[BECKHOFF TwinCAT Tag Import]
Introducing useful tips on settings of tag import and editor using V-SFT-6.

Overview

- MONITOUCH HMI can communicate with BECKHOFF's TwinCAT3 and TwinCAT2 over Ethernet using tags.

Compatible models:
- V9
- TS
- TELLUS4

ADS protocol

Embedded PC (Beckhoff CX series)　**IPC/TwinCAT2 -SoftPLC**　**TwinCAT3 Runtime**
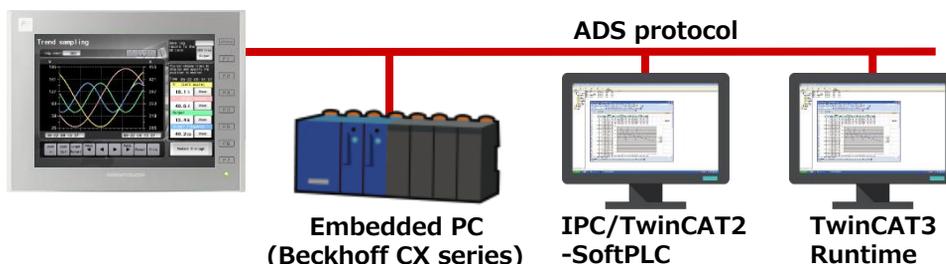
- It is possible to import variables from projects created with TwinCAT into HMI configuration software.

TwinCAT System Tool → Export → (Tags) → Import → **V-SFT-6** → Screen Data Transfer → Easy Communication

Variables

Many useful features!
(See below for more info.)
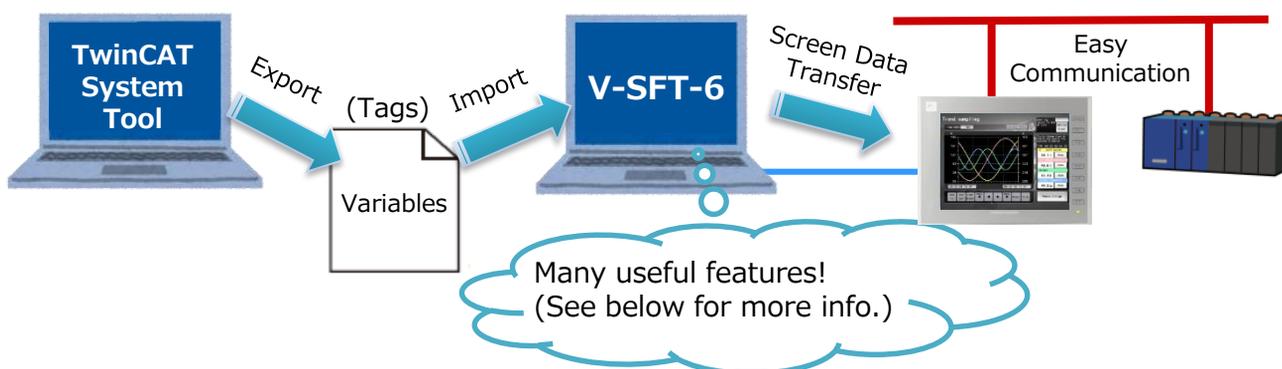
Point 1　Filtering function when importing tags!

You can select only the tags needed to communicate with the HMI and import them into the V-SFT-6. It is also possible to filter the items selected in each tab by AND conditions and import them.

Tag List

Tag List	Data Type List	Scope List

	Name
☑	GVL
☑	Constants
☑	TwinCAT_SystemInfoVarList
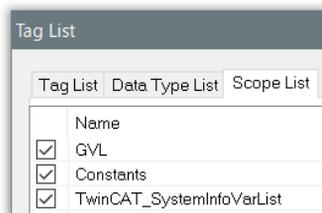
Point 2　Instantly get the import result!

Tags that failed to be imported into V-SFT-6 will be listed as a import result.

Import result

Succeeded: 83 items
Failed: 6 items

Failed to import the tag(s) below.
GVL.LTIME2
GVL.LWORD2

Point 3　Easily extract tags you want with the search function!

With the word search (partial match), you can easily find and set a target tag to items such as numerical displays or switches.

Tag Setting

BOOL

old　　0　　☑ Partial match

Index1　　Index2　　Index3
0　　0　　0

📁 TwinCAT_SystemInfoVarList
　📁 _AppInfo
　　　OldBootData BOOL

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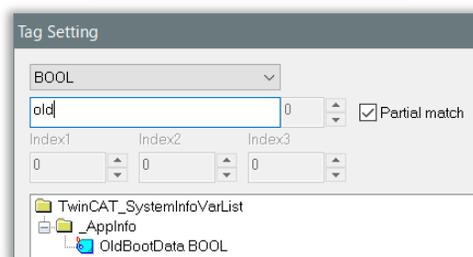
Compatible Models and Supported Data Types

MONITOUCH HMI : V9, TS, TELLUS 4
HMI configuration software : V-SFT Ver.6.0.39.0 and later
PLC maker and model : BECKHOFF Tag ADS Protocol (Ethernet)
List of supported data types :

BOOL	1-bit integer	SINT	1-byte signed integer	INT	2-byte signed integer	DINT	4-byte signed integer
REAL	4-byte floating point	STRING	String	USINT	1-byte unsinged integer	UINT	2-byte unsigned integer
UDINT	4-byte unsigned integer	BYTE	1-byte integer	WORD	2-byte integer	DWORD	4-byte integer
TIME	TIME	TOD	TIME OF DAY	DATE	DATE	DT	DATE AND TIME
BIT	Bit						

How to Import Tag Data into V-SFT-6

Procedures with TwinCAT system tool (In case of TwinCAT3)

1) Add a PLC project at [Solution Explorer]
2) Define variables in [MAIN(PRG)] under [POUs] folder of the added PLC project.
   (It is possible to add POU to define variables in addition to MAIN.)
3) Right click [Project] and select [Build].
4) After a successful build, a ".tpy" file is generated in the folder where the PLC project is saved.

Procedures with V-SFT-6

HMI software : V-SFT Ver.6.0.39.0 and later

1) Connection Device Selection
   Maker : BECKHOFF
   Model : Tag ADS Protocol (Ethernet)
2) Select ADS Port No. at [Tag Edit] setting and click [Import]. Then specify a ".tpy" file.
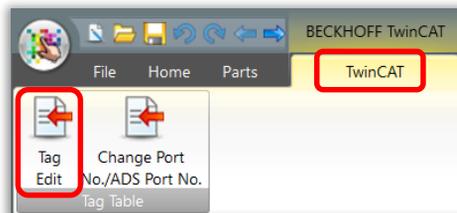
Other Functions

Tag Edit Window
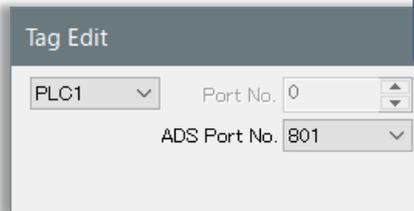
Filtering function (quick search) helps you narrow down the search by arbitrary conditions (tag name, data type, comments). Efficient tag search is possible.
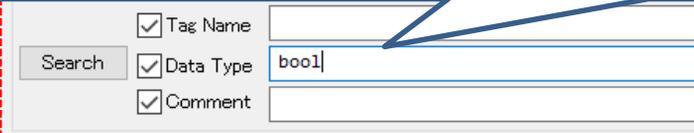
Change Port No./ADS Port No.
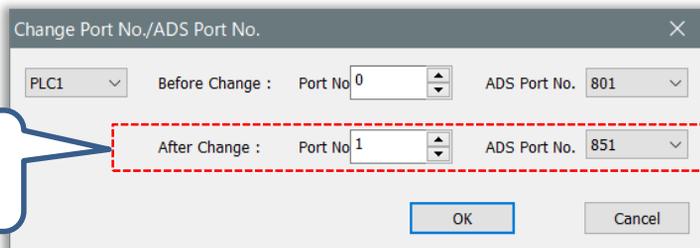
Even after importing tag data, you can easily change Port No. and ADS Port No. by a batch setting.

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