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# Software Update History

## Version 2

| Cores Ver. | FW.          | Drv. | DLL.        |  |
|------------|--------------|------|-------------|--|
| 250605_0   | <b>2.162</b> | 2.15 | <b>2.25</b> | - : 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   | <b>2.160</b> | 2.15 | <b>2.24</b> | - : DLL (VC10→VC22)<br>- : NetInfo 가<br>- : ecmLmSt_GetQueltemCounts() 가   |
| 250430_0   | <b>2.159</b> | 2.15 | <b>2.23</b> | - : PossCorr PDO Follow 가  |
| 250411_0   | <b>2.158</b> | 2.15 | <b>2.22</b> | - : Frequency Inverter 가   |
| 250408_0   | <b>2.157</b> | 2.15 | 2.21        | - : Statemachine 가<br>- : AL Status  |
| 250401_1   | <b>2.156</b> | 2.15 | <b>2.21</b> | - : AL Status, DC Setup  |
| 250328_0   | <b>2.155</b> | 2.15 | 2.20        | - : 가 /<br>- : 가 /   |
| 250327_2   | <b>2.154</b> | 2.15 | 2.20        | - : 가  |
| 250327_0   | <b>2.153</b> | 2.15 | 2.20        | - : 가 OPDrop (Drop )<br>- : 가 AL Status Code ( / Slave )<br>- : OP ( / 10 )<br>- : MST/MODE ( / 0.2 )<br>- : hex ( h)  |
| 250324_0   | 2.152        | 2.15 | <b>2.20</b> | - : x64 OS event type CMP callback handler dll crash   |
| 250320_0   | <b>2.152</b> | 2.15 | 2.19        | - : Onboard CMP Feedback 가   |
| 250311_0   | <b>2.151</b> | 2.15 | 2.19        | - : LX554 onboard CMP  |
| 250212_0   | <b>2.150</b> | 2.15 | 2.19        | - : CMD 1 (fw v2.120 )   |
| 250210_0   | <b>2.149</b> | 2.15 | 2.19        | - : Servo Home ( Servo Home Start Delay )  |
| 250124_0   | <b>2.148</b> | 2.15 | <b>2.19</b> | - : Sync Start 2,3   |
| 250121_1   | <b>2.147</b> | 2.15 | <b>2.19</b> | - : 240726_0(FW v2.136) Cmd, Feed, RingCount<br>- : Max Device ( Device 8 , NET 8 )  |

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|------------|--------------|-------------|-------------|--|
| 250120_0   | <b>2.146</b> | 2.15        | <b>2.18</b> | - : ABS SvOn CMD<br>가<br>- : DSP Boot Cfg Config interlock<br>- : AnalogOutput F _L 가  |
| 250117_0   | <b>2.145</b> | 2.15        | <b>2.17</b> | - : ABS SvOn CMD<br>- : SxOutPDO_Set 가   |
| 241220_0   | <b>2.144</b> | 2.15        | <b>2.16</b> | - : 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   | <b>2.143</b> | 2.15        | <b>2.15</b> | - : (FW Build Version 가, Revision )<br>- : INP TimeOut 가<br>- : ecNet_GetBoardLed() 가<br>- : PreOP transition<br>- : Reg134 read   |
| 241108_0   | <b>2.142</b> | 2.15        | 2.14        | - : LX554 OnBoard CMP ,  |
| 240919_0   | <b>2.141</b> | 2.15        | 2.14        | - : Cfg ( Servo On 가 )   |
| 240913_2   | <b>2.140</b> | <b>2.15</b> | <b>2.14</b> | - : Bootcomplete DSP<br>(Datasync )<br>- : Express Type PDO ( PCI/Ex 가)  |
| 240830_0   | <b>2.138</b> | <b>2.13</b> | <b>2.13</b> | - : Disconnect Check<br>- : Express Type PDO Size (2k → 4k)  |
| 240726_0   | <b>2.136</b> | 2.10        | <b>2.12</b> | - : Servo On Operation Enable Timeout (0.5s→3s)<br>- : (1 CMD/FEED )   |
| 240711_1   | <b>2.135</b> | 2.10        | 2.11        | - : Arc  |
| 240705_1   | <b>2.132</b> | 2.10        | 2.11        | - : LM Arc OverrideByRatio   |
| 240703_0   | 2.131        | 2.10        | <b>2.11</b> | - : ecmlxCfg_SetSpeedPatt_time ErrorCode가 CCCC   |
| 240626_0   | <b>2.131</b> | 2.10        | 2.10        | - : LM Arc - : ELMO Drive<br>OP  |
| 240621_0   | <b>2.129</b> | 2.10        | 2.10        | - Override   |
| 240612_0   | <b>2.128</b> | 2.10        | 2.10        | - : OP Firmware Down   |
| 240610_0   | <b>2.127</b> | 2.10        | 2.10        | - : MultiPacket (1500byte ) Packet<br>(Config Packet )   |
| 240605_1   | <b>2.126</b> | 2.10        | 2.10        | - : SCAN (DISCONNECT ,<br>DISCONNECT SafeOP )  |
| 240604_1   | <b>2.124</b> | 2.10        | 2.10        | - : Disconnect, OP (Physical ID 0x0 가 )  |
| 240528_1   | <b>2.122</b> | 2.10        | 2.10        | - : DISCONNECT Slave   |

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|------------|--------------|-------------|--------------|--|
| 240528_0   | <b>2.121</b> | 2.10        | 2.10         | - : DISCONNECT, CONNECT<br>- : Physical Address 0  |
| 240523_0   | <b>2.120</b> | 2.10        | 2.10         | - : UnitDist   |
| 240521_0   | <b>2.119</b> | 2.10        | 2.10         | - : Core Interface<br>- : BitSequence RunState (240517_0 )   |
| 240517_0   | <b>2.118</b> | <b>2.10</b> | <b>2.10</b>  | - : Sweep Override Stop<br>- : SmartMoveTo() Stop 가<br>- eaERR_MOT_SEQ_SKIPPED_BACKWARD(-21061)<br>- : , DSP<br>- : Override(Smart[V]Move[To]), Stop<br>- : GetMotState<br>- : SubErrCode 가<br>- ecERR_MOT_CTRL_ALARM(-1011)<br>- ecERR_MOT_ETC(-1012)<br>- : ODM IN_WAIT Status 가 (SmartMove, SweepOverride, InTlme)<br>- : 가 (Move, Stop, Override, SpeedPattern, ServoOn) |
| 240510_0   | <b>2.117</b> | 2.7         | 2.9.2        | - : FW 가 (Home, SmartMove, StopCompt)  |
| 240503_0   | <b>2.116</b> | 2.7         | 2.9.2        | - : OverrideSpd ( )<br>-21060 )  |
| 240430_0   | <b>2.115</b> | 2.7         | 2.9.2        | - : State Machine fw down<br>- : All Disconnect  |
| 240423_1   | <b>2.113</b> | 2.7         | 2.9.2        | - : Init→PreOP   |
| 240415_0   | <b>2.112</b> | 2.7         | 2.9.2        | - : InPDOSkipCount 가<br>- : Init→PreOP 가<br>- : C#   |
| 240403_2   | <b>2.110</b> | 2.7         | 2.9.2        | - : 가 (OP, Mst, AxisMode)  |
| 240402_1   | <b>2.109</b> | 2.7         | <b>2.9.2</b> | - : NikkiDenso OP  |
| 240402_0   | 2.108        | 2.7         | <b>2.9.1</b> | - : Compiler VC22 to VC10 (Shared Memory )   |
| 240315_0   | 2.108        | 2.7         | <b>2.9</b>   | - : ODM (SmartMoveToStart )<br>- : UnitSpeed - :<br>ecERR_DEV_BOOT_TIMEOUT(-8)<br>- : ecERR_DATASYNC_NOT_COMPT(-13) 가  |
| 240223_0   | <b>2.107</b> | 2.7         | 2.8          | - : 5003 Profile SCAN  |
| 240222_0   | <b>2.106</b> | 2.7         | 2.8          | - : SCAN   |
| 240221_0   | <b>2.105</b> | 2.7         | 2.8          | - : DLL (VC10→VC22)<br>- : Reg134 PreOP<br>- : 5003 Profile Slave 가  |
| 240215_2   | <b>2.104</b> | 2.6.5       | 2.7          | - : Slot Scan  |
| 240207_0   | <b>2.100</b> | 2.6.5       | 2.7          | - : Ring   |
| 240201_0   | <b>2.99</b>  | 2.6.5       | 2.6.7        | - : SCAN-Download ( FW<br>Down )   |

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|------------|-------------|----------------|----------------|---|
| 240130_0   | <b>2.98</b> | 2.6.5          | 2.6.7          | - : Reg134ID Read Timeout<br>- : Slot SCAN (ComilDE v1.11 )<br>- : Ring , LINK -                              |
| 240126_0   | <b>2.97</b> | 2.6.5          | 2.6.7          | - : (SxStop) 가<br>- : OP 가 Init   |
| 240123_0   | <b>2.96</b> | 2.6.5          | 2.6.7          | - Revert: MultiPacket (231102_0)  |
| 240119_0   | <b>2.95</b> | 2.6.5          | 2.6.7          | - : Sweep Override State , 가  |
| 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        | - : ecdiGetLogicAddr 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> | - : ecdoPutOne_L() 가 Exception  |
| 230503_0   | <b>2.82</b> | 2.5.0.0        | 2.5.1.0        | - : rdp (s-curve extstop<br>)   |

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|------------|-------------|----------------|-----------------|---|
| 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  |
| 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         | -   |

| Cores Ver. | FW.         | Drv.           | DLL.           |  |
|------------|-------------|----------------|----------------|--|
| 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>  |
| 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>- ecdiLtc_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 1.10.5 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 Home FW Down             |
| <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 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        | <b>2.1.0.2</b> | <b>2.1.1.1</b> | NetID                                      | ( : NetIndex)  |            |
| <b>2.24</b> | 2.1.0.0        | <b>2.1.1.0</b> | Master/Slave Disconnect Bug ( Disconnect ) |                |            |
|             |                |                | ecaiGetChanVal_I_L() 가                     |                |            |
| <b>2.23</b> | <b>2.1.0.0</b> | <b>2.1.0.4</b> | DoGetMulti, DiGetMulti                     | 가              | (FW 2.11 ) |
|             |                |                | ListMotion Stop Bug                        | (              | 가          |
| <b>2.21</b> | 2.0.0.3        | 2.0.1.10       | HomeMode                                   | (1 114)        |            |
| <b>2.19</b> | 2.0.0.3        | <b>2.0.1.9</b> | Firmware Reset                             | 가              |            |
|             |                |                | Arc  |                |            |
| <b>2.15</b> | 2.0.0.3        | <b>2.0.1.7</b> | DC Debug                                   | 가              |            |
|             |                |                | ESC Reset                                  | 가              |            |
| <b>2.13</b> | 2.0.0.3        | <b>2.0.1.5</b> | MasterDCOffset                             |                |            |
|             |                |                | OutPDO Write                               | (              |            |
| <b>2.12</b> | 2.0.0.3        | <b>2.0.1.4</b> | LmRatio ,                                  | 가              |            |
|             |                |                | opdrop                                     |                |            |
| <b>2.11</b> | 2.0.0.3        | <b>2.0.1.3</b> | Dio Multi                                  | 32             |            |
|             |                |                | 8  | Multi          |            |
| <b>2.09</b> | 2.0.0.3        | 2.0.1.2        | S-Curve                                    |                |            |
|             |                |                | Helical Ix Override                        |                |            |
|             |                |                | Helical ListMotion                         |                |            |
| <b>2.08</b> | 2.0.0.3        | 2.0.1.2        | EL   | EL             | Stop 27.4  |
|             |                |                | HomeOffset Unitdistance                    |                |            |
|             |                |                | S-Curve                                    |                |            |
|             |                |                | ListMotion Stop                            |                |            |
| <b>2.07</b> | 2.0.0.3        | <b>2.0.1.2</b> | S-Curve workspeed compensation             |                |            |
| <b>2.06</b> | 2.0.0.3        | <b>2.0.0.6</b> | HelicalEx                                  | 가              |            |
| <b>2.05</b> | 2.0.0.3        | 2.0.0.5        | List Motion Stop                           |                |            |
| <b>2.04</b> | 2.0.0.3        | <b>2.0.0.5</b> |  |                |            |
| 2.03        | 2.0.0.3        | <b>2.0.0.4</b> | ComiEcatLibCfg.ini                         |                |            |
| <b>2.03</b> | <b>2.0.0.3</b> | <b>2.0.0.3</b> | HOME                                       | Settling time, | command    |
|             |                |                | ESCD Config                                |                |            |
| <b>2.02</b> | <b>2.0.0.1</b> | <b>2.0.0.2</b> | BSOD(0x1D)                                 |                |            |
|             |                |                | DC-Sync Interrupt                          |                |            |

|             |                |                |  |                      |
|-------------|----------------|----------------|--|----------------------|
| 2.01        | 2.0.0.0        | <b>2.0.0.1</b> | DIO Local                                | SlvPhysAddr          |
| <b>2.01</b> | 2.0.0.0        | 2.0.0.0        | DPRAM Interface                          |                      |
|             |                |                | Push/Pop Assembly                        | 가                    |
| <b>2.00</b> | <b>2.0.0.0</b> | <b>2.0.0.0</b> | LmDO                                     | (FW→DLL)             |
| <b>1.99</b> | 1.5.0.7        | 1.5.4.5        | Queue                                    | MailBox 가            |
| <b>1.98</b> | 1.5.0.7        | <b>1.5.4.5</b> | Ptm_Begin, Ptm_RemCount, PtmSt_GetRunSts | DC-Sync Offset       |
| <b>1.97</b> | 1.5.0.7        | 1.5.4.2        | Ix ListMotion                            | INP 가                |
| <b>1.95</b> | <b>1.5.0.7</b> | <b>1.5.4.2</b> | ListMotion DO                            | 가                    |
| <b>1.94</b> | 1.5.0.6        | 1.5.3.3        |  | 121 가 (Z )<br>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)                              |                      |
|             |                |                | ZVIS ( )                                 |                      |
| <b>1.84</b> | 1.5.0.1        | <b>1.5.1.5</b> | 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)                             |                      |
| <b>1.76</b> | 1.5.0.1        | <b>1.5.0.8</b> | ( )                                      | 가                    |
|             |                |                | ( )                                      | 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    |

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