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History

1.11.21.0

- SlotIndexIncrement, DependOnSlot, SlotGroupIncrement
- AutoLoad option
- OP scan 가
- Controllock Default 가
- DIO Ch
- RevisionNo ESI , ProductCode 가 RevisionNo 가

1.11.20.0

Debugs

- Oriental Servo Config , CKD Type Config
- DeviceList Sorting

Adds

- Axis PDO

1.11.19.0

Debugs

- Slot AutoDetection
- EEpromData size type :ushort → int
- LX557

Changes

- Config.IsDetectModule PreOP

Adds

- Crevis MDP IO Channel Mapping

1.11.16.0

Debugs

- FormGantry
 - CoordinateType
 - TeachingByPosition
 - , Torque가 1000
 - Setup Apply 가

1.11.18.0

Debugs

- cmmsdk load DIO devCount
- ETS-MC02P : physAdd + 1 → physAddr - 1

Changes

- SoftEtherCAT.IsLoadFromFile 가
- NetState AIState . 가
- EtherCAT Serial Ch
- Graph Channel Selector

Adds

- PDO Serial

1.11.17.0

Debugs

- Config Download (v1.11.14.0)
- SlotScan

Adds

- Config.WriteToJson 가

1.11.16.0

Debugs

- FormGantry

- CoordinateType
- TeachingByPosition
- , Torque가 1000
- Setup Apply 가

1.11.15.0

Debugs

- FW Update MotorMonitor 가
- Graph가 Document

Adds

- formPDO : 402 profile
 - FW : 2.145
 - DRV : 2.15
 - DLL : 2.17
- CPF to JSON 가

Changes

- Scan / Download
- ecGn_SetBootWaitMode : ecGn_LoadDevice() ,

1.11.13.0

Debugs

- ReverseConnectionCheck Net

Adds

- Check ReverseConnection 가

Changes

- FormSetup.Form AxisVisible, AxisIoVisible
- LogView.AlarmMonitor

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 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 가¹⁾
- 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 ²⁾

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 Prop가 : 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 가⁴⁾

- TopologyView AIState ⁵⁾
- DI / DO StartCh 가 ⁶⁾
- SM / FMMU
- DioMap, AioMap Leak
- IsRevisionNoNotMatchAnError Property가 false , RevisionNoNotMatch
- Net , TopologyView Update
- CustomIoMap : Map 가
- MDP type Object-DataType Matching ⁷⁾
 - Object DataType Size가 , Object DataSize
- InfoRefFilePath Node
- ServoTunes
 - ServoTunes
 - LoadOne
- AlarmMonitor 가 : Axis Alarm, Slave CommError
- EtherCAT
 - MailBox Abort ⁸⁾ 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
- 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
 - 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
 - `getIOForm`가 `IOForm`을 반환한다. `IOForm`은 `IOForm` 구조체를 나타낸다.
 - `getESInfoReference`가 `ESInfoReference`를 반환한다. `ESInfoReference`는 `ESInfoReference` 구조체를 나타낸다.
 - `getTopologyViewMasterDCPort`가 `TopologyViewMasterDCPort`를 반환한다. `TopologyViewMasterDCPort`는 `TopologyViewMasterDCPort` 구조체를 나타낸다.
 - `getFormSlaveRWDevice`가 `FormSlaveRWDevice`를 반환한다. `FormSlaveRWDevice`는 `FormSlaveRWDevice` 구조체를 나타낸다. `DeviceID`는 `DeviceID` (0~255)를 나타낸다. `netID`는 `netID` (0~255)를 나타낸다.

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 EEclnfoID 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

1)

false DevList Node 가

2)

Invisible Node 가

3)

가 900

4)

IDID

5)

AIState가

6)

ConfigSetFMMU(), ScanGet

7)

DictionaryWeiduMuillerObject가

8)

CoeSDO Read Fail / write Fail

9) 10)

, PlatformInfo.xml, DeviceList.xml

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