Status: 02/2004

Release-Notes: HMI Programming Package, Version 6.4

Version displayed in the HMI Explorer
The HMI Explorer is a diagnostic tool used to display the HMI applications installed on a PCU50/70 system. The HMI Explorer is located on the HMI desktop. The display in the HMI Explorer is intended to be used also by OEM products. The Explorer displays the product name, the version installed and the installation date and time of the product concerned. When installing an application, the data displayed in the HMI Explorer are stored in the Windows register.

Sinumerik desktop
The Sinumerik desktop supports the use of HMI Advanced on a standard PC. The Sinumerik desktop allows to execute HMI Advanced on a separate Windows desktop. As a result, the applications started by the HMI Advanced Regie and the other Windows applications executed in parallel on the same PC are strictly separated. Problems such as the covering of Windows applications by HMI Advanced windows, the redirection of keyboard inputs on account of keyboard hooks and filters set up by HMI Advanced or erroneous color changes can thus be prevented.

MMC controls
The McEdit Control has been extended by the Property *CurPos* and the Event *CurPosChange*. The Property *curPos* supplies the position of the McEdit Control cursor. The Event *curPosChange* is fired if the cursor position is changed.

Regie
The attribute *Arguments* was introduced to configure OEMFrame applications. This attribute is used to specify command line parameters which shall be transferred to the OEMFrame application upon starting. The path/program name of the OEMFrame application is stated in the attribute *CmdLine*. Up to now, the path/program name and the command line parameters have been specified commonly in the Attribut *CmdLine*, and the command line parameters have been separated from each other and from the path/program name using blanks. The path/program name could therefore not contain any blank. If, however, the command line parameters are stated separately from the path/program name in the newly introduced attribute *Arguments*, path/propgram names containing blanks can be specified in the attribute *CmdLine*.

FindWindow
FindWindow is a tool which allows to easily determine the parameters *WindowName* and *ClassName*. The two parameters *WindowName* and *ClassName* are required for the integration of OEMFrame applications. The parameters determined are combined by FindWindow to form a *CmdLine* which can be transferred conveniently via Copy&Paste into the file regie.ini.
The tool FindWindow (FindWindow .exe) is located in the directory Tools.

AlarmTester
AlarmTester is a tool that allows to simulate all kinds of alarms. This tool is mainly used to cross read alarm texts. By means of the AlarmTester, you can easily check for each relevante language whether there is enough space to enter the text for a certain alarm, possibly including existing alarm parameters, in the alarm line of HMI Advanced. Besides simulating alarms, the AlarmTester allows to switch over the HMI language and to generate screenshots.

The tool AlarmTester (AlarmTester.exe) is stored in the directory Tools.

Programming examples
The following examples have been incorporated in the HMI Programming package. In each case, we have stated the directories where the examples are to be found:

- IMCFile\VB\sample2
  VB example demonstrating how the contents of the part program directory are read out and in which way new part programs are being created.
- IMCFile\VC++\sample1
  VC++ example demonstrating how the contents of the part program directory are read out and in which way new part programs are being created.
- IRegieSvr\VB\sample0
  VB example demonstrating how to use the interface IRegieSvr and select another operating area with program control.
- IRegieSvr\VC++\sample0
  VC++ example demonstrating how to use the interface IRegieSvr and select another operating area with program control.
- IMCCommand\VC++\sample0
  VC++ example demonstrating the synchronous and asynchronous execution of PI services.
- IMCDomain\VC++\sample0
  VC++ example demonstrating how to use domain services by means of the interface IMCDomain.

An overview of the examples given and many more is included in the file Beispielübersicht.doc.

BTSS variables

The following variables were changed, added or deleted:

Data area C / Data block DIAGN	
acIpoBuf	new
Data area C / Data block ETP	
resultPar1	new
suppressProtLock	new
Data area C / Data block FA	changed
Data area C / Data block FB	changed
Data area C / Data block FE	changed
Data area C / Data block FS	changed
Data area C / Data block FU	changed
Data area C / Data block S	
acMeasInput	new
acPlcOvr	new
acSynaMem	changed
acTimec	changed
acTotalOvr	new
delayFSt	new
pTcNum	new

Data area C / Data block SEGA	
motEnd	changed
Data area C / Data block SEMA	
aaIm	deleted
aaIm1	deleted
aaIm2	deleted
aaJerkCount	new
aaJerkTime	new
aaJerkTotal	new
aaOffVal	changed
aaPlcOvr	new
aaPolfa	changed
aaPolfaValid	changed
aaTotalOvr	new
aaTravelCount	new
aaTravelCountHS	new
aaTravelDist	new
aaTravelDistHS	new
aaTravelTime	new
aaTravelTimeHS	new
focStat	changed
isDriveUsed	new
vaDpe	new
vaIm	new
vaIm1	new
vaIm2	new
Data area C / Data block SPARP	
actBlock	new
actBlockA	new
actBlockI	new
lastBlockNoStr	changed
Data area C / Data block SPARPF	changed
Data area C / Data block SPARPI	
seekOffset	changed
Data area C / Data block SPARPP	
lastBlockNoStr	changed
Data area C / Data block SSP	
acSMode	changed
Data area C / Data block SSP2	
acSMode	changed
Data area C / Data block VSYN	
acMarker	changed
Data area N / Data block DIAGN	
dpSlaveStateIncCnt	changed
nckCompileSwitches	new
Data area N / Data block S	

driveType	changed
freeProtokolFiles	changed
protocTrigVarArea	changed
safePlcIn	new
safePlcOut	new
sysTimeNCSC	new
sysTimeSinceStartup	new
totalProtokolFiles	changed
usedProtokolFiles	changed

Data area N / Data block SEMA

aaIm	deleted
aaIm1	deleted
aaIm2	deleted
aaJerkCount	new
aaJerkTime	new
aaJerkTotal	new
aaPlcOvr	new
aaPolfa	changed
aaPolfaValid	changed
aaTotalOvr	new
aaTravelCount	new
aaTravelCountHS	new
aaTravelDist	new
aaTravelDistHS	new
aaTravelTime	new
aaTravelTimeHS	new
isDriveUsed	new
vaDpe	new
vaIm	new
vaIm1	new
vaIm2	new

Data area N / Data block SSP

acSMode	changed

Data area N / Data block SSP2

acSMode	changed

Data area N / Data block Y

numMagPlaceParams	changed

Data area T / Data block TC

tcCarr41	new
tcCarr42	new
tcCarr43	new
tcCarr44	new
tcCarr45	new
tcCarr46	new
tcCarr55	new
tcCarr56	new
tcCarr57	new
tcCarr58	new
tcCarr59	new
tcCarr60	new
tcCarr64	new

tcCarr65	new
Data area T / Data block TF	
parDataTD	changed
parDataTO	changed
parDataTS	changed
parDataTU	changed
parDataTUE	changed
parDataTUS	changed
parMasksTD	changed
parMasksTO	changed
parMasksTS	changed
parMasksTU	changed
parMasksTUE	changed
parMasksTUS	changed