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#### --> Domain Concept



- Domains are group of stations connected on the V-net. Maximum 64 stations can be connected per domain. Bus Convertor (BCV) is used to link two domains.
- Multiple Domains are used
  - when there are more than 64 stations to be connected
  - when there are multiple sections in a plant
  - to reduce the load on the V net.





## 



	Maximum number of stations	· 256/System
	Maximum number of domains	· 16/System
	Numbering of domains	1 1 to 64
	Numbering of domains	: 1 to 16
	Domain number for CS5000 domain (v-net domain)	
<u>;</u>	Domain number for virtual Domain (Non v-net domain)	: 17 to 64
>	Maximum number of stations per domain	: 64
}	Maximum number of HIS per domain	: 16
ỳ	Station number for HIS	: 1 to 64 in descending order
>	Station number for FCS	: 1 to 64 in ascending order
}	Maximum number of Nodes per FFCS	: 3
}	Maximum number of Input /Output Modules per FFCS nodes + 6 I/O modules in the main CPU nest)	: 30 (3*8=24 I/O modules in
	Maximum length of V-net	: 500 m
	Maximum length of V-net with optical adapters	: 20 Km
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The image below shows the hardware configuration of the CS3000 FCS.



#### ---> Hardware Configuration- Local Node

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SD-MASP-S03054> Yokogawa Electric Corporation Copyright © by Yokogawa Electric Corporation ---> The Station for Real time Plant Monitoring/Operation











- Control Group Window
- Trend Window
- Process Alarm Window
- Operator guide Message Window
- Graphic Window
- Overview Window
- Process Report Window
- Historical Report Window



#### **Operation Windows**



# Calling Windows from NAME Icon



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# Methods of Calling windows



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# Operator Keyboard Layout







# **Instrument Faceplate Window Details**



# Changing Parameters from Faceplate Window vigilance.



# Changing Parameters from Faceplate Window vigilance.



### -->Tuning Window



# -->Tuning Window



### **Tuning Window Icons**

FCS0101	RIGHT CO	ntrol	1 <u>@</u> 4	COPY			9/30/2004 2:00 PM
COPULATION SH SL PV SIIM		PAUSE PH PL		TION . 0 100.0 0.0	DATA AXIS MAGNIFICATION	TI100 AUT NR PV 25.	TT100 × TT100
		VL	=	100.0		001 60 60 - 40 - 20	.0 <b>EV</b> 25.0 .0 <b>C</b> 100.0 .0 <b>C</b> 50.0 .0 <b>C</b> 40.0
i: 55 13 I PV Ready Ready Start ] ☑ @ @ S	:56 13	. 57 13	:58 ot ¢01	13:59 Fest Functio	14:00		.* 

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# **Tuning Window Icons**



### **Changing Parameters from Tuning Window**





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MAN (Manual)

→ CAS (Cascade)

PRD (Primary Direct)

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#### Selecting MANUAL Mode vigilance. 3/8/2007 3:25 PM COPY 📇 🗓 🔧 FIC1 TANK FLOW CTR • NR 🔶 GR0004 \_ 8 × × LIC1 MAN LIC1 TANK LEVEL C TR TANK LEVEL CTR TESTUSER Name: Reason: 0 1Å 1Å CONFIRM CANCEL 80 • **F** Ready 📴 Microsoft ... 🔢 System Vi... 📇 Generatio... 🥻 Picot 🕸 Test Func... 🚺 2 BKHP... 🗸 🤌 🖓 😨 🕐 « 🗞 🌏 💁 3:25 PM 🏄 Start 🛛 🧉 📜 🞯 👋 🗀 RM SD-MASP-S03054> Yokogawa Electric Corporation opyright © by Yokogawa Electric Corporation YOKOGAWA



# -> Selecting AUTO Mode



# -> Selecting AUTO Mode







# Selecting CASCADE Mode



	3/8/2007 3:50 PM
FIC1 TANK FLOW CTR NR	📇 🗓 🛃
	_ & ×
FICI CAS TANK FLOW CTR Name: TESTUSER Reason: TO TO TO TO TO TO TO TO TO TO	
Ready	
🟄 Start 🧑 📜 🎯 👋 🗀 RM 🛛 🖪 Microsoft 🔢 System Vi 🖼 Generatio 🏙 Picot 🕸 Test Func 🚺 2 BKHP	🔹 🤌 👰 😰 靠 « 💸 🗞 🎇 3:50 PM
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# Selecting PRD Mode





# Initialization Manual (IMAN) Mode





# **MV Clamping Mode**



#### MV Clamping Mode vigilance. 3/8/2007 6:27 PM COPY -📇 🚺 🔧 LIC1 TUN TANK LEVEL CTR \_ 8 × 🚇 🗸 📓 🔐 🚧 🌾 🌾 💏 💶 LIC1 TANK LEVEL C **CLAMPED NEGATIVE** In auto mode, if MV of the instrument is decreased below ML value, MV gets clamped at the ML value and C appears 1¢1 on the instrument faceplate . MLO alarm also appears on the instrument as well as in the **Process Alarm Window.** 60. 20.0 18:22 18:23 18:24 18:25 18:20 18:27 The MV and SV ■ PV • goes to clamp sv mode. (=)00:05:36 (€)100% leady 👰 😰 靠 < 🗞 🌏 🖓 6:27 PM 🏄 Start 🧔 📜 🎯 👋 🗀 RM 🔣 🖫 System Vi... 🔤 Generatio... 🎉 Picot 🕸 Test Func... 🎦 2 BKHP... 🗸 📴 Microsoft ... MASP-S03054> Yokogawa Electric Corporation ight © by Yokogawa Electric Corporation YOKOGAWA

# ---> Process Alarm Status



ALARM STATUS	PROCESS STATUS	ALARM SETTINGS	ITEM TO BE SET IN THE TUNING	PV BAR COLOUR	TAG MARK COLOUR	REMARKS
			PANEL			
NR	PROCESS NORMAL			GREEN	GREEN	
НН	PV VERY HIGH	PV >HH	нн	RED	RED	
HI	PV HIGH	PV > PH	РН	RED	RED	
LL	PV VERY LOW	PV < LL	LL	RED	RED	
LO	PV LOW	PV < PL	PL	RED	RED	
DV+ / -	DEVIATION ALARM	DV > DL DV = PV - SV	DL DEVIATION LIMIT	YELLOW	YELLOW	
VEL + / -	VELOCITY ALARM	VEL = PV/ T	VL VELOCITY LIMIT	YELLOW	YELLOW	
IOP + / -	INPUT OPEN	INPUT IS OUT OF RANGE	CHECK RAW VALUE IN TUNING WINDOW	RED	RED	RAW IS ACTUAL INPUT INTERMS OF %
OOP	OUTPUT OPEN	OUTPUT LINE IS OPEN		RED	RED	



### 

ALARM STATUS	PROCESS STATUS	ALARM SETTINGS	ITEM TO BE SET IN THE TUNING PANEL	PV BAR COLOUR	TAG MARK COLOUR	REMARKS
МНІ	MV HIGH	MV > MH	МН	YELLOW	YELLOW	OCCURS ONLY IN CAS/ AUTO MODE
MLO	MV LOW	MV < ML	ML	YELLOW	YELLOW	OCCURS ONLY IN CAS/ AUTO MODE







## Alarm Sub Status – Alarm Output Off



#### Selecting / Deselecting AOF vigilance. 3/8/2007 7:23 PM COPY 📇 🚺 🔧 \_ 8 × 🖳 🗸 🖾 🏤 🚧 🔆 💢 🚾 LIC1 TANK LEVEL LIC1 TANK LEVEL C TR AOF × MODE=MAN LIC1 AOF ? TANK LEVEL CTR ΗH MAN > PH TESTUSER Name: PLReason: LL2 9 VL × 0 $\mathrm{DL}$ CONFIRM 100.0 To put the instrument to AOF mode: 80.1 Go to the tuning window of the instrument. 60.0 Select AOF icon. Confirm. 40.0 20.0 To bring the instrument back to normal mode: Go to the tuning window of the instrument. L9:23 10 Select AOF icon once again. Confirm. F (=)00:05:36 (100%) 🏄 Start 🧔 🚆 🕝 🐣 🔚 🕅 System Vi... 🖳 Generatio... 🎉 Picot 🗳 Test Func... 🔽 3 BKHP... 🗸 🖾 Microsoft ... 🧷 🕼 🙄 🗘 « 🐟 🗞 🐔 7:23 PM MASP-S03054> Yokogawa Electric Corporation right © by Yokogawa Electric Corporation



## 



#### Calibration (CAL) vigilance. COPY 3/8/2007 7:36 PM 🔁 🕓 🕹 🔶 LIC1 TUN TANK LEVEL CTR <u>\_ 8 ×</u> 🖳 🗸 📓 🚰 👭 👭 🎄 🔅 💥 cal LIC1 TANK LEVEL C CTR LIC1 TANK CAL CAL MODE=MAN ALRM: NR ΗH MH 100.0 When an instrument is put in CAL mode CAL appears on the instrument faceplate. The PV bar changes to cyan colour. 80.0 The Instrument automatically comes to MAN mode. 60.0 40.0 The actual transmitter input is bypassed. 20.0 PV of the instrument can be changed. 6 All the alarms checking on the instrument are bypassed. (⇒00:05:36 €100% eadv

## Selecting/Deselecting CAL mode





#### -> Tag with confirmation





#### Security Level

KEY POSITION/	MONITORING		States States	OPERATION			
ACCESS LEVEL	FACEPLATE	DISPLAY		FACEPLATE	OPERATIONS,		
STA AND	THA TO			PROCESS DA	ATA INPUT		
-A-15-14-1-1	12 - 15-1	1 - E - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	15-18-54	OPERATION	S Start		
	OFF	ON	ENG	OFF	ON	ENG	
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2	0	0	0	*1	0	0	
3	0	0	0	*2	0	0	
4	0	0	0	X	0	0	
5	0	0	0	X	X	X	
6	X	0	0	X	X	0	
7	X	X	0	X	x	X	
8	X	X	X	X	X	X	
						Sec. 1	
		1 States and	the state of the state	100000000	1 Carter Contra	the states	

O: Can be executed

- X : Cannot be executed
- \*1 : Only the PV alarm settings, SV, MV and block mode can be changed
- \* 2 : Only the SV, MV and block mode can be changed

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#### **Security Function**







# 

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<june 2007="" 22,=""></june>									

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ACKNOWLEDGE is alarms in the HIS.	used to acknowle	edge the		100.0       00.0       60.0       40.0       20.0       0.0       0.0       0.0       0.0
Ready	Generation MPicot	후 Test Functio I I Micros	oft Po	🖨 00:05:36 (D:100%) TT100 (C: 🖓 🖓 🖓 🕮 2:00 Pr

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Reserve						vigilance".
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<isd-masp-s03054> Yokogawa Electric Corpor Copyright © by Yokogawa Electric Corporation <june 2007="" 22,=""></june></isd-masp-s03054>	oration					Yokogawa 🔶

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#### Operation Mark



# Operation Mark Assignment



# Control Drawing Display





# 

DataBase Equation	Complete		9/30/2004 4:34 PM
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AUT NR PV L/M 10.9 10.9 NR PV L/M SV L/ NV NV 25	AN AUT MAN NR MAN NR PV L/M SV L/M SV L/M SV L/M 10.9 NV 25.0	MAN IMAN AUT NR NR SV 394 MV 21 5	R L/M PV L/M 8 0.0
- 40.0 - 40	0.0 - 40.0 - 80.0 0.0 - 30.0 - 60.0	500 - 400 - 300 - 60.0	50 50.0 - 40 - 40.0 - 30 - 30.0

# 



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FI300 ADMAG FIC100 Flow Monitor FLOW PID CON Ing ADMAG TROL by FCS	FIC100_YVP FV10 FIELD PID CO NTROL	OO_YVF FI_SET100	TI500_YTA FI100	D_YF FI200_EJA					
AUT MAN IMAN	AUT IMAN NR NR		AUT AUT NR	AUT NR					
10.9 10.9 10.9 SV L/M 10.9 MV %	IV         IV<	\$ 25.0 8 MV \$	26.3	8 0.0					
50.0 - 50.0	25.0 - 50.0 -	25.0 21.8	100.0	50 50.0					
·· 40.0 ·· 40.0	40.0 30.0	- 80.0 r 400 Control display r	group windows are used to multiple instrument faceplates	40 ··· 40.0					
·· 20.0 ·· 20.0	• 20.0 • • 10.0	40.0 20.0 Maximu can be d Window	Im 8 or 16 instrument facep displayed in one Control Grou	lates 20.0 p 10.0					
<b>.</b> 0.0 <b>. .</b> 0.0	- <u> </u>	Double display	d from this window. click on the instrument TAGI the Faceplate window of th	NUMBER to e instrument.					
Image: Constraint of the instrument.       Image: Constrationt of the instrument.       Image: Const									

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#### **16 Instruments Control Group Operation**



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## -->Trend Window



### -->Trend Window



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Trend is recorded continuously in a rotary buffer. When the storage buffer becomes full, old trend data is overwritten by the new trend data. The trend is recorded continuously, once the pens are assigned.

### **Batch Trend:**

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Batch trend is used for a Batch Process. The trend has to be started and stopped whenever required, through an external command. Whenever start command is given, it erases the old recorded trend completely and starts recording the new trend.

The total trend recording period in a trend window depends on the sampling period and number of samples collected per pen.

**Sampling Period:** The time difference between two consecutive samples recorded.

SAMPLING PERIOD TOTAL RECORDING TIME

(2880 Samples/Pen)

- 48 mins. 1 sec.
- 10 secs. 480 mins. (8 hours )
- 1 min. 48 hours (2 days)
- 2 mins. 96 hours (4 days)
- 5 mins. 240 hours (10 days)
- 10 mins. 480 hours (20 days)





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## Trend Blocks







# Trend Point Window



# Trend Pen Assignment



Trend Save	vigilance.
	3/9/2007 1:06 AM
DataBase Equalize Complete	🔁 🗓 😓
	<u>_8×</u>
100.0 2100.0 3100.0 2100.0 5100.0 7100.0 810 Save As	?×
Save in:       TREND         TREND SAVE         File name:         TG0101         Save as type:         Preserved File(".trf)         Save as type:         TG0101 OK ?	Save Cancel
★         C         56.8M3/H           6FIC1.SV         TANK FLOW CTR           0.0         56.8M3/H	
Call the Trend window to be	a avra d
	saved.
3.09 3.09 Select TREND SAVE icon. S	pecify the file name.
1 0.0 2 0.0 8 0.0 4 0.0 5 0.0 5 0.0 7 0.0 8 Confirm. The trend window	will be saved.
Ready 🍠 Start 🧉 🎦 🎯 🎽 🛐 System 🎘 Genera 🎉 Picot 🖾 Test Fu 🏹 3 BKH 🗸 🗁 RM 🔯 CS3000 👘 Navigat	Gathering         (⇒)00:04:00         (⊕)100%
<isd-masp-s03054> Yokogawa Electric Corporation Copyright © by Yokogawa Electric Corporation <june 2007="" 22,=""></june></isd-masp-s03054>	Yokogawa 🔶

Trend Retrieve	A Yokogowa Commitment to Industry
DataBase Equalize Complete	3/9/2007 1:08 AM
▲ TG0101 Block:01 Group:01 ■ ✓ ズ 論秘秘察校校 ▲ 聖書 堕影 あるこ ▲	
Iton:0         2100.0         2100.0         5100.0	2× 1 ∰* ⊞•
File name: TG0101 Files of type: Preserved File(".trf) File Comment Block:01 Group:0 40.0 TANK FLOW CTR	Open Cancel
To retrieve the saved trend, select TREND       56.8M3/H         RETRIEVE icon.       GFIC1.SV         Select the trend window file to be retrieved.       56.8M3/H         Select Open. The saved trend window will be displayed.       Select Open.The saved trend window will be displayed.	
Ready <sup>2</sup> Start <sup>2</sup> Co * 10 * <sup>2</sup> Start <sup>2</sup> Co * <sup>2</sup> Co * <sup>2</sup> Start <sup>2</sup> Co * <td< th=""><th>Gathering         (⇔)00:04:00         (⊕)100%</th></td<>	Gathering         (⇔)00:04:00         (⊕)100%
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# ---- Calling Instrument from Trend Window



# Process Alarm Window



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# Process Alarm Window

# vigilance.



#### vigilance. 9/30/2004 2:06 PM COPY -Po 🗓 😓 TI200 ΗI 🔶 .AL Process Ala \_ 8 × 💄 🗸 🔅 🔜 🛋 Select this icon to call the 9/30 2:06:03 PM TI200 9/30 2:05:20 PM TI100 HI LO **Process Alarm Window** When an alarm occurs The tag mark changes colour depending on the alarm and starts flashing. The Process alarm window icon starts flashing in the System Message Area. Audible alarm is activated. The LED on the Process Alarm Window Key on the Operator Keyboard starts flashing. The alarm status is displayed on the instrument faceplate as well as on the Process Alarm Window. The alarm is printed on the printer connected to the HIS. The alarm is also stored in the History.



Operator Action	A Yokogawa Commitment to Industry
	9/30/2004 2:06 PM
<ul> <li>AL Process Alarm</li> <li>Image by the second s</li></ul>	
1 9/30 2:06:03 РМ ТІ200 НІ Select this i 2 9/30 2:05:20 РМ ТІ100 Lo Process Ala	con to call the Irm Window
Actions to be taken by the operator	
Select the Process Alarm Window icon in the System Message Area o Window key on the Operator Keyboard.	r Select the Process Alarm
> Acknowledge the alarm by the Alarm Acknowledge key. The instrume	nt tag mark stops flashing.
Reset the audible alarm using Buzzer Reset Key.	
Double click the process alarm in the Process Alarm Window for whic initiated.	h action needs to be
Take corrective action to reset the alarm.	
The alarm disappears from the Process Alarm window once it is reset	
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DataBase Delize Complete	10/1/2004 10:57 AM
Image: Constraint of the state of	
1 10/1 10:57:36 AM ATUR WEP 2 10/1 10:57:28 AM COOLING STARTED 3 10/1 10:57:16 AM BEACTION STARTED Select	
4 10/1 10:57:07 AM HEATING STARTED 5 10/1 10:56:57 AM MACH CRARTED	this icon to call the tor Guide Message w
OPERAT displays th the operat status and OG mess Group or Ready	OR GUIDE MESSAGE WINDOW he predefined messages to guide tor regarding the current process d /or the actions to be taken. ages can be acknowledged either as a as Individual message.
🙀 Start 🛛 🗃 🏈 😫 🛛 📆 System View ( 🖾 Generation Me 🎇 Picot 🔯 Test Function 🚺 OG Operator	🕀 💁 🔂 💐 🕮 🏷 10:57 AM

# Operator Guide Message Occurrence



Operator Action	A Yokogowa Commitment to Industry <b>vigilance</b>
DataBase Equalize Complete	10/1/2004 10:57 AM
DG Operator Guide Message   Image: Control of the state   Image: Control of the state	Select this icon to call the Operator Guide Message Window
Select the OG Message icon in the System Message Area Keyboard.	or Select the OG key on the Operator
Acknowledge the message by the Alarm Acknowledge key stops flashing.	y. The head mark on the OG message
Reset the audible alarm using Buzzer Reset Key.	
Double click the OG message on the OG Window for whic The related window will appear as per the setting done in	h action needs to be initiated. the HIS Setup menu.
Take the necessary action.	
Delete the OG message by the Delete key in the OG windo they are not acknowledged.	ow. OG messages cannot be deleted if
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# Graphic Window





# Overview Window



# **Overview Window**



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## **Process Report Window**



# **Historical Message Report Window**



× 10 9 4 9 4 4						9/30/2	004 1 <b>:</b> 57	PM
FCS0101 RIGHT Cont	rol			•		📇 🚺 畏	5	
🛛 Historical Report - [Operation and Monitoring Me	ssage]							_ 8 ×
File Edit View Window Help								_ 8 ×
产 🗏 Ci H 💷 💾								
Message No Date	Message Text							
1101 8/3/2004 10:28:00 AM	LIC-111	PV	=	20.0 🕯	8 LO			
1106 8/3/2004 10:27:02 AM	LIC-111	NR						
1102 8/3/2004 10:27:02 AM	LIC-111	PV	=	20.0 9	6 LO	Recover		
1101 8/3/2004 10:26:54 AM	LIC-111	PV	=	20.0 %	8 LO			
1105 8/3/2004 10:25:19 AM	LIC-111 TTC-111	NR	_	20.0.9	а то	D =		
1102 8/3/2004 10:23:19 AM	LIC-111	PV	_	20.0 1	8 TO	RECOVEL		
1106 8/3/2004 10:23:06 AM	LTC-111	NR		20.0	. 10			
1102 8/3/2004 10:23:06 AM	LIC-111	PV	=	20.0 9	8 LO	Recover		
1101 8/3/2004 10:22:48 AM	LIC-111	PV	=	20.0 %	8 LO			
1106 8/3/2004 10:22:25 AM	LIC-111	NR						
1104 8/3/2004 10:22:25 AM	LIC-111	MV	=	100.0 %	8 MHI	Recover		
1102 8/3/2004 10:22:14 AM	LIC-111	PV	=	20.0 9	8 DV-	Recover		
Historical Massage Poport s	tores the following events	PV	=	20.0 9	9 TO	Recover		
mistorical message Report s	tores the following events	PV	=	55.0 %	8 HI			
		PV	=	20.0 %	6 LO			
Process Alarms		191	_	22 1 8		Degetter		
r Tocess Alaritis		194 M07	_	13 6 9	о мп.о.	RECOVEL		
		PV	=	55.0 8	6 DV-			
>Annunciator Messages		PV	=	55.0 %	8 DV+	Recover		
Annunciator messages		PV	=	55.0 %	8 DV+			
>Operator Guide Messages								
operator ourde messages								
>Operation Record								
oportution notiona								
					22.1	toms Found		
				_	221			_
		Microsoft Po	•••	PR Proces	ss 🖸 Hisl	torical Re 🍕	E 💁 🌀 💐 💷	1:57 PM



# **Navigator Window**



# Screen Mode (Window or Full Screen)





# **Full Screen Mode**

Full Screen Mod	е		vigilance.
FCS0101 RIGHT Contr		COPY	3/9/2007 1:55 PM
CG0001 TANK CONTROL			X
MLD11 PID11 PVT11 FLOW CONTROL LER	LIC1 TANK LEVEL C TR	DELAYI	
HAN NR NR AUT NR PV KG/H3 0.0 0.0	MAN         IMAN         AUT           NR         AOF         NR           PV         MM         PV         M3/H           56.8         56.8         56.8	AUT NR CPV % 56.8	
УУ КС/ИЗ 0.0 ИУ КС/ИЗ 0.0 0.0	SV         MM         SV         M3/H           92.9         56.8           MV         %           56.8         56.8		
1000.0 D 1000.0 100.0 - 792.0 - 740.0		- 80.0	
- 564.0 - 60.0 - 480.0 - 276.0 - 40.0	• ► 50.0 D = €0.0 • 40.0 - 40.0	- 60.0 - 40.0	
- 168.0 	20.0 <b>-</b> 20.0 <b>-</b> 20.0	20.0	
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<isd-masp-s03054> Yokogawa Electric Corporation Copyright © by Yokogawa Electric Corporation <june 2007="" 22,=""></june></isd-masp-s03054>			YOKOGAWA 🔶



## **Panel Set**



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### Panel Set is automatic setting of predefined windows on the HIS.

- >200 panel sets can be programmed for one HIS.
- > Each panel set can set up to 5 Windows.
- >Panel sets are created in HIS Engineering Builder.

#### Panel Sets can be activated by

- Preset Menu
- Function Key on the Operator Keyboard
- > Touch Target or Push Button in Graphic Window
- Sequence Table through Sequence Message Request

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#### **Panel Set** vigilance. й 👬 🚱 💁 🕌 🖬 🗰 👘 мам: 🕰 🞯 🆎 3/9/2007 1:49 PM COPY 🔁 🗓 🔧 FCS0101 RIGHT -Control 🔶 CG0001 TANK CONT GR0001 TANK GRA \_\_\_\_\_ 🔶 LIC1 TAN × Ð 🚇 🖌 🚩 💕 🖳 Y 💕 V PID11 FLOW CON TROLLER LIC1 FIC1 TANK LEV TANK FLO EL CTR W CTR LIC1 TANK LEVEL C PVI11 DELAY1 MLD11 GRAPHICS IMAI AOF M TG010: V ~ n 0.0% ◀ 8M3/H 100.05 TANK OVERVIEW CONTROL FANK GRAPHICS TANK TREND 5FIC1.PV 🏄 Start 🧉 🞽 🞯 🎽 🌃 System Vie... 🖳 Generation ... 🕅 🎇 Picot 😳 Test Functio... 🗑 CS3000 OP... 📴 Microsoft Po... 💽 5 BKHPanel 🗸 🧷 🖟 « 💸 🖓 1:49 PM 054> Yokogawa Electric Corpo ′okogawa Electric Corporation YOKOGAWA

# **Calling Panel Set through Preset Menu**



# **Dynamic Window Set**





# Save / Delete Window Set

#### 3/9/2007 2:52 PM COPY FCS0101 RIGHT -Po 🗓 🔧 Control 🔶 TG0101 [5] Block:01 Group: 🖳 🗸 🖍 🚧 🌴 🏕 🏕 📌 😓 📰 🕅 🚺 🗖 DV0002 [M] TANK OVER <u>\_ | | ×</u> 00.0 <mark>5100.0 6</mark>100.0 7100.0 8100.0 Tool B 0.0% シ᠉᠉᠉᠉᠖᠅᠙ᠺ᠖ᡗᡵᠷᠷᠯ᠍᠍᠁᠉ FG0101 TG0102 DELETE DYNAMIC NTROL TANK TREND TANK OVERVIEW 🔶 CG0001 [S] TANK CONTI \_ [ WINDOW SET 🖳 ✔ 🚩 💕 🗜 SAVE DYNAMIC To save Dynamic Window Set WINDOW SET Call the windows to be set on the HIS. Select the Master Window. Select the Dynamic Window Set Key. Readv The windows will be saved as a dynamic 56.8M3/ window set. 7FIC1.MV TANK FLOW CT 56.8% **To delete Dynamic Window Set** 0.0%) 🖒 <mark>8</mark>PMVID.MV Call the windows to be set on the HIS. 75.0% 4:5 ▶ Select the Master Window. Gathering (=)00:04:00 (100° UIM Select the Dynamic Window delete Key. 😳 Test Functio... 🖻 C53000 OP... 📴 Microsoft Po... 🚺 5 BKHPanel 🕞 🧷 📮 < 💝 🥁 2:52 PM SD-MASP-S03054> Yokogawa Electric Corporation opyright © by Yokogawa Electric Corporation Yokogawa 🗸



# **Digital Input Tuning Window**



# **Digital Outputs (DO)**



# **Digital Output Tuning Window**





# Global Switches (GS) & Common Switches (SW) vigilance

TCS0101 Online Download Complet	Global Switches
	Max.256 GS/FCS
SW1 SW2 SW3 SW4	System Code: %GSxxxxSddss %GSxxxx - Switch number (0001 - 0256) dd - Domain number ss - Station number
	Common Switches
	Max.4000 SW/FCS
	System Code: %SWxxxxSddss %SWxxxx - Switch number (0001 - 4000) dd - Domain number ss - Station number
	Switches are used to store intermediate variables in the
	interlocks. Switches are internal flags that can be set and
	reset whenever required.
	Switches are used for auto / man selection, pump selection,
• • • •	speed selection, bypass selection etc
Ready 🏄 Start 🏼 🧑 🚬 🚱 🔌 🛄 System View (C 🛛 🔀 Generation Mes 🕻	
<isd-masp-s03054> Yokogawa Electric Corporation Copyright © by Yokogawa Electric Corporation <june 2007="" 22,=""></june></isd-masp-s03054>	Yokogawa 🔶

# Switches Tuning Window



FCS0101 Online Do	MICad Complete Area = 1	сору 1 — •	3/9/2007 4:20 PM
SW2 TUN	Window Name	- OK	×Stn
SW2		s	W2
PV = 1			
		74	
			PV=1
			SW=ON
			FF PV=0
			SW=OFF
6:15 16:16 PV	<u>16:17</u> 16:18 1	6:19 16:20	
Ready	1	F	(⇒00:05:36 (⊕100%
🛃 Start 🧔 🚬 🞯 🔌 🔢 System View (C	🖳 Generation Mes 🎁 Picot	😳 Test Function 🖪 Microsoft Powe	3 BKHPanel 🔹 🥜 📮 « 💸 🌏 4:20 PM
<isd-masp-s03054> Yokogawa Electric Corporation Copyright © by Yokogawa Electric Corporation <june 2007="" 22,=""></june></isd-masp-s03054>			YOKOGAWA 🔶

# Timer (TM)



# **Timer Tuning Window**





# Counter (CTS/CTP)





# **Annunciator Tuning Window**



#### Sequence Instruments (SIO) vigilance. 3/9/2007 6:37 PM COPY Pa 🗓 🔧 \_ 8 × × OK Stn PUMP FEED PUMP SIO PUMP FEED PUMP SIO MODE=MAN ALRM: NR BSTS:NR ΡV MTMIAN MV SIMM 🖒 BPSW 4 Sequence instruments (or) status input output instruments are used to i) Switch ON/OFF motors, pumps, heater etc.. ii) OPEN / CLOSE on-off valves iii) Indicate the ON/OFF status of motors, pumps, OFF heaters etc. 32 • iv) Indicate the OPEN/CLOSE status of on-off valves. (⇒00:05:36 (€100% Ready : Function - ... 🚺 PUMP TUN FEE... 🧷 🛩 🚑 💁 6:37 PM 🟉 Sta SD-MASP-S03054> Yokogawa Electric Corporation pyright © by Yokogawa Electric Corporation YOKOGAWA 🔶

# **SIO Normal Operation**



# **SIO Abnormal Operation – ANS+ Alarm**



Image: State Stat	COPY +	3/9/2007 6:53 PM
		PUMP
MODE=MAN ALRM: ANS+	BSTS:NR	FEED PUMP SIO
PV = 0	MTM	
MV = 2	SIMM	HAN NR ANS+
	🖒 BPSW	PV
AL Process Alarm	X	0
	— <mark> </mark>	2
1 3/9 6:53:42 PM PUMP FEED PUMP SIO	Þ	
Abnormal operation of SIO		
	1-0	OFF
when $MV = 2$ , DO IS ON, if DI IS OFF then PV		
Alarm Status is ANS+ in the above condition		
Alarm otatus is Ano. In the above conditie		•
Ready		(⇔00:05:36 100%
🏄 Start 🛛 🥥 🚬 🞯 💙 🖪 Microsoft Powe 🕅 System View (C 🔤 Generation Mes	Picot 😳 Test Function	🚺 2 BKHPanel 🕞 🥜 « 🚝 🎇 💁 6:53 PM
<ul> <li><isd-masp-s03054> Yokogawa Electric Corporation</isd-masp-s03054></li> <li>Copyright © by Yokogawa Electric Corporation</li> </ul>		YOKOGAWA 🔶

# SIO Abnormal Operation – ANS- Alarm



### Interlocks vigilance. Interlocks for a process can be written in the form of PROCESS Sequence Tables (ST) or Logic Charts (LC). CLS TRNFIL-1B 13/09/2 CLS TRNFIL-1 ANK LEVEL SO.ODE OOR TIME 0 0 **SEQUENCE TABLE** GDU STOP LOGIC CHART MASP-S03054> Yokogawa Electric Corporation ight © by Yokogawa Electric Corporation YOKOGAWA

# --->Sequence Tables

	es		
			13/09/2005 11:57 PM
🔶 DataBase Equalize Compl	ete	<b>~</b>	🔁 🗓 😼
		10G1 TAP	BLE
AUT NR 00 TC 1secPeriod	LES 14 58 9	2 36 70 14	58 92
No Description			COLOUR BAND
CO1 GIP-FI-HS-164.PV ON	Y		
CO2 GIP-FI-HS-120.PV ON	. ¥		
📫: GIP-FI-HS-123.PV ON	Y		
CO4 GIP-FI-HS-126.PV ON	¥		<u></u>
COS GIP-FI-HS-128.PV ON	NS ¥		
CO6 GIP-FI-HS-130.PV ON	· · · · · · · · · · · ·		
CO7 GIP-FI-HS-131.PV ON	· · · · · · · · · ·		
COS GIP-FI-HS-I32.PV UN	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
C10 CTP_FT_H%_137 PV ON	· · · · · · · · · · · · · · · · · · ·		
CII GIP_FI_HS_138 DV ON	· · · · · · · · · · · · · · · · · · ·		
A01 %0G0001.PV NON	¥		
A02 %0G0002.PV NON			
A03 %0G0003.PV NON			
A04 %0G0004.PV NON ACTION	S ¥		
A05 %0G0005.PV NON	¥		
A06 %0G0006.PV NON	· · · · · · · · · · · ·		
A07 %0G0007.PV NON	¥		
A08 %0G0008.PV NON	¥		· · · · · · · · · · · · · · · · · · ·
A09 %0G0009.PV NON	Y		· · · · · · · · · · · · · · · · · · ·
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Ready			
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<isd-masp-s03054> Yokogawa Electric Corporation</isd-masp-s03054>			
- Copyright e by Yokogawa Electric Corporation - Sune 22, 2007>			

# Calling Sequence Table from Tuning Window



Dimensional and the second	21 20 20 COPY ANS-	- I	3/9/20077:18 PM
DIGST TUN     Input Window Name		×	
🖳 🗸 🔢 🙀 🖞 DIGST TUN		• OK Stn	
DIGST		DIGST	
➡ MODE=AUT			
PV =00 Select this icon to dis	play the Sequence Table	AUT NR	
DIGST TABLE	_ <b>_ _</b> ×	STEP	
DIGST	14 58 92		
AUT NR 00 TE 1secPeriod			
No Description			
CO1 SW1.PV ON	¥		
CU2 SW2.PV ON	¥		
CUS SW4.PV ON	· · · · · · · · · · · · · · · · · · ·		
C05 SW3.PV ON			
CD6 SW6.PV ON	¥		
C07			
THEN			
	<u></u>		
ELSE	· · · · · · · · · · · · · · · · · · ·	•	
Ready			
Ready			
🏄 Start 🧔 🚬 🚱 🎽 🖸 Microsoft P 🕅 System Vie 🖳 🤇	ieneration 🎽 Picot 🛛 🔯 Test Functio	. 🔽 4 BKHPanel 🕞 🎰 Navig	ator \ 🥜 < 💝 🌏 7:18 PM
<isd-masp-s03054> Yokogawa Electric Corporation Copyright © by Yokogawa Electric Corporation</isd-masp-s03054>			Yokogawa 🔶

### ----Calling Sequence Table from NAME Icon

		3/9/2007 7:25 PM
DIGST TABLE     Input Window Name	AIIS	
		OK Stn
DIGST AUT NR OO TE 1secPeriod	14 5	sw2 ★ Sw6 ★
No Description	SW1	SW2 SW4 SW6
CO1 SW1.PV ON	x	
CO2 SW2.PV ON	x	
SW4.PV ON	· ¥ · · · · · ·	
CO4 SW5.PV ON	· · · · · · · · · · · · · · · · · · ·	
CO5 SW3.PV ON	· · · ¥ · · · ·	
CO6 SW6.PV ON	· · · ¥ · · · ·	
C07		
A01 SW3.PV L	Y	
AU2 SW6.PV L		
AU3 SWI.PV L		
105		
AD6		
A07		
A08	OFF	OFF OFF
THEN		
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🐮 Start 🧶 📜 🎯 🐣 🛄 Microsoft P 🕅 System Vie	🗟 Generation ) 🎬 Picot 🛛 🕸 Test Functio	🚺 6 BKHPanel 🔻 🏟 Navigator \ 🤌 « 💸 🍓 7:25 PM
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vigilance.

### ---- Calling Logic Chart from Tuning Window



### ---- Calling Logic Chart from NAME Icon



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🏄 Start 🛛 🧔 🚬 🞯 👋 🛄 Microsoft P... 🛛 🎹 System Vie... 🛛 🚟 Generation ... 🕻 🎬 Picot

PUMP

LOGIC LOGIC

LOGIC

SWS.PV.OX

SW3. PV.OX

leady



🔹 🤨 Test Functio... 🇄 🏟 Navigator \... 🚺 5 BKHPanel 🕞 🥜 « 💝 🌏 🚳 7:32 PM

## System Status Window

Correction     DataBase Equalize Complete     A System Alarm Message     Correction     Correction </th <th>9/30/2004 4:36 PM</th>	9/30/2004 4:36 PM
Ready	Range:All 11/11
Scart I a windows with the second	

#### vigilance. **FCS Status Display Window** 14/09/2005 4:33 AM COPY 📇 🚺 🔧 DataBase Equalize Complete -SF FCS0141 Station Status Display GIP Domain:01 🔹 😑 V netl 🔵 V net2 FCS0141 XNot Ready ∆Stand-By Station No:41 Control Hard Ready Maintenance Type Δ Revision :R3.06.00 Generation: 14/09/2005 2:47 AM CPU Idle Time: Osec Comm Load Ave: 0% Cur: 0% Select the node to PSU PSU display the status of individual I/O cards. Test Mode : ON 1 2 ControlStatus:RUN 02 COM COM PSU PSU Comm I/O TEMP leady 🍠 Start 🛛 🚱 📀 😘 🔄 🛐 S... 🚺 S... 🎁 Picot 🕸 T... 🛱 T... 👰 O... 🗮 S... 🗮 C... 🏠 F... 🗁 ha... 🗐 C... (4) 🛒 🔊 O 🚳 🚳 🕇 4:33 AM

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# **Time Setting Window**



# **System Alarm Window**



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Image: State	9/30/2004 1:52 PM Select this icon to
Image: Non-State         Image: Non-State<	display the System Alarm Window
S Al	YSTEM ALARM WINDOW displays the latest 100 system alarms. arms can be acknowledged either as a Group or as Individual alarm.
Ready <b>J III</b> System View (CS300 🖾 Generation Message 🎁 Picot	Range:All 7/7
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# Calling System Alarm Window from Tool Box vigilance.

SA System Alarm Message      SA System Alarm Message      Solution      Solution
V X Reference for a first form for the first form for the first form for the first form form for the first form form form for the first form form form for the first form form form form form form form form
1 00502 14/09 2:48:09 AM DataBase Equalize Complete 2 0510 14/09 2:48:06 AM DataBase Download from PVRREDDY File = 0GAR014101.odb 3 00510 14/09 2:48:06 AM DataBase Download from PVRREDDY File = Inst0397.odb 5 0510 14/09 2:48:06 AM DataBase Download from PVRREDDY File = TFR014101.odb 6 00510 14/09 2:48:06 AM DataBase Download from PVRREDDY File = TFFC50141.odb 7 00510 14/09 2:48:06 AM DataBase Download from PVRREDDY File = PlantClass.odb 8 0471 14/09 2:48:03 AM FC50141 Online Download Complete Area = 1 2 0 0502 14/09 2:48:03 AM FC50141 Online Complete Area = 1
10       0510       14/05       2:45:03       ALL       Data Base Download from FVMREDDY File = 06AR014101.odb         11       0510       14/05       2:45:03       ALL       Data Base Download from FVMREDDY File = 15AR014101.odb         12       0510       14/05       2:45:03       ALL       Data Base Download from FVMREDDY File = 15AR014101.odb         13       0510       14/05       2:45:02       ALL       Data Base Download from FVMREDDY File = TFAR014101.odb         14       0510       14/05       2:45:02       ALL       Data Base Download from FVMREDDY File = TFAR014101.odb         15       0471       14/05       2:44:55       ALL       DataBase Download from FVMREDDY File = TFAR014101.odb         16       0510       14/05       2:43:50       ALL       DataBase Download from FVMREDDY File = Inst0397.odb         20       0510       14/05       2:43:50       ALL       Data Base Download from FVMREDDY File = Inst0397.odb         21       0510       14/05       2:43:50       ALL       Data Base Download from FVMREDDY File = Inst0397.odb         22       0471       14/05       1:53:02       PL DataBase Download from FVMREDDY File = TFAR014101.odb         25       0510       13/05       1:53:02       PL DataBase Download from FVMREDDY File = Inst0397.odb
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# System Message Window Icons



# Message Monitor Window



ö: 🗱 🕼 😫 💭 🚔 📰 🔶		MESSAGE MONITOR WINDOW displays the			
PID11 TLOW CONTROLLER HH		latest 100 messages as configured			
Message Monitor Select this id	con to	in the Message Registration Window. Messages can			
Contract of the Message     display the MESSAGE     MONITOR window		also be filtered using the filter option.			
Header Message		Specific, colours can be chosen for each			
1 1601 3/14 11:23:32 AM PID11	FLOW CONTROLLER	type of message			
2 1601 3/14 11:23:16 AM MLD11		type of message.			
3 1101 3/14 11:23:07 AM PID11	FLOW CONTROLLER				
● 4 1101 3/14 11:23:07 AM PID11		PV = 135.3 KG/M3 HI			
- 5 1101 3/14 11:23:07 AM PID11		PV = 135.3 KG/M3 DV+			
e 1106 3/14 11:23:04 AM PID11		NR			
🔶 7 1102 3/14 11:23:04 AM PID11					
😑 8 1601 3/14 11:22:59 AM PID11	FLOW CONTROLLER	PL = 0.0 KG/M3 old= 40.0 [ TE			
9 1101 3/14 11:22:44 AM PID11					
10 1601 3/14 11:22:42 AM PID11	FLOW CONTROLLER	PL = 40.0 KG/M3 old= 0.0 [ TE			
● 11 1101 3/14 11:22:27 AM IMP-1		PV = Filter			
● 12 1601 3/14 11:22:26 AM IMP-1	IMPORTANCE 1	PL = Station range US			
😑 13 1601 3/14 11:22:18 AM IMP-1	IMPORTANCE 1	PH = C All US			
Message Registration					
Maximum Number Of Line: 100 C My Station					
✓ Sequence Messages	Color red	Strings			
✓ Operation Messages	green 🔻				
Field Bus Messages	magenta				
All Messages	orange 💌				
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Ready rance:All 13/13					
🏄 Start 🧑 🚬 🞯 🥐 🔟 System VI 🖾 Generatio 🎉 Picot 🖤 Test Funct 📴 Microsoft 🚺 GR0004 💽 Message 🧷 🖓 😨 😨 🖉 🖉 A 🗞 🗞 11:32 AM					
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# Window Call Icon



# Operation Menu Icon



#### --> Tool Box Icons vigilance. 9/30/2004 4:34 PM COPY DataBase Equalize Compl -📇 🗓 🔧 te \_ 8 × 🖳 🗸 🖌 💕 🗜 TOOL BOX Tool B 廖℠ℼѿ៙⇔ℋ୷ⅅΩ℗ЋЋポ**ℍ**團■₽₽₽₽₽ ROTATE HELP WINDOW **PINNING A** WINDOW PINNING A WINDOW icon is to pin the windows on the HIS. When a window is pinned, the window will be displayed on the HIS even if multiple windows are called. The window can be closed only by selecting the window close button. HELP window displays system defined help messages as well as user defined help messages. User defined help messages are created in the engineering builder and they can be linked to individual windows. When a help message is linked to a window, the help message shall be displayed when you call the window and select the HELP key. ROTATE will rotate the windows if multiple windows are viewed simultaneously. <ISD-MASP-S03054> Yokogawa Electric Corporation Copyright © by Yokogawa Electric Corporation YOKOGAWA

Large Size			A Yokogawa Commitment to Industry		
<u>:::::::::::::::::::::::::::::::::::::</u>		СОРУ	3/14/2007 10:38 AM		
CG0005 IMPORTANCE LEVEL					
IMP-1 IMP-2 IMP-3 IMPORTAN IMPORTAN IMPORTAN					
CE 1 CE 2 CE 3	I IMP-2 IMP-3 CE IMPORTANCE 2 IMPORTANCE 3	IMP-4 IMP-5 IMP-6 IMPORTANCE 4 IMPORTANCE 5 IMPORTANCE 6	IMP-7 IMPORTANCE 7 IMPORTANCE 8		
970 0.0 07 0.0 0 370 0 370 0.0 0 977 0 977 0 970 1 977 0 977 0 977 0 1977 0 977 0	HAN HAN HAN NR	HAN HAN HAN HAN NR NR NR	HAN HAN NR		
100.0 100.0 101	-0.0 0.0 0.0 * SV * SV * 0.0 0.0 0.0	0.0         0.0         0.0           SV         4         SV         4           0.0         0.0         0.0	0.0 0.0 SV 4 SV 4 0.0 0.0		
	NV         4         NV         4           0.0         0.0         0.0         0.0	HV • HV • HV • HV •			
	80.0 - 80.0 - 80.0	- 80.0 - 80.0 - 80.0	- 80.0 - 80.0		
Ready	δθ.0 - δθ.0 - δθ.0 40.0 - 40.0 - 40.0	- 50.0 - 50.0 - 50.C	- 50.0 - 50.0		
	20.0 - 20.0 - 20.0	Call a middle size window	on the screen.		
-→■.	● • • • • • • • • • • • • • • • • • • •	The same window will be	displayed in large		
	• •	size.			
Ready         Image: Start          Image: Start					
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# **Middle Size**









# **Related Builder Call**



## **Related Control Drawing Builder Call**




Image File vigilance	
IMP-1       IMPORTANC         IMP-1       IMPORTANC         Importanc       Importanc	
Image: Second	
External Recorder       OPC       REPORT       Process Management       Multiple-Monitor         Station       Printer       Display       Window Switching       Navigator       Alarm         Message and Report       Print       Printer Name       Line Print /YPR         MSG1       Importance       Print       Print       Print         MSG2       Importance       Process Management       Multiple-Monitor         MSG2       Importance       Print       Print         MSG3       Importance       Print       Process Management         MSG4       Importance       Print       Importance         MSG5       Importance       Importance       Process Management         MSG5       Importance       Importance       Process Management         MAG5       Importance       Importance       Process Management         MSG5       Importance       Importance       Importance         PRT       Importance       Importance       Importance         Message Printer Assignment       Importance       Importance       Importance	
Hardcopy Invert Print Uutput to File OK Cancel Apply Help	
👔 Start 🧑 📜 🞯 » 🖫 System Vie 🧏 Generation 🎉 Picot 🍄 Test Functio 🏟 Navigator \ 💽 .SH HIS Se 🚺 Image wind 🤌 « 🗞 🍪 7:18 PM	
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## **Calling the Image**

Image window C:\C53000\HIS\save\bmp\FullScreen1_2_s0.bmp	
	3/15/2007 5:59 PM
IMP-1 IMPORTANCE 1 LO	<u> </u>
IMP-1 IMP-2 I IMPORTANCE 1 IMPORTANCE 2 IMPOR	? IMP-8 IMPORTANCE 8
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