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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 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 Prop가rty 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 <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 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
- [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
  - 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 InitAlState 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

# EtherCAT

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- **Cores : Firmware / Driver / Library**

## EtherCAT PCI

Stable ( , )

| Ver.                          | Firmware | Driver   | DLL      | Package                 | Cores                           |
|-------------------------------|----------|----------|----------|-------------------------|---------------------------------|
| <b>230523_1 whql (Stable)</b> | v2.83    | v2.5.1.0 | v2.5.3.0 | <a href="#">Package</a> | <a href="#">Download(Cores)</a> |

( )

| Ver.   | Firmware | Driver | DLL   | Package                 | Cores                           |
|--|----------|--------|-------|-------------------------|---------------------------------|
| 260318_0 whql  | v2.169   | v2.15  | v2.31 |                         | <a href="#">Download(Cores)</a> |
| 260224_0 whql  | v2.168   | v2.15  | v2.31 |                         | <a href="#">Download(Cores)</a> |
| <b>VC Redist</b> VC Redist가<br>가      (VC Redist v14 ) |          |        |       |                         |                                 |
| 260114_0 whql  | v2.168   | v2.15  | v2.30 |                         | <a href="#">Download(Cores)</a> |
| 250917_0 whql  | v2.167   | v2.15  | v2.29 | <a href="#">package</a> | <a href="#">Download(Cores)</a> |
| 250909_0 whql  | v2.166   | v2.15  | v2.28 |                         | <a href="#">Download(Cores)</a> |
| 250903_0 whql  | v2.165   | v2.15  | v2.28 |                         | <a href="#">Download(Cores)</a> |
| 250808_1 whql  | v2.165   | v2.15  | v2.27 |                         | <a href="#">Download(Cores)</a> |

| Ver.                             | Firmware | Driver | DLL    | Package        | Cores                  |
|----------------------------------|----------|--------|--------|----------------|------------------------|
| 250411_0<br>whql                 | v2.158   | v2.15  | v2.22  | <b>package</b> | <b>Download(Cores)</b> |
| 250212_0<br>whql                 | v2.150   | v2.15  | v2.19  |                | <b>Download(Cores)</b> |
| 250210_0<br>whql                 | v2.149   | v2.15  | v2.19  |                | <b>Download(Cores)</b> |
| 250124_0<br>whql                 | v2.148   | v2.15  | v2.19  |                | <b>Download(Cores)</b> |
| 250121_0<br>whql                 | v2.147   | v2.15  | v2.19  |                | <b>Download(Cores)</b> |
| 240711_1<br>whql                 | v2.135   | v2.10  | v2.11  | <b>package</b> | <b>Download(Cores)</b> |
| 240705_1<br>whql                 | v2.132   | v2.10  | v2.11  |                | <b>Download(Cores)</b> |
| 240703_0<br>whql                 | v2.131   | v2.10  | v2.11  |                | <b>Download(Cores)</b> |
| 240626_0<br>whql                 | v2.131   | v2.10  | v2.10  |                | <b>Download(Cores)</b> |
| 240621_0<br>whql                 | v2.129   | v2.10  | v2.10  |                | <b>Download(Cores)</b> |
| 240612_0<br>whql                 | v2.128   | v2.10  | v2.10  |                | <b>Download(Cores)</b> |
| 240610_0<br>whql                 | v2.127   | v2.10  | v2.10  |                | <b>Download(Cores)</b> |
| 240605_1<br>whql                 | v2.126   | v2.10  | v2.10  |                | <b>Download(Cores)</b> |
| 240528_1<br>whql                 | v2.122   | v2.10  | v2.10  |                | <b>Download(Cores)</b> |
| 240528_0<br>whql                 | v2.121   | v2.10  | v2.10  |                | <b>Download(Cores)</b> |
| 240523_0<br>whql                 | v2.120   | v2.10  | v2.10  |                | <b>Download(Cores)</b> |
| 240521_0<br>whql                 | v2.119   | v2.10  | v2.10  |                | <b>Download(Cores)</b> |
| 240517_0<br>whql                 | v2.118   | v2.10  | v2.10  |                | <b>Download(Cores)</b> |
| 240510_0<br>whql                 | v2.117   | v2.7   | v2.9.2 |                | <b>Download(Cores)</b> |
| 240503_0<br>whql                 | v2.116   | v2.7   | v2.9.2 |                | <b>Download(Cores)</b> |
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| 240223_0<br>whql                 | v2.107   | v2.7   | v2.8   |                | <b>Download(Cores)</b> |
| <b>ComiIDE v1.11</b><br>240223_0 |          |        |        | (              | -ComiIDE v1.11<br>)    |



| Ver.       | Firmware | Driver | DLL | Package                           | Cores                            |
|------------|----------|--------|-----|-----------------------------------|----------------------------------|
| 2022.03.15 | v2.39    |        |     | -                                 | <a href="#">Download (Cores)</a> |
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| 2020.11.06 | v2.1     |        |     | Download(Package)                 | <a href="#">Download (Cores)</a> |
| 2020.09.21 | v2.0     |        |     | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.08.05 | v1.98    |        |     | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.06.17 | v1.97    |        |     | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.04.27 | v1.94    |        |     | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 2020.03.18 | v1.92    |        |     | <a href="#">Download</a>          | <a href="#">Download (Cores)</a> |
| 2020.03.18 | v1.91    |        |     | <a href="#">Download</a>          |                                  |
| 2020.01.11 | v1.88    |        |     | <a href="#">Download</a>          | <a href="#">Download (Cores)</a> |
| 2020.01.08 | v1.87    |        |     | <a href="#">Download</a>          |                                  |
| 2020.01.07 | v1.87    |        |     | <a href="#">Download</a>          |                                  |
| 2019.11.27 | v1.84    |        |     | <a href="#">Download</a>          |                                  |
| 2019.10.24 | v1.82    |        |     | <a href="#">Download</a>          |                                  |
| 2019.10.07 | v1.80    |        |     | <a href="#">Download</a>          |                                  |
| 2019.08.23 | v1.76    |        |     | <a href="#">Download</a>          | <a href="#">Download(Cores)</a>  |
| 2018.06.19 | v1.67    |        |     | <a href="#">Download</a>          | <a href="#">Download (Cores)</a> |

## EtherCAT PCI v3

| Ver.          | Firmware | Driver         | DLL    | Package                 | Cores                           |
|---------------|----------|----------------|--------|-------------------------|---------------------------------|
| 250214_0 whql | v3.6     | v3.0.1         | v3.0.4 |                         | <a href="#">Download(Cores)</a> |
| 240711_0 whql | v3.5     | v3.0.1         | v3.0.3 |                         | <a href="#">Download(Cores)</a> |
| 240619_0 whql | v3.3     | v3.0.1         | v3.0.3 |                         | <a href="#">Download(Cores)</a> |
| 240614_0 whql | v3.2     | v3.0.1         | v3.0.3 |                         | <a href="#">Download(Cores)</a> |
| 240401_0 whql | v3.1     | v3.0.1         | v3.0.3 |                         | <a href="#">Download(Cores)</a> |
| 240327_0 whql | v3.0     | v3.0.1         | v3.0.3 |                         | <a href="#">Download(Cores)</a> |
| 240116_1 whql | v3.0     | v3.0           | v3.0.3 |                         | <a href="#">Download(Cores)</a> |
| 231214_0 whql | v3.0     | v3.0           | v3.0.2 |                         | <a href="#">Download(Cores)</a> |
| 231129_0 whql | v3.0     | v3.0           | v3.0.1 |                         | <a href="#">Download(Cores)</a> |
| 231114_0 whql | v3.0     | v3.0           | v3.0   |                         | <a href="#">Download(Cores)</a> |
| 3.0           | 1.10.5.0 | <b>ComiIDE</b> |        | <b>Config</b>           | 가                               |
| 240116_0 whql | v2.94    | v2.6.5         | v2.6.7 |                         | <a href="#">Download(Cores)</a> |
| 231218_0 whql | v2.94    | v2.6.5         | v2.6.6 | <a href="#">Package</a> | <a href="#">Download(Cores)</a> |

## EtherCAT IP (StandAlone)

|   |             |                                   |  |
|---|-------------|-----------------------------------|--|
| F2.71_L2.5.9.0_2.5.8.0                  | 2025.11.19  |                                   | <a href="#">Download(Cores_251119_0)</a> |
| F2.68_L2.5.9.0_D2.5.7.0                 | 2023.04.11  |                                   | <a href="#">Download(Cores_230411_0)</a> |
| F2.67_L2.5.7.0_D2.5.6.0                 | 2022.12.23  |                                   | <a href="#">Download(Cores_221223_2)</a> |
| F2.64_L2.5.2.0_D2.5.2.0                 | 2022.11.11. |                                   | <a href="#">Download(Cores_221111_0)</a> |
| F2.64_L2.4.11.0_D2.4.10.0               | 2022.10.07  |                                   | <a href="#">Download(Cores_221007_0)</a> |
| v2.63                                   | 2022.09.30  |                                   | <a href="#">Download(Cores)</a>          |
| v2.62                                   | 2022.09.20  | <a href="#">Download</a>          |  |
| <b>ComilDE v1.9.0.0 Config ( OP 가 )</b> |             |                                   |  |
| v2.51.0.0                               | 2022.07.15  |                                   | <a href="#">Download (Cores)</a>         |
| v2.42.0.0                               | 2022.04.22  |                                   | <a href="#">Download (Cores)</a>         |
| v2.39.0.0                               | 2022.04.06  |                                   | <a href="#">Download (Cores)</a>         |
| v2.06.0.0                               | 2021.05.11  |                                   | <a href="#">Download (Cores)</a>         |
| v2.05.0.0                               | 2021.05.03  |                                   | <a href="#">Download (Cores)</a>         |
| v1.0.0.0                                | 2020.09.01  | <a href="#">Download(Package)</a> |  |

## EtherCAT SW (Software EtherCAT)

| Ver.     | Daemon   | Engine   | DLL       | Package                           | Core                             |
|----------|----------|----------|-----------|-----------------------------------|----------------------------------|
| 231011_0 | v1.1.3.1 | v1.1.3.2 | v1.1.0.0  | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |
| 230922_0 | v1.1.3.0 | v1.1.3.1 | v1.1.0.0  | -                                 | <a href="#">Download (Cores)</a> |
| 230908_0 | v1.1.3.0 | v1.1.3.0 | v1.1.0.0  | -                                 | <a href="#">Download (Cores)</a> |
| 230621_0 | v1.1.0.0 | v1.1.0.0 | v.1.1.0.0 | -                                 | <a href="#">Download (Cores)</a> |
| 210225   |          |          |           | <a href="#">Download(Package)</a> | <a href="#">Download (Cores)</a> |

## EtherCAT SBC

| Ver.          | Firmware | Driver  | DLL   | Package                 | Cores                            |
|---------------|----------|---------|-------|-------------------------|----------------------------------|
| 251107)0 whql | v2.167   | 2.15.1  | 2.29  | <a href="#">Package</a> | <a href="#">Download(Cores))</a> |
| 240715_0 whql | v2.135   | v2.10.1 | v2.11 |                         | <a href="#">Download(Cores)</a>  |

| Ver.          | Firmware | Driver   | DLL      | Package | Cores                           |
|---------------|----------|----------|----------|---------|---------------------------------|
| 240703_0 whql | v2.128   | v2.10.1  | v2.10    |         | <a href="#">Download(Cores)</a> |
| 230704_1 whql | v2.83    | v2.5.1.1 | v2.5.3.0 |         | <a href="#">Download(Cores)</a> |

## EtherCAT Serial Daemon

| Ver.          | Daemon   | Driver      | DLL       | Package | Cores                           |
|---------------|----------|-------------|-----------|---------|---------------------------------|
| 231023_0 whql | v1.1.2.0 | v18.12.20.0 | v16.5.6.0 |         | <a href="#">Download(Cores)</a> |
| 230724_2 whql | v1.1.2.0 | v18.12.20.0 | v16.5.6.0 |         | <a href="#">Download(Cores)</a> |

## EtherCAT PCI & EtherCAT StandAlone

|        |            |                                    |                          |
|--------|------------|------------------------------------|--------------------------|
| C#     | 2024.05.17 | EtherCAT_Examples_CSharp (1.0.1.2) | <a href="#">download</a> |
| C++    | 2021.12.03 | EtherCAT_Examples_C++ (1.0.0.1)    | <a href="#">download</a> |
| VC6.0  | 2023.01.09 | EtherCAT_Examples_vc6 (1.0.0.1)    | <a href="#">download</a> |
| Delphi | 2020.06.03 | EtherCAT_Examples_Delphi           | <a href="#">download</a> |

## Software

|                |            |                                       |                          |
|----------------|------------|---------------------------------------|--------------------------|
| EtherCAT_SW C# | 2021.02.25 | EtherCAT_SW_Examples_CSharp (1.0.0.0) | <a href="#">download</a> |
|----------------|------------|---------------------------------------|--------------------------|

# Master

## Hardware

- [COMI-LX550](#) | [COMI-LX551](#) | [COMI-LX552](#) | [COMI-LX554](#)

## Software

- [EtherCAT Master API \(Basic\)](#) | [EtherCAT Master API \(Full\)](#) | [EtherCAT Object Manual](#)

## SW EtherCAT

- [ets\\_sw\\_manual.pdf](#)

# ETS

## Hardware

- [ETS-A0402MV-E](#)
- [ETS-AI08AH-E](#)
- [ETS-AO04I-E](#) | [ETS-AO04V-E](#)
- [ETS-DI16N](#) | [ETS-DI16P](#)
- [ETS-DI32N-E](#) | [ETS-DI32N-M](#) | [ETS-DI32N-T](#)
- [ETS-DO16N](#) | [ETS-DO16P](#)
- [ETS-DO32N-E](#) | [ETS-DO32N-M](#) | [ETS-DO32N-T](#)
- [ETS-D08MN](#) | [ETS-D08MP](#)
- [ETS-D04R](#)
- [ETS-EC04H-M](#)
- [ETS-MC02P](#)
- [ETS-SC08A](#)
- [ETS-HUB08A](#)

## Software

- [ETS SW Manual](#)

- [ETS-MC02P](#)

## ECS

### Hardware

- [ECS-NC100](#)
- [ECS-DO04R-24V](#) | [ECS-DO16N-24V](#)
- [ECS-DI16N-24V](#) | [ECS-DI16P-24V](#)
- [ECS-AI04IH-420](#) | [ECS-AI04VH-B10](#) | [ECS-AI08I-420](#)
- [ECS-AI04R](#) | [ECS-AI04T](#)
- [ECS-AO02IH-420](#) | [ECS-AO04IH-420](#) | [ECS-AO04VH-B10](#)
- [ECS-SC02I-232](#) | [ECS-SC02I-485](#)
- [ECS-CN08P](#)

### Software

- [ECS SW Manual](#)

## EVS

### Hardware

- [EVS-DI32N](#)
- [EVS-DO32N](#)
- [EVS-RPM](#)

### Software

- [EVS Software Manual](#)

# EPS

## Software

- [EPS-DO24](#) | [EPS-DI24](#)
- [EPS-AO04I](#)
- [EPS-AI08IH](#) | [EPS-AI04RNT](#) | [EPS-AI08RNT](#)

- [COMIZOA-ETC](#)
- [COMIZOA-ETS](#)
- [COMIZOA-ECS](#)
- [COMIZOA-EVS](#)
- [COMIZOA-EAS](#)
- [COMIZOA-FC](#)
- [COMIZOA-SES](#)
- [COMIZOA-KES](#)
- [COMIZOA-INTERLOCK](#)
- [COMIZOA-OHT](#)
- [COMIZOA-TES](#)

v1.0.0.1 (21.07.15)

- 1. DC-Sync EEPROM (0E → EE)

v1.0.0.2 (22.04.21)

- 1. LX558 가

v1.0.0.3 (22.10.24)

- 1. LX559 가

### COMIZOA\_ETS Version History

v1.0.0.1 (21.01.27)

- 1. ETS-DO16N-E / EEPROM

v1.0.0.2 (21.03.03)

- 1. ETS-DO16N-HM DO H/W  
EEPROM

v1.0.0.3 (21.04.01)

- 1. ETS-DOORLOCK-HM 가

v1.0.0.4 (21.07.15)

- 1. ETS-AI04RnT-E 가
- 2. ETS-D3208A0800 가

v1.0.0.5 (21.08.26)

- 1. ETS-AI08VH-HM Value Type 가
- 2. ETS-AI08IH-HM Value Type 가

v1.0.0.6 (21.09.07)

- 1. ETS-AI08IH-HM Value Type 가

v1.0.0.7 (21.09.15)

- 1. ETS-DO16N ConfigData

v1.0.0.8 (21.10.14)

- 1. ETS-MT02H

v1.0.0.9 (21.12.06)

- 1. ETS-DO04R PDO ConfigData

v1.0.1.0 (24.05.31)

- 1. ETS Slave Enhanced Link Detection ALL OFF

### COMIZOA\_SES Version History

v1.0.0.1 (21.12.21)

- 1. ETCH-PB, ETCH-EXT 가

v1.0.0.2 (22.02.18)

- 1. TMC-DI16 가

v1.0.0.3 (24.05.31)

- 1. Enhanced Link Detection ALL OFF

COMIZOA\_KES Version History

v1.0.0.5 (24.01.29)

- KES-PU,LU,CL,CLM,KIT AIO Filter 가

v1.0.0.6 (24.04.17)

- Flashwork Subindex

COMIZOA\_OHT Version History

v1.0.0.1 (21.07.21)

- 1. OHT-STEP-X1E 가

v1.0.0.2 (21.10.25)

- 1. OHT-STEP-X1E 0x1600 DataType

# Master

- COMI-LX55x CE
- COMI-LX554 CE
- COMI-EM-H3-C6 CE
- COMI-LX55x RoHS

- COMI-LX554 RoHS

## ETS

- ETS Slave CE

- ETS-MT02H-M
- ETS-MC02P
- ETS-SC08A
- ETS-AI08AH-E
- ETS-DI16N-MCE / ETS-DO16N-MCE
- ETS-DI32N-MCE / ETS-DO32N-MCE
- ETS-D08MN-MCE

- ETS Slave CE

- ETS-DI16N-E / ETS-DO16N-E
- ETS-D04MN-E / ETS-D08MN-E
- ETS-AI16AH-E / ETS-AO04I-E / ETS-AO04V-E / ETS-A0402MV-E
- ETS-EC04H-M / ETS-SC08A-S
- ETS-HUB04 / ETS-HUB06 / ETS-HUB08

- ETS Slave CE

- ETS-DI06N-HM
- ETS-DO16N-HM
- ETS-AI08AH-HM

- ETS Slave CE

- ETS-DI32N-M / ETS-DO32N-M
- ETS-DI32N-T / ETS-DO32N-T
- ETS-DI32N-E / ETS-DO32N-E

- ETS System RoHS

- ETS Slave RoHS

- ETS-DI32N-M / ETS-DO32N-M
- ETS-DI32N-T / ETS-DO32N-T
- ETS-DI32N-E / ETS-DO32N-E

## ECS

- ECS System CE
- ECS System RoHS

|          |            |                  |                                  |
|----------|------------|------------------|----------------------------------|
| CMC      | -          | Cmc_LogApp       | <a href="#">download</a>         |
| CMC      | -          | Cmc_TestApp      | <a href="#">download</a>         |
| PUMP     | 2019.06.12 | examples_manual  | <a href="#">Download</a>         |
| PUMP     | 2020.01.08 | ses_pump         | <a href="#">Download</a>         |
| IDE_Temp | 2022.01.07 | ComiIDE.v1.6.2.6 | <a href="#">ComiIDE v1.6.2.6</a> |

Version 2

| Cores Ver. | FW.          | Drv. | DLL.        |   |
|------------|--------------|------|-------------|---|
| 260318_0   | <b>2.169</b> | 2.15 | 2.31        | - : AIStatus CtrlWord (PDO )  |
| 260224_0   | 2.168        | 2.15 | <b>2.31</b> | - : MFC DLL shared link (vc_redist 2022 )<br>- : DLL<br>- : ecm_ODM_SetCmpTable EC04h ODM 가<br>(251217_0 )  |
| 260114_0   | <b>2.168</b> | 2.15 | <b>2.30</b> | - : Config 가(InitCmd)   |
| 250917_0   | <b>2.167</b> | 2.15 | <b>2.29</b> | - : FoE<br>- : HotConnect CSA Renew CRC 가   |
| 250909_0   | <b>2.166</b> | 2.15 | 2.28        | - : PDO Follow Mode Feedback Cmd 가  |
| 250903_0   | 2.165        | 2.15 | <b>2.28</b> | - : OS Memory Leak Driver BSOD  |
| 250808_1   | <b>2.165</b> | 2.15 | 2.27        | - : MTU Config Board (FW v2.161 )   |
| 250808_0   | <b>2.164</b> | 2.15 | <b>2.27</b> | - : OSize Assignment Config<br>- : PDO Map Timeout (OP )<br>- : Vender ODM Slave OP<br>- : SDO R/W Subidx 가   |
| 250709_0   | <b>2.163</b> | 2.15 | <b>2.26</b> | - : Hot Connect 가<br>- : Firmware Verify Only 가<br>- : ecaiGetChanVal_I_L()<br>- : ALStatus Error 가 (4Xh DC_NOT_WORKING)<br>- : DC 가 (DC SafeOP 가)<br>- : |

| Cores Ver. | FW.   | Drv. | DLL. |  |
|------------|-------|------|------|--|
| 250605_0   | 2.162 | 2.15 | 2.25 | - : FoE 가 (ecSlv_FoE[_A]\(\))<br>- : InitSM 가 (Initial AL Status)<br>- : BootStrap 가<br>- : Slave AL State 가<br>- : ecSlv_SetAlState() 가<br>- : Board LoadDevice 가<br>- : NetID ListMotion 가<br>- : Beckhoff chipset<br>- : Cfg Download<br>- : HomeCfg_SetMode() Abort<br>Exception<br>- : UnloadDevice Exception (VC22 )<br>- : MBX , Abort Code 가 |
| 250509_0   | 2.160 | 2.15 | 2.24 | - : DLL (VC10→VC22)<br>- : NetInfo 가<br>- : ecmLmSt_GetQueltemCounts() 가   |
| 250430_0   | 2.159 | 2.15 | 2.23 | - : PossCorr PDO Follow 가  |
| 250411_0   | 2.158 | 2.15 | 2.22 | - : Frequency Inverter 가   |
| 250408_0   | 2.157 | 2.15 | 2.21 | - : Statemachine 가<br>- : AL Status  |
| 250401_1   | 2.156 | 2.15 | 2.21 | - : AL Status, DC Setup  |
| 250328_0   | 2.155 | 2.15 | 2.20 | - : 가 /<br>- : 가 /   |
| 250327_2   | 2.154 | 2.15 | 2.20 | - : 가  |
| 250327_0   | 2.153 | 2.15 | 2.20 | - : 가 OPDrop (Drop )<br>- : 가 AL Status Code ( / Slave<br>1 )<br>- : OP ( / 10 )<br>- : MST/MODE ( / 0.2 )<br>)<br>- : hex ( h)  |
| 250324_0   | 2.152 | 2.15 | 2.20 | - : x64 OS event type CMP callback handler dll crash   |
| 250320_0   | 2.152 | 2.15 | 2.19 | - : Onboard CMP Feedback 가   |
| 250311_0   | 2.151 | 2.15 | 2.19 | - : LX554 onboard CMP  |
| 250212_0   | 2.150 | 2.15 | 2.19 | - : CMD 1 (fw<br>v2.120 )  |
| 250210_0   | 2.149 | 2.15 | 2.19 | - : Servo Home ( )<br>Servo Home Start Delay )   |
| 250124_0   | 2.148 | 2.15 | 2.19 | - : Sync Start 2,3   |
| 250121_1   | 2.147 | 2.15 | 2.19 | - : 240726_0(FW v2.136) Cmd, Feed,<br>RingCount<br>- : Max Device ( Device 8 , NET 8 )   |
| 250120_0   | 2.146 | 2.15 | 2.18 | - : ABS SvOn CMD<br>가<br>- : DSP Boot Cfg Config interlock<br>- : AnalogOutput F _L 가  |
| 250117_0   | 2.145 | 2.15 | 2.17 | - : ABS SvOn CMD<br>- : SxOutPDO_Set 가   |

| Cores Ver. | FW.   | Drv. | DLL. |  |
|------------|-------|------|------|--|
| 241220_0   | 2.144 | 2.15 | 2.16 | - : InitFromFile()<br>- : SetupMotionEnvironmentFromFile() 가<br>(InitFromFile )<br>- : LX554 Onboard CMP : Net_[Set/Get]Info()<br>가<br>- : Sweep Override GetLastErrorMsg() 가<br>- : Sweep Override deactivate sequence 가<br>- : Sweep Override Exception (0 )<br>- : OPDOSYNC<br>- : Sweep Override |
| 241120_0   | 2.143 | 2.15 | 2.15 | - : (FW Build Version 가, Revision )<br>- : INP TimeOut 가<br>- : ecNet_GetBoardLed() 가<br>- : PreOP transition<br>- : Reg134 read   |
| 241108_0   | 2.142 | 2.15 | 2.14 | - : LX554 OnBoard CMP ,  |
| 240919_0   | 2.141 | 2.15 | 2.14 | - : Cfg ( Servo On 가 )   |
| 240913_2   | 2.140 | 2.15 | 2.14 | - : Bootcomplete DSP<br>(Datasync )<br>- : Express Type PDO ( PCI/Ex 가)  |
| 240830_0   | 2.138 | 2.13 | 2.13 | - : Disconnect Check<br>- : Express Type PDO Size (2k → 4k)  |
| 240726_0   | 2.136 | 2.10 | 2.12 | - : Servo On Operation Enable Timeout (0.5s→3s)<br>- : (1 CMD/FEED )   |
| 240711_1   | 2.135 | 2.10 | 2.11 | - : Arc  |
| 240705_1   | 2.132 | 2.10 | 2.11 | - : LM Arc OverrideByRatio   |
| 240703_0   | 2.131 | 2.10 | 2.11 | - : ecmlxCfg_SetSpeedPatt_time ErrorCode가 CCCC   |
| 240626_0   | 2.131 | 2.10 | 2.10 | - : LM Arc - : ELMO Drive<br>OP  |
| 240621_0   | 2.129 | 2.10 | 2.10 | - Override   |
| 240612_0   | 2.128 | 2.10 | 2.10 | - : OP Firmware Down   |
| 240610_0   | 2.127 | 2.10 | 2.10 | - : MultiPacket (1500byte ) Packet<br>(Config Packet )   |
| 240605_1   | 2.126 | 2.10 | 2.10 | - : SCAN (DISCONNECT SafeOP ,<br>DISCONNECT )  |
| 240604_1   | 2.124 | 2.10 | 2.10 | - : Disconnect, OP (Physical ID 0x0 가 )  |
| 240528_1   | 2.122 | 2.10 | 2.10 | - : DISCONNECT Slave   |
| 240528_0   | 2.121 | 2.10 | 2.10 | - : DISCONNECT, CONNECT<br>- : Physical Address 0  |
| 240523_0   | 2.120 | 2.10 | 2.10 | - : UnitDist   |
| 240521_0   | 2.119 | 2.10 | 2.10 | - : Core Interface<br>- : BitSequence RunState (240517_0 )   |

| Cores Ver. | FW.   | Drv.  | DLL.  |   |
|------------|-------|-------|-------|---|
| 240517_0   | 2.118 | 2.10  | 2.10  | - : Sweep Override Stop<br>- : SmartMoveTo() Stop 가<br>- eaERR_MOT_SEQ_SKIPPED_BACKWARD(-21061)<br>- : , DSP<br><br>- : Override(Smart[V]Move[To]), Stop<br>- : GetMotState<br>-<br>- SubErrCode 가<br>- ecERR_MOT_CTRL_ALARM(-1011)<br>- ecERR_MOT_ETC(-1012)<br>- : ODM IN_WAIT Status 가 (SmartMove, SweepOverride, InTime)<br>- : 가 (Move, Stop, Override, SpeedPattern, ServoOn) |
| 240510_0   | 2.117 | 2.7   | 2.9.2 | - : FW 가 (Home, SmartMove, StopCompt)   |
| 240503_0   | 2.116 | 2.7   | 2.9.2 | - : OverrideSpd ( )<br>-21060   |
| 240430_0   | 2.115 | 2.7   | 2.9.2 | - : State Machine fw down<br>- : All Disconnect   |
| 240423_1   | 2.113 | 2.7   | 2.9.2 | - : Init→PreOP  |
| 240415_0   | 2.112 | 2.7   | 2.9.2 | - : InPDOSkipCount 가<br>- : Init→PreOP 가<br>- : C#  |
| 240403_2   | 2.110 | 2.7   | 2.9.2 | - : 가 (OP, Mst, AxisMode)   |
| 240402_1   | 2.109 | 2.7   | 2.9.2 | - : NikkiDenso OP   |
| 240402_0   | 2.108 | 2.7   | 2.9.1 | - : Compiler VC22 to VC10 (Shared Memory )  |
| 240315_0   | 2.108 | 2.7   | 2.9   | - : ODM (SmartMoveToStart )<br>- : UnitSpeed - :<br>ecERR_DEV_BOOT_TIMEOUT(-8)<br>- : ecERR_DATASYNC_NOT_COMPT(-13) 가   |
| 240223_0   | 2.107 | 2.7   | 2.8   | - : 5003 Profile SCAN   |
| 240222_0   | 2.106 | 2.7   | 2.8   | - : SCAN  |
| 240221_0   | 2.105 | 2.7   | 2.8   | - : DLL (VC10→VC22)<br>- : Reg134 PreOP<br>- : 5003 Profile Slave 가   |
| 240215_2   | 2.104 | 2.6.5 | 2.7   | - : Slot Scan   |
| 240207_0   | 2.100 | 2.6.5 | 2.7   | - : Ring  |
| 240201_0   | 2.99  | 2.6.5 | 2.6.7 | - : SCAN-Download ( FW<br>Down )  |
| 240130_0   | 2.98  | 2.6.5 | 2.6.7 | - : Reg134ID Read Timeout<br>- : Slot SCAN (ComilDE v1.11 )<br>- : Ring , LINK -  |
| 240126_0   | 2.97  | 2.6.5 | 2.6.7 | - : (SxStop) 가<br>- : OP 가 Init   |
| 240123_0   | 2.96  | 2.6.5 | 2.6.7 | - Revert: MultiPacket (231102_0)  |
| 240119_0   | 2.95  | 2.6.5 | 2.6.7 | - : Sweep Override State , 가  |

| Cores Ver. | FW.         | Drv.           | DLL.           |  |
|------------|-------------|----------------|----------------|--|
| 240116_0   | 2.94        | 2.6.5          | <b>2.6.7</b>   | - : Reg134ID Read  |
| 231218_0   | 2.94        | <b>2.6.5</b>   | <b>2.6.6</b>   | - : DLL Load Exception<br>- : Driver (2.6.4.0 )  |
| 231102_0   | <b>2.94</b> | 2.6.4.0        | 2.6.5.0        | - : MultiPacket  |
| 231026_0   | <b>2.93</b> | 2.6.4.0        | 2.6.5.0        | - : BitSequence fix  |
| 231025_0   | <b>2.92</b> | 2.6.4.0        | <b>2.6.5.0</b> | - : OPDOSync 가<br>- : BitSequence 가<br>- : Master OP 가   |
| 230927_0   | <b>2.91</b> | 2.6.4.0        | <b>2.6.4.0</b> | - : Sweep Override Emul 가 ( )<br>- : Sweep Override Status 가, , Unmap<br>가 ( )<br>- : SmartMove 가 Interlock 가  |
| 230920_0   | <b>2.90</b> | 2.6.4.0        | <b>2.6.3.0</b> | - : RawInPDO 가<br>- : Master Board가 LoadDLL/UnloadDLL<br>App Crash   |
| 230914_0   | <b>2.89</b> | 2.6.4.0        | <b>2.6.2.0</b> | - : ReleaseNote 가 (md)<br>- : ( 가)<br>- : ODM (SmartVMoveStart<br>가 )  |
| 230822_1   | <b>2.87</b> | 2.6.4.0        | <b>2.6.1.0</b> | - : 230718_0 Raw[In/Out] PDO   |
| 230818_1   | <b>2.86</b> | <b>2.6.4.0</b> | <b>2.6.0.0</b> | - : BSOD<br>- : Sweep Override (ODM) Sampling Data<br>- : 230713_0 PCI<br>BSOD   |
| 230718_0   | <b>2.84</b> | <b>2.6.1.0</b> | <b>2.6.0.0</b> | - : Profile Torque Mode 가<br>- : Raw[In/Out] PDO   |
| 230713_0   | 2.83        | <b>2.6.0.0</b> | 2.5.3.0        | - : SBC(DMA), PCIEx, PCI   |
| 230523_1   | 2.83        | 2.5.1.0        | 2.5.3.0        | - : eccliGetLogicAddr 가  |
| 230523_0   | 2.83        | 2.5.1.0        | 2.5.3.0        | - : whql driver initial release  |
| 230519_0   | <b>2.83</b> | 2.5.0.0        | <b>2.5.3.0</b> | - : SDO FW Down<br>(221208_0 AbortCode )<br>- : ODM Smart[V]Move<br>가  |
| 230516_0   | <b>2.82</b> | 2.5.0.0        | 2.5.2.0        | - : LS IO OP<br>- : Weidmuller Slot OP   |
| 230508_0   | 2.82        | 2.5.0.0        | <b>2.5.2.0</b> | - : eccliPutOne_L() 가 Exception  |
| 230503_0   | <b>2.82</b> | 2.5.0.0        | 2.5.1.0        | - : rdp (s-curve extstop<br>)  |
| 230410_0   | <b>2.81</b> | 2.5.0.0        | <b>2.5.1.0</b> | - : C#<br>- : Slv_SdoInfo()<br>- : ResetEsc()<br>- : Servo Home Mode PDO “Mod of Operation”<br>( )<br>- : LmOverrideRatio() 0 Ratio (Invalid Parameter)<br>- : Delay ( )<br>- : SD Disable Latch 가 |

| Cores Ver. | FW.         | Drv.           | DLL.            |   |
|------------|-------------|----------------|-----------------|---|
| 230406_0   | <b>2.80</b> | 2.5.0.0        | 2.5.0.0         | - : Data  |
| 230313_0   | <b>2.78</b> | <b>2.5.0.0</b> | <b>2.5.0.0</b>  | - : DLL v2.4.12.0 Lx554 Load 가<br>- : NetID<br>interlock<br>- :   |
| 230307_0   | <b>2.77</b> | 2.4.3.0        | 2.4.12.0        | - : IDE LastConfig Auto Load<br>- : RingCnt Multiturn Home ComptPosition<br>- : ODM (LmOverrideRatio)<br>- : Virtual Axis 가<br>- : Alarm/Warning FW PDO 가   |
| 230223_0   | 2.76        | 2.4.3.0        | <b>2.4.12.0</b> | - DLL CPU   |
| 230217_0   | <b>2.76</b> | 2.4.3.0        | <b>2.4.11.0</b> | - ODM (Stop Override 가 )  |
| 230207_0   | <b>2.75</b> | 2.4.3.0        | <b>2.4.9.0</b>  | - Master Slave Slave 가  |
| 230206_0   | <b>2.74</b> | 2.4.3.0        | 2.4.8.0         | - OverrideMoveTo()<br>- Master Slave Slave  |
| 230201_0   | <b>2.73</b> | 2.4.3.0        | 2.4.8.0         | - ODM (ODM_OverrideSpeedByRatio)  |
| 230131_0   | <b>2.72</b> | 2.4.3.0        | 2.4.8.0         | - ODM (ODM_OverrideSpeedByRatio)  |
| 230127_0   | 2.71        | 2.4.3.0        | <b>2.4.8.0</b>  | - ODM (ODM_SmartVMove) DLL export   |
| 230116_0   | 2.71        | 2.4.3.0        | 2.4.6.0         | - Header  |
| 230115_0   | <b>2.71</b> | 2.4.3.0        | <b>2.4.6.0</b>  | - Standalone ODM (SO )  |
| 230109_0   | 2.70        | 2.4.3.0        | <b>2.4.5.0</b>  | - IX FW→DLL   |
| 230106_0   | <b>2.70</b> | 2.4.3.0        | <b>2.4.4.0</b>  | - Delay<br>- IX MasterAxisFix 가   |
| 221208_0   | <b>2.68</b> | <b>2.4.3.0</b> | <b>2.4.3.0</b>  | - Standalone<br>- UnitDist, UnitSpeed<br>- SetOutPdo Crash<br>- Header 가<br>- CoeSDO Abord Code 가<br>- LostFrame 가<br>- GetInfo Exception<br>- LmSt_GetRemStepCount() FW<br>( DLL+FW)<br>- HouseKeep Auto Download NetIdx→NetID<br>- SyncFactor1 (LS-iX7NH)<br>- NetID (NetIdx→NetID) |
| 221117_0   | 2.67        | <b>2.4.2.0</b> | 2.4.0.0         | - OpenDevice (-12)<br>- GetVerInfo() False  |
| 221027_0   | <b>2.67</b> | 2.4.1.0        | 2.4.0.0         | - SxMot_Stop TouchProbe   |
| 221024_2   | <b>2.65</b> | 2.4.1.0        | 2.4.0.0         | -   |
| 221024_0   | <b>2.63</b> | 2.4.1.0        | 2.4.0.0         | - OverrideSpeed 가   |
| 220926_0   | 2.62        | <b>2.4.1.0</b> | 2.4.0.0         | - Scan-Download BSOD 가  |
| 220920_0   | <b>2.62</b> | 2.4.0.0        | 2.4.0.0         | - DC-Sync Config (DC-Factor )   |
| 220907_1   | <b>2.60</b> | <b>2.4.0.0</b> | <b>2.4.0.0</b>  | - DC-Sync Config (Sync0, 1 Config )   |
| 220826_1   | <b>2.45</b> | 2.3.1.0        | <b>2.3.6.0</b>  | - OP (LinMot )  |
| -          | -           | -              | -               | <b>ComiIDE v1.9 Config가 ( OP 가)</b>   |

| Cores Ver. | FW.         | Drv.    | DLL.           |   |
|------------|-------------|---------|----------------|---|
| 220818_0   | <b>2.44</b> | 2.3.1.0 | 2.3.5.0        | - OP (LS-iX7 )  |
| 220805_0   | <b>2.43</b> | 2.3.1.0 | <b>2.3.5.0</b> | - LX553 가<br>- eccdiLtc_IsAddedChannel() Stack<br>- ecNet_IsBootCompt() NetID |

Version 3

| Cores Ver. | FW.         | Drv.         | DLL.         |  |
|------------|-------------|--------------|--------------|--|
| 240711_0   | <b>3.5</b>  | 3.0.1        | 3.0.3        | - Revert: 240709_0   |
| 240710_1   | <b>3.4</b>  | 3.0.1        | 3.0.3        | - : Override (240619_0 )   |
| 240619_0   | <b>3.3</b>  | 3.0.1        | 3.0.3        | - : Override   |
| 240614_0   | <b>3.2</b>  | 3.0.1        | 3.0.3        | - : Override, Stop +   |
| 240401_0   | <b>3.0</b>  | 3.0.1        | 3.0.3        | - : Sampling ( 20%)<br>- : BootUp Delay 가 ( Master )<br>- : Config OutPDO가 |
| 240327_0   | 3.0         | <b>3.0.1</b> | 3.0.3        | - : ODM (2XPattern ) Start IN_WAIT Interlock 가                             |
| 240116_1   | 3.0         | 3.0          | <b>3.0.3</b> | - : Reg134ID Read  |
| 231214_0   | 3.0         | 3.0          | <b>3.0.2</b> | - : 231114_0 IN_WAIT   |
| 231129_0   | 3.0         | 3.0          | <b>3.0.1</b> | - : DLL Load Exception   |
| 231114_0   | <b>3.0</b>  | <b>3.0</b>   | <b>3.0</b>   | - : ( Config )<br>- : LX553 PDO  |
| -          | -           | -            | -            | <b>Config</b> 1.10.5 <b>ComiIDE</b>  |
| 231102_0   | <b>2.94</b> | 2.6.4.0      | 2.6.5.0      | - : MultiPacket  |

|             |                |                |                                  |
|-------------|----------------|----------------|----------------------------------|
| <b>2.42</b> | 2.3.1.0        | <b>2.3.4.0</b> | - Slave FW Down                  |
|             |                |                | - Home                           |
| <b>2.41</b> | 2.3.1.0        | 2.3.3.0        | - 121 Home Mode EZ Low Spd →     |
| <b>2.39</b> | 2.3.1.0        | 2.3.3.0        | - TimeStrict IxMotion            |
| <b>2.38</b> | 2.3.1.0        | <b>2.3.3.0</b> | - Servo Driver                   |
| <b>2.37</b> | 2.3.1.0        | 2.3.1.0        | - All Disconnect<br>- AI State 가 |
| <b>2.36</b> | <b>2.3.1.0</b> | <b>2.3.1.0</b> | - Configuration Physical Address |
| <b>2.35</b> | 2.3.0.0        | 2.3.0.0        | SxStop TimeStrict 가              |
| <b>2.34</b> | 2.3.0.0        | 2.3.0.0        | EEPROM Read / Write              |
|             |                |                | Reg134                           |
|             |                |                | AIStatus                         |
|             |                |                | AIState Read failed timeout      |
| <b>2.32</b> | 2.3.0.0        | 2.3.0.0        | VMoveStart TimeStrict 가          |
| <b>2.31</b> | <b>2.3.0.0</b> | <b>2.3.0.0</b> | OutPDO Sync 가 (PDO Object )      |
| <b>2.29</b> | 2.1.0.2        | 2.2.0.1        | SDO Read/Write Timeout           |
| 2.27        | 2.1.0.2        | <b>2.2.0.1</b> | PDO 가                            |
| <b>2.27</b> | 2.1.0.2        | <b>2.1.3.0</b> | 4byte Data EEPROM Write          |
|             |                |                | Byte Data EEPROM Write 가         |

|      |         |          |  |
|------|---------|----------|--|
| 2.24 | 2.1.0.2 | 2.1.1.1  | NetID ( : NetIndex)  |
| 2.24 | 2.1.0.0 | 2.1.1.0  | Master/Slave Disconnect Bug ( Disconnect )<br>eaiGetChanVal_I_L() 가      |
| 2.23 | 2.1.0.0 | 2.1.0.4  | DoGetMulti, DiGetMulti 가 (FW 2.11 )<br>ListMotion Stop Bug ( 가 )         |
| 2.21 | 2.0.0.3 | 2.0.1.10 | HomeMode (1 114)   |
| 2.19 | 2.0.0.3 | 2.0.1.9  | Firmware Reset 가<br>Arc  |
| 2.15 | 2.0.0.3 | 2.0.1.7  | DC Debug 가<br>ESC Reset 가  |
| 2.13 | 2.0.0.3 | 2.0.1.5  | MasterDCOffset<br>OutPDO Write ( )                                       |
| 2.12 | 2.0.0.3 | 2.0.1.4  | LmRatio , 가<br>opdrop  |
| 2.11 | 2.0.0.3 | 2.0.1.3  | Dio Multi 32<br>8 Multi  |
| 2.09 | 2.0.0.3 | 2.0.1.2  | S-Curve<br>Helical Ix Override<br>Helical ListMotion                     |
| 2.08 | 2.0.0.3 | 2.0.1.2  | EL EL Stop 27.4<br>HomeOffset Unitdistance<br>S-Curve<br>ListMotion Stop |
| 2.07 | 2.0.0.3 | 2.0.1.2  | S-Curve workspeed compensation   |
| 2.06 | 2.0.0.3 | 2.0.0.6  | HelicalEx 가  |
| 2.05 | 2.0.0.3 | 2.0.0.5  | List Motion Stop   |
| 2.04 | 2.0.0.3 | 2.0.0.5  |  |
| 2.03 | 2.0.0.3 | 2.0.0.4  | ComiEcatLibCfg.ini   |
| 2.03 | 2.0.0.3 | 2.0.0.3  | HOME Settling time, command<br>ESCD Config                               |
| 2.02 | 2.0.0.1 | 2.0.0.2  | BSOD(0x1D)<br>DC-Sync Interrupt  |
| 2.01 | 2.0.0.0 | 2.0.0.1  | DIO Local SlvPhysAddr  |
| 2.01 | 2.0.0.0 | 2.0.0.0  | DPRAM Interface<br>Push/Pop Assembly 가                                   |
| 2.00 | 2.0.0.0 | 2.0.0.0  | LmDO (FW→DLL)  |
| 1.99 | 1.5.0.7 | 1.5.4.5  | Queue MailBox 가  |
| 1.98 | 1.5.0.7 | 1.5.4.5  | Ptm_Begin, Ptm_RemCount, PtmSt_GetRunSts<br>DC-Sync Offset               |
| 1.97 | 1.5.0.7 | 1.5.4.2  | Ix ListMotion INP 가  |
| 1.95 | 1.5.0.7 | 1.5.4.2  | ListMotion DO 가  |

|             |                |                |                                       |
|-------------|----------------|----------------|---------------------------------------|
| <b>1.94</b> | 1.5.0.6        | 1.5.3.3        | 121 가 (Z )                            |
|             |                |                | 가                                     |
| <b>1.93</b> | 1.5.0.6        | <b>1.5.3.3</b> | ecSlv_SetEscWDT_A()                   |
|             |                |                | DIR                                   |
| 1.92        | 1.5.0.6        | <b>1.5.4.1</b> | Driver Digital Output 가               |
|             |                |                | 가 Disconnect                          |
|             |                |                | In / Out Port DLL Crash               |
|             |                |                | InitOutPDOData BSOD                   |
| <b>1.92</b> | <b>1.5.0.6</b> | <b>1.5.3.2</b> | Driver 가                              |
|             |                |                | In / Out Port 가                       |
|             |                |                | LMSpdRatio 가                          |
|             |                |                | Driver TimeStamp 가                    |
|             |                |                | IDE Scan / Down DC Delay              |
| <b>1.88</b> | <b>1.5.0.5</b> | <b>1.5.1.9</b> | Single Turn Overflow Position Reset 가 |
| <b>1.87</b> | <b>1.5.0.3</b> | <b>1.5.1.8</b> | BSOD (0xD1)                           |
| <b>1.84</b> | 1.5.0.1        | <b>1.5.1.5</b> | ZVIS ( )                              |
|             |                |                | RingCounter_Absoulte                  |
|             |                |                | 27.4 (FW v1.76 ~)                     |
|             |                |                | v1.76 ~) Slave Disconnect (FW         |
| <b>1.82</b> | 1.5.0.1        | <b>1.5.1.3</b> | RDP 가                                 |
| <b>1.80</b> | 1.5.0.1        | <b>1.6.0.0</b> | MasterCMP Manual Output 가             |
|             |                |                | MasterCMP DO Output 가                 |
|             |                |                | 가                                     |
|             |                |                | (Redundancy)                          |
|             |                |                | ( ) 가                                 |
| <b>1.76</b> | 1.5.0.1        | <b>1.5.0.8</b> | ( ) 가                                 |
|             |                |                | 가                                     |
|             |                |                | Jerk Mode 가                           |
|             |                |                | (2 가 ) 가                              |
| <b>1.75</b> | 1.5.0.1        | <b>1.5.0.6</b> | HomeOffsetEx 가                        |
|             |                |                | 가                                     |
|             |                |                | ecmGn_InitFromFile                    |
| <b>1.72</b> | 1.5.0.1        | <b>1.5.0.4</b> | Jerk Profile_Velocity 가               |
|             |                |                | Jerk Profile_Time 가                   |
|             |                |                | CKD                                   |
| <b>1.71</b> | 1.5.0.1        | <b>1.5.0.3</b> | 1) 가                                  |
| 1.70        | 1.5.0.1        | 1.5.0.2        | 가                                     |

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        Object가  
8)  
CoeSDO Read Fail / write Fail  
9) 10)  
, PlatformInfo.xml, DeviceList.xml

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