



A Yokogawa Commitment to Industry



MAINTENANCE COURSE











Instrumentation & Automation Education Center (IAEC) Yokogawa (Thailand) Ltd. "<u>Professional Instrument Engineer Training Program</u>" " CENTUM VP Maintenance Training Course "



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Course Time





CENTUM VP COURSE

Morning session	: 09.00 ~ 12.00
Afternoon session	: 13.00 ~ 16.00

Break 1	: 10.30 ~ 10.45
Lunch	: 12.00 ~ 13.00
Break 2	: 14.30 ~ 14.45



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CENTUM VP MAINTENANCE COURSE

- **OBJECTIVE** : In this course, the participants will be introduced to the hardware and software maintenance aspects of the CENTUM VP system. By the end of this course, the participants will be able to perform front-end maintenance of CENTUM VP system.
- **DURATION** : 2 days
- **PARTICIPANTS** : For CENTUM VP engineers and technicians who need to perform maintenance on the CENTUM VP system.
- **PREREQUISITE** : Participants should have attended CENTUM VP Engineering Course.









- **Centum VP system overview**
- **Setup Configuration**
- Windows setup
- **Network setup**
- **Software Installation**
- **Download project to FCS**







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System Overview





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Centum VP System Configuration - Overview





System configuration



Bus cable connection :LFCS







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Field Control Unit(FCU) Overview for LFCS









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Field control unit Picture : LFCS





RIO Bus Coupler Unit



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Connection of Vnet Cables



Example of Connection of V net Cables (10BASE-5 to 10BASE-2) : LFCS2/ LFCS CM

V net Cable Connection (10BASE-2 and 10BASE-5): LFCS2/LFCS

The following figure illustrates how to use adapter YCB147 to connect V net 10BASE-5 cable to V net 10BASE-2 cable.



Figure Example of Connection of V net Cables (10BASE-5 to 10BASE-2) : LFCS2/LFCS 🐨





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Connecting the RIO bus





2 Model for NIU



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Connecting the RIO Bus Cables









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Connecting the RIO Bus Cables





 Connecting the RIO Bus Cables to an LFCS2/LFCS with Cabinet : LFCS2/ LFCS CE

RIO bus (in case of dual redundant; use bus 1 when not dual redundant.)

ACHODIDE.EPS *1: Use the RIO bus unit in the rear for connection to the next node. (Install a terminator if the connection ends.)

Figure Connecting the RIO Bus Cables to an LFCS2/LFCS with Cabinet : LFCS2/LFCS





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Remote Input / Output (RIO)









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Remote I/O (RIO)









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Nodes Picture of LFCS

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Example of analog I/O module and nest





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Centum VP System Configuration LFCS





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Nodes Picture of LFCS





Node Interface Unit (NIU)



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Centum VP System Configuration LFCS





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Nodes Picture of LFCS









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System Configuration PFCS







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System Configuration PFCS











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System Configuration PFCS









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Centum VP System Configuration KFCS









Centum VP System Configuration KFCS





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KFCS (With FIO)





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Field control unit Picture : KFCS







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Field control unit Picture : KFCS





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Connection









Connecting of KFCS with cabinet













Table Node Unit

Туре	Name
ANB10S	Node unit for single ESB bus
ANB10D	Node unit for dual-redundant ESB bus
ANR10S	Node unit for single ER bus
ANR10D	Node unit for dual-redundant ER bus



The correspondence between bus interface modules and device types are as follows.

- SB401: ESB bus slave interface module (installed in ANB10S/ANB10D) ٠
- EB401: ER bus master interface module (installed in ANB10S/ANB10D) ٠
- EB501: ER bus slave interface module (installed in ANR10S/ANR10D) ٠







Type of Node











Field network I/O (FIO)







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Terminal Blocks for FIO







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Configuration of Node units



Node units are available for both single and dual-redundant ESB buses (the figure below shows a node unit for a dual-redundant bus). Bus interface module Power supply module Slot for I/O modules 82 83 0 Grounding terminalp, Installed in a cabinet CENTUM.V/P ACC Instrumentation & Automation Education Center (IAEC) Yokogawa (Thailand) Ltd. "Professional Instrument Engineer Training Program" YOKOGAWA " CENTUM VP Maintenance Training Course "

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Installation of Node units











Local Node in FCS Architecture : KFCS









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Local Node in FCS Architecture : KFCS









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Remote Node in FCS Architecture : KFCS









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ESB Bus Interface Slave Module (SB401)



Connector unit with terminator for ESB Bus



Connector unit for ESB Bus



Setting node addresses

Bit 1 ----- Node address parity (1 bit, odd parity) Bit 2-Bit 3 Node address Bit 4 Bit 5 Bit 6





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ER Bus Interface Master Module (EB401)





Local Node

ER bus cable connector (CN1)





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ER Bus Interface Slave Module (EB501)





Set the address of lower 4 bits using bit numbers 5 to 8.

The settings become valid only after the Bus Interface Unit is restarted.



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Connecting the FIO bus





Node in FCS Architecture







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Connecting of KFCS





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Nodes Picture of FFCS









Nodes Picture of FFCS









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Node in FFCS Architecture







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Node in FFCS Architecture





The FCS consists of the FCU and Node Units, and the ESB bus or the ER bus to connect them together.



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V net Cable







- Using VLnet interface card
- Cable : Thin coax. cable with BNC connector (10Base2 comp.)
 - V net 10Base5 cable up to 500 m.
 - 10Base2 cable up to 185 m.
- Communication speed : <u>10Mbps</u>
- Std. max. length : (10Base2) + 0.4(10Base5) < 185 m</p>
- 1.6 km with coax. repeater







V net Cable

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- → Token-passing, Deterministic, High speed (10 MBPs)
- → Bus topology, coaxial or fiber optic cable
- → Type of communication transmitted:

read/write of FCS data broadcast of FCS messages broadcast of HIS messages time equalization communication of operating status display online maintenance



Medium:	Coaxial Cable
Data Rate:	10 Mbps
Segment Length:	max. 185m./500m
Termination:	50 ohm, 1 Watt
Connection:	BNC





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Attaching the VF701 card onto the HIS PC

Make sure the **domain number** and **station number** are correctly set 0452 BECOM BEC18-0203120 UB <u>...</u> engennens gemag. Viggenenens vir pre minentini, minentine RECO





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Control Bus Interface Card (VF701)



Attaching the VF701 card onto the HIS PC



PCI slots are usualy white colored.





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Control Bus Interface Card (VF701)



Attaching the VF701 card onto the HIS PC











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Connet Vnet (VF701)







CONNECT V-NET CABLE BUS 1



CONNECT V-NET CABLE BUS 2





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CENTUM Vp









Control Bus Interface Card (VI701)





VI701 Specificat	tion
Interface:	PCI/PCI-X
	32bits
	3.3V/5.0V
Mac Address:	Vnet/IP bus1
	Vnet/IP bus2
	Vnet/IP on TCP/IP
	Ethernet (for Open)





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Control Bus Interface Card (VI701)







L2SW (Layer2 Switching Hub)



CAT5E UTP Cables

Note : L3SW* (for multi domain)





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System Configuration





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CENTUM V/P

System Configuration







Minimum Requirement





Processor

Memory HDD Monitor **Drive** PCI slot **PCI slot USB** port **Ethernet port Serial port** Parallel port Other

- : Pentium 4 (2.8 GHz) or better
- : Intel Core 2 Duo (2.66GHz)
- : 2GB RAM (minimum)
- : 40 GB (minimum)
- : CRT or LCD 19"
- : DVD-ROM/CD-ROM read
- : Matrox card (dual-stacked)
- : Vnet card (VF701, VI701)
- : Operation keyboard
- : I AN connection
- : Mouse and Keyboard
- : Printers
- : Floppy Disk is required for key code.

Operator Keyboard [Optional]







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Human Interface Stations (HIS)

The HIS is mainly used for operation and monitoring – it displays process variables, control parameters, alarm, trend windows, etc. There are 2 types of HIS:

Desktop Type



PC

Console Type



Enclosed Display Console



Open Display Console





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Desktop Type



Single monitor

- \bigstar 17" LCD or CRT Operation keyboard (optional)
- ★ LHS1100 Std Operation & Monitoring Function



Dual monitor

- \bigstar 17" LCD or CRT Operation keyboard (optional) Matrox card
- ★ LHS1100 Std Operation & Monitoring Function
- ★ LHS4600 Multiple-monitor Package





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Console Type



Enclosed Display Console

- ★ 19" TFT LCD Touch panel Operation keyboard 64 keys
- ★ LHS1100 Std Operation & Monitoring Function
- ★ LHS1120 Console HIS Support Package for Enclosed Display Style



Open Display Console

- ★ 18" TFT LCD Touch panel Operation keyboard 32 keys
- ★ LHS1100 Std Operation & Monitoring Function
- ★ LHS1130 Console HIS Support Package for Open Display Style





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Ethernet



Ethernet Port

Computer



- Hub Link 10/100 Mbps or 1 Gbps
- Network Cable (RJ-45connector)
- Network Interface Card





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Ethernet



Ethernet Information Network

- ----> Bus contention method, Non-Deterministic
- \rightarrow High speed (10/100 MBPs)
- → Star topology, UTP or fiber-optic
- Type of communication transmitted: equalization communication acquisition of status display data other station trend download, IOM download, tuning parameter save recipe equalization client-server processing open data interface



Medium:	4-Pair Category 5 Cable
Data Rate:	10 Mbps (10BASE-T) 100 Mbps (100BASE-TX)
Segment Length:	max. 100 m. (point-to-point)
Connection:	RJ-45 Connector



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If I want to startup the Field Control Station. How can do it ?







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Window Setup Software Installation





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Installation Procedure



- 1. Installation of Windows.
- 2. Installation of Service Pack.
- 3. Windows setup.
 - Set up the Windows configuration in order to run the Centum VP system on Windows:
 - Setup Computer Name and Workgroup.
 - Setup file system.
 - Virtual memory.
 - Setup display properties and power options and more.
 - Network adapter addition
 - Installation of the Ethernet adapter
 - Installation of the Control Bus driver.
 - Printer addition.
- 4. Installing USB Operation Keyboard Driver. (if in use)
- 5. Installation of the Centum VP software.
- 6. Windows configuration. (Networks, the user name, and other information need to be
 - set up in order to run the CentumVP system on Windows.)









Software Operating Environment

Support target OS below.

- Windows 7 Service Pack 1
- Windows Vista Business Edition Service Pack 1, 2
- Windows XP Professional Service Pack 3
- Windows Server 2003 Service Pack 2
- Windows Server 2003 R2 Service Pack 2
- Windows Server 2008 Standard Edition Service Pack 2

64-bit OS is not supported.

















The CENTUM VP software is compatible with the commercial software listed below:

Software type	Software name	Version	Remarks
Spreadsheet	Microsoft Excel (*1)	2003, 2007	Used with the report package, and Settings for FCS Data Setting/Acquisition Package (PICOT).
Word processing	Microsoft Word	2003, 2007	
Software development	Microsoft Visual C++	6.0+SP5	
Software development	Visual Studio	2005	
Document reader	Microsoft Internet Explorer	6.0, 7.0	Used with the electronic document
Document reader	.NET Framework	3.0	package.
Uninterruptible power supply (UPS)	APC PowerChute Business Edition	7.0.5	
Anti-virus	Symantec Endpoint Protection	11.0	
Anti-virus	McAfee VirusScan Enterprise	8.5i	
Others	Adobe Reader	8.1.2, 7.0	
	Adobe Acrobat	8.1, 7.0	

Table **Compatible Commercial Software**







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Software Compatibility



Prior to installation, have the following prepared:



Keycode Files / System ID License (floppy disk/s)



Centum VP Software Medium (DVD-ROM)





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Software Compatibility



Before you start installing



Operating system installed (Windows Vista Business Edition Service Pack 1 or Windows XP Professional Service Pack 2 or Windows Server 2003 Service Pack 2) **and service pack.**



3

Control Bus adapter (VF701) and RS-232 Serial Card (AIP261; in case of console type HIS) installed in the PCI slot. (Ref.: IM 33Q01C10-01E page 2-2 (8/312) (Ref.: IM 33Q01C10-01E page 6-9 (151/312)

Ethernet adapter and driver installed. (Ref.: IM33Q01C10-01E page 2-16 (22/312)



Installation is done by using "Administrator" account (or other account that has an administrator's privilege).





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Computer Name/Station Name

A computer name is a name used to identify each computer on the Windows network. An arbitrary computer name can be specified using the Windows Control Panel. A station name is a name uniquely specified according to the

Control bus address in the CENTUM VP system.

EXAMPLE : HIS0164 HISddss: "dd" is the domain number "ss" is the station number













For Windows Vista

Indiuw.	are Advanced System Protection Remote	Computer Name/Domain Changes
Windows use on the networ	s the following information to identify your computer k.	You can change the name and the membership of this computer. Changes might affect access to network resources
Computer description:	CentumVP Engineering	C. International Action Control of Control o
	For example: "Kitchen Computer" or "Mary's Computer".	Computer name:
Full computer name:	HIS0164	HIS0164
Workgroup:	WORKGROUP	Full computer name: HIS0164
To use a wizard to join a Network ID.	domain or workgroup, click Network ID	More
To an a data and a		Member of
To rename this compute	e. Change its domain or Change	O Domain:
workgroup, click change		
workgroup, cick change		
workgroup, cick change		Workgroup:
workgroup, cick change		Workgroup: WORKGROUP
workgroup, cick chang		Workgroup: WORKGROUP
workgroup, cick change		Workgroup: WORKGROUP OK Cancel







For Windows XP/Windows Server 2003

System Prope	rties			? 🗙		
System Re	estore	Automa	tic Updates	Remote		Computer Name Changes
General Win on the Computer desc	dows uses he network. cription:	the following info	Hardware	Advanced your computer		You can change the name and the membership of this computer. Changes may affect access to network resources.
Full computer r Workgroup:	name:	HIS0164.	Computer	or marys		Full computer name: HIS0164.
To use the Ne domain and cr ID. To rename this	twork Ident eate a local s computer (ification Wizard I user account, o or join a domain,	to join a click Network , click Change.	Network ID Change	-	More Member of Domain: Workgroup: WORKGROUP
		ОК	Cance	Apply		OK Cancel

HISddss : "dd" is a domain number and "ss" is a station number





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File System



The file system of the disk partitions should be NTFS. If the partition of operating system is already formatted to FAT, it is necessary to convert it into NTFS and then reinstall the operating system. Other partitions should also be formatted into NTFS.

Security	Previo	ous Versions	Quota
General	Tools	Hardware	Sharing
🏷 🚺	ta		
ype: Loc	al Disk		
ile system: NII	-5 20.21/	005 972 hites	19.9 CD
Free space:	21,726	5,572,544 bytes	20.2 GB
Capacity:	41,940),668,416 bytes	39.0 GB
	Dr	ive C:	Disk Cleanu
Compress this d	rive to save	disk space	
Index this drive	for faster sea	arching	





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Set the Virtual memory by Custom size. The setting method is shown as follows. 1. Logon as an administrative user.

2. Choose [Control Panel] - [System] from [Start] menu so as to display System settings.







3. Choose [Advanced system settings] so as to open [System Properties].





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On [Advanced] tab, click [Settings] button of [Performance] so as to display [Performance Options].

Computer Name	Hardware	Advanced	System Protection	Remote
You must be lo	gged on as a	an Administra	tor to make most of th	nese changes
Performance				
Visual effects	, processor s	cheduling, m	emory usage, and vir	tual memory
				N GROUT AS IT A CER
				Settings
User Profiles				
Desktop settir	ngs related to	o your logon		
				Settings
Startup and R	ecoverv			
System startu	n system fail	ure and deb	ugging information	
oystom starta	p, 990000110		agging includer	
				Settings
			-	
			Environme	nt Variables
		<u></u>		





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4. On [Advanced] tab of [Performance Options], click [Change] button of [Virtual memory] so as to display the [Virtual Memory] dialog box.

Processor scheduling Choose how to allocate processor resources. Adjust for best performance of: Programs Background services Virtual memory A paging file is an area on the hard disk that Windows uses as if it were RAM. Total paging file size for all drives: 4096 MB Change	isual Effects	dvanced	Data Executi	on Prevention	
Choose how to allocate processor resources. Adjust for best performance of: Programs Background services Virtual memory A paging file is an area on the hard disk that Windows uses as if it were RAM. Total paging file size for all drives: 4096 MB Change	Processor sch	eduling			
Adjust for best performance of: Programs Background services Virtual memory A paging file is an area on the hard disk that Windows uses as if it were RAM. Total paging file size for all drives: 4096 MB Change	Choose how	to allocate	processor res	ources.	
 Programs Background services Virtual memory A paging file is an area on the hard disk that Windows uses as if it were RAM. Total paging file size for all drives: 4096 MB Change 	Adjust for be	st perform	ance of:		
Virtual memory A paging file is an area on the hard disk that Windows uses as if it were RAM. Total paging file size for all drives: 4096 MB Change	Programs		Backgrou	and services	
A paging file is an area on the hard disk that Windows uses as if it were RAM. Total paging file size for all drives: 4096 MB Change	Virtual memor	у			
Total paging file size for all drives: 4096 MB	A paging file i if it were RAM	s an area 1.	on the hard di	sk that Window	is uses as
Change	Total paging	file size for	all drives:	4096 MB	
				Ch	ange
		12		2	
			~		and the second second









5. The paging file size of the selected drive can be defined as follows: Choose [Custom size] and then enter the sizes for [Initial size] and [Maximum size]. A size that is three times of main memory size is recommended for the initial size. However, 4096MB is the upper limit. For an example, if the main memory size is 1GB, the initial size can be defined with 3072MB. However, if the main memory size is 2GB or 4GB, 4096MB should be used.

6. Click [OK] button.

Drive [Volume Label]	Paging File Size (MB)
C: [Vista]	4096 - 4096
D: [WinXP]	None
E: [WITAPCSSOU]	None
H: [Kingston]	None
Selected drive:	C: [Vista]
Space available:	24813 MB
Oustom size:	
Initial size (MB):	4096
Maximum size (MB):	4096
System managed s	ize
🔿 No paging file	Set
otal paging file size fo	or all drives
Minimum allowed:	16 MB
Recommended:	3003 MB
	1005 MB



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For Windows Vista

- 1. Logon using the administrative user account that used for installation.
- 2. Choose [Control Panel] [Personalization] [Window Color and Appearance] from [Start] menu so as to display [Window Color and Appearance].

Window Color and Appearance
You can change the color of windows, the Start menu, and the taskbar. Pick one of the available colors or create
your own color using the color mixer.
Default Graphite Blue Teal Red Orange Pink Frost
Enable transparency
Color intensity:
Show color mixer
Open classic appearance properties for more color options





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3. Choose the option of [Open classic appearance properties for more color options] at the lower part of the window so as to display [Appearance Settings] dialog box. Choose [Windows Aero] for [Color scheme] and then click [OK] button.

Appearance Settings	
Appearance	
Inactive Window	
Color scheme: Windows Aero Windows Vista Basic Windows Standard Windows Classic High Contrast White High Contrast Black High Contrast #2	
OK Cancel Apply	









4. Choose [Control Panel] - [Personalization] - [Desktop Background] from [Start] menu so as to display a window for selecting [Desktop Background]. Choose [Solid Colors] for [Location] and then click [OK] button.





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5. Choose [Personalization] - [Screen Saver] so as to display "Screen Saver Settings" dialog box. Choose (None) for [Screen saver] and then click [OK] button.









6. Choose [Personalization] - [Display Settings] so as to display "Display Settings" dialog box. Set the following settings and then click [OK] button.

- Colors : "Highest (32 bit)"
- Resolution : SXGA 1280 by 1024 pixels (Super eXtended Graphics Array)

: WXGA 1680 by 1050 pixels (Wide XGA)

💐 Display Settings	X
Monitor	
Drag the icons to match your monitors.	Identify Monitors
1. Generic PnP Monitor on ATI FireGL V3300 (Microsof	ft Corporation - WDD 🔻
\boxed{V} Extend the desktop onto this monitor	
Resolution:	Colors:
Low High	Highest (32 bit) 🔻
1280 by 1024 pixels	
How do I get the best display?	Advanced Settings
ок	Cancel Apply





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• 9 1 7 1 1 1 7 7 4



For Windows XP/Windows Server 2003

- 1. Logon as an administrative user.
- 2. Choose [Control Panel] [Display] from [Start] menu so as to display[DisplayProperties].
- 3. On [Desktop] tab, choose [None] for [Background].







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4. On [Screen Saver] tab, choose [None] for [Screen Saver].







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5. On [Settings] tab, choose [Highest [32 bit]] for [Color quality].

)isplay Properties	×
Themes Desktop Screen Saver Appearance Settings	
Display: Default Monitor on Intel(R) 82865G Graphics Controller	
Screen resolution More Less Highest (32 bit) 1280 by 1024 pixels Image: Color quality Image: Troubleshoot Adyanced	
OK Cancel Apply	



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Setting of System Properties



For Windows Vista

1. Logon as an administrative user.

2. Choose [Control Panel] - [System] - [Advanced system settings] from [Start] menu so as to display [System Properties].

System Properties
Computer Name Hardware Advanced System Protection Remote
You must be logged on as an Administrator to make most of these changes. Performance
Visual effects, processor scheduling, memory usage, and virtual memory
Settings
User Profiles
Desktop settings related to your logon
Settings
Startup and Recovery
System startup, system failure, and debugging information
Settings
Environment Variables
OK Cancel Apply







Setting of System Properties



- 3. On [Advanced] tab, click [Settings] button of [Performance] so as to display [Performance Options].
- 4. On [Visual Effects], check the option of [Let Windows choose what's best for my computer].

Visual Effects	Advanced Data Execution Prevention	
Select the se performance	ttings you want to use for the appearance and of Windows on this computer.	ł
Let Windo	ws choose what's best for my computer	
Adjust for	best appearance	
Adjust for	best performance	
O Custom:		
 Animate Animate Enable t Fade or Fade ou Fade ou Show pr Show sh Show sh Show th 	controls and elements inside windows windows when minimizing and maximizing lesktop composition ransparent glass slide menus into view slide ToolTips into view t menu items after dicking eview and filters in folder adows under menus adows under mouse pointer umbnails instead of icons	* III *
	OK Cancel	Apply





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Setting of System Properties



For Windows XP/Windows Server 2003

- 1. Logon as an administrative user.
- 2. Choose [Control Panel] [System] from [Start] menu so as to display [System Properties].
- 3. On [Advanced] tab, click [Settings] button of [Performance] so as to display [Performance Options].
- 4. On [Visual Effects] tab, check the option of [Adjust for best performance].

Visual Effects Advanced Data Execution Prevention Select the settings you want to use for the appearance and performance of Windows on this computer.	
Select the settings you want to use for the appearance and performance of Windows on this computer.	
Let Windows choose what's best for my computer	
Adjust for best appearance	
Adjust for best performance	
O Custom:	
 Animate windows when minimizing and maximizing Fade or slide menus into view Fade or slide ToolTips into view Fade out menu items after clicking Show shadows under menus Show shadows under mouse pointer Show shadows under mouse pointer Show translucent selection rectangle Show window contents while dragging Slide open combo boxes Slide taskbar buttons Smooth edges of screen fonts 	•
OK Cancel Ap	ply





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Setting a Power Options



For Windows Vista

Settings of [Power Options] in Windows Vista are shown as follows:

- 1. Logon as an administrative user.
- 2. Choose [Control Panel] [Power Options] from [Start] menu so as to display [Power Options].







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Setting a Power Options

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- 3. Choose [High performance] from [Preferred plans]. Click [Change plan settings] at the lower part so as to display [Edit Plan Settings].
- 4. Click [Change advanced power settings] so as to display [Advanced settings] tab of "Power Options".

Courses Special	Name and Address	test training: Manual	time -		×
Control	Panel Power Option	ns 🕨 Edit Plan Settings	✓ ⁴ → Search	-	2
Change Choose t	e settings for the p ne sleep and display sett	lan: High performance tings that you want your compute	er to use.		
🕑 Turr	off the display:	Never •			
Change ;	he computer to sleep: dvanced power settings	Never			
Restore d	efault settings for this p	lan			
			Save changes	Cancel	
					E
mentation & Automation Education awa (Thailand) Ltd.	Center (IAEC)	" <u>Professional Ir</u> " CENTUN	<u>istrument Enginee</u> A VP Maintenanc	<u>er Training Program</u> e Trainin <u>g Course</u> "	" YOK




5. Under "Hard disk", set "Never" for [Turn off hard disk after].







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- 6. Set the sleep settings to Never or Off as follows:
 - "Sleep after" Setting : Never
 - "Allow hybrid sleep" Setting : Off
 - "Hibernate after" Setting : Never

Power Options
Advanced settings
Select the power plan that you want to customize, and then choose settings that reflect how you want your computer to manage power.
Hard disk ▲
Wireless Adapter Settings
E Sleep
Sleep after
Setting: Never
Allow hybrid sleep
Setting: Off
Hibernate after
Setting: Never
<u>R</u> estore plan defaults
OK Cancel Apply





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- 7. Set [Shutdown] for "Power buttons and lid" settings as follows:
 - "Power button action" Setting : Shut down
 - "[Start] menu power button" Setting : Shut down

Power Options
Advanced settings
Select the power plan that you want to customize, and then choose settings that reflect how you want your computer to manage power.
Change settings that are currently unavailable
High performance [Active]
Wireless Adapter Settings
Sleep
Power buttons and lid
Power button action
Setting: Shut down
Start menu power button
PCI Express
Processor power management
<u>R</u> estore plan defaults
OK Cancel Apply



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8. Under "Display", set "Never" for [Turn off display after].









For Windows XP/Windows Server 2003

- 1. Logon as an administrative user.
- 2. From Windows [Start] menu, choose [Control Panel] [Power Options] so as to display the [Power Options Properties].
- 3. On [Power Schemes] tab, set the followings :

Select the pow this computer. the selected se	ver scheme wit Note that char cheme.	h the most appropr nging the settings b	iate settings for elow will modify
Power schemes			
Always Un		Save As	Delete
Settings for Always On	power scheme		
Turn off <u>m</u> onitor:	Never		-
Turn off hard disks:	Never		
System standby:	Never		
System <u>h</u> ibernates:	Never		•





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4. On [Advanced], choose [Do nothing] for [When I press the power button on my computer.].

Some PC keyboards may have a sleep button, this button should be disabled.

er Schemes Advanced Hibernate UPS Select the power-saving settings you want to use.	
Select the power-saving settings you want to use.	
Iptions	- 11
Always show icon on the taskbar	
Prompt for password when computer resumes from standby	
ower buttons	
/hen I press the power button on my computer:	-
Do nothing	<u>-</u>



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5. On Hibernate tab, uncheck the option of [Enable hibernation].

ower Options Properties	? ×
Power Schemes Advanced Hibernate UPS	
When your computer hibernates, it stores whatever it has in memory on your hard disk and then shuts down. When your computer comes out of hibernation, it returns to its previous state	e.
Hibernate Enable hibernation	
Disk space for hibernation Free disk space: 21.062 MB	
Disk space required to hibernate: 1,015 MB	
OK Cancel <u>A</u> pply	





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Disable Windows Sidebar



Windows sidebar is a standard component in Windows Vista environment. However, for CENTUM VP, Windows sidebar is not be used.





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- 1. Logon Windows using a user account that the user environment to be changed.
- 2. Choose [Control Panel] [Windows Sidebar Properties] from [Start] menu so as to display "Windows Sidebar Properties".
- 3. Uncheck the option of [Start Sidebar when Windows starts] and then click [OK] button.

	tat Sidebar when Windows stats
<u> </u>	
Ari	rangement
	Sidebar is always on top of other windows
Di	splay Sidebar on this side of screen:
0	<u>R</u> ight
0	<u>L</u> eft
Di	splay Sidebar on <u>m</u> onitor: 1 💌
Ma	aintenance
	View list of running gadgets
	Restore gadgets installed with \underline{W} indows
How	v do I customize Windows Sidebar?





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For Windows Vista

Windows securities are comprehensively managed in Windows Security Center for protecting the computer from the security risks. However, for CENTUM VP, it is recommended to disable Windows security automatic updating and disable the Windows security alerts sent from the Windows Security Center.







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Disable Windows Security Alerts



- 1. Logon Windows using a user account that the user environment to be changed.
- 2. Choose [Control Panel] [Security Center] from [Start] menu so as to display "Windows Security Center".





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Disable Windows Security Alerts



3. Choose [Change the way Security Center alerts me] at the lower part of "Windows" Security Center", and then the window for changing security alerts will be displayed. 4. Choose [Don't notify me and don't display the icon (not recommended)].





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For Windows XP/Windows Server 2003

- 1. Logon Windows as an administrative user.
- 2. Choose [Control Panel] [Security Center] from [Start] menu so as to display "Windows Security Center".







Disable Windows Security Alerts



- 3. On the left hand side of [Windows Security Center], choose [Change the way Security Center alerts me] so as to display "Alert Settings" dialog box.
- 4. Uncheck all the options, and then click [OK] button.

💔 Alert Settings 🔀
\vartheta Security Center
Alert Settings
Firewall Alert me if my computer might be at risk because of my firewall settings
Automatic Updates Alert me if my computer might be at risk because of my Automatic Updates settings
Virus Protection Alert me if my computer might be at risk because of my virus protection software settings
OK Cancer







Disabling Windows Defender



Windows Defender is a software program capable of detecting and eliminating malware (malicious software such as spyware).

1. Logon as an administrative user.

2.From the Start menu, select [Control Panel] - [Windows Defender].

3. In the upper area, click [Tools]. The Tools and Settings window appears.







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Disabling Windows Defender



4. Click [Options]. The following Options dialog box appears.

Windows Defender	ome 🎾 Scan 🗸 🍊 History 🎊 Ti nalicious and unwanted software	iools 🕐 -	Windows Defender
Tools and Settings	Settings Options Choose how you want Windows Defender to run	Microsoft SpyNe Join the online c that helps identii spyware infectio	et community fy and stop ons
Tools	<u>Quarantined items</u> Remove or restore software that Windows Defender has prevented from running	Software Explore View or monitor that is running o computer	er all software on your
	Allowed items View software that you have chosen not to monitor with Windows Defender	Get more tools a security information	<u>der website</u> and the latest ition online





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Disabling Windows Defender



5. Clear the check box [Use Windows Defender], and click [Save].

Windows Defender	
💽 🌍 🐴 Home 🏓 Scan + 🥙 History 🏠 Tools 🕐 +	Windows Defender
Protection against malicious and unwanted software	
Advanced options	×
\overline{V} Scan the contents of archived files and folders for potential threats	
Use heuristics to detect potentially harmful or unwanted behavior by software that	hasn't been analyzed for risks
Create a restore point before applying actions to detected items	
Do not scan these files or locations:	
	Add
	Remove Slide down
Administrator options	
Use Windows Defender	
When Windows Defender is on, all users are alerted if spyware or other potentially u	unwanted software attempts to
run or install itself on the computer. Windows Defender will check for new definitio	ons, regularly scan the
Allow everyone to use Windows Defender	=
Allow users who do not have administrative rights to scan the computer, choose	e actions to apply to potentially
unwanted software, and review all Windows Defender activities.	
	-
	Cancel



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6. Click [Close].











Disk Defragmenter Tool can be used to reorganize the fragmented files on computer hard disk so as to improve the computer performance. By default setting of Windows Vista, the Disk Defragmenter Tool is scheduled to start periodically on 1:00 clock of Wednesday.

Since the CENTUM VP performance may be affected when defragmenter is running, so that it is recommended to disable the schedule of the periodic disk defragmentation.

- 1. Logon as an administrative user.
- 2. Choose [Start] Menu [All Programs] [Accessories] [System Tools] [Disk Defragmenter] so as to display "Disk Defragmenter" window.







Disable Scheduled Disk Defragmenter Tool



Disk Defragmenter consolidates fragmented files on your compute performance. <u>How does Disk Defragmenter help?</u>	ter's hard disk to improve system
Run on a schedule (recommended)	
Scheduled defragmentation is disabled.	Modify schedule
Last run: 3/31/2008 8:32 PM	e
Next scheduled run: Never	
Scheduled defragmentation is enabled Your disks will be defragmented at the scheduled time.	Defragment <u>n</u> ow
	OK Cancel

3. Uncheck the option of [Run on a schedule (recommended)] and then click [OK] button.







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Vnet Interface card dipswitch setting.



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Setting the Domain Number for



P (odd parity): Set in such a way that, of the 8 dip switches, the sum of those switches set to 1 becomes an odd number. MSB: Most Significant Bit LSB: Least Significant Bit









Setting the Domain Number for

Domain number			DIP s	witch	bit nu	mber		
	1	2	3	4	5	6	7	8
1	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	1	0
3	1	0	0	0	0	0	1	1
4	0	0	0	0	0	1	0	0
5	1	0	0	0	0	1	0	1
6	1	0	0	0	0	1	1	0
7	0	0	0	0	0	1	1	1
8	0	0	0	0	1	0	0	0
9	1	0	0	0	1	0	0	1
10	1	0	0	0	1	0	1	0
11	0	0	0	0	1	0	1	1
12	1	0	0	0	1	1	0	0
13	0	0	0	0	1	1	0	1
14	0	0	0	0	1	1	1	0
15	1	0	0	0	1	1	1	1
16	0	0	0	1	0	0	0	0

Domain Numbers & DIP switch Bit Positions Table

Bit setting:

020103E.ai

Turn the switch to the lower in the above figure. 0:

1: Turn the switch to the upper in the above figure.









Setting the Station Number for



P (odd parity):	Set in such a way that, of the 8 dip switches,
a 10 0000	the sum of those switches set to 1 becomes an odd number.
MSB:	Most Significant Bit
LSB:	Least Significant Bit









Setting the Station Number for

Station number	DIP switch bit number								Station	1
	1	2	3	4	5	6	7	8	number	
1	0	0	0	0	0	0	0	1	22	
2	0	0	0	0	0	0	1	0	23	
3	1	0	0	0	0	0	1	1	24	
4	0	0	0	0	0	1	0	0	25	
5	1	0	0	0	0	1	0	1	26	
6	1	0	0	0	0	1	1	0	27	
7	0	0	0	0	0	1	1	1	28	. 1
8	0	0	0	0	1	0	0	0	29	
9	1	0	0	0	1	0	0	1	30	
10	1	0	0	0	1	0	1	0	31	
11	0	0	0	0	1	0	1	1	32	
12	1	0	0	0	1	1	0	0	33	
13	0	0	0	0	1	1	0	1	:	
14	0	0	0	0	1	1	1	0		
15	1	0	0	0	1	1	1	1		
16	0	0	0	1	0	0	0	0	3	
17	1	0	0	1	0	0	0	1	60	
18	1	0	0	1	0	0	1	0	61	
19	0	0	0	1	0	0	1	1	62	
20	1	0	0	1	0	1	0	0	63	
21	0	0	0	1	0	1	0	1	64	

Station Numbers & DIP switch Bit Positions Table

Bit setting:

Turn the switch to the lower in the above figure. 0:

Turn the switch to the upper in the above figure. 1:



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Adding Control Bus Driver Vnet Card (VF701)

The procedure for adding a driver is as follows. There is no need to restart the PC. Installation is started by clicking [Control Bus Driver] button on the CENTUM VP installation menu.



Insert DVD Rom and Choose [Control Bus Driver] on CENTUM VP Installation menu.



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Procedure for Adding the Driver

- 1. Logon as an administrative user.
- 2. When Found New Hardware dialog box appears
 - In Windows Vista

If the Found New Hardware dialog box shown as follows is displayed, click [Ask me again later]. This message box will not be displayed if the control bus card is not installed.





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• In Windows XP or Windows Server 2003 If the "Found New Hardware Wizard" shown as follows is displayed, click [Cancel].





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3. Set the CENTUM VP software media into the DVD drive, the CENTUM VP installation menu will be automatically started.

4. On CENTUM VP installation menu, click [Control Bus Driver] button.

5. When the Setup confirmation dialog box is displayed, click [OK].









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6. Security Confirmation Dialog Box

In Windows Vista

Windows Security dialog boxes for installing the network device software and network adapter's driver will be shown in sequence as below. Click the [Install] button in both dialog boxes.









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 In Windows XP or Windows Server 2003 Hardware Installation dialog box appears. Click [Continue Anyway] to install. Do not click [STOP Installation].











7. When the message telling successful installation is displayed, click [OK] to finish.







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8. Display of Set Network Location Dialog Box

In Windows Vista

After installing the network driver, when the Set Network Location dialog box is displayed as follows, click [Work] on the dialog box. If User Account Control dialog box is displayed, click [Continue].



• In Windows XP and Windows Server 2003 Set Network Location dialog box is not displayed.





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Confirming that the Driver has been Installed Properly

After installing the driver, [Yokogawa Vnet Adapter] should appear under **Network Adapters of Device Manager.** If the adapter is not working properly, an exclamation mark (!) will be displayed next to the icon of the network adapter.

Do the following to display Device Manager:

- In Windows Vista Environment
- 1. Logon as an administrative user.
- 2. From Start menu, choose [Control panel] [System] [Device Manger].
- In Windows XP or Windows Server 2003 Environment:
- 1. Logon as an administrative user.
- 2. From Start menu, choose [Control panel] [Administrative Tools] [Computer Management] - [Device Manger].













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Change Local Area Connection Name

After a network driver is installed, its corresponding connection is automatically given a name "Local Area Connection".

1. From Start menu, choose [Control Panel] and then [Network and Sharing Center].





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In the above window, choose [Manage network connection], and then Network Connections window will be displayed.



Network Connections (Before Renaming)



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After the Ethernet driver and control bus drivers have been installed in the PC, each connection will be shown as Local Area Connection and Local Area Connection 2, which are difficult to identify. Therefore, rename them to Ethernet and Vnet, respectively, as shown in the figure below.



Network Connections (After Renaming)





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Set IP Addresses

Setting Properties

Before setting the IP addresses, you need to select the items for use in the properties dialog box for each network connection.

Ethernet / Vnet/IP Item Vnet Client for Microsoft Networks OK NG QoS Packet Scheduler OK _ File and Printer Sharing for Microsoft Networks OK NG Yokogawa V net Protocol NG OK Internet Protocol version 6 (TCP/IPv6) NG NG Internet Protocol version 4 (TCP/IPv4) OK OK NG Link-Layer Topology Discovery Mapper I/O Driver OK Link-Layer Topology Discovery Responder OK NG

Table Items for Use by Each Network Connection

OK: Use, NG: Not for use, -: Not installed



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Setting Properties for Ethernet

1. Select [Ethernet] from Network Connections window and open Ethernet Properties dialog box.

2. As shown in the table of "Items for Use by Each Network Connection," deselect [YokogawaVnet Protocol] and [Internet Protocol Version 6 (TCP/IPv6)].

Connect using:		
Intel(R) PRO/1	000 PL Network Conne	ection
		Configure
This connection uses	the following items:	
Client for Mic	crosoft Networks	
🗹 县 QoS Packet	Scheduler	
🗹 县 File and Print	ter Sharing for Microsoft	Networks
🗌 🔺 Yokogawa V	/net Protocol	
Internet Prot	ocol Version 6 (TCP/IP)	v6)
🗹 📥 Internet Prot	ocol Version 4 (TCP/IP)	v4)
🗹 📥 Link-Layer T	opology Discovery Map	per I/O Driver
🗹 🔺 Link-Layer T	opology Discovery Res	ponder
I <u>n</u> stall	<u>U</u> ninstall	Properties
Description		
Transmission Contr	ol Protocol/Internet Pro	tocol. The default
wide area network	protocol that provides of	communication
	reasonanted potwerke	

After setting, click [OK].



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Setting Properties for Vnet

1. Select [Vnet] from Network Connections window and open Vnet Properties dialog box. 2. As shown in the table of "Items for Use by Each Network Connection," deselect all the items except [Yokogawa Vnet Protocol] and [Internet Protocol version 4 (TCP/IPv4)].

Vnet Properties
Networking Sharing
Connect using:
🔮 Yokogawa Vnet Adapter
<u>C</u> onfigure This connection uses the following items:
□ Client for Microsoft Networks □ File and Printer Sharing for Microsoft Networks □ ▲ Yokogawa Vnet Protocol □ ▲ Internet Protocol Version 6 (TCP/IPv6) □ ▲ Internet Protocol Version 4 (TCP/IPv4) □ ▲ Link-Layer Topology Discovery Mapper I/O Driver □ ▲ Link-Layer Topology Discovery Responder
Install Uninstall Properties Description Allows this PC to be discovered and located on the network.
OK Cancel

After setting, click [OK].





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Setting IP Address for Ethernet

1. Select [Ethernet] from Network Connections window and open Ethernet Properties dialog box.

2. Choose [Internet Protocol Version 4(TCP/IPv4)] and then click [Properties].

Intel(R) PRO/1000 F	PI Network Conner	ction
	E Hotwork Connes	
his same sting upon the f		Configure
Ris connection uses the fi	ollowing items:	
Client for Microsoft	t ivetworks	
File and Printer Sh	naring for Microsoft	Networks
🗌 🚣 Yokogawa Vnet F	Protocol	
Internet Protocol	Version 6 (TCP/IPv	(6)
Internet Protocol \	Version 4 (TCP/IPv	(4)
Link-Layer Topolo	ogy Discovery Map	per I/O Driver
	by Discovery Nesp	
Install	Uninstall	Properties
Description		
	toool /Internet Pret	ocol. The default
Transmission Control Pro	solution internet Frot	and the state of t
Transmission Control Pro wide area network proto across diverse interconn	col that provides c nected networks.	ommunication



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Internet Protocol Version 4 (TCP/IPv4) Properties dialog box appears.

Internet Protocol Version 4 (TCP/IPv4)	Properties ? X
General	
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	matically if your network supports o ask your network administrator
Obtain an IP address automatical	lly
• Use the following IP address:	
IP address:	172 . 17 . 1 . 64
Subnet mask:	255.255.0.0
Default gateway:	
 Obtain DNS server address autor Use the following DNS server address 	matically dresses:
Preferred DNS server:	<u> </u>
Alternate DNS server:	· · ·
	Ad <u>v</u> anced
	OK Cancel







3. Select [Use the following IP address] and set the IP address, subnet mask, and default gateway for Ethernet as follows:

• When using the PC in the existing environment, enter the IP address currently used on the network.

• When using the PC in the new environment, set the IP address in accordance with the PC station address. The rule is as follows:

> **IP address** : 172.17.<Domain Number>.<Station Number> (*1) Subnet mask : 255.255.0.0 **Default gateway : No setting is required**

*1: Generally use this rule to set the IP address. However, other IP address can also be used.

After setting, click [OK]. There is no need to restart the PC after setting the IP address.









Setting IP Address for Control Bus

1. Select [Vnet] from Network Connections window and open Vnet Properties dialog box.

2. choose [Internet Protocol Version 4 (TCP/Ipv4)] and click [Properties].

Connect using:	
P Yokogawa Vne	et Adapter
	Configure
This connection uses	the following items:
Client for Mic	prosedt Networks
File and Print	ter Sharing for Microsoft Networks
V 🔺 Yokogawa \	/net Protocol
Internet Prot	cocol Version 6 (TCP/IPv6)
Internet Prot	ocol Version 4 (TCP/IPv4)
🗌 🛶 Link-Layer T	opology Discovery Mapper I/O Driver
🔲 📥 Link-Layer T	opology Discovery Responder
	Ininstall Despection
Install	
I <u>n</u> stall	
Description	
Description Allows this PC to be	e discovered and located on the network.
Install Description Allows this PC to be	e discovered and located on the network.
Install Description Allows this PC to be	e discovered and located on the network.
Install Description Allows this PC to be	e discovered and located on the network.





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3. Select [Use the following IP address] and set the IP address, subnet mask, and default gateway for the control bus. Set the IP address in accordance with the PC station address. The rule is as follows:

> : 172.16.<Domain Number>.<Station Number> **IP address** Subnet mask : 255.255.0.0 **Default gateway : No setting is required**

Internet Protocol Version 4 (TCP/IPv4) Properties
General	
You can get IP settings assigned auto this capability. Otherwise, you need for the appropriate IP settings.	omatically if your network supports to ask your network administrator
Obtain an IP address automatic	ally
• Use the following IP address: -	
IP address:	172.16.1.64
Subnet mask:	255.255.0.0
Default gateway:	• • •
Obtain DNS server address auto	omatically
• Use the following DNS server ad	dresses:
Preferred DNS server:	
Alternate DNS server:	
	Ad <u>v</u> anced
	OK Cancel





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Set Bindings

The Ethernet should be placed at a higher priority than the Control Bus (Vnet).

1. From [Advanced] menu on Network Connections window, choose [Advanced Settings] to open Advanced Settings dialog box.







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2. Use the upward or downward arrow next to the Connections box so as to change the Ethernet to the higher position than Control Bus(Vnet).

Advanced Settings	×
Adapters and Bindings Provider Order	
Connections are listed in the order in which they are accessed by network services.	
Connections:	
Ethemet <u>Unet [Remote Access connections] [Remote Access connections] [Remote Access connections] [Remote Access connections] </u>	
	·
Bindings for Vnet:	
File and Printer Sharing for Microsoft Networks	
Internet Protocol Version 4 (TCP/IPv4)	
Internet Protocol Version 6 (TCP/IPv6)	1
Client for Microsoft Networks	
Internet Protocol Version 4 (TCP/IPv4)	
Internet Protocol Version 6 (TCP/IPv6)	
ОК	Cancel

3. After setting the priority of Ethernet higher than the control bus, click [OK] to finish setting of bindings. After changing the bindings, there is no need to restart the PC.

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Installation of Vnet/IP Open Communication Driver Vnet/IP Card (VI701)

The procedure for adding a Vnet/IP open communication driver is as follows.



Figure Flow of Adding Driver

Choose [Vnet/IP Open Communication Driver] on CENTUM VP Installation menu.

CENTUM Vp







Procedure for Adding the Driver

1. Logon as an administrative user.

2. As you install the VI701 card, the Found New Hardware dialog box shown as follows may be displayed for 3 or 4 times (if the control bus driver is already installed, the message box will be displayed for 3 times.). In these cases, always click [Ask me again later].







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 Set the CENTUM VP software media into the DVD drive, the CENTUM VP installation menu will be automatically started. (If the installation menu is not automatically started, use Windows Explorer to find CENTUM Setup.exe program under the top folder of the CENTUM VP software media and then double click the program to run it.)
 On CENTUM VP installation menu, click [Vnet/IP Open com driver] button.
 When the setup confirmation dialog box is displayed, click [OK].











6. When Windows Security dialog box is displayed, click the [Install] button.



7. When the message telling successful installation is displayed, click [OK] to finish.







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8. When Program Compatibility Assistant dialog box is displayed (Windows Vista only), click [This program installed correctly].

The dialog box will be closed and the installationprocedure is completed.











Confirming that the Driver has been Installed Properly

Do the following to display Device Manager:

- In Windows Vista Environment
- 1. Logon as an administrative user.
- 2. From Start menu, choose [Control panel] [System] [Device Manger].
- In Windows XP or Windows Server 2003 Environment:
- 1. Logon as an administrative user.

2. From Start menu, choose [Control panel] – [Administrative Tools] – [Computer Management] – [Device Manger].





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Controller Bus Vnet/IP Bus2 [IP Address]



Setting IP Address for Control Bus

1. Select [Vnet IP Open Bus2] from Network Connections window and open Vnet Properties dialog box.

2. choose [Internet Protocol Version 4 (TCP/Ipv4)] and click [Properties].

3. Select [Use the following IP address] and set the IP address, subnet mask, and default gateway for the control bus. Set the IP address in accordance with the PC station address.

The rule is as follows:

IP address : 192.168.<128+Domain Number>.<129+Station Number> Subnet mask : 255.255.255.0 **Default gateway** : No setting is required









Type of installation

New Installation

Initially installs CENTUM VP software in a computer. Key code for CENTUM VP is required for this installation.

• Version Up Installation

Upgrades CS 3000 software on a computer to CENTUM VP. Key code for CENTUM VP is required for this installation.

• Revision Up Installation

Upgrades CENTUM VP software on a computer with minor changes. If no package is added, Key code for CENTUM VP is not required for this installation.

• Upgrade Installation from CS 1000

Upgrades CS 1000 software on a computer to CENTUM VP. Key code for CENTUM VP is required for this installation.

Add Installation

Adds software packages to a computer installed with CENTUM VP software. A medium containing CENTUM VP software in the same version as the one on the PC is required.









Preparation



Keycode Files / System ID License (floppy disk/s) Media code: LHSCM30



Centum VP Software Medium (DVD-ROM) Media code: LHSKM30 And For installation driver of Vnet interace card





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Preparation

- Have the following items at hand for installation.
- CENTUM VP Software Medium (Medium model code: LHSKM30): 1 piece
- CENTUM VP Software key code FDC (Medium model code: LHSCM30)
- CENTUM VP Project ID License (LHSPJT1/LHMPJT1)
- External DVD-ROM drive (when there is only CD-ROM drive in the PC)
- Other necessary Software for CENTUM VP operation

Adobe Acrobat, Microsoft Office, etc

Confirm free space in disk drive

- CENTUM VP software is installed in the following folder in a disk drive. Confirm that the disk drive has enough space for installing the software.
- Folder specified by Installer (as the destination)("[system drive]\CENTUMVP" in default)
- Folder for program (Environmental variable "%ProgramFiles%")
- Folder containing application setup data(Environmental variable "%CommonApplicationData%")







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New Installation

New installation means initially installing CENTUM VP software on a computer. For this type of installation, you need CENTUM VP key code. In a New installation, CENTUM VP system software and CENTUM VP electronic documents are installed.

New Installation procedure

- 1. Login as an administrative user.
- 2. Exit all running programs including resident programs such as anti-virus software before you start installing CENTUM VP software.
- 3. Insert the CENTUM VP key code FD into a floppy disk drive.
- 4. Insert the CENTUM VP software medium into a DVD-ROM drive.

CENTUM VP Installation Menu appears. If it does not appear, double-click "CENTUMSetup.exe" in the top folder in the software medium using Explorer. CENTUM VP Installation Menu appears.











5. Click [CENTUM VP Software] on the CENTUM VP Installation Menu. Installation of CENTUM VP software starts.





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6. If Microsoft .NET Framework 3.0 and MSXML 6.0 SP1 are not in your computer, a setup program for the two automatically starts with the following dialog box. Click[Install]. InstallingMicrosoft .NET Framework 3.0 and MSXML 6.0 SP1 starts. If Microsoft .NET Framework

3.0 and MSXML 6.0 SP1 are already in your computer, go to the next step.

۲	OKOGAWA CENTUM VP requires that the following requirements be installed on your
د	computer prior to installing this application. Click Install to begin installing these
۲	equirements:
Status	Requirement
Pending	Microsoft .NET Framework 3.0
Pending	MSXML 6.0 SP1
,	[Install Cancel



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The following dialog box appears showing Microsoft .NET Framework and MSXML arebeing installed.

re	quirements:
status Installing Pending	Microsoft .NET Framework 3.0 MSXML 6.0 SP1
stalling M	licrosoft NET Framework 3.0





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Preparing to Install dialog box (for CENTUM VP) appears.







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7. The Welcome to the InstallShield Wizard for YOKOGAWA CENTUM VP dialog box appears. Click [Next].







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- 8. Choose Destination Location dialog box appears. Default is set to "[System drive]:\CENTUMVP".
- If you select the default destination, click [Next].
- If you want to change the destination, click the [Browse] button and select a folder. Click [Next].

hoose Destination Loca Select folder where setup	will install files.
Setup will install YOKOGA	WA CENTUM VP in the following folder.
To install to this folder click Browse and select a	, click Next. To install to a different folder, nother folder.
Please specify the instal	lation path without space characters.
Destination Folder	
Destination Folder C:¥CENTUMVP	B <u>r</u> owse
Destination Folder C:¥CENTUMVP allShield	B <u>r</u> owse
Destination Folder C:¥CENTUMYP allShield	B <u>r</u> owse K Back Next > Cancel





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9. CENTUM VP User Register dialog box appears. Enter user name and company name respectively. Click [Next].

COGAWA CE	NTUM VP - InstallSh	ield Wizard			
ENTUM VP	User Register	Æ	EENTL	MIA	
User Regis	ster of CENTUM VP				
Input Nam	me and Company				
Name	CENTUMYP				
Company	Yokogawa				
allShield ——		< Back		Cancel	
		L Back			
					E





10. Input ID number dialog box appears.Enter an 8-digit Project ID, and click [Next].

OKOGAWA CENTUM VP - InstallSh	ield Wizard	×	
Input ID number	G	тим Ир	
Input ID number. ID number i	s displayed in Project ID lice	ense.	ID: 0CS3K3652395 Model: LHSDM01 User: Yokogawa
ID			ан
nstallShield			









11. The following dialog box appears after the computer finishes loading the key code from the key code FD.

- If you have more than one key code, insert the next FD and click [Yes].
- If you have only one key code, click [No] and move on to the next step.











12. Package List dialog box showing a list of packages to be installed appears. Confirm the packages and click [Next].

Package List	EENTUM
Package to i	install is as follows.
LBC1210 St LBC1220 St LBC1230 St LBC1260 St LFS1000 Co LFS1020 Co LFS1120 Co LFS1120 Co LFS1130 Co LFS1330 Co LFS1330 Co LFS1350 Co Market St LFS1350 Co	tandard Bus Converter Function (For HF bus-Vnet) tandard Bus Converter Function (For RL bus-Vnet) tandard Bus Converter Function (For Vnet-Vnet) tandard Bus Converter Function (For VLnet-Vnet) ontrol Function for Standard Field Control Station (for PFC» ontrol Function for Enhanced Field Control Station (for PFC» ontrol Function for Standard Field Control Station(for RIO) ontrol Function for Compact Field Control Station ontrol Function for Enhanced Field Control Station ontrol Function for Enhanced Field Control Station ontrol Function for Enhanced Field Control Station(for RIO) ontrol Function for Enhanced Field Control Station(for FIO) ontrol Function for Enhanced Field Control Station(for FIO) ontrol Function for Compact Field Control Station(for FIO) ontrol Function for Compact Field Control Station(for FIO)
	< Back Next > Cancel





- 13. Set up Operator keyboard dialog box appears.
- If you use an Operator Keyboard,

select the check box [Use Operator keyboard], enter COM Port No., and click [Next].

• If you don't use an Operator Keyboard,

clear the check box [Use Operator keyboard] and click [Next].

Set up Operator keyboard	CENT	UMU/P
🔲 Use Operator keyboar	rd	
Port No.	•	
InstallShield		
	< Back(B) Next(N) >	Cancel

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14. Setup referenced database dialog box appears. Enter the name of a computer containing project database and click [Next].



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15. If a Report package (LHS6530) is in your computer, the following dialog box appears. Click [OK].



16. If control bus driver is not installed in your computer, the following dialog box appears. If you use only Test function on a stand-alone computer, no control bus driver is required. Click [OK].





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Installation Centum VP Software



17. Start Copying Files dialog box showing User Information, ID number, Package List appears for you to confirm the settings before copying files. Confirm them and click [Next]. Installation starts.

t art Copying I Review settings	F iles before com	pying file	s.	E	EE	NTU	MV/	
Setup has enoug want to review with the settin	h informat or change : gs, click	ion to sta any settin Next to be	rt c gs, gin	opying the click Back copying fi	program . If you les.	files. are sa	If you tisfied	
Destination Fo User Informatio ID number :	lder: C:¥CENTUM on:: Name: C Company: XXXXXXX0	ivp Entumvp Yok	(OGA)	¥A				
Fackage List.	LBC1210 LBC1220	Standard Standard	Bus Bus	Converter Converter	Function Function	(For H (For R	F bus-V L bus-V -	-
illShield				< <u>B</u> ack	Next		Cancel	



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CENTUM VP software is installed. Installation progress bar appears.

YOKOGAWA CENTUM VP - InstallShield Wizard	X
Setup Status	N
YOKOGAWA CENTUM VP is configuring your new software installation.	
Copying new files	
InstallShield	
	Cancel





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Installation Centum VP Software



18. When the installation completes, the InstallShield Wizard Complete dialog box appears. Click [Yes, I want to restart my computer now.] and Click [Finish]. Installation completes.







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After installing the CENTUM VP software, the strengthened security settings need to be defined for the PC. CENTUM VP IT securities can be defined on Security Setting Utility that can be started by clicking [Setting Security] on CENTUM VP installation menu. The security settings can be automatically defined by simply following the guidance.

Security Setting Utility

Security Setting Utility is used for setting the IT security of PC components in which the CENTUM VP software is installed.









Using Security Setting Utility

The Security Setting Utility can be started by clicking [Setting IT Security] in the CENTUM VP installer menu.

- 1. Insert the CENTUM VP software medium into the DVD drive.
- 2. Click [Setting IT Security] button to start IT security setting.

CENTUM SETUP		
SAK	CENTUM VP Software	RS driver for Console HIS
	Setting IT Security	CS 1000 Project DB conversion
	Control Bus Driver	
	Vnet/IP Open com driver	
EENTUM.	USB driver for OPKB	
		Close



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3. When Security Setting Utility starts, click [Next] to continue.





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4. The dialog box for selecting the security type will be displayed. After selecting a security type appropriate for your application, and then click [Next] to continue.

Security Setting Utility - Type of securit	ty configuration	
Please select the type of network you wish	to configure.	
O Domain : Set the security for Domain U	ser Management. (Standard Mo <mark>de</mark> l)	
Standalone : Set the security for Work	group Management. <mark>(</mark> Standard Model)	
○ Set the security the same as CS3000. ((Legacy Model)	
	Back Next	Cancel



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5. If you select [Standalone: Set the security for Workgroup Management. (Standard Model)] on the PC that belongs to a Windows domain, the following dialog box is displayed. Click [OK] to continue.







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6. Three categories of security settings are shown.

You can choose the security settings only for what you need on this PC. However, it is recommended to choose all the items.Click [Set] button to execute the security setting.

Security Setting Utili	y - Setup of Secu	rity			
Setup of security on this	computer.				
ET Annua Ca	te al				
J♥ Access Co	UT OI				
DCOM Set	ing				
Firewall Se	ting				
		······			
		Back	Set	Cancel	
]	CENTURA
					LENIUM



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Creation of User account



By the IT Setting Security, the Access permission to the data or program installed in CENTUM VP and the Access permission to the project database will be limited by the account or the group.

The procedure for creating user accounts on the PC is as follows:

1. Logon as an administrative user.

2. From Start menu, choose [Control Panel]-[Administrative Tools]-[Computer Management] so as to display Computer Management window.





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Creation of User account



3. Choose [System Tools]-[Local Users and Groups]-[Users]. 4. Choose [Action]-[New User] so as to display New User dialog box. Refer to the following example and add the new user to CTM_OPERATOR group as "OPERATOR01."

<u>U</u> ser name:	OPERATOR01
<u>Full name:</u>	
Description:	
Password:	•••••
Confirm passwor	d: ••••••
User <u>m</u> ust ch	ange password at next logon
User cannot	change password
Password net	ver expires
Account is dis	sa <u>b</u> led
Help	Create Close



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5. Choose the newly created user and click the [Add] button on [Member of] tab.

OPERATOR01 Properties
General Member Of Profile
Member of:
A Users
Changes to a user's group membership
Add Remove are not effective until the next time the user logs on.
OK Cancel Apply Help









6. Choose a proper user group for the newly created user. The users belong to the administrative groups (CTM_MAINTENANCE, CTM_ENGINEER_ADM, CTM_MAINTENANCE_LCL), should also be defined as a member of the Administrators group.

elect Groups	? ×
Select this object type:	
Groups	Object Types
From this location:	
HIS0163	Locations
Enter the object names to select (examples):	
HIS0163\CTM_OPERATOR	Check Names
<u>A</u> dvanced	OK Cancel
AN 100 100 100 100 100 100 100 100 100 10	









7. Check if the user is added as a member of the group.

General Member Of Profile
Member of:
ETM_OPERATOR
Changes to a user's group membership
Add <u>Remove</u> are not effective until the next time the user logs on.
OK Cancel Apply Help





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Confirm network wiring.



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Confirm network wiring.









Check Network

Successful



C:\>ping <IP Address>

Command Prompt	_ 0
Microsoft(R) Windows NT(TM) (C) Copyright 1985-1996 Microsoft Corp. IP Address	
C:>>ping 172.17.1.23	
Pinging 172.17.1.23 with 32 bytes of data:	
Reply from 172.17.1.23: bytes=32 time<10ms TTL=128 Reply from 172.17.1.23: bytes=32 time<10ms TTL=128 Reply from 172.17.1.23: bytes=32 time<10ms TTL=128 Reply from 172.17.1.23: bytes=32 time<10ms TTL=128	
C:\>_	

Unsuccessful

😤 Command Prompt	
Microsoft(R) Windows NT(TM) (C) Copyright 1985-1996 Microsoft Corp.	
C:\>ping 203.155.1.23	
Pinging 203.155.1.23 with 32 bytes of data:	
Destination host unreachable. Destination host unreachable. Destination host unreachable. Destination host unreachable.	
C:\>_	





Field Control Station (FCS) IP Address



Check Domain and Station before off-line download.







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Field Control Station (FCS) IP Address



Check Domain and Station before off-line download.



Figure Processor Module Overview : FFCS





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OFF LINE DOWNLOAD TO FCS





! All function of FCS will be stop.







Windows setup. 1.

- Computer Name and Workgroup
- -Virtual Memory
- Setup display properties
- power options
- 2. Installation Ethernet driver and set IP address.
- 3. Installation Vnet driver(Control Bus) and se IP address.
- Installation of CentumVP software and electronic manual. 4.







A Yokoggwa Commitment to Industry Laboratory – Running project on FCS and downloading to the HISs vigilance.

- 1. Click Start -> Programs -> YOKOGAWA CENTUM -> Project Attribution Utility.
- 2. **Register Training as current project and exit. (Create new project for download)**
- 3. Click Start -> Programs -> YOKOGWAWA CENTUM -> HIS Utility.
- 4. Check Activate HIS when you Logon and click OK.
- 5. Log-off the windows and log-in the windows again.
- Start the FCS. 6.
- 7. Login-in as ENGUSER
- **Click on Window Call Menu and select Activate System View** 8.
- 9. Select FCS0101.
- Click Load -> Download Project Common Section 10.
- Click Load -> Offline Download to FCS -> Download 11.
- Select HIS0164 -> Load -> Download to HIS 12.
- 13. Repeat Step 12 for the rest of the HISs











END OF PRESENTATION

Thank you for your attention



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Note...







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