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## History

### 1.11.13.0

#### Debugs

- ReverseConnectionCheck Net

#### Changes

- FormSetup.Form AxisVisible, AxisI/oVisible
- LogView.AlarmMonitor

#### Added

- Check ReverseConnection 가

### 1.11.12.0

#### Debugs

- Slot ,
- StyleMode IO Form
- SCAN Exception Message
- MotorMonitor Lock
- beginner mode

#### Adds

- EEPROM.Updater : Minimum checkbox 가 ( )
- Axis.DO 가
- MultiAxis : DI/DO 가
- C-Net 가

#### Changes

- beginner mode LogView 가 가
- EEPROM.Updater : write error
- IdentificationADO 0x1000~0x1003
- beginner mode multi
- ProjectManager.RangeMode

## 1.11.11.0

### Debugs

- FirmwareUpdater : EtherCAT 0 device
- RangeMode 가
- Configurator ApplyAll

### Adds

- x86 / x64 가
- PDO EtherCAT Serial Test (No serial daemon required)
  - Config Serial
- Config.ESIView XML Tree 가 Update
- cEIP Serial 가
- AioMode, RangeMode Project 가 (Save / Load 가)
- Shell.CaptureMode 가
  - DiffOnly Property 가

### Changes

- cEIP , AutoLoad 가
- EtherCAT Net
- EtherCAT Addressing Addressing
- EtherCAT
  - IsPdoAsAxis Property 가

## 1.11.10.0

### Debugs

- EtherCAT.SyncAxis
- FormDevList.NodeSorter
  - IO Sorting
  - OrderByAddress
- 
- 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
- FormSerial.Repeat 가
- 가

### Changes

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

## 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 , PhysAddr

### Debugs

- DeviceList slot
- Omron CJ1W-ECT21 Config

## 1.11.3.0

### Adds

- DevList.Search Module 가
- SearchTextBox “Search” 가
- FormAIStatusCode : , Code 가 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
- GetModuleInfos 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 Prop 가 : DIO Form ColumnCount
    - ColumnCount\_1 Enum 가
  - FormAI / FormAO : Precision
  - Setup
    - AppSetup.Form.DeviceList.InitTreeLevel Property 가
    - AutoLoa .NameOnly Property 가
  - Config
    - TopologyView : Port line
    - Module Append
    - DefaultZoom
    - ProfileNo 3)
    - UpdateForm : Event
    - ID / ID , TreeView
    - MultiAxis ID 가 4)
    - TopologyView AIState 5)
    - DI / DO StartCh 가
    - SM / FMMU 6)
    - DioMap, AioMap Leak
    - IsRevisionNoNotMatchAnError Property 가 false , RevisionNoNotMatch
    - Net , TopologyView Update
    - CustomIoMap : Map 가
    - MDP type Object-DataType Matching 7)
      - Object DataType Size 가 , Object DataSize
    - InfoRefFilePath Node
  - ServoTunes
    - ServoTunes
    - LoadOne
  - AlarmMonitor 가 : Axis Alarm, Slave CommError
  - EtherCAT
    - MailBox Abort 8) AbortCode log 가
    - Device 가 ID 가 0 가
    - AlarmState Property 가 : AIState 가 AlarmState

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
- 9)      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
- 10)

#### 1.10.1.0

- EtherCAT
  - ETS-MC02P
    - 
    - 
    - 
    - SVON\_Logic      가
  - Dictionary bit      write

- Config.TopologyView : Drawing , StandAlone Master Hub 가 ( netID )
- FormSlaveRW Device가 1 ID가 0 , DeviceID ( netID )

## 1.10.0.0

- EtherCAT
  - Coupler Slot , : Slot → Coupler
  - Config : Address Net SlaveList 가
  - 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 Port 가
  - FormSlaveRW Device가 1 ID가 0 , DeviceID ( netID )

## 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 State 가
- 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 Topology 가

### 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 EEInfoID 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      DclInfo      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 Selection      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 DcSyncMode 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
  - Log Skip
- ServoTunes : Yaskawa EtherCAT

### 1.7.0.1

- Setup Form MinorBugFix
- Setup Form NEMO ELP Logic

### 1.7.0.0

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

1)

false DevList Node 가

2)

Invisible Node 가

3)

가 900

4)

ID ID

5)

AIState 가

6)

Config SetFMMU() , Scan Get

7)

Dictionary WeiduMuiller Object 가

8)

CoeSDO Read Fail / write Fail

9) , 10)

PlatformInfo.xml, DeviceList.xml

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