

I'm not robot!

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Course Description

This course consists of lectures, demonstrations, laboratory exercises, and question and answer sessions designed to familiarize the student with the features, operation, and maintenance of the CENTUM VP system.

Duration

4 days / 2.6 CEUs

Objectives/Outcomes

Upon completing the course, the learner will be able to exhibit the ability to:

- o Perform preventative maintenance procedures
- o Apply proper diagnostic and troubleshooting techniques using system displays
- o Use system operations to set up trend displays and call up historical data

Intended Audience

All persons tasked with maintaining the CENTUM VP system.

Course Prerequisites

None

Technical Requirements

- o Basic file/folder manipulation in a Windows environment

Materials

Each learner will be provided with the appropriate course workbook.

Evaluation Methods

- o Laboratory exercises
- o Question and answer sessions

Requirements to Be Awarded CEUs

- o Submit completed course Registration Form
- o Fulfill financial obligations
- o Fulfill the 90% attendance requirement by signing-in each day of facilitated course
- o Fulfill the 70% or above overall scoring requirement on labs and projects

CENTUM VP
System Overview Specification Document

ISD-MSDP-00700

● General
CENTUM VP is the first industrial DCS of Yokogawa control system with better information visibility, performance, control and monitoring ability.
This document covers the specifications of the system overall, components, and modules of the CENTUM VP system.
For more details, please refer to the related specification files.



CENTUM VP

ISD-MSDP-00700 Ver. 4.1.2008

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General Specifications

Model NT302AJ
Trend Package



GS 34P02H02-01E

GENERAL

The NT302AJ trend package acquires values of held in control objects from a data server at a fixed interval and graphics changes in the values (trend graph) on the screen. With the package, it is possible to create 1) a real-time trend graph whose data is automatically updated, 2) a historical trend graph that represents data stored in a long-term archive file, and 3) a batch trend graph for which data acquisition is started or stopped according to external commands. The trend package consists of:

- historical data (*1) acquisition function;
- trend graph display function;
- historical data access function; and
- ASTMAC Historical Data Converter.

*1: A collection of property values acquired at a fixed interval from a control object.

OPERATING ENVIRONMENT

The system requirements follow those required for VDS specified in VDS Versatile Database Server Software, GS 34P02A03-01E, or for the ASTMAC base type specified in ASTMAC Overview, GS 34P02A03-01E.

*1: ASTMAC is Japanese domestic market only (Not sales for overseas).

FUNCTION SPECIFICATIONS

● Configuration of Trending Function

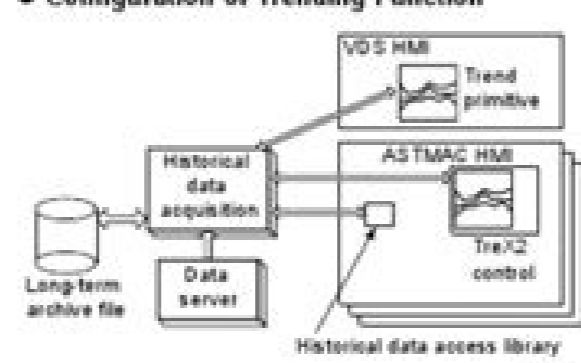


Figure Configuration of Trending Function

● Historical Data Acquisition Function

The historical data acquisition function acquires the property values of control objects from a data server at a fixed interval, according to the definitions of acquisition format, sampling period, acquisition time and deadband limits shown in the following table.

- Data to be acquired: Property values (numerical) of control objects in data server
- Number of maximum history blocks: 32
- Number of groups within history block: 4
- Number of objects within history group: 8
- Maximum number of history objects per system: 1024 tags (= 32 blocks X 4 groups X 8 tags)
- Sampling period (*1): 1 to 86400 sec. (where the period must be a divisor of 86400)
- Acquisition time: 60 to 86400 sec.
- Long-term storage: Possible with long-term archive files
- Acquisition format: Continuous type/rotary, batch type/auto-stop, batch type/rotary, and non-acquisition type
- Type of acquired data: Double precision real number
- Deadband limits: The range for which changes in data are ignored can be set in units of 0.1%
- Guaranteed data simultaneity: Ensured within a history block.
- Acquisition delay: Selectable between -1 period and +1 period (unit: ms).

*1: The sampling period can be set to 10 sec or below for up to 10 history blocks only.



CENTUM VP function blocks

Articles about the project

news Contacts

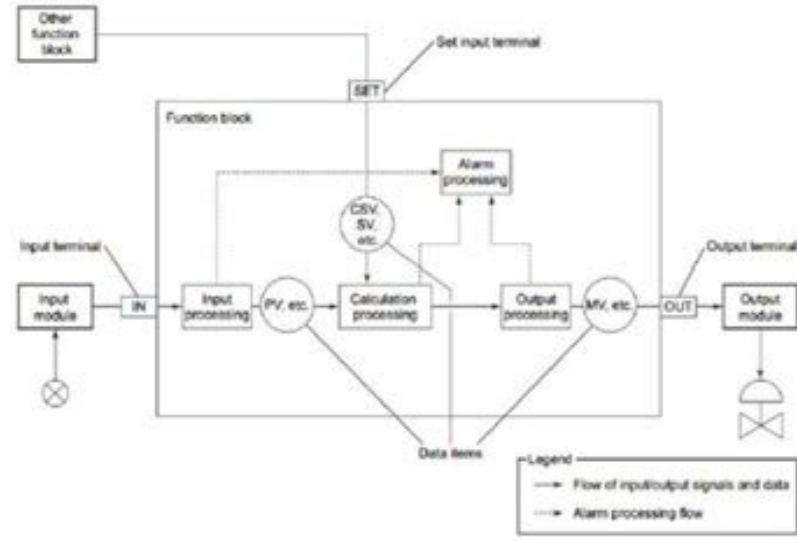
Peter

Posted on 1/26/2018

[All articles of the YOKOGAWA sector](#)

Functional blocks

Function Block Structure



Input processing
Convert the input signal to the process variable PV.

Output processing
Convert the calculated value to the output variable MV.

Alarm processing
The detected process errors are reflected in the Alarm Status and displayed as messages to the operator.



CENTUM VP Fundamentals - Training

Course Code	1001
Course Title	Yokogawa DCS Fundamentals - Training
Course Description	This course provides a comprehensive overview of the Yokogawa DCS system, covering the basic structure and components of a technical definition of DC. It is designed for operators and engineers who are new to the system.
Course Objectives	By the end of this course, participants should be able to understand the basic structure and components of a technical definition of DC, and be able to apply this knowledge to the operation and maintenance of the system.
Course Content	<ul style="list-style-type: none"> Introduction to the Yokogawa DCS system Basic structure and components of a technical definition of DC Operation and maintenance of the system Troubleshooting and fault diagnosis
Course Duration	2 days
Course Location	Yokogawa Training Center
Course Fee	1000 USD
Course Contact	Yokogawa Training Center

In this article, we are going to present a very popular distributed control system, Yokogawa DCS Centum vice president. Before deepening the vice president of Yokogawa Centum, let's take a bustling look at the basic structure and the components of a technical definition of DC. By definition, a DCS is a computed control system with multiple automal controllers that operate and control many control loops. A DCS does not have a centralized supervisory control and, therefore, the name distributed control. The field devices are connected to I/O mines located in cabinets together with the controllers. The controllers are in network using many communication protocols such as Ethernet, Modbus or a patented protocol. There are operator stations located in a centralized control room, or some may be located elsewhere. Operator stations provide access to plant operators to observe and adjust plant conditions in real time. An HMI Engineering Station is in an area only accessible to programming of real control lines for any of the many control loops. Yokogawa is a Japanese industrial company that began with the manufacture and sales of electric meter in 1915. Yokogawa introduced its first cÉntum dcs in 1975. Centum V and Centum-XL followed in the day of 1980. Centum Cs and CS 3000 were introduced in 1990. The Centum CS 3000 lane continued in the day of 2000, which was also the day where the Sis Prosafe -rs was introduced. The current version is the 6 version that was introduced in 2014. Ok ... we are going to take a look at the general architecture of the Centum vice president system. Yokogawa refers to an HMI like his (human interface station) of him. It is mainly used for operations, but additional stations for engineering can also be configured. Field Control Station (FCS) provides real control of the plant process. All of the process information is placed on the control network called VNET/IP. All Centum devices are connected to VNET/IP VNET/IP ocin²A senoicunuf 46 ed BSU odalct nU .subiforP o TRAH n²Aicacinumoc noc solleuqa omoc setnegiletni sovitisopsid ed sacits²Angaid sedadicapac ed osu le etimrep MRP .reganaM tessA erawfos ed eteuqap le se)MRP(seralotiF sosruceR ed rodartsinmdA IE .etnallirb ajnaran roluc nu nos SR-efaSorP ametsis led setnenopmoc sol sodoT .ocin²A adilas ed olud²Am y acin²A adartne .rodalortnoc olos nu noc odautnup nat SE .80516 CEI rop odinifed 3LIS dadiruges ed dadirgetni ed levn la atsujia es eug)SIS(dadiruges ed sotnemurtsni noc ametsis nu se SR-efaSorP .der ed adilas/adartne al atneserper eug OIN somamall eug ol a o O/I solud²Am sol a .Aratenoc es n²Aibat dadinu aL odoN led zafretni aL .rotpurretni nu nereiuqer on y)UCF(opmac ed lortnoc ed dadinu al ne n²Aicacinumoc ed solud²Am ed s²Avart a esratcenoc neduep IJUNI ocitp²A odon ed zafretni ed sedadinu saL .selanac 61 .Am02 a 4 ed odalsia olud²Am nu se 3411AA golanA olud²Am le .olpmeje roP n²Aicacinumoc y latigid .golanA ed solud²Am neyulcni O/I solud²Am sol .JOIF(opmac ed adilas y adartne ed solud²Am sol y rodalortnoc le .aAgrene ed ortsinimus le eneitnoc)SCF(opmac ed lortnoc ed n²Aicatsa anU .soimnod sol ertne n²Aicacinumoc al arap azilitu es WS3L rotpurretni nU .senoicats 46 renet eduep oimnod adaC .2 s²Abotua le y 1 s²Abotua led sodarapes sederbus sod artseum son PI/tenV oimnod la anacrec s²Am adarim anU .spbG 1 ed n²Aicacinumoc ed dadicolev anu a arepo PI/tenV .oenacse nis odaelbac ed rap ed o acitp²A arbil ed selbae res neduep PI/tenV n²Aisimsnart ed soidem sol .2 apac ed rotpurretni nu se WS2L .olpmeje roP .apac ed serodatunmoc etnaidem azilaer es der ed rodatumnoc IE .sorto y PI/tenV sedadina .PCT/subdoM sedadina .sUTR subdoM omoc der ne sodasab sametsisibus ed dadeirav anu noc eugimnoc es PV MUTNEC eug odnelimrep .zafretni anu omoc a²Alca)SGU(adacifnu atrep ed n²Aicatsa aL .PI/tenV der al a odatenoc y odalatsni i²Atse n²Aibat SR-efaSorP odamall SIS nu .oirasecen se is available for the CENTUM VP system. The Automation Design Suite is Yokogawa's engineering software. Plant graphics are easily created for Operator HIS terminals. Here is an example of an HIS Operator view. The chart shows pressure awagokoY,PV mutneC erawfos le ne rosimsnart oevun nu somerarugifnoc AuqA .lortnoc ed ametsis le neyubirtsid es SCD ed arutaiverba aL .PV mutneC awagokoY ed SCD ametsis le ne)rosimsnart(acig²Alana adartne al ed n²Aicargifnoc al rech om²Ac somerednerpa .olucAtra etse ne n²Aicazitamotua ed oreinegnI .olucAtra etse atrapmoc ?n²Aicamrofni atse ed etrap rasu aArdoP²A ?SCD y CLP ertne acinerifed al se I²AuC²A ?)odiubirtsid lortnoc ed ametsis(SCD se @AuQ²A - ~a eA .SCD awagokoY ed n²Aisnerpmoc rojem anU renet arap .ocheh ah ol on ay is .sodanoicaler solucAtra setneugis sol racifirev somademoceR .awagokoY ed aAreinegni ed erawfos le se n²Aicazitamotua ed ozAesid ed otunujoc IE .setnegiletni o setnegiletni sovitisopsid ed ocits²Angaid ed sedadicapac sal atilicaf eug reganaM tessA ed erawfos ed eteuqap le se)MRP(satnalP ed sosruceR ed etnereG IE" .der atse a sodatenoc n²Atse sovitisopsid sol y mutneC sol sodot y PI/TENV adamall lortnoc ed der al ne acoloc es osecorp led n²Aicamrofni al adoT" .odacifngis us ed anamuh zafretni ed n²Aicatsa anu omoc IMH adca a ereifer es awagokoY .opmac ed adilas/adartne ed solud²Am sol y rodalortnoc le .n²Aicatnemila ed etneuf al eneitnoc y atnalp al ed osecorp led laer lortnoc le anoiroporp)SCF(opmac ed lortnoc ed n²Aicatsa aL .PV .mutneC se lautca aingisni eugub ed n²Aisrev us y 5791 ne SCD mutneC remirp us ojodortni awagokoY "socirtc²Ale serodidem odmeidnev ²Aznemoc odnauc 5191 edsed rodedlerla odatsa ah awagokoY" .oditucsid omehne eug oi somimuseR ... kO .selanac 61 eneit eug H-3411AA nu se OIF acig²Alana adartne ed olud²Am IE .105TL levin ed rosimsnart le arap solih 2 ed n²Aicargifnoc al artseum eueclub ed amargaid led etrap anu somiulcni .iAla s²Am osap nu odneY .225VX aluiv²Av al y levin ed rodalortnoc le artseum odacifngis DI & P nU .225VX aluiv²Av anu arepo rodalortnoc led adilas aL .launam ne ecelbatse es y %0 la artseum es 105CIL levin ed rodalortnoc nU .etneipicer nu ne jg(rab 0 ed Tutorials)You need to have some details before configuring a new transmitter in the DCS system.First, you need the details of the Analog Input Card where you are going to connect the new transmitter.Also, you need the location details of this analog input card in the system cabinet like FCS number, IOM details, Node number, and then AI card slot number.You can get the details from the Nest Loading list.Also Read: What is Nest Loading List?DCS Configuration of Analog Input (Transmitter)The below animation will help you to understand the configuration procedure of a new flow transmitter in the Yokogawa DCS.Follow the below steps to configure a new transmitter in DCS.Step 1: Open Field Control StationOpen the System View software.You may have one or more number of FCS (Field Control Station) in your plant.Go to the required FCS where you want to add a new transmitter. The FCS selection depends on your plant area and the location of the new transmitter. Check your plant control system documents for more details.Step 2: Go to IOMNext, go to the IO module page in the selected FCS.You have to expand the FCS folder and again expand the IOM folder.Step 3: Go to NodeNext, you have to go to the respective node where the AI module is installed.You can get the details of FCS, IOM, Node location details from the Nest Loading list.Step 4: Go to Analog Input CardNext, select the analog input card (AA1841-H) and open it.The location AI card details can be found in your plant nest loading list.Step 5: Configure New TagNext, you have to add the tag name in the respective AI module channel.Here the tag syntax is eAAA%111FT1101eAAAThen go to file and download.Step 6: Go to Function Block BuilderNow go function block builder for creating the faceplate of the new tag.Step 7: Select the Control DrawingOpen the respective control drawing builder or choose any empty drawing.Step 8: Open the Control DrawingHere, we selected a new control 9: Insert the block function, click on the screen and select the "INSERT" option and then click "Function Block" Step 10: Insert Pio Blockhere Select the "Pio" block from the Caida "Men below. 11: Enter the new tag in Pio BlockNow we have to enter the same name of the label in the PIO block. In this example, our label is %11111101Step 12: Click with the right boton and select Function block we need another block of Functions. For the facial plate. Step 13: Select PVI Blockgo in the men's and look for the PVI block. After discharge 15: Inter tag tag in PVI Blocknow we have to add a name for the PVI block. In this example, we call the label "111FT101. This label name is used for the front plate. Blocks and PVI are created. We need these two blocks by adding a new transmitter for monitoring purposes. Step 17: Connect the Pius and PVI B Blocks Select the cable from the upper men's and connect the PIO and PVI blocks as shown in the image below. Step 18: Click on the right bottle in PVI Blocknow we have to add the details of the new transmitter in the DCS system. PVI Block. Step 19: Select Detailed Edit Select the option "Detail Edit". Step 20: Enter the transmitter (label) description will not open a new window and it is called "Details of the functions block". In this. Window, you can find different tabs such as basic, label, input, alarm, exit, connection, others. In the basic tab, you can enter its description of the front plate in the "comment" "Step 21: Enter the transmitter (label) range in DCSNEXT, go to the" increase "tab. 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