Bailey DCS Operator Console

OVERVIEW

An ideal replacement for old Net 90 or Infi 90 Consoles:

- OIU
- MCS
- PCV (Process Control View)
- LAN 90
- OIS 10, 11, 12
- OIS 20, 21, 22, 25
- OIS 40, 41, 42, 43, 45
- Conductor NT

APPLICATIONS

Supports all essential Bailey console functions
- Connect to all common serial & SCSI CIU
- Bailey DCS plus 7 more devices to one server
- History from weeks to years for all your tags
- Single or dual screen
- Unlimited graphics and trend pages
- Mimic your existing consoles or new design
- Low cost automation assisted conversion
- Full featured alarm and alarm history system

FEATURES

- Low cost replacement for your aging consoles
- Link all your equipment into a single console
- Rely on the long lived GE Fanuc HMI products
- Strength of 300,000+ GE Fanuc HMI licenses sold
- ANY network structure you need
- Fully OPEN console solution
- Easy to Learn & Easy to Use

BENEFITS

- Flexible network structure
- Graphics, trends, alarms, history +

PREVISE INC.

Phone (416) 414-9193  E-mail: support@previse.com  www.previse.com
The Net 90 & INFI 90 distributed control system (DCS) were products of Elsag Bailey, now ABB.

The Net 90, introduced in the 1980’s, and the INFI 90 DCS, introduced in the 1990’s, are widely used in most process oriented industries around the world. The Bailey DCS is respected for the high level of automation reliability that it brings.

Though most of the DCS will last longer, the consoles frequently need to be replaced after about 10 years of operation, well before other components, as the electro-mechanical parts in the obsolete consoles wear out.

Previse developed OPsCon, using the GE Fanuc iFIX HMI, to address this need. OPsCon builds on iFIX to provide a complete console replacement for Net 90 & INFI 90 DCS.

To install you require:
- A PC platform & network
- Microsoft Operating System
- GE Proficy iFIX HMI
- Off the shelf Historian
- OPsCon

Hundreds of OPsCon consoles have been installed worldwide, in all key process industries.

OPsCon, with its iFIX host, can be configured to meet any console requirement, including:
- Desktop, pedestal or rack
- To 30,000 tags capacity
- Single or multi-screen
- Any network structure
- Keyboard or mouse based
- Local or remote consoles
- Various PLC and other equipment to same console

IDEAL REPLACEMENT CONSOLE

The Net 90 & INFI 90 DCS have been widely used in most process oriented industries. The Bailey DCS is known for its high level of automation reliability.

THE GE FANUC iFIX PLATFORM

OPsCon integrates seamlessly with the GE Fanuc iFIX platform. With over 300,000 HMI (human machine interface) installed, GE Fanuc platform brings a market leading and robust HMI, backed by a world leading organization. The large installed base is both evidence & assurance of a quality long lived product.

iFIX provides:
- Market leading network HMI
- Intuitive graphics editing
- Supports multiple devices into the same console
- Built in or external historian
- Robust 7X24 reliability

iFIX installs on almost any PC & works with the leading Microsoft operating systems. Almost any network structure you need is supported. Install on desktop, laptop or industrially packaged PC equipment to suit your needs.

Previse or your local supplier will provide extensive support for end users or integrators to perform a conversion from an ABB console to OPsCon. This support takes the risk and much of the cost out of the conversion process:
- Presales Consultation to ensure that the planned configuration is appropriate for the end users needs
- Tag Database Conversion Tools based process ensures that all relevant information is mapped from your existing consoles
- Graphics Conversion Tools to auto-convert graphics & trends. A few days of manual work is all it takes to get the screens ready to go
- New Graphics are a snap with both iFIX tools support supplemented by additional OPsCon tools
- On site Training available for your staff
- Annual Support is available to provide both issue resolution and software updates

CONVERSION SUPPORT

OPsCon, with the PConsole standard screen system, supports the key functions that you require in an operators console, including:
- Unlimited P&ID graphics
- Trends
- Alarm Summary
- Filtered Alarm Summary
- Alarm History
- DCS Function Block tuning
- Module Status
- Time Synchronization
- Security System

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Client failover technology built into iFIX and configured to meet your needs ensures no single point of failure in your console.

iFIX is the best choice available for your control room consoles.
PConsole SCREEN SYSTEM FOR iFIX

Each new installation is equipped with the PConsole screen system for iFIX which provides:

- **Superior Functionality**
  Enhanced function delivered to the operator through pre-developed components that are used on many products and enhanced continuously

- **Superior Ease of Use**
  Enhance ease of use with well designed and tested GUI components

- **Reduced Install Cost**
  Through pre-developed screens & tools

- **Reduced Maintenance Cost**
  Through tools & pre-developed functions.

PConsole provides:

- Operator configurable hot bookmark buttons
- Five security levels: View, Operate, Tune, Configure and Administer
- Multi Screen support
- Run time configurable on screen Alarm Display Panel.
- Run time configurable trends
- Browser style forward & back through screens
- Alarm & Filtered Alarm
- Alarm history screens to review alarms for the last day, week, month or year.
- Print any screen
- Effective control pop-ups for mouse based control
- Keyboard control available
- Tune any block in the DCS
- Trend pop-up
- Details pop-up provides full tag details
- Pin or dismiss pop-ups at any time
- Float screen like a pop-up
- Combine several screens into a thumbnail overview

PConsole SCREEN SYSTEM FOR iFIX

OPsCon provides 1 to 1 mapping between DCS Function Blocks and console tags. With standard iFIX tools support we have added STATION, MSDD, and other Bailey tag types into the standard iFIX data set. This makes the console database understandable to your Bailey DCS staff.

**ONE BLOCK = ONE TAG = ONE POP-UP !**

OPsCon provides all the engineering tools you need to maintain your console database and graphics.

Edit tag database changes from anywhere in the network. Tags may be added on line without interrupting your operators. Configure the system to make tag database changes in a one write process to minimize the time to make database updates.

The CLU function provided with OPsCon supports on line module configuration change when you have redundant controllers. CLU also supports module code control, CFG upload/download, add/modify/delete, blocks, module status, tuning and more.

GE Fanuc tools provide an intuitive means to create and edit graphics from simple to complex. With all Bailey information seamlessly integrated into iFIX, it's easy to create graphics to control your process, or trends to review your history.

Learn why hundreds of thousands of users find iFIX to be the HMI of choice.

### ENGINEERING TOOLS

iFIX and OPsCon provides all the engineering tools you need to maintain your console database and graphics.

<table>
<thead>
<tr>
<th>Tag Name</th>
<th>Type</th>
<th>Description</th>
<th>I/O Addr</th>
<th>Alarm</th>
<th>Current</th>
<th>Alarm</th>
<th>CV</th>
<th>Q</th>
<th>AS</th>
<th>Text to deselect</th>
<th>Text to deselect</th>
<th>Text to</th>
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<th>Text to</th>
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<td>MANUAL</td>
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Some images courtesy of www.americon-usa.com
Bailey DCS Operator Console

**SPECIFICATIONS**

**CIU SUPPORT**
- Support multiple CIU connections to one server
- Via Serial RS-232: CI01, NCIU01, NCIU02, NCIU03, INICI01, INICI03/13/13A INICT03, IIMCP01, IIMCP02, INPCI01, INICI02
- Via High Speed SCSI: INICI03/03A/13A, INICT03/03A/13/13A, IIMCP02
- Via Serial RS-232 or TCP/IP: Prevue Bailey DCS Simulator (e.g. for FAT or Operator Training)

**TAG DATABASE SIZE**
- To 10,000 tags (serial) or to 30,000 tags (SCSI)

**TAG TYPES SUPPORTED**
- Tag Types supported for exception reporting: ANALOG (FC30 and others), DIGITAL (FC45 and others), RCM (FC62), RMSC (FC68), STATION (FC80, 21, 22, 23)
- DD (FC123), MSDD (FC129), RMCB (FC136), TEXT BLOCK (FC151), DAANG (FC177), UD Export (FC194), Analog In/Channel (FC222), Analog Out/Channel (FC223), Digital In/Channel (FC224), Digital Out/Channel (FC225)
- Plus: Poll any block address; Poll mode status

**SYSTEM REQUIREMENTS**
- Minimum recommended 3Ghz, 2GB of RAM

**MULTI SCREEN**
- Dual screen supported; Call for 3 or more screens

**OS SUPPORT**
- Microsoft Windows 2000, 2003, XP, Windows 7 (32 & 64 bit)

**GE Proficy iFIX SUPPORT**
- FIX32 v7.0 & iFIX v4.0, v4.5, v5.0, v5.5, v5.8 (v5.5 recommended)

**DATABASE MAINTENANCE**
- Client tool for making on line tag database changes
- Perform tag database maintenance from any network location

**OPC SPECIFICATION**
- Compliant to OPC Data Access v2.0 specification
- Compliant to OPC Alarms & A/Events 1.0

**TIME SYNCHRONIZATION**
- Supported as master, slave, both or neither

**MODULE STATUS**
- Supported, including redundant controller modules

**TUNING SUPPORT**
- Tuning of all tunable block specifications is supported

**ALARM SYSTEM**
- Supports alarm enable/disable, alarm inhibit, alarm area & priority
- Supports alarm history, ACK, filters, sorting, color coded display
- Supports user configurable ADP of 12, 20, 32 and 64 buttons
- Supports multi-tone audible & silence

**PROCESS DATA HISTORY**
- Supports iFIX built-in historian or GE Proficy iHistorian
- Support available for OSI PI, and other historians

**TREND SYSTEM**
- Run time configurable trends provided, from minutes to days
- Select Pop-up trend at any screen target
- Unlimited additional trends available

**CONFIGURE MODULES**
- Supports module CONFIGURE/EXECUTE mode control
- Supports redundant controller modules
- Supports add/modify/delete any block in DCS

**DOCUMENTATION**
- Full documentation set provided in electronic form

**ORDERING INFORMATION**

**OPS30-CD-RT-<tags>-C**
- OpsCon, Console Version. Includes 90-day warranty & manuals.

**OPS30-CD-RT-<tags>-D**
- OpsCon, Data Acq. Version with 90-day warranty & manuals.

**GE FANUC iFIX & iHistorian**
- Call for configuration and quotation

**KIT90-INICT03**
- SCSI adapter card and SCSI cable kit, to connect INICT03 SCSI to PCI bus within PC. Includes 90 day warranty and manuals.

**OPS30-ESS**
- OpsCon, Extended Service Agreement, 1 Year

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