

ADVANCED EDS · STUDIO 5000

Same drive. Same PLC. Zero AOlS.

Danfoss is bringing native-style VFD integration to Rockwell's Studio 5000 - and it starts the second you add the drive to the I/O tree.

BEFORE



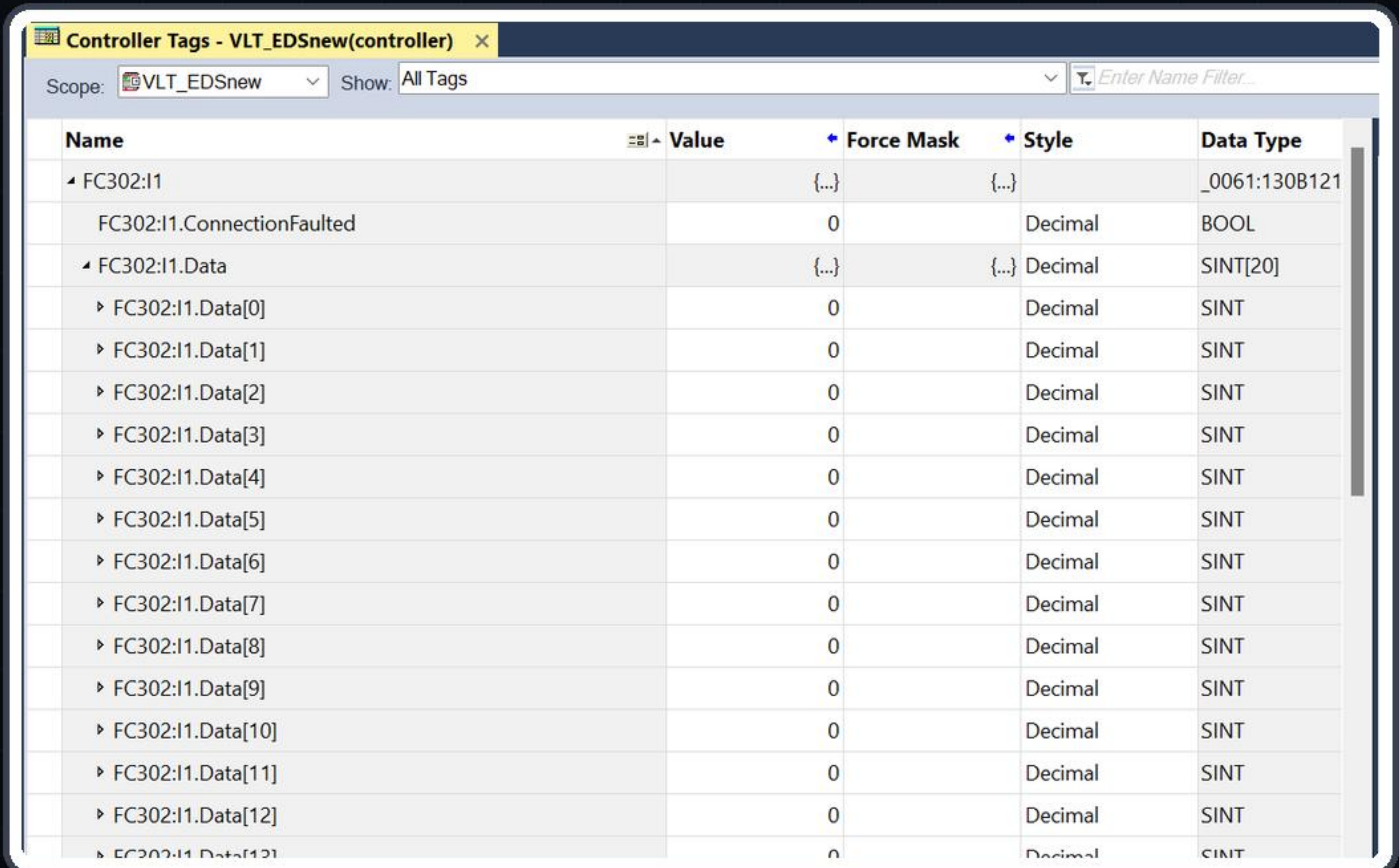
AFTER

SWIPE →

BEFORE • STANDARD EDS

20 anonymous bytes.

This is what a generic EDS gives your controller.



Name	Value	Force Mask	Style	Data Type
FC302:I1	{...}		{...}	_0061:130B121
FC302:I1.ConnectionFaulted	0		Decimal	BOOL
FC302:I1.Data	{...}		Decimal	SINT[20]
FC302:I1.Data[0]	0		Decimal	SINT
FC302:I1.Data[1]	0		Decimal	SINT
FC302:I1.Data[2]	0		Decimal	SINT
FC302:I1.Data[3]	0		Decimal	SINT
FC302:I1.Data[4]	0		Decimal	SINT
FC302:I1.Data[5]	0		Decimal	SINT
FC302:I1.Data[6]	0		Decimal	SINT
FC302:I1.Data[7]	0		Decimal	SINT
FC302:I1.Data[8]	0		Decimal	SINT
FC302:I1.Data[9]	0		Decimal	SINT
FC302:I1.Data[10]	0		Decimal	SINT
FC302:I1.Data[11]	0		Decimal	SINT
FC302:I1.Data[12]	0		Decimal	SINT
FC302:I1.Data[13]	0		Decimal	SINT

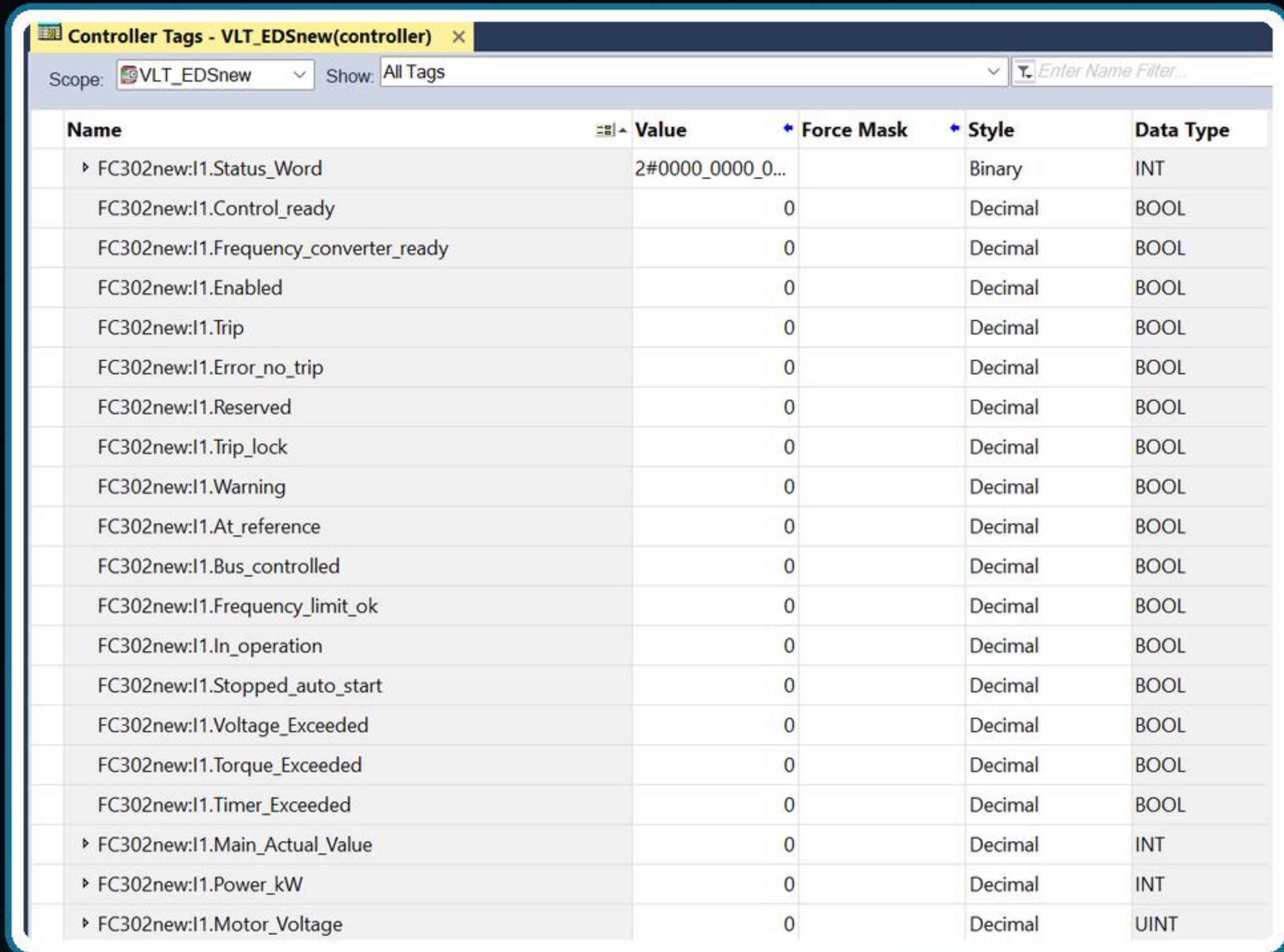
- SINT[20] - one flat array, no context
- Every word mapped by hand in ladder
- An AOI to import, version and maintain

FC302:I1.Data[7] = ???

AFTER • DANFOSS ADVANCED EDS

Tags with names.

Same drive, same connection - now readable.



The screenshot shows a software interface titled "Controller Tags - VLT_EDSnew(controller)". It features a search bar with "Scope: VLT_EDSnew" and "Show: All Tags". Below this is a table of tags. The table has columns for Name, Value, Force Mask, Style, and Data Type. The tags listed include various status and control parameters for a VLT drive, such as Status_Word, Control_ready, Frequency_converter_ready, Enabled, Trip, Error_no_trip, Reserved, Trip_lock, Warning, At_reference, Bus_controlled, Frequency_limit_ok, In_operation, Stopped_auto_start, Voltage_Exceeded, Torque_Exceeded, Timer_Exceeded, Main_Actual_Value, Power_kW, and Motor_Voltage.

Name	Value	Force Mask	Style	Data Type
FC302new:I1.Status_Word	2#0000_0000_0...		Binary	INT
FC302new:I1.Control_ready	0		Decimal	BOOL
FC302new:I1.Frequency_converter_ready	0		Decimal	BOOL
FC302new:I1.Enabled	0		Decimal	BOOL
FC302new:I1.Trip	0		Decimal	BOOL
FC302new:I1.Error_no_trip	0		Decimal	BOOL
FC302new:I1.Reserved	0		Decimal	BOOL
FC302new:I1.Trip_lock	0		Decimal	BOOL
FC302new:I1.Warning	0		Decimal	BOOL
FC302new:I1.At_reference	0		Decimal	BOOL
FC302new:I1.Bus_controlled	0		Decimal	BOOL
FC302new:I1.Frequency_limit_ok	0		Decimal	BOOL
FC302new:I1.In_operation	0		Decimal	BOOL
FC302new:I1.Stopped_auto_start	0		Decimal	BOOL
FC302new:I1.Voltage_Exceeded	0		Decimal	BOOL
FC302new:I1.Torque_Exceeded	0		Decimal	BOOL
FC302new:I1.Timer_Exceeded	0		Decimal	BOOL
FC302new:I1.Main_Actual_Value	0		Decimal	INT
FC302new:I1.Power_kW	0		Decimal	INT
FC302new:I1.Motor_Voltage	0		Decimal	UINT

- Status_Word, Trip, Warning, At_reference, Power_kW
- Correct data types, pre-configured per parameter
- No AOI, no mapping routine

AND IT'S YOURS TO CONFIGURE

Pick the parameters.

Choose your PCDs from a dropdown.

Custom Data Type: _0061:130B1219_C8706C8B:I:0

Connection: 103/153 IO Connection with PCD Config

Data Type: _0061:130B1219_C8706C8B:I:0

Members:

Parameter Name	Member Name	Data Type
Connection Faulted	ConnectionFaulted	BOOL
1603 - Status Word	Status_Word	UINT
1605 - Main Actual Value [%]	Main_Actual_Value	INT
0 - <ignore>		
0 - <ignore>		
15 - Readout: actual setup		
1397 - Alert Alarm Word		
1398 - Alert Warning Word		
1399 - Alert Status Word		
1444 - d-axis Reference Gain		
1472 - Legacy Alarm Word		
1473 - Legacy Warning Word		
1474 - Leg. Ext. Status Word		
1500 - Operating hours		
1501 - Running Hours		
1502 - kWh Counter		
1583 - Motor Ud		
1584 - Motor Uq		
1585 - Motor Id		
1586 - Motor Iq		
1600 - Control Word		
1601 - Reference [Unit]		
1602 - Reference %		
1603 - Status Word		
1605 - Main Actual Value [%]		
1606 - Actual Position		
1607 - Target Position		
1608 - Position Error		
1609 - Custom Readout		
1610 - Power [kW]		
1611 - Power [hp]		
1612 - Motor Voltage		
1613 - Frequency		
1614 - Motor current		

OK Cancel Help

Power [kW]

Motor current

Frequency

Running hours

What that saves you

01 No AOIs

02 No bit mapping

03 Fewer startup errors

04 Faster commissioning

Want to see it on your machine?

Our automation team can walk you or your integrator through the Advanced EDS file on a VLT AutomationDrive FC 302 over EtherNet/IP - and show you the tag list live in Studio 5000.

Comment below or contact your AA rep

We will share the file and the setup steps.