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# History

## 1.11.10.0

### Debugs

- EtherCAT.SyncAxis
- FormDevList.NodeSorter
  - IO Sorting
  - OrderByAddress
- FormAI, FormAO
- 
- DI Projectfile load Channel

### Adds

- ProjectManager.pjt3 가
  - Setup.ProjectFileExtension 가
- 가
  - LossFrame
  - Slave Comm Error
  - DevList not running
  - CommErrorThreshold Property 가
- TopologyView LossFrame, DcCount Monitor 가
- FormAlarmList 가
  - , LogView
- cEIP.SC04A 가
- FormSerial.Repeat 가
- 가

### Changes

- EtherCAT.Config AIStateChange 1 가
- Dock Crash ,
  - BegineerMode Crash , BegineerMode

## 1.11.9.0

### Debugs

- LogView.Alarm hide
- Project load customDoMap

### Changes

- ServoAlarmCode logging

### 1.11.8.0

#### Debugs

- Profile 401 ESI ProfileNo
- Config Do, DI PdoMap 가 map 가 sm
- ProcessData Excluded , Map IoType

### 1.11.7.0

#### Changes

- Alias Read 0xCCC
- ESI PdoAssign

#### Debugs

- DevList.Find 가

### 1.11.6.0

#### Debugs

- Config net Update AIStatus 가

### 1.11.5.0

#### Adds

- App 가

#### Debugs

- Dock
- NetState : RoundTrip.Set

### 1.11.4.0

#### Adds

- Config : SlotGroup Slot

#### Changes

- CycleTimeSync@Factor
- 402 Profile 가 가 , PhysAddr

#### Debugs

- DeviceList slot
- Omron CJ1W-ECT21 Config

### 1.11.3.0

#### Adds

- DevList.Search Module 가
- SearchTextBox "Search" 가
- FormAIStatusCode : , Code가 0
- SdoAbortCodeDescription 가 : Shell LogViewer 가
- FormSetup.Form.AiPrecision Property 가
- Shell.Check 가
- ELMO Slot Driver
- FormFirmware.Reset MultiSelect
- NetState EscState
- Config.CheckMultiAxis

#### Changes

- DcOffsetDefault
- 5001 Profile Step ID PhysAddr + 1 ( : ID = PhysAddr)

#### Debugs

- Disconnect Topology Update Topology
- DevList.Search :
- NetID 0 FormESC
- FormSlot Module ModIndent가 0 가
- NetState

### 1.11.2.0

- 
- ControlLock 가
- AppSetup.t.formInfo.AlarmMonitor.DisplayAlarm Property 가
- Config.InPdoSkipCount Property 가
- AllowNodeNameChange Property 가<sup>1)</sup>
- DeviceList.xml 가
- Config.DriverRawPDO
  - AIState , Stop
- FormFirmware.Reset Device
- RemoteMode
- 
- FormAI / FormAO Graph 가
- Dictionary enum
- TempController 0
- FormSetup 가
- Config
  - , 가
  - NetInfo.LogicIn / NetInfo.LogicOut Servo 가
  - Scan / Download Exception
  - IO Scan/Download 1 Dock
  - Download BackupFile Exception
- Shell
- Master-Slave
- GetModulInfos Exception <sup>2)</sup>

### 1.11.1.0

- App
- Dock Expert
- 5001 Profile IO
- FormDevList
  - ExpandOne, ExpandAll, CollapseOne, CollapseAll 가
  - SearchNodeWithChannelName 가
  - DeviceName 가
- MotorMonitor : ColumnCount Property 가
- FormDIO
  - RootColumnCount Property 가 : DIO Form ColumnCount
  - ColumnCount\_1 Enum 가
- FormAI / FormAO : Precision
- Setup
  - AppSetup.Form.DeviceList.InitTreeLevel Property 가
  - AutoLoad.NameOnly Property 가
- Config
  - TopologyView : Port line
  - Module Append
  - DefaultZoom

- ProfileNo <sup>3)</sup>
- UpdateForm : Event
- ID / ID , TreeView
- MultiAxis ID 가<sup>4)</sup>
- TopologyView AIState <sup>5)</sup>
- DI / DO StartCh 가
- SM / FMMU <sup>6)</sup>
- DioMap, AioMap Leak
- IsRevisionNoNotMatchAnError Property가 false , RevisionNoNotMatch
- Net , TopologyView Update
- CustomIoMap : Map 가
- MDP type Object-DataType Matching <sup>7)</sup>
  - Object DataType Size가 , Object DataSize
- InfoRefFilePath Node
- ServoTunes
  - ServoTunes
  - LoadOne
- AlarmMonitor 가 : Axis Alarm, Slave CommError
- EtherCAT
  - MailBox Abort <sup>8)</sup> AbortCode log 가
  - Device가 ID가 0 가
  - AlarmState Property 가 : AIState가 AlarmState AlarmMonitor

### 1.11.0.0

- SlaveCfg : ProfileNo 가
- 402 Profile Address
  - 402 Profile 64 .
  - , INVALID\_ADDRESS\_IN\_402 ConfigError
- ConfigError 가 ( )
- formConfig Leak
- ProfileNo.5003
- ServoTunes Data Read Error
- UsingStationAddress Property 가
  - CSA
- FormConfig.TopologyView
  - AIStatus 가
  - Group AIStatus
- Config.BaseAIState Property 가
- DcOffsetDefaultValue 가
- Firmware Reset : Main → Firmware

### 1.10.6.0

- EtherCAT
  - **DLL Logger** **AppDown**
  - Dictionary Search 가
  - DataType Object bit 가
  - TempController 가
  - Scan ecCfg\_SetSlaveConfig : PreOP
  - ESI SM Enable Enable
- cEIP
  - cEIP AppDown
  - cEIP Version Parsing
  - cEIP MotorState Update failed
- NEMO
  - FW, Lib Version read failed

### 1.10.5.0

- SoftEtherCAT 가
  - ESC, SlaveRW
- EtherCAT Config
  - FMMU Section : Servo Sect
  - EBus\_2 + Mii\_2 Type Matching
  - ProcessData Entry Type ETC 가
- DO Repeat RepeatCount 가 0 ,

### 1.10.4.0

- IO Form Dock 가
- Setup : FormIO HideMenu Property 가

### 1.10.3.0

- Config
  - TopologyView : PortMonitoring Option 가
  - NetInfo : DcOffset : %

- Dictionary : Enum
- <sup>9)</sup> 가
- EtherCAT : OPMODE\_PT 가

### 1.10.2.0

- FormConfig : Slave AutoReset 가
- FormPDO : 2 ~ 7 bit size Data 가
- FormSlave : EEPROM Update Bootstrap Data 가
- <sup>10)</sup>

### 1.10.1.0

- EtherCAT
  - ETS-MC02P
    - 
    - 
    - SVON\_Logic 가
  - Dictionary bit write
  - Config.TopologyView : Drawing , StandAlone Master Hub 가
  - FormSlaveRW Device가 1 ID가 0 , DeviceID ( netID 가 0 )

### 1.10.0.0

- EtherCAT
  - Coupler Slot , : Slot → Coupler
  - Config : Address Net SlaveList가
  - UnitDistance 가
  - Topology Line
  - Configurator Net
  - Scan Download DCSync
  - Lib (ODM 가)
- ServoTunes

- List View

### 1.9.3.9

- EtherCAT
  - 가 , IO가 IO Form
  - null
  - ESI InfoReference
  - TopologyView MasterDC Port가
  - FormSlaveRW Device가 1 ID가 0 , DeviceID ( netID  
가 0 )

### 1.9.3.8

- EtherCAT Lib

### 1.9.3.7

- Shell
  - API ,
- EtherCAT
  - Firmware Upload UI
  - ETS-MC02P, CMC HomeReturn

### 1.9.3.5

- DeviceList
  - EtherCAT (Driver) : MajorNo.MinorNo.BuildNo.RevNo

### 1.9.3.4

- DeviceList

- EtherCAT : MajorNo.MinorNo.BuildNo.RevNo
- EtherCAT Version Compare

### 1.9.3.3

- HomeReturn
  - HomeReturn , MotorMonitor / AxisList

### 1.9.3.2

- ServoTunes
  - Nikki Denso : Nikki Denso 가 , Exception Error
  - Servo가 Net ServoTunes

### 1.9.3.1

- EtherCAT InitAIState DontChange , PDO
- Slave SDO Read
- ServoTunes EEPROM Write 가

### 1.9.3.0

- EtherCAT Version : File → GetVerInfo
- AutoSaveEnable, AutoSavePath 가
- AutoLoadEnable, AutoLoadPath 가
- FirmUp : 0 State가
- DO Custom Channel Control : Setup
- LX554 48 : LX554 → LX554(48)

- LX553 : LX553 → LX552(40)

### 1.9.2.1

- EtherCAT HomeReturn Success
- UnknownESC Register Read (DIStatus )
  - TopologyView, ESC Viewer Update
  - 1.9.2.0 YASKAWA Driver Topology가

### 1.9.2.0

- ESC Viewer
  - PortControl 가
  - UI
  - ESC Type Register Read/Wrtie
- TopologyView
  - ESC Redundancy Check
  - Port Open ESC
- DSP Viewer
  - FW 2.66 EEcInfoID 가 (SendCount, ReceiveCount )
  - Read Checkbox 가
- DeviceList
  - EtherCAT VersionCheck

### 1.9.1.0

- ServoTunes
  - UI
  - Write One-All, Write All-All
- Config
  - TopologyView
  - SlaveTree
    - Coupler - Coupler / Hub - Hub
  - PortOpen
  - SlaveInfo DcInfo 가

- OHT\_Step 가
- 402 Profile Axis Info Update
- Scan
- Master Redundancy
- FormIO
  - EtherCAT IO Form Title NetID 가
  - EtherCAT AI / AO Aio Mode
  - DIO GetMulti Selction 가 (GetMulti / GetOne)
    - LX534 + 64 IO , SDK 32
- DeviceList
  - EtherCAT Slot 10 , Sorting
    - 1,10,11,2,3,4 1,2,3,4,10,11
- Dictionary
  - , UI
- Shell
  - ToHex(),ToDec(),ToBit() 가
- FirmUp
  - DeviceNode DeviceInfo Update

### 1.9.0.0

- Config DC-Sync Factor (OP )

### 1.8.2.0

- Dictionary : EnumType null
  -
- AI / AO Form : Multi-Channel Name Copy/Paste
- SevoTunes : SanyoDenki, NikkiDenso

### 1.8.1.1

- SlaveRW : SDO Read Sign/UnSign
- DevList Form : PulseType
- Config : 402Profile DcSyncMode가 가

### 1.8.1.0

- CMC Axis 가
- EtherCAT FW Version 1.60 DCSyncEnable

### 1.8.0.0

- EtherCAT DcSyncEnable 1, 2 가
- Dictionary : EnumType Text
- SDP Type Visible 가
- 가 Log Skip
- ServoTunes : Yaskawa EtherCAT

### 1.7.0.1

- Setup Form MinorBugFix
- Setup Form NEMO ELP Logic

### 1.7.0.0

- EtherCAT ReserseConnetionCheck MinorBugFix
- EtherCAT Multi-Device FirmwareUpdate
- EtherCAT Virtual Module Append MinorBugFix

