



Previs Inc.

Products & Services for Bailey DCS systems

Overview

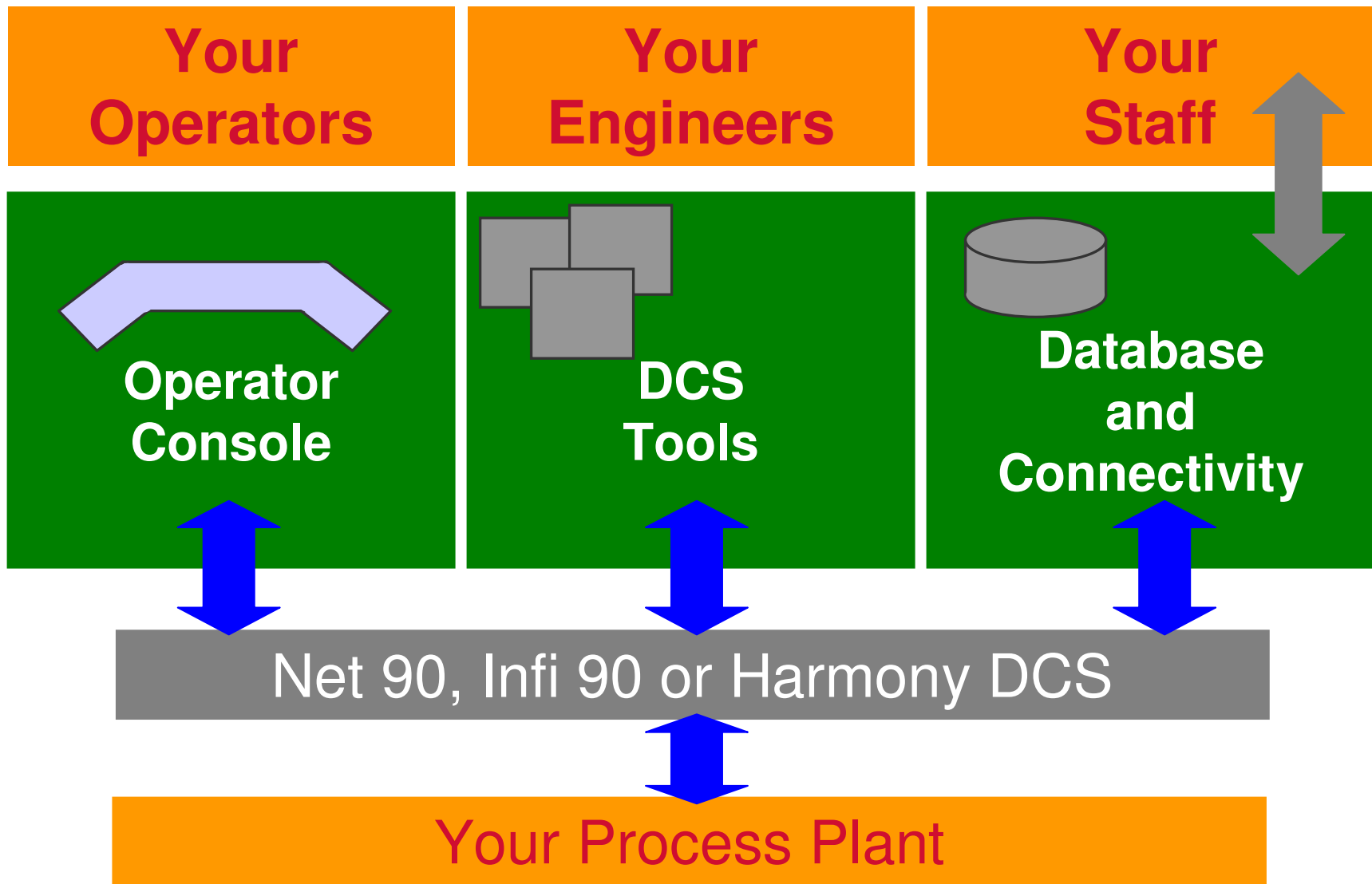
OPsCon Operators Console

For

ABB/Bailey® Net 90®, Infi 90® & Harmony® DCS

OPsCon™

For Each of Your Users



Net 90, Infi 90 & Harmony DCS Sites

- ❑ Need Updated Operator Consoles
- ❑ Need Modern DCS Tools
- ❑ Need Database Support
- ❑ Need Internet and Intranet Support
- ❑ Need OPEN Connectivity

- ❑ The Best Option MAY NOT be from ABB/Bailey!
 - Check the functionality & flexibility
 - Check the connectivity
 - Check the cost

What is OPsCon ?

- ❑ Builds on GE Proficy iFIX Product Line
 - iFIX HMI, Historian, Web Portal
- ❑ Provides
 - In-kind console replacement
 - Full operators console function
 - Provides Information System
 - From the DCS to your browser if needed
 - For Net 90, Infi 90 & Harmony DCS Systems
- ❑ Over 350 servers & 900+ consoles installed
 - All on Bailey DCS systems

Operators Console Replacement

□ Replace ABB/Bailey Console Model:

- OIU
- MCS & MCS Plus
- PCV (Process Control View)
- LAN 90
- OIS 10, 11, 12
- OIS 20, 21, 22, 25
- OIS 40, 41, 42, 43, 45
- Conductor NT & Conductor VMS
- Operate^{IT} Process Portal A or B

Full Function Operators Console

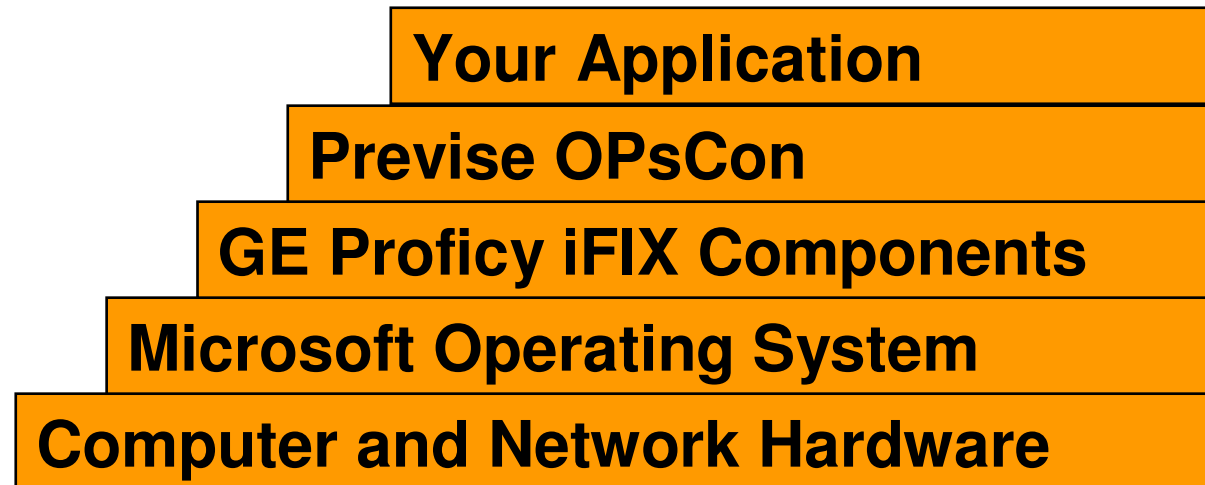
- ❑ Supports 300, 10,000 or 30,000 Bailey Tags
- ❑ Operator Displays
 - Unlimited pages of high resolution process graphics
 - Customizable alarm and trend displays
 - Object based graphics with VBA scripting
 - Flexible page/object linking
- ❑ Various Interface types
 - Mouse or Touch Screen or Trackball
 - Keyboard (inc. OPsCon Membrane Keyboard)
- ❑ Flexible Security & Redundancy Options
- ❑ Comprehensive DCS Utilities
- ❑ Component in larger IT system
 - Long term historian plus information to any browser

Hosting Platform

Standard, Widely Used and Robust

The Platform Components

- A firm foundation upon which to build
 - Your console
 - Your process information system



Computer and Network Hardware

❑ Standard Off-the-Shelf Platform Components

➤ Computer

- Standard “PC” equipment
 - Typically 2+ GHz, 2GB+ RAM, minimum
- Mouse, touch screen, track ball

➤ Network

- Standard network components
- 100baseT Ethernet minimum
- Console supports dual redundant network

➤ Detailed platform specification available

❑ Benefit

- Package components to rack, pedestal or table top mount
- Easy to source, easy to repair

Microsoft Operating System

- ❑ OPsCon operator console platform
 - Microsoft Windows XP Pro latest SP
 - Microsoft Windows 2003/2008
 - Microsoft Windows 7 Pro 32 bit & 64 bit
- ❑ For other GE Proficy components
 - Generally the same
 - May be dependant on your specific requirements
- ❑ Committed to keeping pace with new releases

The Relevant GE Proficy iFIX Product Line

- ❑ Human Machine Interface
 - GE Proficy iFIX HMI (Human Machine Interface)
 - Displays, trends, alarms [networking, security]
- ❑ Historian
 - Classic historian
 - Free within iFIX
 - Proficy Historian
- ❑ Internet/Intranet
 - Proficy Real Time Information Portal
 - DCS information and more to any browser

GE Proficy iFIX HMI Platform

- ❑ GE Proficy iFIX HMI software
 - 20+ year product history with over 300,000 licenses sold
 - OPsCon accounts for almost 900 of these HMI installs
 - ALL on Bailey Net 90, Infi 90 and Harmony DCS systems
 - From 1996 to present
 - Well supported, robust and stable product
 - Proficy HMI products at 75% of Fortune 100 companies
- ❑ Benefit
 - Longer product life than typical Bailey console
 - Oldest OPsCon installs still operating since 1990's
 - Wide support availability
 - 7 X 24 phone/web support availability
 - Easy to learn.. Easy to use !!
 - Commitment from one of the worlds largest firms

General Historian Selector Guide

Classic Historian	Proficiency Historian ¹
Standard Performance	High Performance
Nominally to ~2500 tags	500 to 500,000+ tags
Store every few seconds or longer	Store faster
Store for 120 days	Store for years
Data from iFIX	Data from iFIX, OPC sources, lab data and others
Slower retrieval	High speed retrieval
Support trends	Same plus better for large systems, regulatory data, long term storage, faster acquisition
N/A	Perform calculations and annotate data with notes
Free with iFIX	Additional cost
Less features	More features

¹ Ask for more information if you wish to consider Proficiency Historian

Previs OPsCon

- ❑ Connection to your ABB/Bailey DCS
- ❑ The broad console function your operators need
- ❑ Specialized functions required for DCS
 - E.g. Tuning, module status, time synchronization
- ❑ Customizes GE Proficy iFIX
 - Adds the Bailey “character” to iFIX

Platform

Firm Foundation to Build On
Meets Console Requirement
Basis for process IT system
Build on GE Commitment

Field Equipment Connection

Robust ABB/Bailey DCS Connection

Plus your other equipment too

Broad DCS Connectivity Support

- ❑ The same connections used by native ABB consoles
- ❑ All common CIU interfaces to DCS
 - Via Serial RS-232:
 - CIC01, NCIU01, NCIU02, NCIU03, NCIU04, INICI01, INICI03/13, INICT03/13¹, IIMCP01, IIMCP02, INPCI02, INICI12
 - Via High Speed SCSI:
 - INICI03/03A/13/13A¹, INICT03/03A/13/13A, IIMCP02
- ❑ Connect to Previs Bailey DCS Simulator
 - Via Serial RS-232 or TCP/IP
 - For console testing or operator training
- ❑ Capacity to 30,000 tags

Specific Support for the Tag Types You Need

- ❑ ANALOG (e.g. FC30 and others)
- ❑ DIGITAL (e.g. FC45 and others)
- ❑ RCM (e.g. FC62 and others)
- ❑ RMSC (e.g. FC68)
- ❑ STATION (e.g. FC80, 21, 22, 23)
- ❑ DD (e.g. FC123)
- ❑ MSDD (e.g. FC129)
- ❑ RMCB (e.g. FC136)
- ❑ TEXT BLOCK (FC151)
- ❑ DAANG (FC177)
- ❑ UDE (FC194)
- ❑ Harmony IO (FC222, Fc223, FC224, FC225)

Standard Bailey Communication Methods

❑ By Exception

- Fully supported
- As fast as native Bailey DCS communications
 - Round trip command/response time matches Bailey
 - Over 1,400 exceptions/second recorded with SCSI

❑ By Polling

- Any block address
- Module status

❑ Module activities

- Supports module status, mode control, load/unload and more
- Supports time synchronization
- Supports redundant controllers

One to One Mapping from Bailey to iFIX

□ One iFIX Tag for each Bailey Tag

- Name and address don't change
- Easy to understand database
- iFIX tag has all DCS data, direct from DCS

The screenshot shows the 'Intelligence Fix Dynamics Database Manager' window with a table of 8 rows of data. A 'Properties' dialog box is open over the table, showing a list of available columns and a list of display columns.

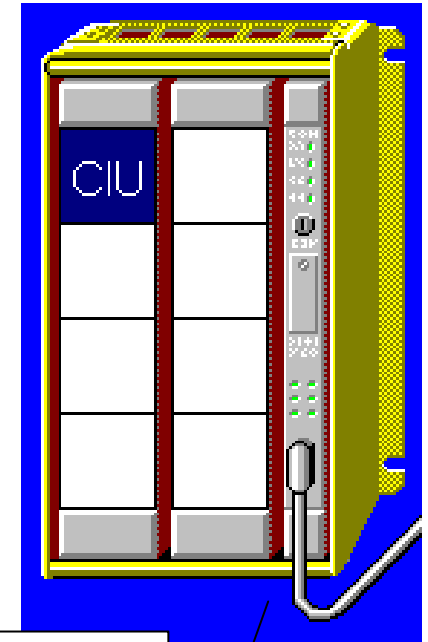
	Tag Name	Type	Description	Scan Time	I/O Dev	I/O Addr	Curr Value	Scan Stat
1	B_RMSC	RMS	Bailey Remote Manual Set Constant	E	CIU	MFC04:4006:0	10.00	ON
2	B_RMC	RMC	Bailey Remote Motor Control	E	CIU	MFC04:177:0	STOP	ON
3	B_RCM	RCM	Bailey Remote Control Memory	E	CIU	MFC04:120:0	ZERO	ON
4	B_ST	BST	Bailey Station	E	CIU	MFC04:127:0	66.53	ON
5	B_MSDD	BMD	Bailey MultiState Device Driver	E	CIU	MFC04:4011:0	STARTUP	ON
6	B_DI	BDI	Bailey Digital Input	E	CIU	MFC04:4002:0	OPEN	ON
7	B_DD	BDD	Bailey Device Driver	E	CIU	MFC04:153:0	OFF	ON
8	B_AI	BAI	Bailey Analog Input	E	CIU	MFC04:4000:0	47.00	ON

The 'Properties' dialog box shows the following columns:

- Available Columns: Tag Name, Type, Description, Scan Time, I/O Dev, I/O Addr, Curr Value, H/W Options, Scan Stat, Curr Mode
- Display Columns: Bailey Tag Name, I/O Address, Bailey Tag Alarm State, Bailey Feedback Status, Bailey Permissive Status, Bailey Red Tag Indicator, Bailey High Alarm Limit, Bailey Low Alarm Limit, Bailey Inhibit Tag, Bailey Inhibit State

One Operator Console for All Your Equipment

- iFIX Supports Up to 8 Drivers
 - One “Equipment Slot” used by OPsCon
 - Use the other 7 for other equipment
- Benefit
 - One console serves multiple equipment
 - Same trends, alarms, and graphics
 - One historical storage
 - E.g.
 - Bailey + Siemens PLC + Rockwell PLC
 - One slot can support many networked PLC



Standard
iFIX
configuration

Summary Field Equipment Connection

- ❑ Bailey DCS Communications
 - All common serial and SCSI CIU types
 - All the function code types you need
 - Full communications protocol
 - Performs like native Bailey
 - iFIX database updated continuously with DCS data
 - Very reliable
- ❑ PLUS supports 100's of other field equipment
- ❑ One console to serve your control room needs

Bailey DCS Specific Console

Specifically designed to meet
Net 90, Infi 90, and Harmony
Requirements

Featured here with our optional standard screen system for iFIX

Supports Key Bailey Console Features

- Graphics
- Control Pop-Ups
- Operating Parameters
- Alarms
- Alarm History
- Alarm Display Panel
- Trends
- Change Tunable Specifications
- Station Tuning
- Review Module Status
- Security System
- Reports and Logs

Graphics

➤ Process Graphics

- VBA scripting
- Easy to create
- Flexible
- Functional

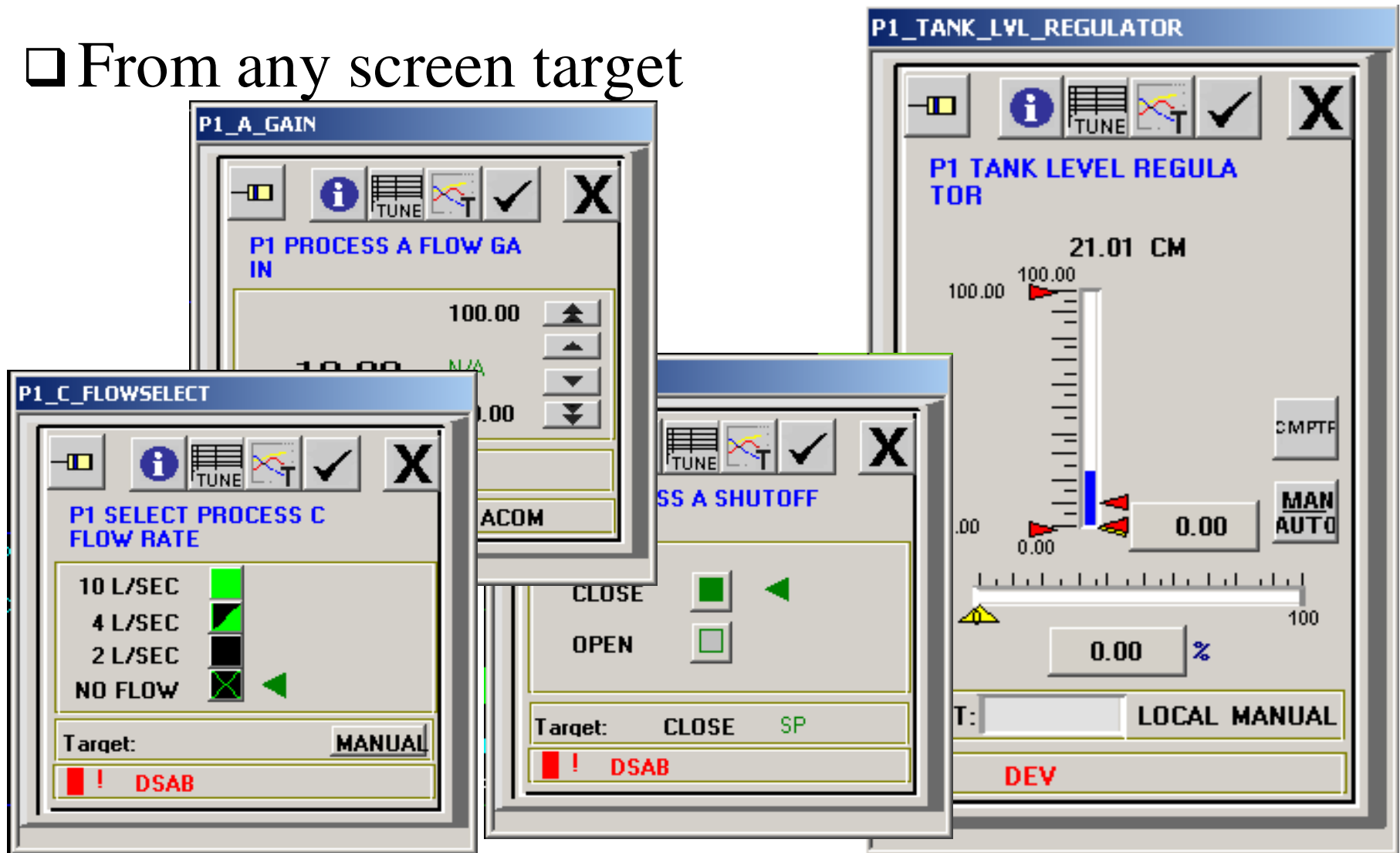
The screenshot displays a complex industrial control interface. At the top, a toolbar contains icons for home, menu, alarm, trend, and other functions, along with a numeric keypad (1-6) and navigation arrows. The main display area is divided into several panels:

- P1_TANK_LVL_REGULATOR:** A large panel showing a tank level gauge with a current reading of 51.06 CM and a target of 50.00. It includes manual/auto control buttons and a 'DEV' indicator.
- P1_A_GAIN:** A smaller panel for 'P1 PROCESS A FLOW GA IN' with a target of 100.00 and a current reading of 5.00.
- P1 PROCESS C SHUTOFF VALVE:** A panel with 'CLOSE' and 'OPEN' buttons, currently set to 'CLOSE'.
- Process A, B, and C:** Three shutoff valve panels labeled 'A SHUTOFF', 'B SHUTOFF', and 'C SHUTOFF', each with an 'OPEN' button.
- Generator and Motor Data:** A panel on the left showing 'GENERATOR' (WATTS, GEN V, FREQ, VARS, PF) and 'STARTING MOTOR' data.
- Temperature and Pressure Data:** A panel at the bottom showing 'METAL/DRAIN TEMP' and 'INLET' data.
- Status Table:** A table at the bottom right with four columns and four rows of status indicators.

	NO	NO	NO	NO
NO MASTER FUEL TRIP	NO	NO	NO	NO
MILL TRIP CLEARED	NO	NO	NO	NO
ALL HOLD CARDS CLEARED	NO	NO	NO	NO
BUSS NOT UNDERVOLTAGE	NO	NO	NO	NO
	3A	3A	3B	3B

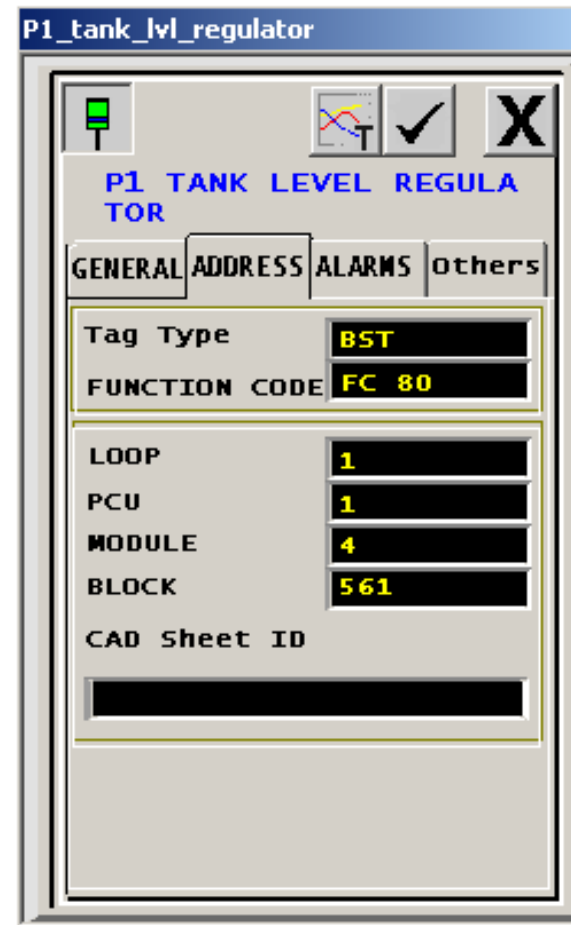
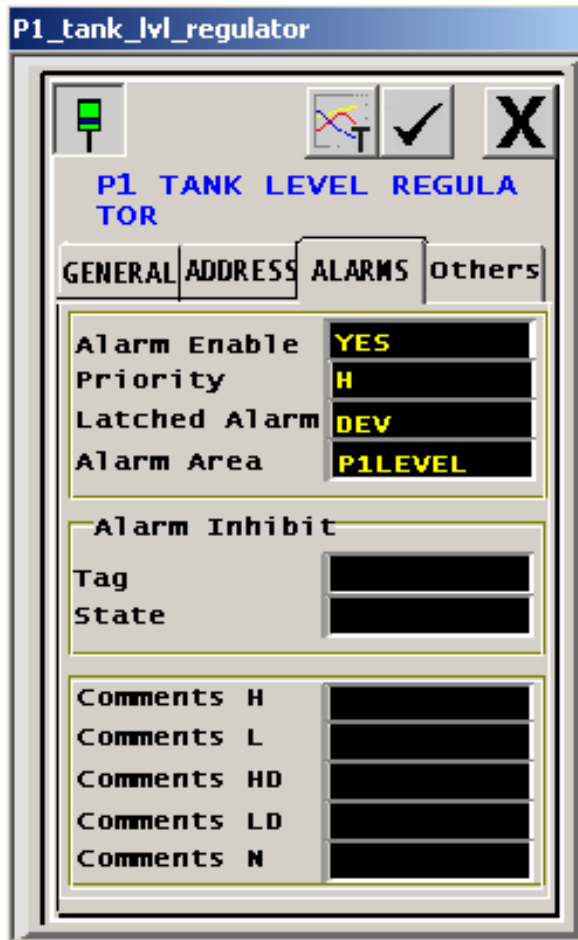
Control Pop-ups

- From any screen target



Operating Parameters

□ From any screen target



Full Alarm Management System

- ❑ All alarms determined in DCS
- ❑ Implements:
 - Priority and Alarm Area/Group
 - ACK and page ACK
 - Alarm comments
 - Inhibit & suspend

The screenshot displays the 'ALARMS WITH FILTER' window in the operator console. It features a table of active alarms and a filter dropdown menu.

Ack	Date In	Time In	Priority	P#
✓	11/19/2005	12:00:20.867	LOW	P2
✓	11/19/2005	12:01:01.065	LOW	P2
✓	11/19/2005	12:00:20.867	LOW	P3
✓	11/19/2005	12:00:58.461	LOW	P2

Alarms Total: 4 Alarms Unacknowledged: 1

Alarms Unacknowledged: 1

Alarm History

- ❑ Query & report historic alarms

LAST ALARMS BY TAG **TRAINER** **P1_REGULATOR_FL** Last 12 hr

ALL FILTER RECENT/AREA RECENT/TAG PERIOD FREQUENCY

100% 1 of 1

Recent Alarms Report

11/18/20 9:44:04AM

Node: TRAINER Tag: P1_REGULATOR_FLOW P1 REGULATOR FLOW
 Period: Nov 17 2005 09:44:04 PM - Nov 18 2005 09:44:04 AM

Type	Priority	Value	Unit
HI	M	42.000	L/SE
OK	M	38.324	L/SE
HI	M	42.000	L/SE

FOR PERIOD **P1INFLOW** 2005/11/16 09:42 to 2005/11/18 09:42

ALL FILTER RECENT/AREA RECENT/TAG PERIOD FREQUENCY

100% 1 of 1

Alarms by Period Report

11/18/20 9:43:55

Alarm Area: P1INFLOW Period: Nov 16 2005 09:42:00 AM - Nov 18 2005 09:42:00 AM

Date/Time	Node	Tag	Description	Type	Priority	Value	Unit
11/17/2005 8:19:44PM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	HI	M	42.000	L/SE
11/17/2005 8:19:46PM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	OK	M	38.052	L/SE
11/17/2005 8:22:05PM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	HI	M	ado.AlmPriority (String)	L/SE
11/17/2005 8:22:06PM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	OK	M	37.796	L/SE
11/17/2005 8:24:43PM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	HI	M	42.000	L/SE
11/17/2005 8:24:45PM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	OK	M	38.611	L/SE
11/18/2005 9:28:21AM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	HI	M	42.000	L/SE
11/18/2005 9:28:24AM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	OK	M	38.324	L/SE
11/18/2005 9:29:49AM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	HI	M	42.000	L/SE
11/18/2005 9:29:51AM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	OK	M	37.995	L/SE
11/18/2005 9:31:49AM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	HI	M	42.000	L/SE
11/18/2005 9:31:53AM	TRAINER	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	OK	M	37.929	L/SE

ALARM FREQUENCY **TRAINER** All Last 8 hrs >2

ALL FILTER RECENT/AREA RECENT/TAG PERIOD FREQUENCY

100% 1 of 1

Frequency Report

11/18/20 9:42:28AM

Node: TRAINER Alarm Area: All
 Period: Nov 18 2005 01:42:27 AM - Nov 18 2005 09:42:27 AM

# of instanc	TagName	Description	Unit
30	P1_A_FLOW_RATE	P1 PROCESS A FLOW RATE	L/SE
30	P2_A_FLOW_RATE	P2 PROCESS A FLOW RATE	L/SE
30	P3_A_FLOW_RATE	P3 PROCESS A FLOW RATE	L/SE
30	P4_A_FLOW_RATE	P4 PROCESS A FLOW RATE	L/SE
10	P1_TANK_LVL_REGULA	P1 TANK LEVEL REGULATOR	CM
6	P1_REGULATOR_FLOW	P1 REGULATOR FLOW	L/SE
6	P1_TANK_LEVEL	P1 TANK LEVEL	CM

Alarm Display Panel

- ❑ On screen ADP
 - With 12, 20, 32 or 64 buttons
- ❑ On line ADP Administration

ADP Configuration

Node Name:

Select ADP:

1	IN	LVL	--	--	--	--	--	--	IN	LVL	--	--	--	--	16
17	IN	LVL	--	--	--	--	--	--	IN	LVL	--	--	--	--	32
33	OUT	AT	--	--	--	--	--	--	OUT	AT	--	--	--	--	48
49	OUT	AT	--	--	--	--	--	--	OUT	AT	--	--	--	--	64

Alarm Area Name:

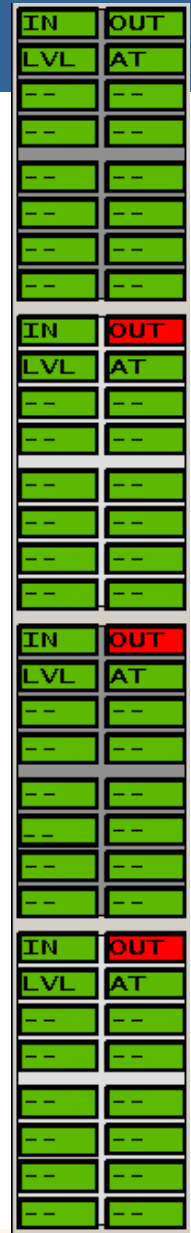
Description:

Display Title:

Description:

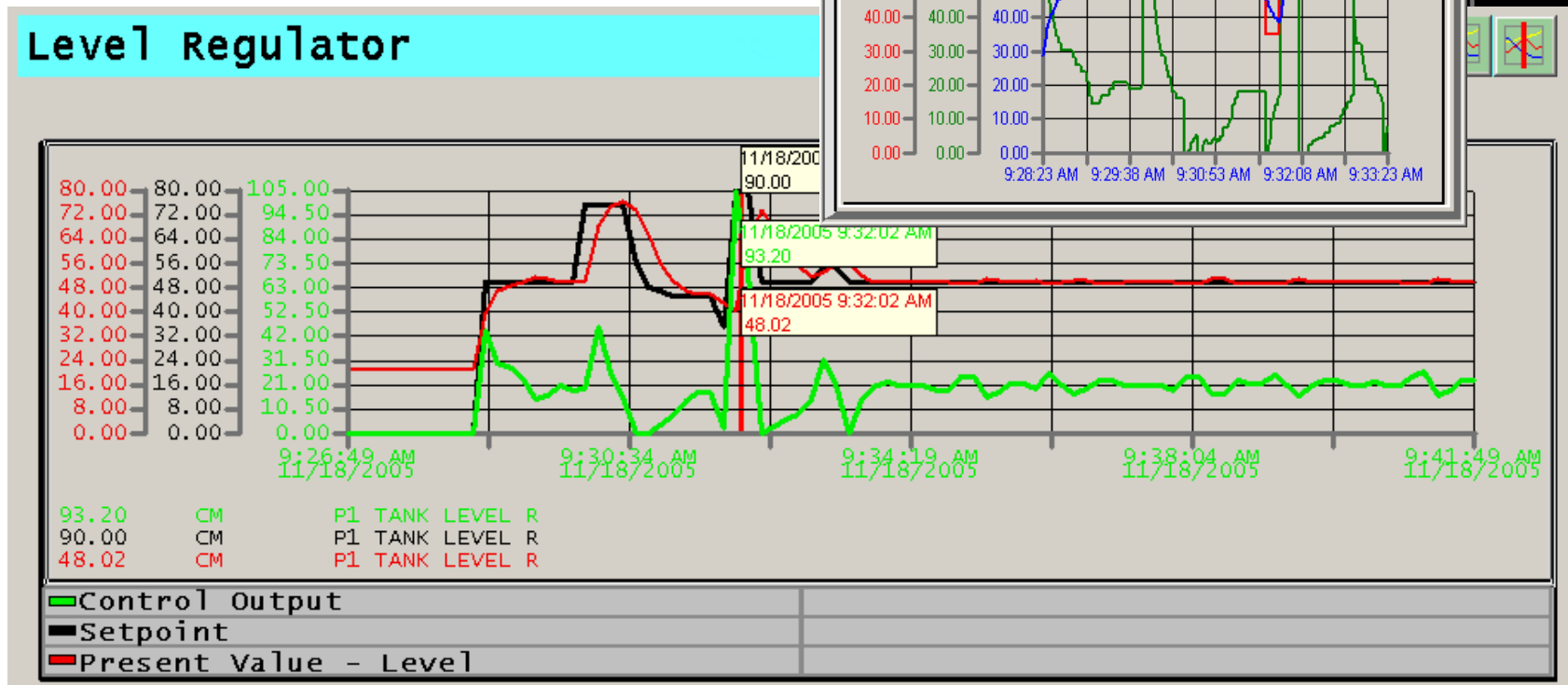
Primary Display:

Description:



Trends

- Real time & historical
- Pan, zoom, sense values
- Define on line possible



Change Tunable Specifications

□ Tune & monitor any block

CLU - Configuration & Loading Utility

Connection View Server Help

Add Block | Modify Block | Delete Block | **Tune Block**

LOOP PCU MODULE BLOCK NAME MODE TYPE FC Function Code 80 - Control Station

SPECIFICATIONS

Spec	Tune	Value	Type	Description
S4		5	I2	Block address of control output track signal (
S5		700	I2	Block address of control output track switch
S6		5	I1	Initial mode of station after start-up
S7	T	100	R3	PV high alarm point in engineering units
S8	T	0	R3	PV low alarm point in engineering units
S9	T	10	R3	PV-SP deviation alarm point in engineering u
S10		100	R3	Signal span of PV in engineering units
S11		0	R3	Zero value of PV in engineering units
S12		0	I1	PV engineering units identifier (for console or
S13		-5	R3	Signal span of SP in engineering units

OUTPUTS

Blk	Value	Description
N	21.1089	Control output (CO) i
N+1	55	Set point in engineer
N+2	1	Mode
N+3	0	Level
N+4	0	Station mode
N+5	1	Computer status flag

Select Address | Read Block | Refresh Specs | Set Spec | Apply Specs

P1 TANK LEVEL REGULATOR

Tag Address: 1:1:4:560
Function Code #19

Spec	T	Value	Spec Description	Default
S2		562	Block address of set point	5
S3		561	Block address of track reference	5
S4		563	Block address of track switch	1
S5	T	2.5	(K) gain multiplier	1
S6	T	2	(KP) proportional constant	1
S7	T	7	(KI) integral constant (1/min)	0
S8	T	0.1200008	(KD) derivative constant (min)	0
S9	T	105	High output limit	105
S10	T	0	Low output limit	-5
S11	T	0	Set point change	False

Refresh | Apply

Station Tuning

□ Tune station & PID together

The screenshot displays the Previs OPsCon Operator Console interface for station tuning. The main window shows a table of parameters for the PI Tank Level Regulator:

Spec	T	Value	Spec Description	Default
S1	T	520	Block address of process variable	5
S2	T	562	Block address of set point	5
S3	T	561	Block address of track reference	5
S4	T	563	Block address of track switch	1
S5	T	2.5	(K) gain multiplier	1
S6	T	2	(K _P) proportional constant	1
S7	T	7	(K _I) integral constant (1/min)	0
S8	T	0.1200001	(K _D) derivative constant (min)	0
S9	T	105	High output limit	105
S10	T	0	Low output limit	-5

The 'CLU - Configuration & Loading Utility' window is open, showing a graph of the process variable (blue triangles), set point (red squares), and control output (green diamonds) over time. The graph shows a step change in the set point from 50 to 55, with the process variable following the set point and the control output adjusting accordingly.

The control panel on the right shows the current set point at 55.00 and a slider for manual adjustment. The mode is currently set to LOCAL. The SET POINT is displayed as 55.

Review Module Status

ProblemReport ActiveX Control Manual Mode

Server Name: _____

Item Name: Ciu04.Loop1

System Status Overview | Node Status Summary | Module Status Summary

System status
00
01 PCU1
02 PCU2
03 PCU3
04 PCU4
05
06
07
08
09
10
11
12
13
14
15
16
17

Connect Disconnect Refresh

Item Name: Ciu1.Loop1.Pcu1.Module1

System Status Overview | Node Status Summary | Module Status Summary

LOOP 1 PCU 1 MODULE 1 TYPE IMAMM03, NAMM02/02A

REVISION N/A DATA COLLECTED AT 15:10

STATUS 09 FF 08 02 02

Problem Reports

First time in execute
Backup status is bad
Summary local input status is bad(I/O module not responding or bad quality input
Failure of summary NVRAM status
Summary NVRAM initialized state
Summary calibration status is bad
input type disagrees with engineering unit type (Block number referring to the error code)

Extended Problem Reports

Bad quality local I/O
Local block number - 12

Bad quality module bus I/O
Local block number - 13 Remote module number - 14 Remote block number - 15

Ready NUM

Item Name: Ciu04.Loop1

System Status Overview | Node Status Summary | Module Status Summary

Node	Offline	Module	Error	Communications
00				
01				
02				
03				
04		P4_MFC		NA
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				

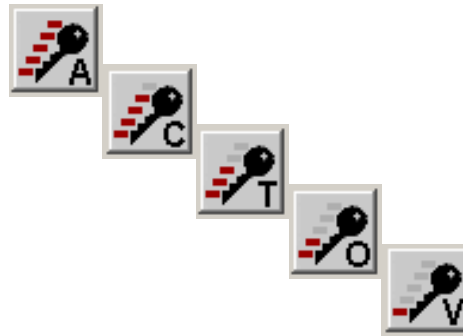
Connect Disconnect Refresh Auto Mode

Security System

□ Standard Security System

➤ Five levels

- Administer
- Configure
- Tune
- Operate
- View



LOGIN

Name:

Password:

Login Change Password Exit

- Create Username & Password for any user
 - Assign User to specific security level
- Auto-Login any level

□ Optional to define additional levels

□ Optional security by plant area

□ Enable/disable features at any level

Reports and Logs

- Shift and period reports
 - Easily added via
 - EXCEL
 - Access
 - Crystal Reports

Full Featured Operators Console

- Graphics
- Control Pop-Ups
- Operating Parameters
- Alarms
- Alarm History
- Alarm Display Panel
- Trends
- Change Tunable Specifications
- Station Tuning
- Review Module Status
- Security System
- Reports and Logs

Maintainability

Simple Maintenance Tools

Get the Job Done

Without Headaches

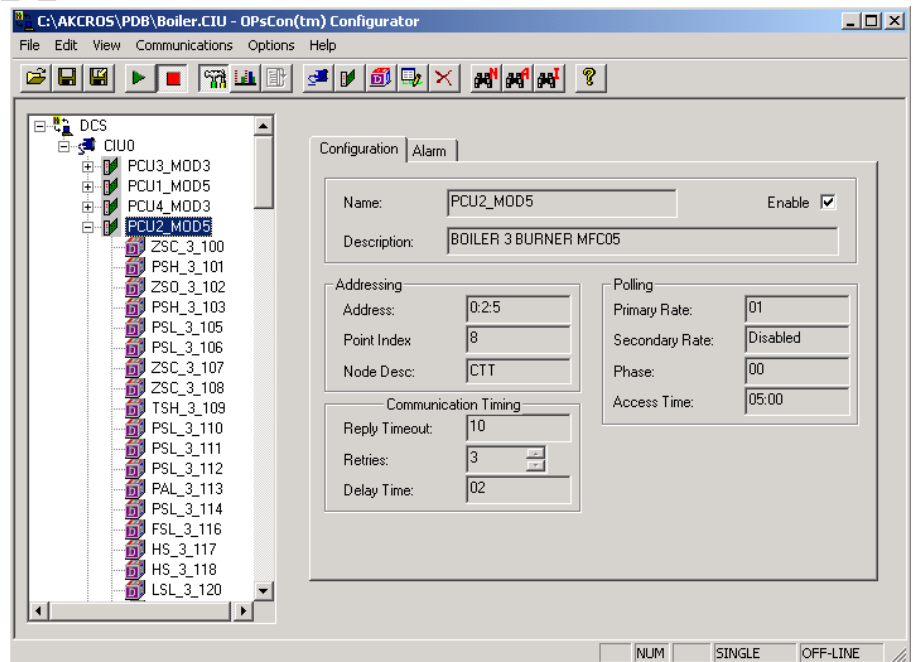
Tag Database Maintenance

□ Functional

- Add tags on-line from any workstation
- Add tags once only
- Standard Configurator application

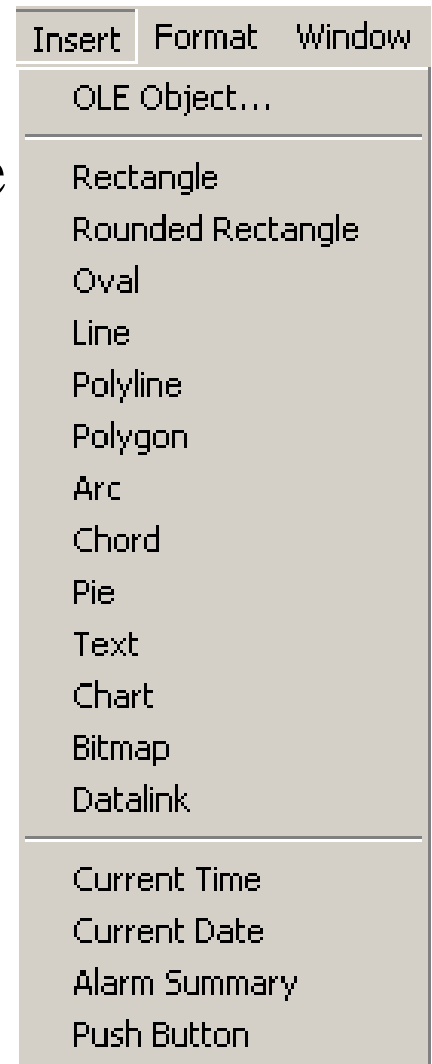
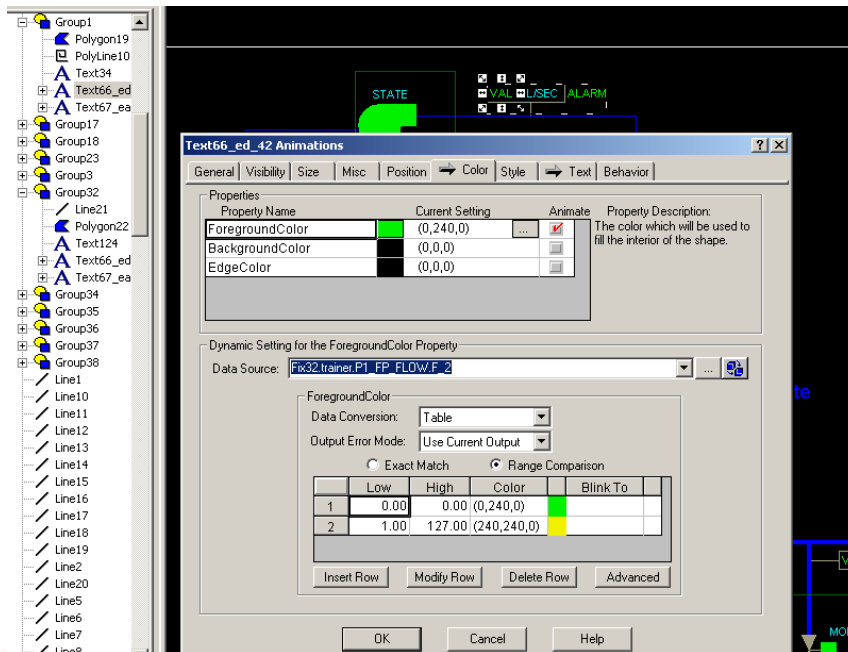
□ Benefit

- Simple
- Intuitive
- Easy to use



Graphics Maintenance

- Flexible graphics
 - VBA scripted, easily animated, intuitive
- Benefit
 - Easier to use than native ABB tools



Intuitive Tools

The power of a mass market product
Customized specific to Bailey

Other Features and Benefits

Making this the best console solution

Conversion Support Available

❑ Automated Tools Based Conversion

➤ Tag Database Conversion

- Retain existing tag database

➤ Alarm System Conversion

- Alarm priority, groups, ADP, alarm comments and more

➤ Graphics Conversion

- Reuse your existing graphics if you wish

❑ Benefit

➤ Reduced conversion and commissioning costs

- Previous installations in one week on site with no outage

➤ Reduced operator training requirement

Factory or Site Acceptance Test Available

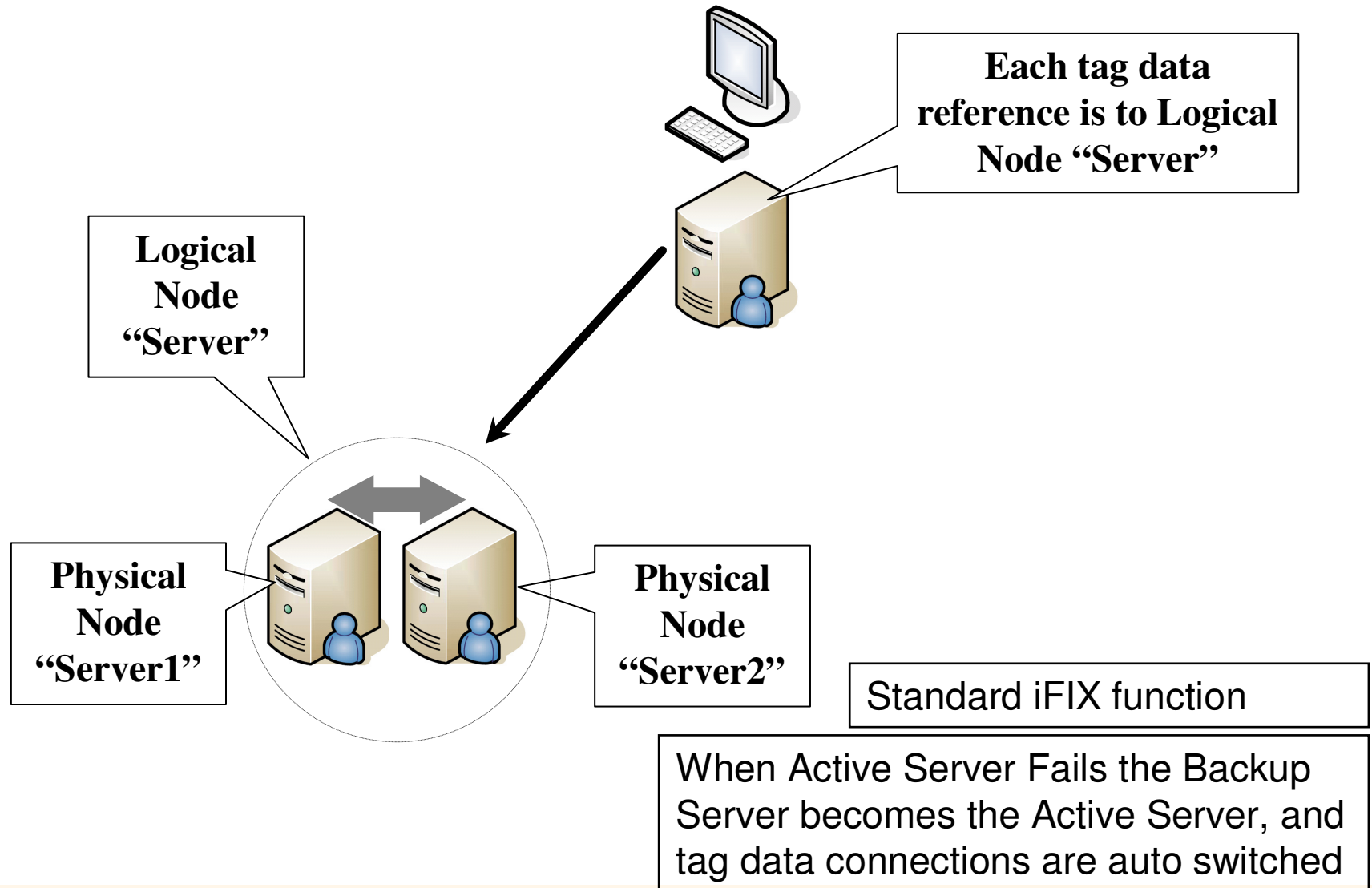
□ Review Prior to Install

- Use our Bailey DCS Simulator
- Set up FAT or SAT tests in a day
- Use your controller files with simulated data
- Test fully integrated consoles before installation

□ Benefit

- Reduced issues at actual installation
- Risk mitigation

Fault Tolerance Via Client Failover



Embrace Open Standards

❑ Supports industry standards

- Standard Intel PC
- OPC, TCP/IP, ODBC and SQL
- Client Server and Internet/Intranet Capability
- Microsoft standards including:
 - COM/DCOM/ADO/OLEDB/ActiveX
 - Visual Basic for Applications
 - Support for recent Microsoft OS
 - Terminal Server options available



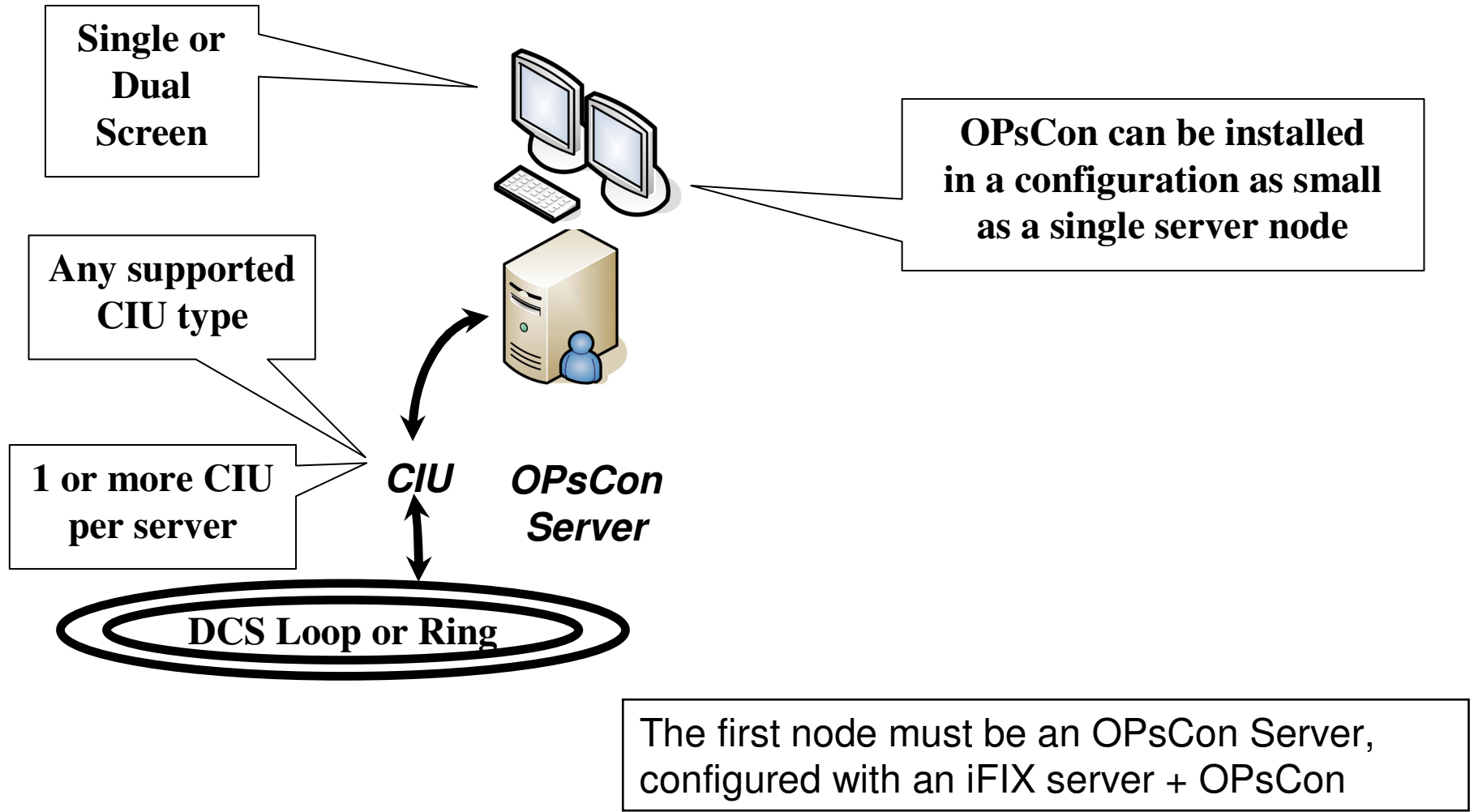
❑ Benefit

- Long product life assured via standards adherence
- Unbeaten data connectivity via fully open standards

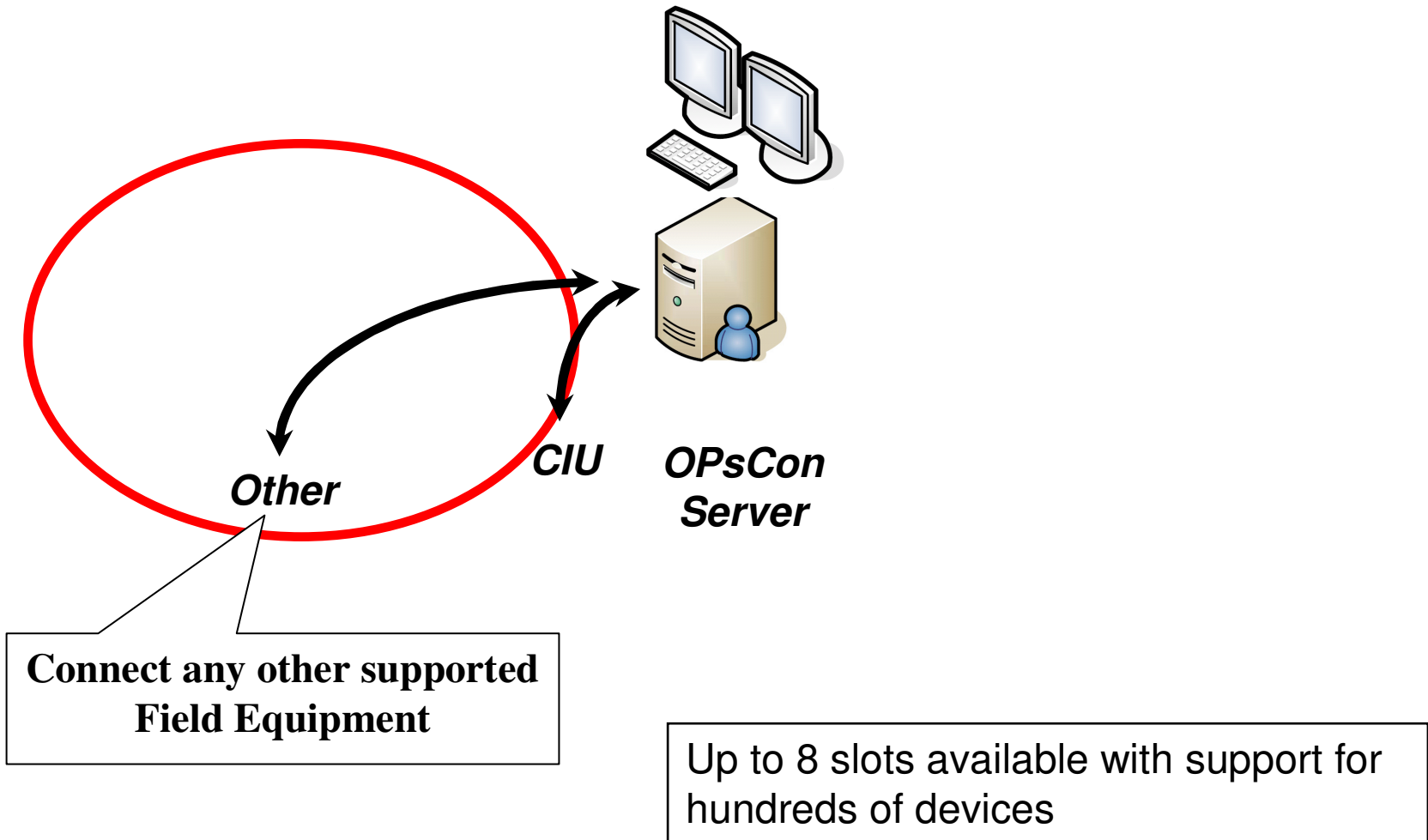
Network Structures

Flexible System Structure
To Meet your Needs

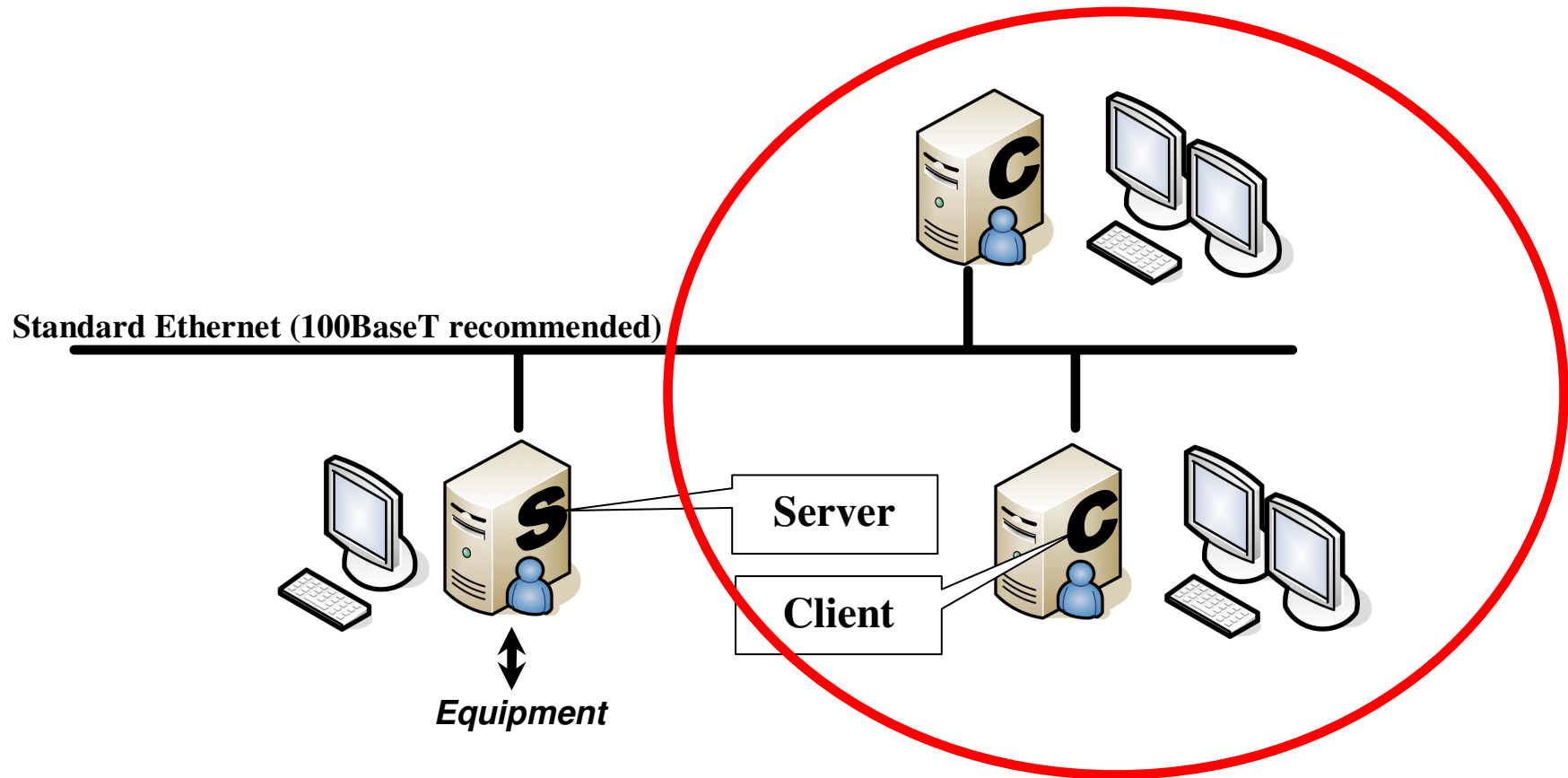
Single Standalone Console



Connect Additional Field Hardware

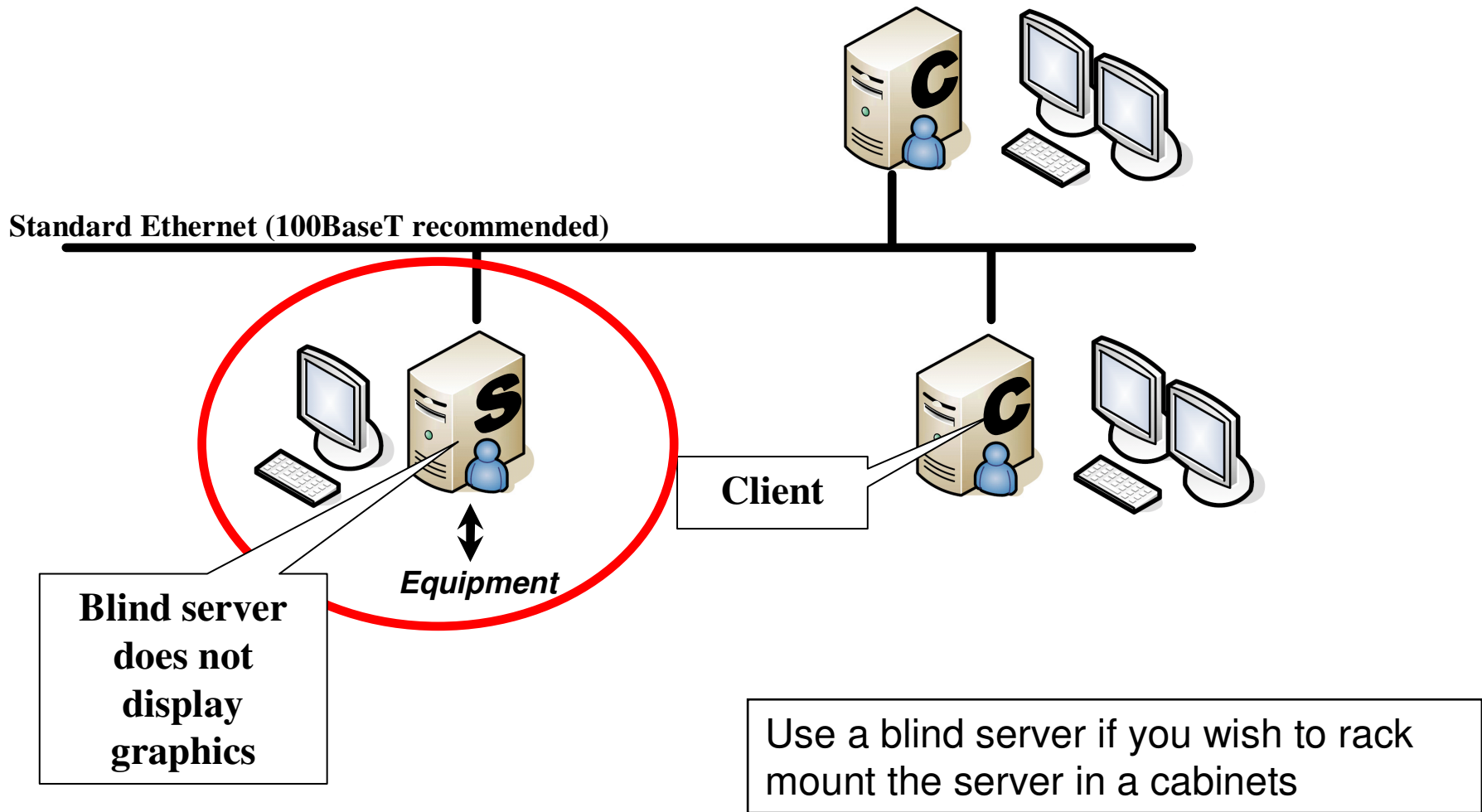


Add Clients to Single Server



Each server can supply process data to much more than 20 clients.

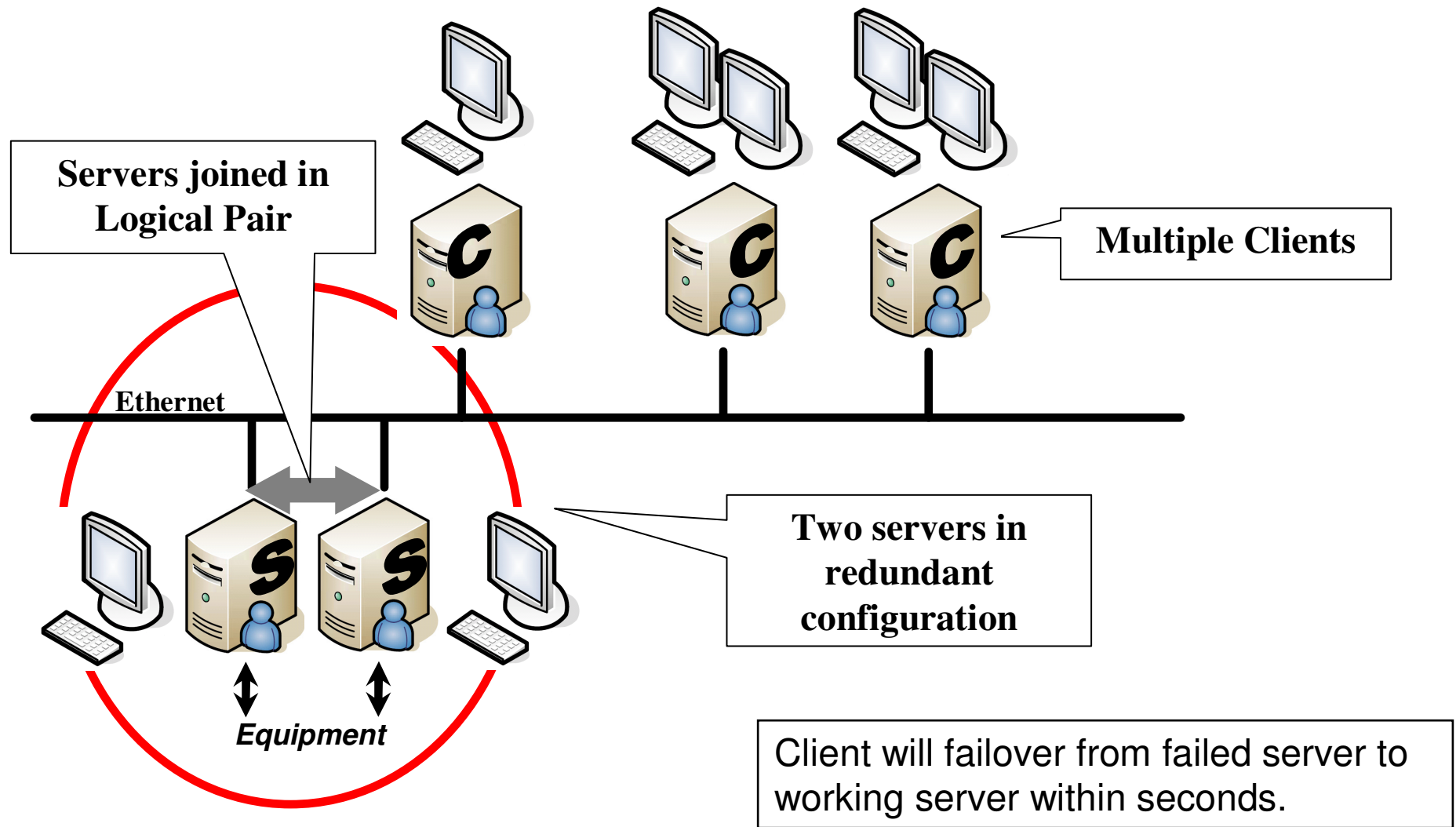
Blind or Non-Blind Server



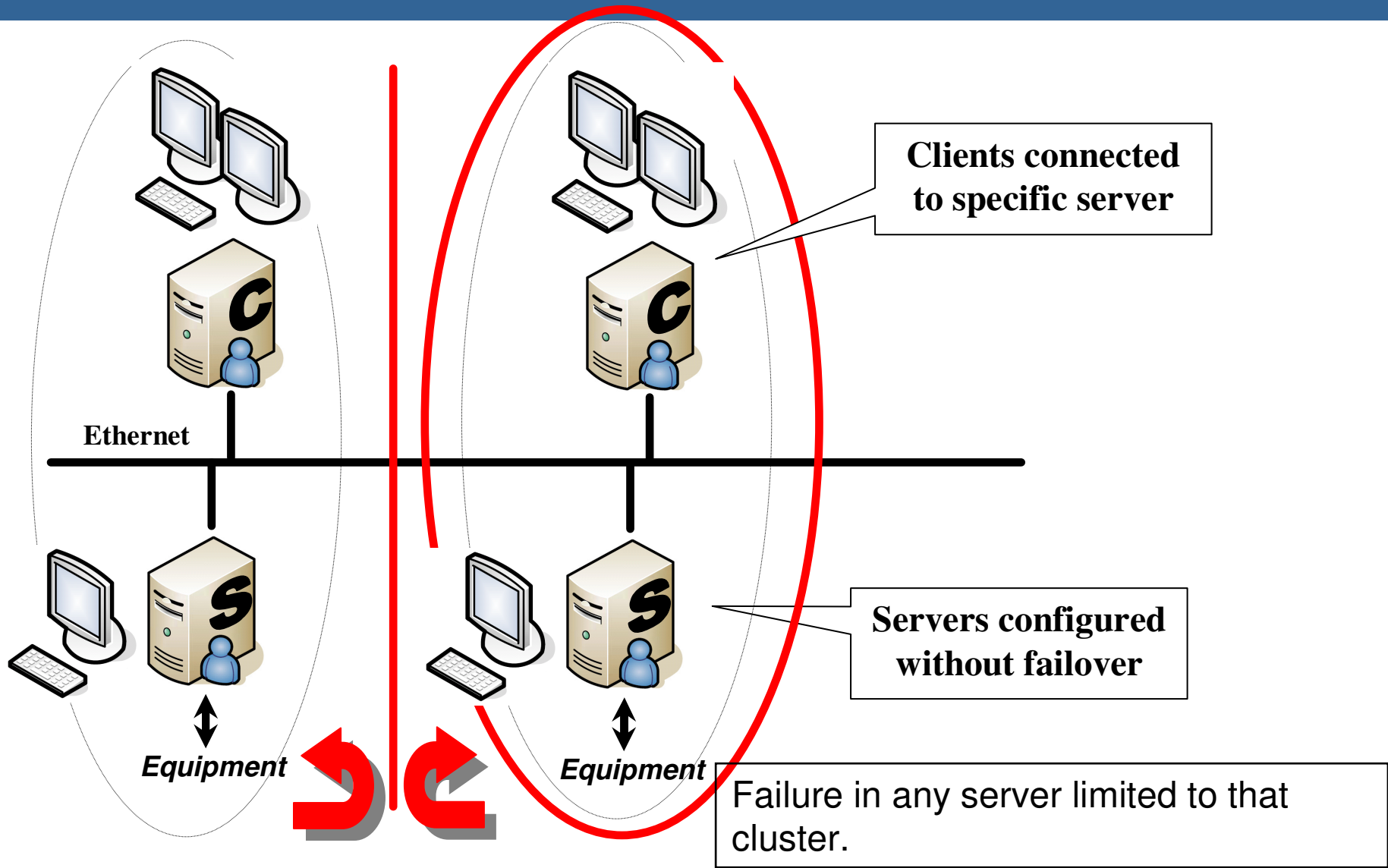
Eliminate Single Point of Failure

- Redundant Servers
 - WITH Client Failover
 - WITHOUT Client Failover

Redundant Servers with Client Failover



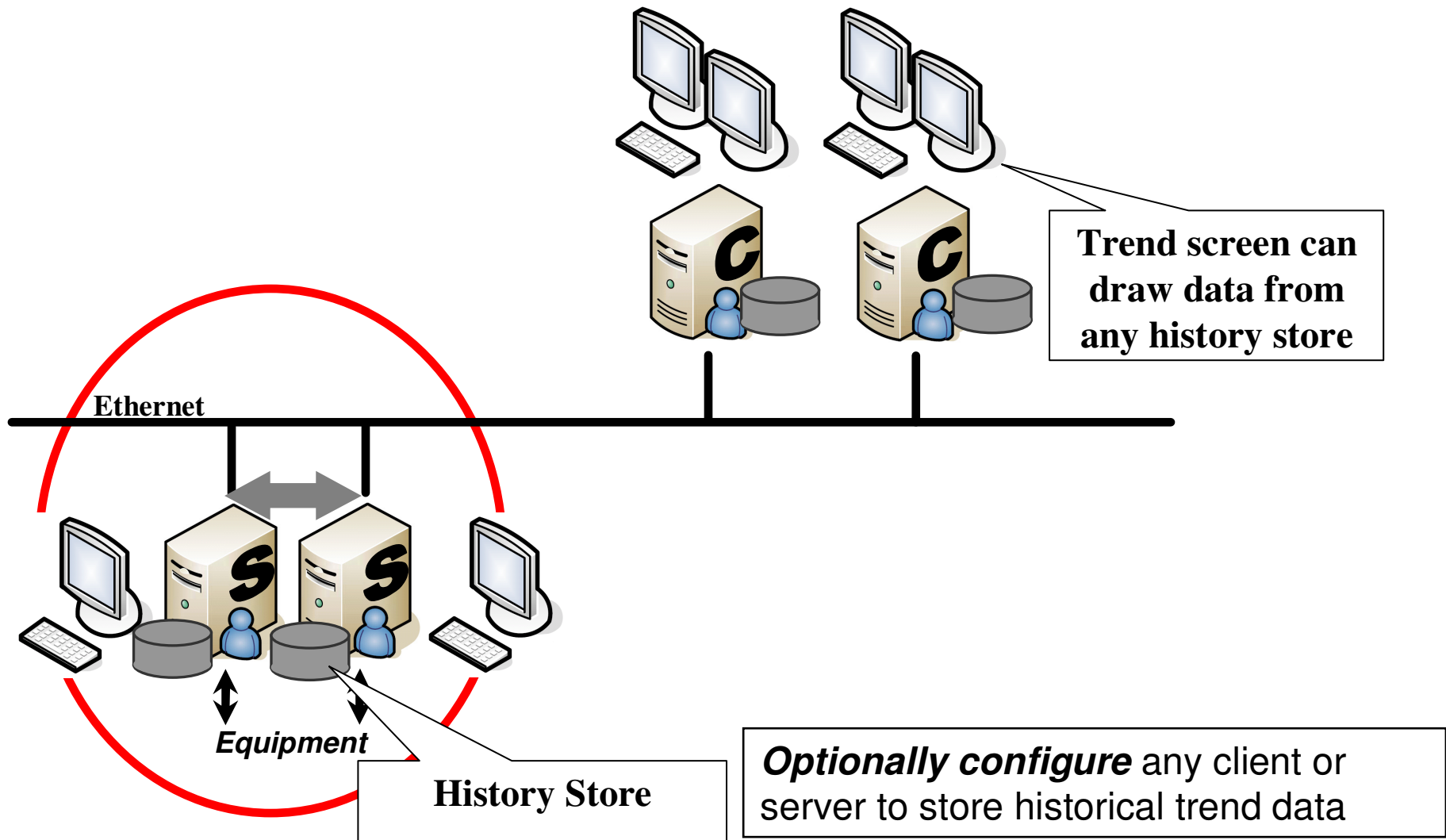
Redundant Servers without Client Failover



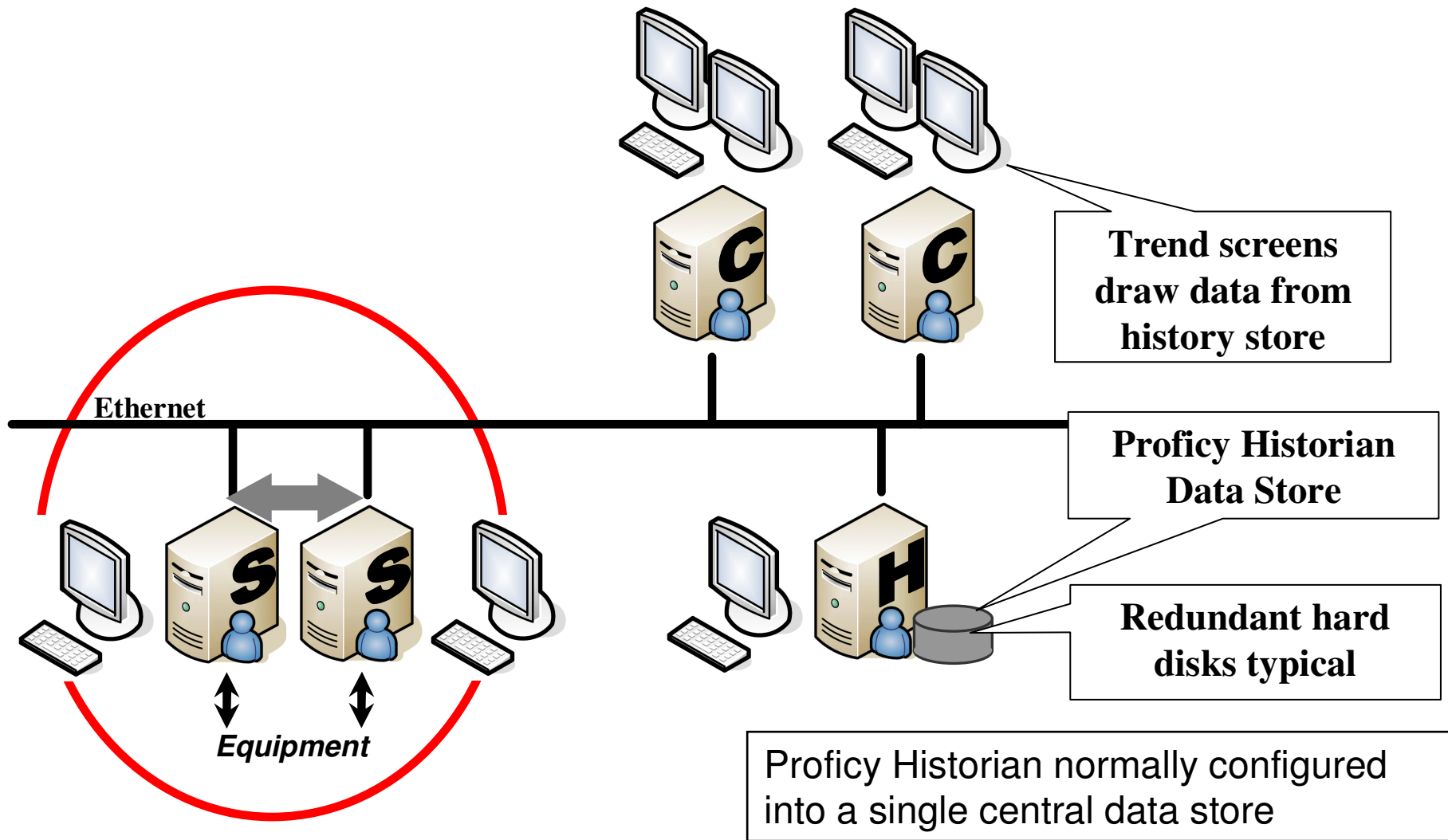
A Choice of Historians

- GE Proficy offers Two Standard Historians
 - Classic Historian ships *Free* with iFIX
 - Proficy Historian Offers Maximum
 - Performance
 - IT System Flexibility

Classic Historian



Proficiency Historian

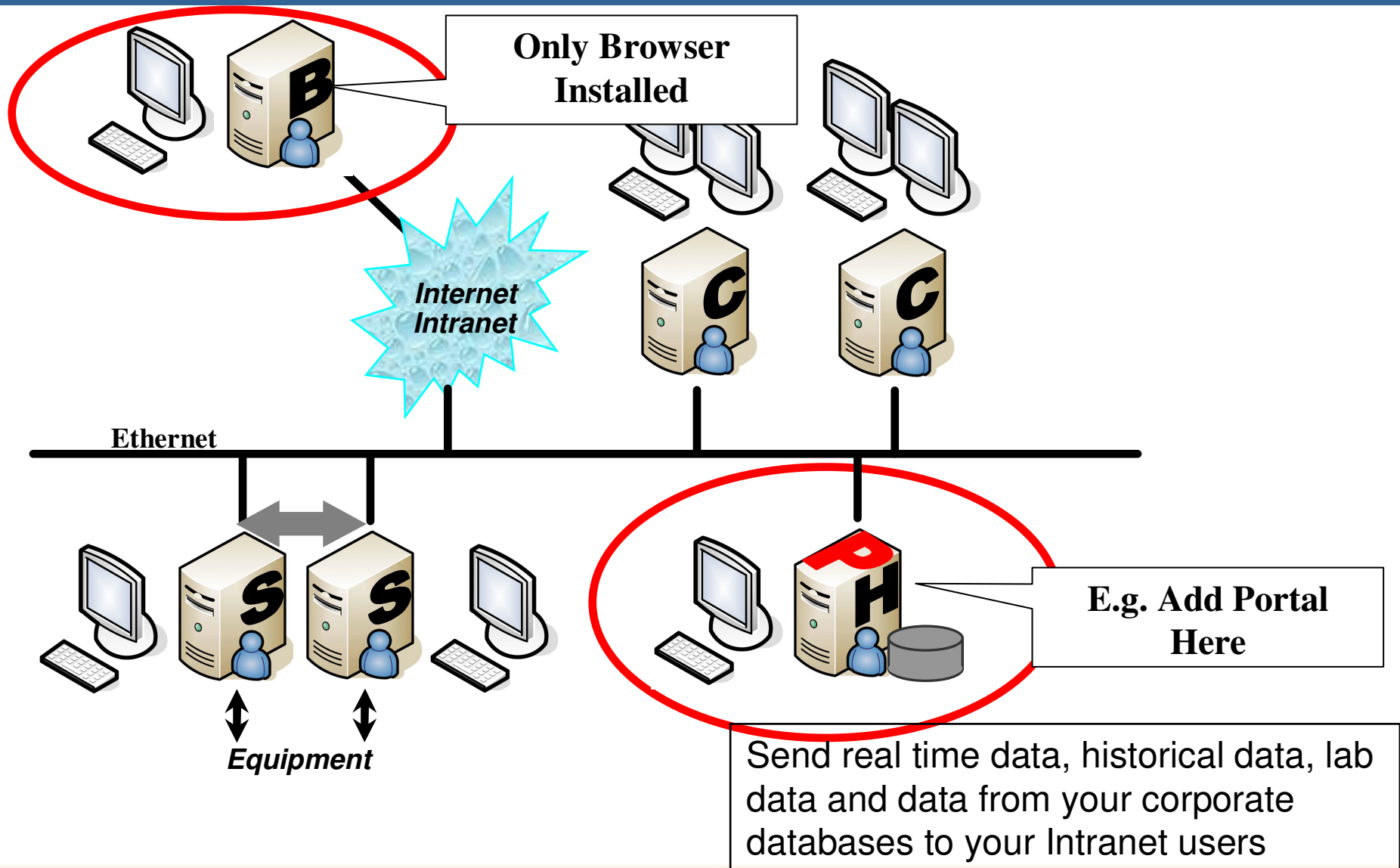


The Internet or Intranet

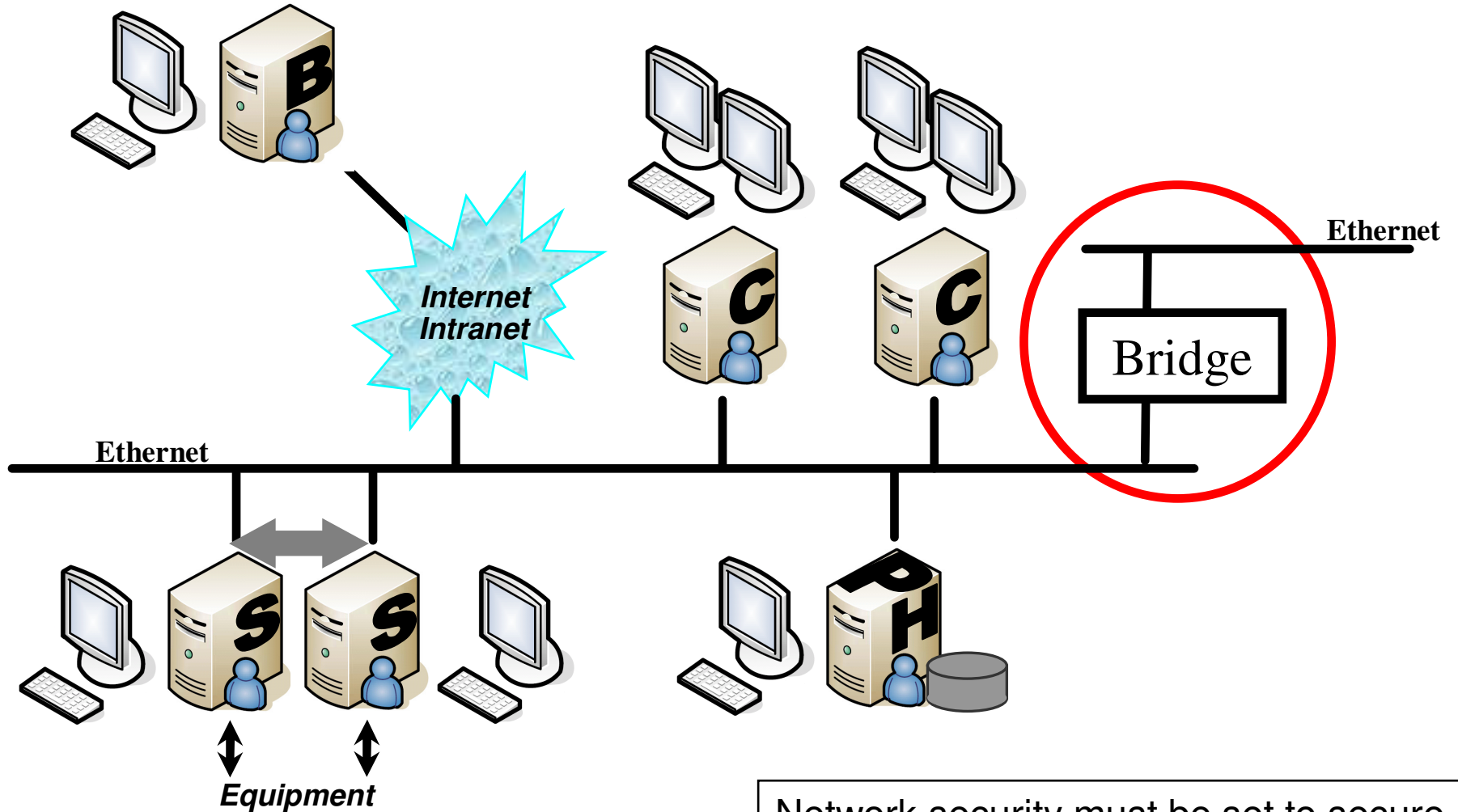
- GE Proficy Real Time Information Portal¹
 - Bring almost any data to almost any browser
 - DCS data
 - From Classic or Proficy Historian
 - OPC data from anywhere
 - Most common ODBC or SQL data sources
 - And much more
 - View the data in any form
 - Trends, graphics, tables
 - Mixed real time and historic
 - Calculated Performance Indicators

¹ Ask for more information about Proficy Real Time Information Portal

Add Real Time Information Portal



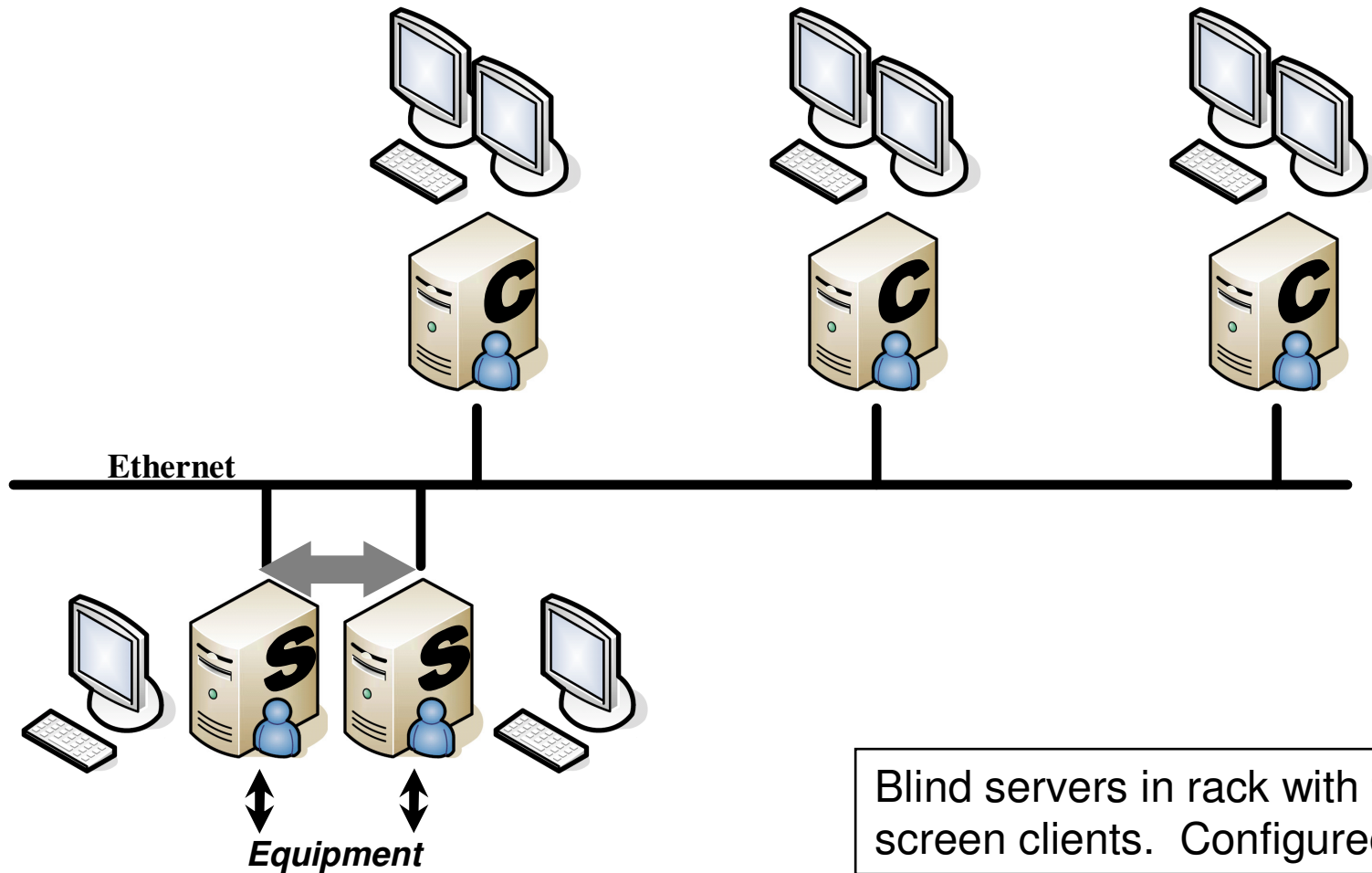
Bridge to the Plant wide Network



Network security must be set to secure your console network

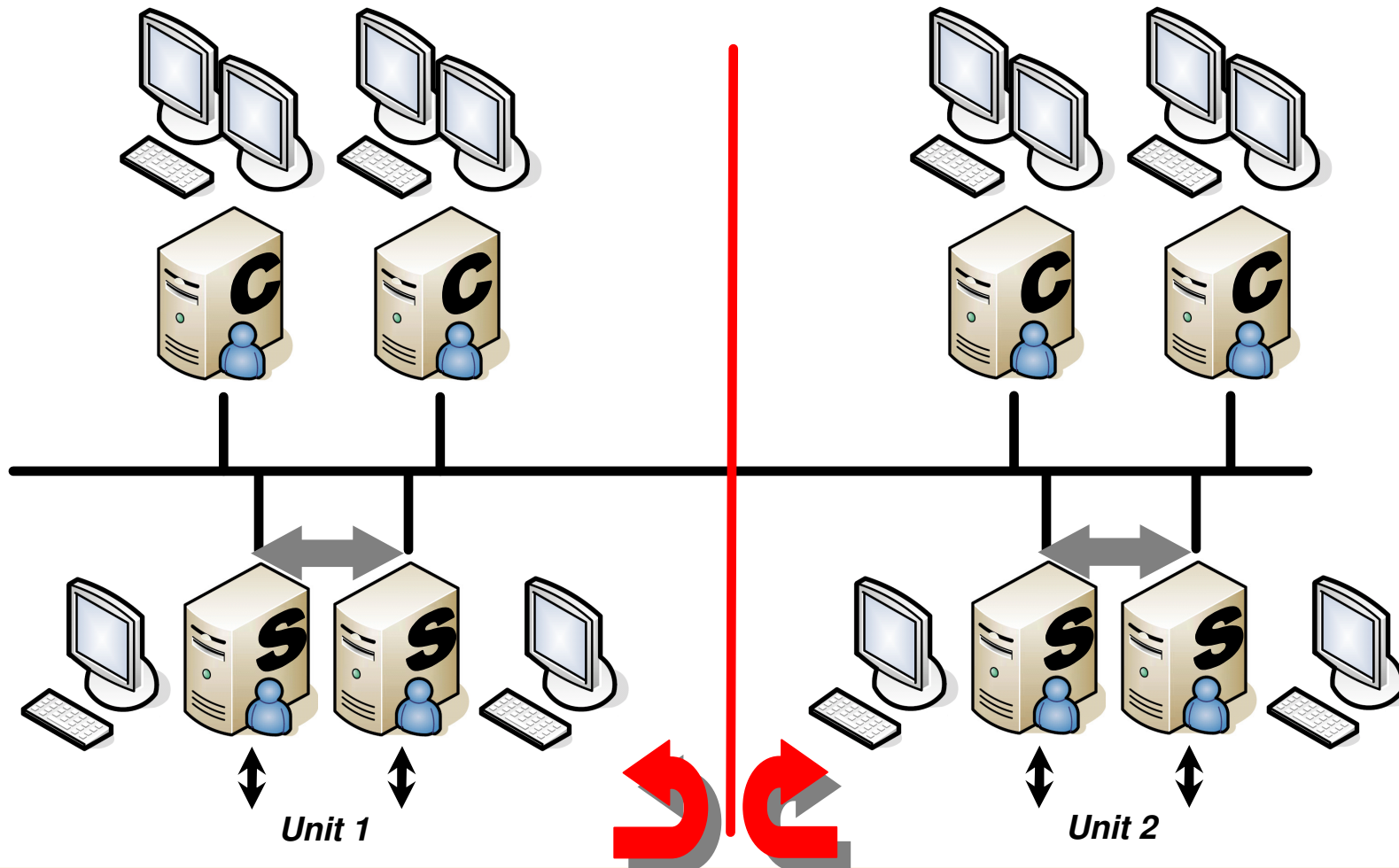
Typical Configuration # 1

- Suits a single unit power plant or cement plant



Typical Configuration # 2

- Suits a two unit power plant with unitization



Summary - Network Structures

- ❑ Size to meet your requirements
- ❑ Grow as you do

- ❑ A firm foundation upon which to build

Services Available

Flexible Service Offering
To Meet Your Need

Support Levels

□ First Level

- Your local contractor or integrator
 - Assisted by Previs

□ Second Level

- Previs resolves most issues
 - Assisted by GE and Microsoft

□ Third Level

- GE and Microsoft

Project Services by Previs

- ❑ Network Planning
- ❑ Projects
 - From D.I.Y. through to full turnkey install
 - Project Management
 - Optionally via local Engineering/Integration firm
- ❑ Integration
 - Single Source Procurement
 - GE and OPsCon components and services
 - Other components as required
 - System assembly, configuration, checkout
 - Automated graphics and database conversion

Project Services by Previs

- ❑ FAT/SAT as required
 - Acceptance test support
 - Based on Previs Bailey DCS Simulator
- ❑ Installation
 - Bailey DCS Upgrades as required
 - Typically no outage required for new console install
 - Depends on scope of DCS upgrades required.
 - Install and commission system
 - Follow-up on any issues or problems
- ❑ Training
 - Standard prepared operator & technical training
 - At your site !
- ❑ Other assistance as required

Post Installation Support Services

- ❑ Deal with Previs for problem resolution
- ❑ Annual Support
 - Bundled annual support for GE and OPsCon components
 - GE iGlobalCare program
 - Version updates, phone/web/email support, knowledge base
 - Previs Extended Support Program
 - Version updates, phone/web/email support
- ❑ On site services
 - Periodic maintenance
 - Installation of updates & HMI changes
- ❑ Web Services
 - Seminars and web based topical training

Services

As much or as little as you need

Designed to be helpful

We help ensure success

Wrapping Up

Next Steps

Additional Information Available

- ❑ Have we answered your questions ?
- ❑ Ask us for more about:
 - Standard screen system for iFIX
 - Proficy Historian
 - Proficy Real Time Information Portal
 - Remote support
 - Bailey DCS Simulator
- ❑ If you need further information please ask

Next Steps?

- ❑ Available now !
- ❑ If you need to know more:
 - Questions to *support@previs.com*
 - Ask us for a conference call to review your need
 - With web based product demonstration if requested
 - Ask us to quote your specific requirements
 - Just call us.. We'll walk you through the rest
- ❑ Free assessment of your application
 - To see what additional support you may require
 - To ensure our quote to you is 100% complete
- ❑ If you want to work with existing suppliers
 - Just ask us.. We'll be happy to work with existing suppliers
 - E.g. Existing controls engineers or integrator.
 - E.g. Turnkey installation by your local integrator

Thank You

Question & Answer