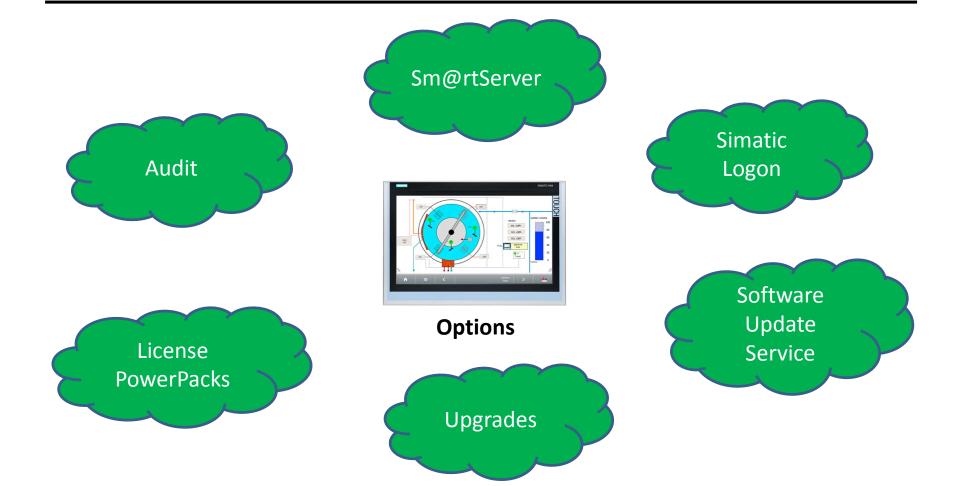


HMI Features





HMI Options





Live Demos

- AB Tag Converter Demo
- Show Runtime Simulation on Development PC
- S7-1500 System Diagnostics Viewer
- Comfort Panel Web Pages and Sm@rt Server
- OPC UA Server to Kepware OPC UA Client Driver

