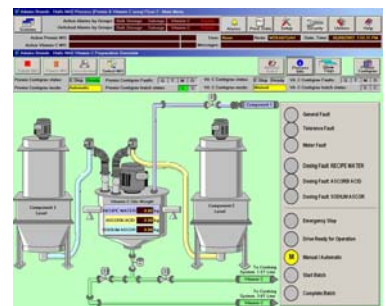
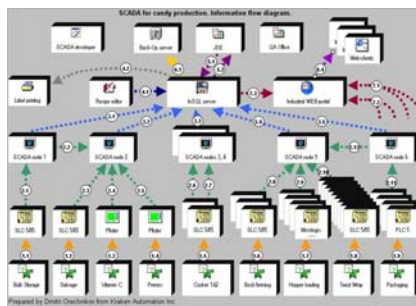
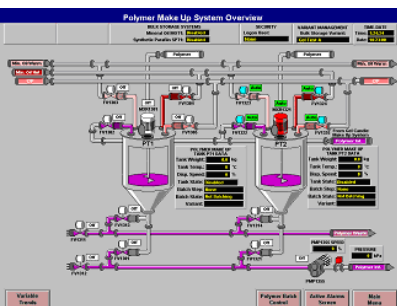
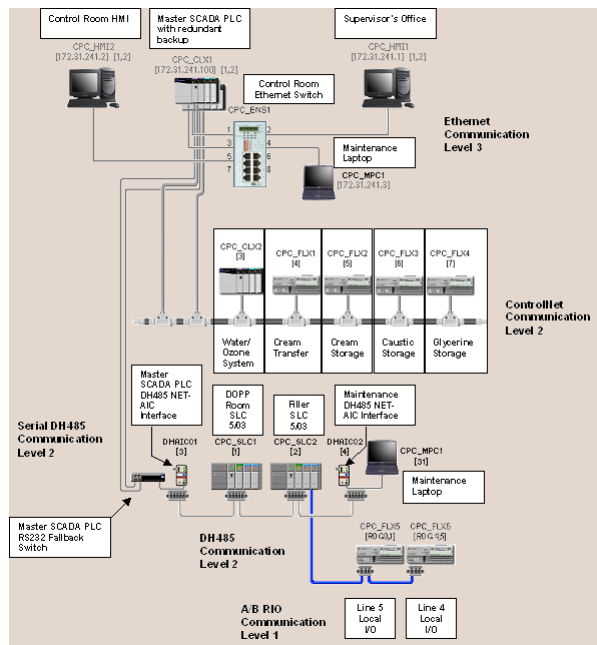


# KRAKEN HMI Architectures

Where intelligent human-machine interaction is required, Kraken Automation has the resources to configure any HMI architecture for any process or packaging system.

As part of any plant (local vicinity), or wide area (multiple plants) SCADA control system, HMIs (Human Machine Interfaces) architectures provide a more flexible and intelligent portal for monitoring and controlling sub-processes or machines, or entire systems. Operator interfaces address localized control and monitoring tasks, but when applications require not only these features, but also embedded intelligence, distribution of data handling/control resources and access to various data sources, HMI architectures provide the required functionality. Moreover, the intelligence configured in these systems can provide operators with the ultimate control and monitoring flexibility while provide enough intuitiveness to keep these tasks as simple as possible. In addition, system administrators can securely maintain these applications and architectures, and still provide responsiveness where changes or alterations are required.

Since HMI architectures are invariably PC (Personal Computer) based, topologies can be constructed using a number of HMIs, I/O servers, and specialized resource devices (i.e. data historians, SPC/quality systems) using plant networks to integrate resources. Furthermore, the access to secured information and control can be made boundless to remote users with the integration of Internet portals. As such, Kraken Automation has the experience and resources to provide customers with some of the most versatile HMI applications and integrated architecture schemas. <Click for more detailed information>



## Engineering Services Innovative Packaging Solutions and Factory Automation Specialists

A sample of the services and resources that KAI can offer regarding HMIs are:

- Conceptualization of the HMI control architecture, which would address number of required HMI nodes to meet monitoring/control requirements, communication topologies (i.e. data servers, local communication), the use of data historians, alarm management and interfaces to higher level business systems/databases;
- Configuration of the required HMI interface screens, local and/or remote tag name databases, alarm handling functions, background scripts, database interfaces;
- Configuration of required I/O servers, data historians, and other specialized integrated resources, such as product quality and LIM systems, web enabled interfaces, production downtime analyzers, and MMS systems.
- Integration into business systems for data transactions with the HMI architecture.
- Frequent review with customers on architecture concept and implementation, ensuring a full consensus on functionality and end requirements;
- Provision for conceptualization and implementation of network topologies to support HMI architectures;
- Wide knowledgebase of HMIs from a variety of industry known manufacturers.

As with operator interfaces, throughout the development process, KAI applies structured configuration principles and copious documentation, leaving no unanswered questions when understanding the intent of the configured system. The goal for KAI is to have the customer self-sufficient with the final configured application, allowing them to manage their systems with confidence.

For a more detailed list of Kraken Automation's HMI architecture knowledgebase, refer to the next column on this page.



### HMI Application Systems:

- Wonderware – InTouch HMI, with recipe and SQL manager
- Wonderware – InSQL, with RIDAS
- Wonderware – Active Factory
- Wonderware – InControl
- Wonderware – QI Analyst
- Wonderware – SuiteVoyager
- Wonderware – Application Server
- Wonderware – I/O and DAServers
- GE-Fanuc (Intellution) – FIX32
- GE-Fanuc (Intellution) – iFix
- GE-Fanuc (Intellution) – iHistorian
- Rockwell Software - RSVIEW32
- Rockwell Software - RSVIEW Enterprise (Supervisory Edition)

### Supported Architectures:

- Wonderware – Fat and Thin Client systems
- Wonderware – Fat clients with I/O servers (primary and backup) and NAD
- Wonderware – InSQL with Remote IDAS
- Rockwell Software – RSVIEW Server
- OPC Data Servers/Clients

### Communication Networks

- RS232/422 Serial ASCII communication
- Allen Bradley DF1 Serial
- Allen Bradley DH485 Multi-drop
- Allen Bradley DH+
- ControlNet
- DeviceNet
- Asi Bus
- Profibus
- Ethernet

[Contact us today for more information on how Kraken Automation Inc. can assist you with your HMI Architecture requirements.](#)

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