XPS-Unified Package #43-20230816

Firmware: *XPS Unified V1.8.5*

- ✓ Add a new parameter "**TrajectoryBufferSize**" in **GENERAL** section of **system.ref** file to resize PT/PVT trajectory buffer size. **Default value must be 100**.
- ✓ Fix **PlusEndOfRunHomeSearch** issue. Bad computation of the offset of the home position.
- ✓ Fix **positionerPositionCompare** functionality which didn't work with AquadB encoders.

Web site XPS-D*: XPS-D 2.4.2*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N2*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.1 - DLL.Net V2.3.1*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified

- ✓ *EDH0373En1043 - V1.8.x (XPS Unified - Programmer's Manual)*

Manuals XPS-D

- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1053 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #42-20230713

Improve controller security.

Firmware: *XPS Unified V1.8.4*

- ✓ Merge 1.7.2.68 (dead branch) in the standard firm.
- ✓ Add GPIOInterlock feature.
- ✓ Add availableRamMemory gathering data.
- ✓ Fix issue : Y movement is done too early when using XYScanMoveAbsolute API.

Web site XPS-D*: XPS-D 2.4.2*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N2*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified

- ✓ EDH0373En1042 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1053 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #41-20220929

Firmware: *XPS Unified V1.8.3*
- ✓ Fix XYZ group infinite initialization when initialization sequence is not “Together”.

Web site XPS-D*: XPS-D 2.4.0*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N2*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *“.NET” assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified
- ✓ EDH0373En1041 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1052 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #40D-20230517

Firmware: *XPS Unified V1.8.2.2*

- ✓ Fix PlusEndOfRunHomeSearch issue. Bad computation of the offset of the home position.

Web site XPS-D*: XPS-D 2.4.2*

- ✓ Fix GroupMoveRelative from tuning page. When there are several positioners in the selected group, the relative move of the unselected positioners of this group correspond to their current position instead of 0.

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N2*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified

- ✓ EDH0373En1042 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1053 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #40C-20230123

Firmware: *XPS Unified V1.8.2.1*

- ✓ Add a new parameter "**TrajectoryBufferSize**" in **GENERAL** section of **system.ref** file to resize PT/PVT trajectory buffer size.

Web site XPS-D*: XPS-D 2.4.0*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N2*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified

- ✓ EDH0373En1042 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1053 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #40B-20221130

Firmware: *XPS Unified V1.8.2*

Web site XPS-D*: XPS-D 2.4.0*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N2*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified
- ✓ EDH0373En1042 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1053 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #40A-20221117

SATADOM version of #40

Firmware: *XPS Unified V1.8.2*

Web site XPS-D*: XPS-D 2.4.0*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N2*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified
- ✓ EDH0373En1041 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1052 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #40-20220829

Firmware: *XPS Unified V1.8.2*

- ✓ Enable PDSA only if PDSAInsputSensorBit parameters exists in the first MultipleAxes group in system.ini -> **this change in previous version of main controller was not properly done.**
- ✓ **Fix crash** of the controller with **certain configurations** when **PDSA** is **enabled**

Web site XPS-D*: XPS-D 2.4.0*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N2*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified

- ✓ EDH0373En1041 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1052 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #39-20220727

Firmware: *XPS Unified V1.8.1*

- ✓ Enable **PDSA** only if **PDSAInsputSensorBit** parameters exists in the first **MultipleAxes** group in **system.ini**.
- ✓ Change from **MotionDoneCumulativeConfirmationTime** to **MotionDoneCumulativeConfirmationTimeSwitch** in **GENERAL** section of **firmware.ref**.

Web site XPS-D*: XPS-D 2.4.0*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N2*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified

- ✓ EDH0373En1041 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1051 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #38B-20230607

Firmware: *XPS Unified V1.8*

Web site XPS-D*: XPS-D 2.4.2*

- ✓ Fix GroupMoveRelative from tuning page. When there are several positioners in the selected group, the relative move of the unselected positioners of this group correspond to their current position instead of 0.

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified

- ✓ EDH0373En1041 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1050 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #38-20220624

Firmware: *XPS Unified V1.8*

- ✓ Fix run away during initialization for **XY**, **MultipleAxes** and **XYZ** group. For **XYZ** group, the run away is not fixed for together initialization.

- ✓ Fix **XYLineArcVerification** API. When the API returned an error, future calls to this API returned the same error even if the trajectory is correct.

- ✓ Add **CRC** error.
  - Edit **STR_DRV_STATUS_TG_OPEN** : "TG is opened or no stage connected or command CRC error"

- ✓ Add new error code:
  - **-150** : “Unknown or not allowed PSO mode.”
  - **-151** : “Not enough PSO positioner.”
  - **-152** : “The positioners of the group are not on the same CIE board.”
  - **-153** : “PSO module of the CIE board is not compatible with multi-axis PSO.”
  - **-154** : “PSO is not configured for the positioners of this group.”
  - **-155** : “PSO is not enabled for this positioner.”
  - **-156** : “Not allowed when PSO is enabled.”
  - **-157** : “PSO generator number 1 already used.”

- ✓ Fix the error that if the API did not exist for the required group, it was indicated that the API did not exist. Even though it existed perhaps for another group.

- ✓ Fix the error that if the API was used with bad condition (Secondary positioner, config standard instead of Precision platform …), it was indicated that the API did not exists. Even though it existed perhaps for another group.

- ✓ Fix **GatheringExternalStopAndSaveAPI()** : external gathering was saved in gathering.dat instead of gatheringExternal.dat

- ✓ Add new APIs for PSO. However, these API are not released:
  - **GroupPSOPositionerNumberGet**
  - **GroupPSOPositionerNumberSet**
  - **GroupPSOInterpolationFactorSet**
  - **GroupPSOInterpolationFactorGet**
  - **GroupRelativePSOEnable**
  - **GroupRelativePSODisable**
  - **GroupAbsolutePSOPositionerVelocityPWMEnable**
  - **GroupAbsolutePSOPositionerVelocityPWMDisable**
  - **GroupAbsolutePSOGroupVelocityPWMDisable**
  - **GroupAbsolutePSOGroupVelocityPWMEnable**
  - **GroupRelativePSOWindowSet**
  - **GroupRelativePSOWindowGet**

Web site XPS-D*: XPS-D 2.4.0*

- ✓ Fix “Documentation” page access problem.

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified
- ✓ EDH0373En1041 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1050 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #37-20220317

Firmware: *XPS Unified V1.8*

- ✓ Fix run away during initialization for **XY**, **MultipleAxes** and **XYZ** group. For **XYZ** group, the run away is not fixed for together initialization.

- ✓ Fix **XYLineArcVerification** API. When the API returned an error, future calls to this API returned the same error even if the trajectory is correct.

- ✓ Add **CRC** error.
  - Edit **STR_DRV_STATUS_TG_OPEN** : "TG is opened or no stage connected or command CRC error"

- ✓ Add new error code:
  - **-150** : “Unknown or not allowed PSO mode.”
  - **-151** : “Not enough PSO positioner.”
  - **-152** : “The positioners of the group are not on the same CIE board.”
  - **-153** : “PSO module of the CIE board is not compatible with multi-axis PSO.”
  - **-154** : “PSO is not configured for the positioners of this group.”
  - **-155** : “PSO is not enabled for this positioner.”
  - **-156** : “Not allowed when PSO is enabled.”
  - **-157** : “PSO generator number 1 already used.”

- ✓ Fix the error that if the API did not exist for the required group, it was indicated that the API did not exist. Even though it existed perhaps for another group.

- ✓ Fix the error that if the API was used with bad condition (Secondary positioner, config standard instead of Precision platform …), it was indicated that the API did not exists. Even though it existed perhaps for another group.

- ✓ Fix **GatheringExternalStopAndSaveAPI()** : external gathering was saved in gathering.dat instead of gatheringExternal.dat

- ✓ Add new APIs for PSO. However, these API are not released:
  - **GroupPSOPositionerNumberGet**
  - **GroupPSOPositionerNumberSet**
  - **GroupPSOInterpolationFactorSet**
  - **GroupPSOInterpolationFactorGet**
  - **GroupRelativePSOEnable**
  - **GroupRelativePSODisable**
  - **GroupAbsolutePSOPositionerVelocityPWMEnable**
  - **GroupAbsolutePSOPositionerVelocityPWMDisable**
  - **GroupAbsolutePSOGroupVelocityPWMDisable**
  - **GroupAbsolutePSOGroupVelocityPWMEnable**
  - **GroupRelativePSOWindowSet**
  - **GroupRelativePSOWindowGet**

Web site XPS-D*: XPS-D 2.4.0*

- ✓ Fix “Documentation” page access problem.

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *1.8.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.3.0 - DLL.Net V2.3.0*
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)

Manuals XPS-Unified
- ✓ EDH0373En1040 - V1.8.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1051 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1021 (XPS-D - User Interface Manual)
- ✓ EDH0406En1021 (XPS-D - Configuration Manual)
- ✓ EDH0407En1050 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0375En1011 (XPS-RL – Help file)

XPS-Unified Package #36-20210309

Firmware: *XPS Unified V1.7.2.9*

- ✓ Fix slope issue in Sgamma profiler to enable **PostKFeedForward**

Web site XPS-D*: XPS-D 2.4.0*

- ✓ Fix "Documentation" page access problem.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.2.8*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)
- ✓

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)
- ✓

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)
- ✓

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)

- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #35-20210115

Firmware: *XPS Unified V1.7.2.8*

- ✓ Fix **FatalFollowingError** issue while moving for a long time (ex. Spindle mode) due to CIE position counter overrun.
- ✓ Add possibility to read configuration parameter in simple **mathematic expression format** (m*n/p/q*r*s/t*u/v....)
- ✓ Add **new API error** codes:
  - ***-86****: "Home search index error"*
  - ***- 220****: "Number of TCL script files exceeds limit"*
  - *- **221**: "Number of trajectory files exceeds limit"*
  - ***- 222****: "Action not allowed because the positioner corrector is in Option 0"*
- ✓ Add new **XY group state**:
  - ***137****: "Not initialized state due to all retry failed with index error during homing"*
- ✓ Return error **-36** ("Unknown TCL file") if TCLFileName or TaskName contains any space or tabulation, for the following APIs :
  - *TCLScriptExecute()*
  - *TCLScriptExecuteAndWait()*
  - *TCLScriptExecuteWithPriority()*
- ✓ Change error code from **-134** ("Changing the loop status is allowed in DISABLE state only") to **-117** ("Function is only allowed in DISABLED state") for the following APIs:
  - *PositionerCorrectorDamperFilterSet()*
  - *PositionerCorrectorPlantFeedForwardDelaySet()*
  - *PositionerCorrectorPIDAccelerationFilterSet()*
  - *PositionerCompensationPositionFilterSet()*
  - *PositionerCompensationPostExcitationLowPassTwoFilterSet()*
  - *PositionerCompensationPostExcitationPhaseCorrectionFilterSet()*
  - *PositionerCompensationNotchModeFiltersSet()*
  - *PositionerCompensationPhaseCorrectionFiltersSet()*
  - *PositionerCompensationPostExcitationNotchModeFilterSet()*
  - *PositionerCompensationPostExcitationFrequencyNotchFilterSet()*
  - *PositionerCompensationPreFeedForwardSpatialPeriodicNotchFilterSet()*
  - *PositionerCompensationPreFeedForwardFrequencyNotchFilterSet()*
  - *PositionerCompensationFrequencyNotchsSet().*
  - *PositionerCompensationSpatialPeriodicNotchsSet()*
  - *PositionerCompensationPreFeedForwardPhaseCorrectionFilterSet()*
  - *PositionerCompensationPhaseCorrectionFilterSet()*
  - *PositionerCompensationFrequencyNotchFilterSet()*
  - *PositionerCompensationEncoderPhaseCorrectionFilterSet()*
  - *PositionerCompensationEncoderNotchFilterSet()*
- ✓ Correct **TCLScriptsListGet**() (hidden API): returns error **-220** ("Number of TCL script files exceeds limit") if number of TCL script files >= 200 in /Admin/Public/Scripts/,
- ✓ Correct **TrajectoryFilesListGet**() (hidden API): returns error **-221** ("Number of trajectory files exceeds limit") if number of trajectory files >= 100 in /Admin/Public/Trajectories/,.
- ✓ Correct **GatheringDataMultipleLinesGet**() : returns error **-3** (“String too long”) if the gathering lines data buffer overruns (maximum 65535 bytes).
- ✓ Correct **DataCollectionRequest**() : returns error **-3** (“String too long”) if the data collection buffer overruns (maximum 143290 bytes).
- ✓ Improve **GroupPositionCurrentGet**() and **GroupPositionCurrentRawGet**() to make it working in XY gantry configuration.

- ✓ Add error code **-222** ("Action not allowed for secondary positioner that is in Option 0") for the APIs:
  - *PositionerExcitationSignalSet()*
  - *PositionerExcitationSignalCorrectorOutSet()*
  - *PositionerPreCorrectorExcitationSignalSet()*
- ✓ Correct output data of the API **EventExtendedGet**()
- ✓ Add line in **/Admin/Config/system.ref** to configure **DebugTraceCommunication** feature:

```
[GENERAL]
DebugTraceCommunicationTraceAll = ; Enabled or Disabled
```

- ✓ Correct **PDSA** function prototype for the following APIs:
  - *MultipleAxesPDSAEscaladeStepExecution()*
  - *MultipleAxesPDSAEscaladeContinuousExecution()*
- ✓ The **gantry index difference** is calculated in relation to **Encoder positions** instead of Corrected Setpoint positions
- ✓ Manage the **home index detection issue**:
  - Add a **home index time out** for **MechanicalAndIndexHomeSearch** and **IndexHomeSearch**
  - Add a **home search retry counter** in **XY group**
  - Add new **XY** parameters in **/Admin/Config/System.ini**:

```
[XY]
HomeSearchRetry = 3 ; 0 = one home search sequence without retry
[XY.X]
HomeSearchIndexTimeOut = 1; sec (Gantry: used for X1 and X2)
[XY.Y]
HomeSearchIndexTimeOut = 1; sec (must be less than HomeSearchTimeOut configured
                                 in stages.ini)
```

***Web site XPS-D**: XPS-D 2.3.9*

- ✓ Fix “Front panel” page display problem.

***Web site XPS-RL:** XPS-RL 2.0.0 Beta 4*
***Web site XPS-Q:** Web Ajax V2.2.4*

***QNX kernel XPS-D:** QNX kernel configuration V3.0.22*
***QNX kernel XPS-RL:** QNX kernel configuration V3.0.1*
***QNX kernel XPS-Q:** QNX kernel configuration V2.2.5*

***TCL interpretor:** V1.7.2.8*
***TCL Library:** V8.4*
***LoadModules:** V1.2.3*
***RestartApplication:** V1.0.15*
***ResetMotors:** V1.0.1 (not used)*
***GetTCLTaskNameList:** V1.0.1*
***InitializeIp:** V2.0.1*
***MakeAjaxData:** V1.2.3 (not used for XPS-D)*

***Basic external module template:** V1.0.0 – N1*
***EtherCATSlaveCiA402 external module template:** V1.0.0 – N1*
***ExternalInterlockA external module template:** V2.0.0 – N1*
***LaserModulation external module template:** V1.0.0 – N1*
***ShutterInterlock external module template:** V1.0.0 – N1*
***External6DofGapControl external module template:** V1.0.0 – N2*

Software drivers:

- ✓ *“.NET” assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)

- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #34H-20230713

Evolution of config from #34F-20220614

Firmware: *XPS Unified V1.7.2.69*

Web site XPS-D*: XPS-D 2.4.2*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)

XPS-Unified Package #34G-20230427

Evolution of config from #34E-20220602

Firmware: *XPS Unified V1.7.2.65*

Web site XPS-D*: XPS-D 2.4.2*

- ✓ Fix GroupMoveRelative from tuning page. When there are several positioners in the selected group, the relative move of the unselected positioners of this group correspond to their current position instead of 0.

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)

XPS-Unified Package #34F-20220614

Evolution of config from #34E-20220602
Evolution of firmware from 1.7.2.65

Firmware: *XPS Unified V1.7.2.68*
- ✓ Allows to ignore GeneralInhibitSignal.

Web site XPS-D*: XPS-D 2.4.0*
- ✓ Documentation page correction

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)

XPS-Unified Package #34E1-20220705

Evolution of config from #34E-20220602
This snapshot is compatible with SATA instead of USB.
Firmware: *XPS Unified V1.7.2.65*

Web site XPS-D*: XPS-D 2.4.0*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)

XPS-Unified Package #34E-20220602

Evolution of config from #34D-20220216
Evolution website version 2.3.9 -> 2.4.0
Firmware: *XPS Unified V1.7.2.65*
- ✓ Fix runaway during initialization (Only for XY group without gantry).

Web site XPS-D*: XPS-D 2.4.0*
- ✓ Documentation page correction

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)

XPS-Unified Package #34D-20220216

Evolution of config from #34C-20211220
Evolution of firm from 1.7.2.63
Firmware: *XPS Unified V1.7.2.65*
- ✓ Fix runaway during initialization (Only for XY group without gantry).

Web site XPS-D*: XPS-D 2.3.9*
- ✓ Fix "Front panel" page display problem.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

Config
- Stages.ini

- Change comments.
- Piezo ScalingVelocity & VelocityLimit change from 30 to 133.
- Y :
  - EncoderZMPlug change from Driver to Encoder
  - EncoderInterpolationFactor change from 1000 to 4000
  - JerkTime change from 0.035 to 0.04
  - ServitudeType change from StandardEORDriverPlug to StandardEOREncoderPlug
  - KFeedForwardJerk change from 0.0005 to 0.
  - CompensationFilter_FrequencyNotch1_Frequency change from 360 to 0
  - CompensationFilter_FrequencyNotch1_Bandwidth change from 50 to 0
  - CompensationFilter_FrequencyNotch1_Gain change from 0.6 to 0
  - AccelerationLimit change from 57000 to 18000
  - MotionDoneTimeout change from 2 to 0.5
  - FatalFollowingError change from 0.1 to 0.05
  - KD change from 700 to 600
- X :
  - ScalingAcceleration change from 42000 to 32000
  - AccelerationLimit change from 39000 to 10000
  - SecondMotorForceBalance change from 0.5 to 0.6
  - EncoderZMPlug change from Driver to Encoder
  - PositionerMappingLineNumber change from 101 to 100
  - MinimumJerkTime change from 0.035 to 0.04
  - MaximumJerkTime change from 0.035 to 0.04
  - ServitudesType change from StandardEORDriverPlug to StandardEOREncoderPlug
  - FatalFollowingError change from 0.5 to 0.05
  - KS change from 0.8 to 0.5
  - CompensationFilter_FrequencyNotch1_Bandwidth change from 80 to 50
  - CompensationFilter_FrequencyNotch1_Gain change from 0.5 to 0.1
  - CompensationFilter_FrequencyNotch2_Frequency change from 270 to 0
  - CompensationFilter_FrequencyNotch2_Bandwidth change from 50 to 0
  - CompensationFilter_FrequencyNotch2_Gain change from 0.5 to 0
- system.ini
  - XMappingLineNumber change from 19 to 23. YMappingLineNumber change from 19 to 23.

XPS-Unified Package #34C-20211220

Evolution of config from #34-20201126
Evolution of firm from 1.7.2.61
Firmware: *XPS Unified V1.7.2.63*
- ✓ Fix ZTT together initialization in order to MotorOn all axis before close the loops. Indeed,MotorOn can cause a big following error.

Web site XPS-D*: XPS-D 2.3.9*
- ✓ Fix "Front panel" page display problem.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

Config

- ✓ EncoderScalePitch = 0.004

XPS-Unified Package #34B-20210719

Firmware: *XPS Unified V1.7.2.62*

- ✓ - Add a new switch in firmware.ref in order to calculate the motionDone time as the SPX version if this switch is activated.

Web site XPS-D*: XPS-D 2.3.9*

- ✓ Fix "Front panel" page display problem.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #34A-20210615

Firmware: *XPS Unified V1.7.2.6*
- ✓ No change.

Web site XPS-D*: XPS-D 2.3.9*
- ✓ Fix "Front panel" page display problem.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.1.1*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)

EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #34-20201126

Firmware: *XPS Unified V1.7.2.6*
- ✓ No change.

Web site XPS-D*: XPS-D 2.3.9*
- ✓ Fix "Front panel" page display problem.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #33E-20220218

Evolution of config from #33C-20210106
Evolution of firm from 1.7.2.64

Firmware: *XPS Unified V1.7.2.67*
- ✓ Fix runaway during initialization (Only for XY group without gantry).

Web site XPS-D*: XPS-D 2.3.7*
- ✓ No change

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #33D-20220218

Evolution of config from #33B-20210615
Evolution of firm from 1.7.2.61

Firmware: *XPS Unified V1.7.2.66*
- ✓ Fix runaway during initialization (Only for XY group without gantry).

Web site XPS-D*: XPS-D 2.3.7*
- ✓ No change

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #33C-20220106

Firmware: *XPS Unified V1.7.2.64*
- ✓ Allows to ignore GeneralInhibitSignal.

Web site XPS-D*: XPS-D 2.3.7*
- ✓ No change

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #33B-20210615

Firmware: *XPS Unified V1.7.2.61*

- ✓ Fix problem of API **VTTrajectory::APITrajectoryLoadToMemory** (). Pass in comment of the creation of the log when the load is a success in order to optimize the execution time. Execution time before change ~= 3.5 ms. Execution time after change ~= 0.03 ms.

Web site XPS-D*: XPS-D 2.3.7*

- ✓ No change

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #33-20200803

Firmware: *XPS Unified V1.7.2.6*

- ✓ Fix problem of API **XYScanExecutePVT**() doesn't reply when FollowingError, EmergencyStop or EmergencyBrake occurs during execution.

Web site XPS-D*: XPS-D 2.3.7*

- ✓ No change

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #32-20200723

Firmware: *XPS Unified V1.7.2.5*

- ✓ Fix problem of data lost with API GatheringDataMultipleLinesGet()
- ✓ Fix problem of file saving synchronization with API GatheringStopAndSave()
- ✓ Add APIs :
  - PositionerMagneticTrackPositionAtHomeSet()
  - PositionerEncoderLinearCorrectionGet()
  - PositionerEncoderLinearCorrectionSet()
  - XYDualCorrectorMappingGet() // Precision Platform controller only
  - XYDualCorrectorMappingSet() // Precision Platform controller only
  - XYGantryDestressingMappingGet() // Precision Platform controller only
  - XYGantryDestressingMappingSet() // Precision Platform controller only
- ✓ Improve API ExternalModuleSocketFree()
- ✓ Improve API XYPVTLoadToMemory() (data blocks separator is a single character "#" or two successive characters "\" and "n")
- ✓ Fix problem of execution with API XYScanExecutePVT()
- ✓ Fix problem of communication lost with API APIExtendedListGet()
- ✓ Make visible API GroupGoToNotReferenced(XY) to be used in a TCL program.

Web site XPS-D*: XPS-D 2.3.7*

- ✓ No change

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #31-20200702

Firmware: *XPS Unified V1.7.2.4*
- ✓ Improve API ExternalModuleSocketFree()
- ✓ Improve API XYPVTLoadToMemory() (data blocks separator is a single character "#" or two successive characters "\" and "n")
- ✓ Fix problem of execution with API XYScanExecutePVT()

Web site XPS-D*: XPS-D 2.3.7*
- ✓ Fix problem of “Lissajous” page display

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *“.NET” assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)

- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #30-20200527

Firmware: *XPS Unified V1.7.2.3*

- ✓ Add APIs :
  - PositionerMagneticTrackPositionAtHomeSet()
  - PositionerEncoderLinearCorrectionGet()
  - PositionerEncoderLinearCorrectionSet()
  - XYDualCorrectorMappingGet() // PP only
  - XYDualCorrectorMappingSet() // PP only
  - XYGantryDestressingMappingGet() // PP only
  - XYGantryDestressingMappingSet() // PP only
- ✓ Make visible API GroupGoToNotReferenced(XY) to be used in a TCL program.
- ✓ Fix problem of communication lost with API APIExtendedListGet()

Web site XPS-D*: XPS-D 2.3.6*

- ✓ Fix problem of Files / Configuration files / LOAD CONFIG and SAVE CONFIG
- ✓ Fix problem of result data display in "Functional Test" page.
- ✓ Fix problem of special characters used in TCL programs

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)

- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #29-20200218

Firmware: *XPS Unified V1.7.2.2*

- ✓ Add feature "AbsoluteEncoder", new switch in firmware.ref :
  `AbsoluteEncoderSwitch = ;--- Disabled or Enabled"`
- ✓ Improve API GatheringDataMultipleLinesGet(): create a thread to not disturb ISR interrupts during API execution.
- ✓ Improve API GatheringStopAndSave() and GatheringDataMultipleLinesGet(): make API waiting until data getting or saving end before return to user.
- ✓ Improve API ...PVTLoadToMemory() (*XYPVTLoadToMemory for example*) to send several data blocks with an only command (use "#" as blocks separator) (PP only).
- ✓ Fix problem of XYJitter calibration (PP AMAT only).

Web site XPS-D*: XPS-D 2.3.2*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)

- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #28-20200204

Firmware: *XPS Unified V1.7.2.1*
- ✓ Improve API "InitializeAndHomeXY": avoid Piston get out if an error occurs

Web site XPS-D*: XPS-D 2.3.2*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #27E-20220314

Firmware: *XPS Unified V1.7.2.65*
- ✓ Fix runaway during initialization (Only for XY group without gantry).

Web site XPS-D*: XPS-D 2.3.2*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #27D-20211207

Firmware: *XPS Unified V1.7.2.13*
- ✓ Fix initialization error after killAll.
- ✓ Fix wrong unclamp timeOut.

Web site XPS-D*: XPS-D 2.3.2*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #27C-20210916

Firmware: *XPS Unified V1.7.2.12*
- ✓ Fix clamping time out.

Web site XPS-D*: XPS-D 2.3.2*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified
- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #27B-20210521

Firmware: *XPS Unified V1.7.2.1B*

- ✓ Add a new gathering data
  - TimeFromBoot : The time in second from the boot of the XPS.

Web site XPS-D*: XPS-D 2.3.2*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #27-20200122

Firmware: *XPS Unified V1.7.2*

- ✓ Fix BootScript execution issue
- ✓ MultipleAxes group: clean source code
- ✓ Fix GatheringOneData action issue
- ✓ Fix HexapodMoveIncrementalControlPulseAndGatheringSet API issue
- ✓ Restore API "HexapodSGammaParametersDistanceGet"
- ✓ Modification of the Hexapod right path trajectory management to avoid a buffer memory limitation
- ✓ Add new group status:
  - 400: Trajectory calculation state
  - 401: Ready state from trajectory calculation error
- ✓ New stages.ini parameter "MotionDoneCheckEvenIfNoMove" (PrecisionPlatform only) allowing to check VelocityAndPositionWindow MotionDone even in case of GroupMoveRelative(0)
- ✓ EventsAndActions: Allow "ExecuteCommand" action to work with Standard firmware
- ✓ EventsAndActions: Allow "MoveAbort" action to abort move for not only a group but a positioner also (example: XY.X.MoveAbort)
- ✓ Fix communication lost problem of SetGantryMode() if an error occurs during the command execution (EmergencyStop, EmergencyBrake, FollowingError, SlaveError, ZygoError, ...) (PrecisionPlatform only)
- ✓ Fix problem of end of run glitch error at controller boot.
- ✓ Fix problem of FatalFollowingError with MoveSlice API

Web site XPS-D*: XPS-D 2.3.2*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.2.0.0 - DLL.Net V2.2.0*

Manuals XPS-Unified

- ✓ EDH0373En1030 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)

- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #26-20191107

Firmware: *XPS Unified V1.7.1*
- ✓ Fix problem of group status (MOVING, TRAJECTORY, …) lost during EmergencyBrake.
- ✓ Manage EtherCAT PP mode for all groups
- ✓ XY Clamp: Remove system.ini ClampInputMode and ClampOutputMode parameters (PP only)

Web site XPS-D*: XPS-D 2.3.1*
- ✓ Bugs correction.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.7.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.1.2.0 - DLL.Net V2.1.2*

Manuals XPS-Unified
- ✓ EDH0373En1025 - V1.7.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1040 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1012 (XPS-D - User Interface Manual)
- ✓ EDH0406En1012 (XPS-D - Configuration Manual)
- ✓ EDH0407En1032 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #25-20190930

Firmware: *XPS Unified V1.6.0.1*

- ✓ Add new parameters in firmware.ref :
  [GENERAL]
  - *PCOExtendedSwitch = ;--- Disabled or Enabled*
  - *PDSASwitch = ;--- Disabled or Enabled*
- ✓ Add PDSA APIs :
  - *MultiplePDSAAxisByAxisExecution()*
  - *MultipleAxesPDSASpiralStepExecution()*
  - *MultipleAxesPDSASpiralContinuousExecution()*
  - *MultipleAxesPDSARasterExecution()*
  - *MultipleAxesPDSADichotomyExecution()*
  - *MultipleAxesPDSAEscaladeStepExecution()*
  - *MultipleAxesPDSAEscaladeContinuousExecution()*
- ✓ Set PCOExtended mode by PCOExtendedSwitch value in firmware.ref (CONFIDENTIAL) instead of CIE board reference decoding.
- ✓ Add a thread to calculate Hexapod RightPath trajectory
- ✓ Add APIs to perform Hexapod PVT / PT trajectory tool in Work (hidden and not qualified):
  - *HexapodPTExecute*
  - *HexapodPVTExecute*
- ✓ Add APIs to limit hexapod travel in work (hidden and not qualified):
  - *HexapodCoordinateTravelLimitEnable*
  - *HexapodCoordinateTravelLimitDisable*
  - *HexapodCoordinateTravelLimitGet*
  - *HexapodCoordinateTravelLimitSet*
- ✓ Add APIs to intialize hexapod group without motion (hidden and not qualified):
  - *GroupInitializeFromRegistration*
  - *GroupKillWithRegistration*
  - *GroupReadyAtPosition*
- ✓ Correct Jog profiler calculation to improve reaction of API GroupJogParametersSet()
- ✓ Fix problem of stage run away when jogging at very low velocity (< 1e-14 units/s)
- ✓ Fix problem of wrong parameter number (error -9) in API PositionerCompensatedFastPCOPrepare()
- ✓ Replace “KillAll" with “GroupKill(XY)” call in the process API IninitializeAndHomeXY() to avoid Piston be engaged during this period.

Web site XPS-D*: XPS-D 2.2*

- ✓ No change.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.6.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*

MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.1.1.0 - DLL.Net V2.1.1*

Manuals XPS-Unified

- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #24-20190827

Firmware: *XPS Unified V1.6.0*

- ✓ Add parameters in system.ini for Hexapod group:
  [HEXAPOD]
  ToolInWorkTravelLimitationMode = ;--- Disabled or Enabled
  ToolInWorkTravelLimitationFileName = ;ToolInWorkTravelLimits.txt
- ✓ Add Mask group + new parameter "MaskInUse " in system.ini
  [GROUPS]
  MaskInUse =
- ✓ Add new parameter "XYClampSwitch" (firmware.ref):
  [PrecisionPlatform]
  XYClampSwitch = ;--- Disabled or Enabled
- ✓ Add Clamping in XY group + new parameters in system.ini (only if XYClampSwitch is Enabled)
  [XY.Positioner]
  ClampInputBit =
  ClampInputMode =
  ClampOutputMode =
  ClampOutputBit =
  ClampRestType =
  ClampActivatingTime =
  ClampReleaseTime =
  ClampActivatingTimeOut =
  ClampReleaseTimeOut =
- ✓ Fix setting/getting problem of SetZone() / GetZone() API
- ✓ Fix displaying problem of Web Tuning and FineTuning pages in 8-axes configuration when system.ini GroupName length exceeds 5 characters

Web site XPS-D*: XPS-D 2.2*

- ✓ Add HEXAPOD new page.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.6.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.1.1.0 - DLL.Net V2.1.1*

Manuals XPS-Unified

- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #23-20190729

Firmware: *XPS Unified V1.5.2*

- ✓ Fix problem of ExternalMotionProfileGenerator initialize function to start profiler
- ✓ Fix problem of GatheringDataMultipleLinesGet API

Web site XPS-D*: XPS-D 2.1.0*

- ✓ No change.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.5.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.1.0.0 - DLL.Net V2.1.0*

Manuals XPS-Unified

- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #22-20190711

Firmware: *XPS Unified V1.5.1*

- ✓ Add new parameters for TZ group in ZTT mode (system.ini) :
  - *;--- Travel in ZTT space*
  - *MinimumTargetPositionTZ = ;--- units*
  - *MaximumTargetPositionTZ = ;--- units*
- ✓ Add new APIs for Hexapod group :
  - *GroupKillWithRegistration*
  - *GroupInitializeFromRegistration*
- ✓ Add XPS-DRV04

Web site XPS-D*: XPS-D 2.1.0*

- ✓ No change.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.5.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.1.0.0 - DLL.Net V2.1.0*

Manuals XPS-Unified

- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)

- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #21-20190627

Firmware: *XPS Unified V1.5.0*

- ✓ Manage new external module model :
  - + ***External6DofGapControl****: N2*
- ✓ Add new APIs (for **TZ** group only)
  - + *int* ***GroupExternalProfilerEnable****(char * TZGroupName)*
  - + *int* ***GroupExternalProfilerDisable****(char * TZGroupName)*
- ✓ Add new group status
  - + *300 : "External profiler is enabled"*
  - + *301 : "Ready state due to an external profiler disable"*
  - + *302 : "Disable state due to an External Profiler error"*
  - + *303: "Disable state due to a following error on External profiler enabled state"*
  - + *304 : "Disable state due to a master/slave error on External profiler enabled state"*
  - + *305 : "Disabled state due to a group interlock error during External Profiler control"*
- ✓ Add new errors:
  - + *ERR_EXTERNAL_MODULE_ERROR = 219*
  - + *STR_ERR_EXTERNAL_MODULE_ERROR = "Error generated by external module"*
- ✓ Add **Hexapod** group with new switch to activate it
- ✓ Internal modifications about the string management
- ✓ Increase received buffer to decode commands coming from multiple-order command line WEB server.

Web site XPS-D*: XPS-D 2.1.0*

- ✓ No change.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.5.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*
External6DofGapControl external module template: *V1.0.0 – N2*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.1.0.0 - DLL.Net V2.1.0*

Manuals XPS-Unified

- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)

- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #20-20190607

Firmware: *XPS Unified V1.4.1.1*
- ✓ Fix problem of set Motor On error with PIDFFAcceleration corrector.
- ✓ **TZ** group: Fix problem of position control in ZTT mode.

Web site XPS-D*: XPS-D 2.1.0*
- ✓ No change.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.22*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.4.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3 (not used for XPS-D)*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*
LaserModulation external module template: *V1.0.0 – N1*
ShutterInterlock external module template: *V1.0.0 – N1*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installer V2.1.0.0 - DLL.Net V2.1.0*

Manuals XPS-Unified
- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #19-20190517

Firmware: *XPS Unified V1.4.1*

- ✓ Add parameter in **stages.ini** used for IndexHomeSearch (*Precision Platform only*)
  ```
  PlusEORSurveyDuringHome = ;--- Enabled or Disabled
  ```
- ✓ Add parameter in **system.ini**
  ```
  SecondaryPositionerGantryAfterHomeLastMoveDelay = 5 ;--- seconds
  ```
- ✓ Remove parameters in **system.ref**
  ```
  [DEBUG]
  ~~DelayAfterHomeLastGantryMove = 10 ;--- seconds~~
  ~~FollowingErrorEnabled = Disabled ;--- Disabled or Enabled~~
  ```
- ✓ New external modules :
  - LaserModulation: N1
  - ShutterInterlock: N1
- ✓ Add XY ShutterInterlock feature
- ✓ Add XY XScan feature.
- ✓ Add MultipleAxes LaserShutter feature
- ✓ Add new switch in **firmware.ref** :
  ```
  XYScanShutterInterlockSwitch =     ;--- Disabled or Enabled
  MultipleAxesLaserShutterSwitch =   ;--- Disabled or Enabled
  ```
- ✓ Add APIs :
  - XYScanNextGet()
  - XYScanNextSet()
  - XYScanMoveAbsolute()
  - XYScanMoveRelative()
  - XYScanExecutePVT()
  - XYScanShutterDisable()
  - XYScanShutterEnable()
  - XYShutterInterlockMonitoringDisable()
  - XYShutterInterlockMonitoringEnable()
  - XYShutterInterlockParametersGet()
  - XYShutterInterlockParametersSet()
  - MultipleAxesDisableShutter()
  - MultipleAxesScanPositions()
  - MultipleAxesGetShutterPositions()
  - MultipleAxesSetShutterPositions()
  - MultipleAxesTraceNextScan()
- ✓ Add group status :
  - 109 : "Scanning state"
  - 110 : "Ready state from scan done"
  - 111 : "Ready state from scan error"
  - 112 : "Ready state from group interlock error during scan"
  - 113 : "Ready state from scan abort"
  - 114 : "Disabled state due to an error during scan"
  - 115 : "Disabled state due to a following error during scan"
  - 116 : "Disabled state due to a motion done timeout during scan"
  - 117 : "Disabled state due to a group interlock error during scan"
  - 118 : "Disabled state due to a ZYGO error during scan"
  - 119 : "Disabled state due to a master/slave error during scan"
  - 120 : "PVT scanning state"
  - 121 : "Ready state from PVT scan done"
  - 122 : "Ready state from group interlock error during PVT scan"
  - 123 : "Ready state from PVT scan abort"
  - 124 : "Disabled state due to a following error during PVT scan"
  - 125 : "Disabled state due to a motion done timeout during PVT scan"
  - 126 : "Disabled state due to a group interlock error during PVT scan"
  - 127 : "Disabled state due to a ZYGO error during PVT scan"
  - 128 : "Disabled state due to a master/slave error during PVT scan"
  - 129 : "Shutter enable ready state"
  - 130 : "Shutter enable moving state"
  - 131 : "Ready state from shutter done"
  - 132 : "Ready state from shutter error"
  - 133 : "Ready state from shutter disable"
  - 134 : "Ready state due to a group interlock error during shutter enable"
  - 135 : "Disabled state due to a following error during shutter enable"
  - 136 : "Disabled state due to a motion done timeout during shutter moving"
- ✓ Add hidden API to unlock/relock system files : UnlockFiles() and RelockFiles()
- ✓ Fix problem of connection lost with GatheringExternalStopAndSave() API
- ✓ Fix problem of return value with PositionerCompensationPreFeedForwardSpatialNotchFilterGet() API

Note :

- ✓ For XPS-D controller, the PositionCompare (PCO) and ExternalGathering features are not compatible with the PlugNumber 3, 4, 7 or 8, So a PCO or an ExternalGathering using axis must be plugged into the PlugNumber 1, 2, 5 or 6 to be normal functioning.

***Web site XPS-D**: XPS-D 2.1.0*

- ✓ Add new pages *Stages / FineTuning* and *Stages / Lissajous*.
- ✓ Protect controller system files from undesired suppression or modification.

***Web site XPS-RL:** XPS-RL 2.0.0 Beta 4*
***Web site XPS-Q:** Web Ajax V2.2.4*

***QNX kernel XPS-D:** QNX kernel configuration V3.0.22*
***QNX kernel XPS-RL:** QNX kernel configuration V3.0.1*
***QNX kernel XPS-Q:** QNX kernel configuration V2.2.5*

***TCL interpretor:** V1.4.x*
***TCL Library:** V8.4*
***LoadModules:** V1.2.3*
***RestartApplication:** V1.0.15*
***ResetMotors:** V1.0.1 (not used)*
***GetTCLTaskNameList:** V1.0.1*
***InitializeIp:** V2.0.1*
***MakeAjaxData:** V1.2.3 (not used for XPS-D)*

***Basic external module template:** V1.0.0 – N1*
***EtherCATSlaveCiA402 external module template:** V1.0.0 – N1*
***ExternalInterlockA external module template:** V2.0.0 – N1*
***LaserModulation external module template:** V1.0.0 – N1*
***ShutterInterlock external module template:** V1.0.0 – N1*

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installer V2.1.0.0 - DLL.Net V2.1.0*

Manuals XPS-Unified

- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #18-20190311

Firmware: *XPS Unified V1.3.0.4*
- ✓ New architecture for external modules:
  - *Basic: N1*
  - *EtherCATSlaveCiA402: N1*
  - *IOInterlockA: N1*
- ✓ New hidden API "GroupGoToNotReferenced" for XY group only
- ✓ Modify "PositionerEncoderAmplitudeValuesGet" API to accept Group.Positioner.DualEncoder for 1D+
- ✓ Modify "ObjectsListGet" to list positioner with DualEncoder
- ✓ Modify Sin[Dual]Acc motor interfaces to change SMI motor initilialization for gantry positioner:
  - *For MultipleAxes, XY, SingleAxis, SingleAxisWithClamping, SingleAxisTheta groups*
- ✓ Add DEBUG parameters in **System.ref**

```
[DEBUG]
DelayAfterHomeLastGantryMove = 10  ;--- seconds
FollowingErrorEnabled = Disabled   ;--- Disabled or Enabled
```

Web site XPS-D*: XPS-D 2.0.3*
- ✓ No change.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.3.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*

Basic external module template: *V1.0.0 – N1*
EtherCATSlaveCiA402 external module template: *V1.0.0 – N1*
ExternalInterlockA external module template: *V2.0.0 – N1*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: installerV1.17.0.0 - DLL.Net V1.3.0*

Manuals XPS-Unified
- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)

- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #17-20190218

Firmware: *XPS Unified V1.3.0.3*

- ✓ Increase the FIFO depth limitation to 800 for isolation feedforward.
- ✓ Modification to trace XY FeedForward Position and Acceleration on one GPIO Digital Output only.
- ✓ Add new parameters in **system.ini** configuration file:

```
[XY]
;---(PP)  XY position and acceleration FeedForward output
FeedForwardDigitalOutputName = GPIO3.DO3 ;--- "None" to disable
FeedForwardSoftwareGPIOState = Direct    ;--- Direct or Inverted
```

Web site XPS-D*: XPS-D 2.0.3*

- ✓ No change.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.3.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *N8*
ExternalInterlockA: *V1.0.7 – N8*

- ✓ No change.

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installerV1.17.0.0 - DLL.Net V1.3.0*

Manuals XPS-Unified

- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #16-20190115

Firmware: *XPS Unified V1.3.0.1*

- ✓ Fix “SetPosition” action issue:
  “GroupReferencingActionExecute $socketID GroupName SetPosition None 0" that doesn't set position to 0.
- ✓ Fix Event&Action issue when TCLScriptExecute action passing parameter.
- ✓ Correct wrong error message during encoder parameters reading: “EncoderLinearEncoderCorrection” is wrong and is replaced by “LinearEncoderCorrection".

Web site XPS-D*: XPS-D 2.0.3*

- ✓ No change.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.3.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *N8*
ExternalInterlockA: *V1.0.7 – N8*

- ✓ No change.

Software drivers:

- ✓ *“.NET” assembly for Windows x86 and x64: installerV1.17.0.0 - DLL.Net V1.3.0*

Manuals XPS-Unified

- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #15-20181214

Firmware: *XPS Unified V1.3.0*

STANDARD

- ✓ Fix page fault problem of XYZ group mapping

OPTIONAL

- ✓ Add APIs to get external interlock error (IOInterlockA external module):
  - + int **ExternalInterlockLiftPinErrorGet** (int SocketID,char GroupName[250],int *CurrentErrorCode)
  - + int **ExternalInterlockGroupErrorGet** (int SocketID,char GroupName[250],int *CurrentErrorCode)
  - + int **ExternalInterlockErrorStringGet** (int SocketID,int ErrorCode,char * ErrorDescription)
- ✓ Add API to get error description managed by optional module :
  - + int **ExternalModuleErrorStringGet** (int SocketID,int ModuleNumber,int ErrorCode,char * ErrorDescription)
- ✓ Improve "MoveSlice" execution.
- ✓ Add two APIs to get FeedForward status
  - + PositionerFeedforwardPositionStatusGet (char *PositionerName, char *Status)
  - + PositionerFeedforwardAccelerationStatusGet (char *PositionerName, char *Status)
- ✓ Add new parameters in **system.ini** configuration file

```
[XY.POS]
;---(PP) XY position and acceleration FeedForward output
FeedForwardAccelerationDigitalOutputName= GPIO3.DO4
FeedForwardAccelerationSoftwareGPIOState=Direct
FeedForwardPositionDigitalOutputName= GPIO3.DO3
FeedForwardPositionSoftwareGPIOState=Direct
```

Web site XPS-D*: XPS-D 2.0.3*

- ✓ Fix login and password corruption making impossible connection to web interface

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.3.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *N8*
ExternalInterlockA: *V1.0.7 – N8*

- ✓ Identify all errors that generate a motion interlock
- ✓ Add configuration parameters in ExternalInterlockA.ini to customize each error description:

```
[INTERLOCK_ERRORS]
ERR_INTERLOCK_LIFT_PIN_UP_DESCRIPTION = "Lift pin not down"
ERR_INTERLOCK_LIFT_PIN_ERROR_DESCRIPTION = "Invalid Lift pin status"
ERR_INTERLOCK_HOLD_SIGNAL_DESCRIPTION = "HOLD signal"
ERR_INTERLOCK_DOOR_OPENED_DESCRIPTION = "Door is opened"
ERR_INTERLOCK_SHUTTER_OPENED_DESCRIPTION = "Shutter is opened"
ERR_INTERLOCK_SHUTTER_ERROR_DESCRIPTION = "Invalid shutter status"
ERR_INTERLOCK_WRT_NOT_RETRACTED_DESCRIPTION = "WTR is not retracted"
ERR_INTERLOCK_NOT_LOADING_POSITION_DESCRIPTION = "Not in loading position"
ERR_INTERLOCK_NOT_SAFETY_POSITION_DESCRIPTION = "Not in safety position"
```

Software drivers:

- ✓ *".NET" assembly for Windows x86 and x64: installerV1.17.0.0 - DLL.Net V1.3.0*

Manuals XPS-Unified

- ✓ EDH0373En1025 (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #14-20181015

Firmware: *XPS Unified V1.2.1*
- ✓ Based on XPS Unified V1.2.0.2

Web site XPS-D*: XPS-D 2.0.2 20181015*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.2.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *N7*
ExternalInterlockA: *V1.0.1*

Software drivers:
- ✓ *".NET" assembly for Windows x86 and x64: V1.15.0*

Manuals XPS-Unified
- ✓ V1.2.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #13-20181008

Firmware: *XPS Unified V1.2.0.2*
- ✓ Add check Corrector, Profiler, Servitudes ISR existence at the end of controller boot.
- ✓ Fix problem of boot error message “Bad file descriptor” in relation to “CallTclFileAndWait_ThreadServer” function called to execute "GetTCLLibraryVersion.tcl" script.
- ✓ Add external interlock management in all groups
- ✓ Add new “ExternalModuleTemplateNumber” parameter in “MainControllerOK" file
- ✓ Add new API:
  - + **ExternalModuleTemplateNumberGet**

Web site XPS-D*: XPS-D 2.0.2 20181001*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.2.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *N7*
ExternalInterlockA: *V1.0.1*
- ✓ Manage external module template number

Software drivers: *V1.15.0*
- ✓ “.NET” assembly for Windows x86 and x64, generated from XPS Unified Firmware V1.2.0.2

Manuals XPS-Unified
- ✓ V1.2.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #12-20181001

Firmware: *XPS Unified V1.2.0.1*
- ✓ Fix problem of data overlap with *DataCollectionRequest*() API.
- ✓ Fix problem of GPIO table generation when several GPIO boards in the same controller.
- ✓ Fix problem of VelocityAndPositionWindow MotionDone :
  no check MotionDone for secondary positioner
- ✓ Add new APIs:
  - + **GroupMoveRelativeSimulated**
  - + **PositionerSGammaMoveResultGet**
- ✓ Add new parameter in stages.ini to configure the jerk time of GroupJogParametersSet() API :
  - + **JogJerkTime** = ; Seconds, value 0 (Trapez jog) or >= 2 * ProfilerBaseTime (SGamma jog)
- ✓ Add ExternaInterlockA external module for XY and SingleAxis groups (XPS-D PP only)
- ✓ Add parameter in stages.ini to configure "External Motion Velocity Limitation" feature (XPS-D PP only):
  - + **LimitedAcceleration = ; unit/s²**
- ✓ Add user datas to trace CIE status register for an XY group:
  - + UserData1 : CIE status register X1
  - + UserData2 : CIE status register Y1
  - + UserData3 : CIE status register X2
  - + UserData4 : CIE status register Y2

Web site XPS-D*: XPS-D 2.0.2 20181001*
- ✓ Add support in <Front panel><IO Control> of several GPIO boards.

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.2.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *N6*
- ✓ Manage external module template number

ExternalInterlockA: *V1.0.0*
- ✓ Manage IO interlock for groups and lift pin

Software drivers: *V1.15.0*
- ✓ ".NET" assembly for Windows x86 and x64, generated from XPS Unified Firmware V1.2.0.1

Manuals XPS-Unified
- ✓ V1.2.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)

- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #11-20180829

Firmware: *XPS Unified V1.1.5*
- ✓ Improve *FatalFollowingError* management when the group is in Moving state.
- ✓ Fix problem of data overlap with DataCollectionRequest() API.

Web site XPS-D*: XPS-D 2.0.1 20180219*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.1.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *V1.0.4*

Software drivers: *V1.14.0*
- ✓ ".NET" assembly for Windows x86 and x64, generated from XPS Unified Firmware V1.1.1

Manuals XPS-Unified
- ✓ V1.1.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #10-20180802

Firmware: *XPS Unified V1.1.4*

- ✓ Fix problem of Event&Action event detection for the following events :
  - GPIOx.ADCy.ADCHighLimit
  - GPIOx.ADCy.ADCLowLimit
- ✓ Fix problem of API PositionerMagneticTrackPositionAtHomeGet().
- ✓ Fix problem of linear motor LMI initialization.

Web site XPS-D*: XPS-D 2.0.1 20180219*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.4*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.1.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *V1.0.4*

Software drivers: *V1.14.0*

- ✓ ".NET" assembly for Windows x86 and x64, generated from XPS Unified Firmware V1.1.1

Manuals XPS-Unified

- ✓ V1.1.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #9-20180629

Firmware: *XPS Unified V1.1.3*

- ✓ Fix problem of execution of the following process APIs (XPS-D PP only) :
  - SetGantryMode()
  - StartJog()
  - EndJog()
  - SetJogVelocity()
  - SetJogAcceleration()
  - MoveAbsolute()
  - MoveSlice()

Web site XPS-D*: XPS-D 2.0.1 20180219*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.3*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.1.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *V1.0.4*

Software drivers: *V1.14.0*

- ✓ ".NET" assembly for Windows x86 and x64.
- ✓ Generated from XPS Unified V1.1.1

Manuals XPS-Unified

- ✓ V1.1.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #8-20180618

Firmware: *XPS Unified V1.1.2*
- ✓ Add support for motor driver XPS-DRV11BL.
- ✓ Add stages.ini parameter for XPS-DRV12 analog stepper configuration :
  - DriverFilter = ; 0 (disabled) or 1 (enabled)

Web site XPS-D*: XPS-D 2.0.1 20180219*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.3*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.1.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *V1.0.4*

Software drivers: *V1.14.0*
- ✓ ".NET" assembly for Windows x86 and x64.
- ✓ Generated from XPS Unified V1.1.1

Manuals XPS-Unified
- ✓ V1.1.x (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #7-20180524

Firmware: *XPS Unified V1.1.1*

- ✓ Add support for XPS-DRV12 universal motor driver.
- ✓ Add stages.ini parameters for XPS-DRV12, that keeps the same as XPS-DRV11 parameters but adding the following ones :
  - DriverBrake = ;--- 1=Yes, 0= No
  - DriverBrakeONTime = ;--- ms [-100:100]
  - DriverBrakeOFFTime = ;--- ms [-100:100]
  - DriverHallPhaseAngle = ;--- Deg [0:360] (for brushless motor stages only)
- ✓ Modify DataCollectionRequest() API per customer requested specifications Feb 20th 2018.
- ✓ Fix *SetPiston()* problem: return -202 when release piston is asked and Lift Pin is up.

Web site XPS-D*: XPS-D 2.0.1 20180219*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.3*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.1.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.15*

- ✓ Fix parameter reading issue.

ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *V1.0.4*

Software drivers: *V1.13.0*

- ✓ ".NET" assembly for Windows x86 and x64.
- ✓ Generated from XPS Unified V1.0.16

Manuals XPS-Unified

- ✓ V1.1.x (XPS Unified - Programmer's Manual)

Manuals XPS-D

- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL

- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q

- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #6-20180406

Firmware: *XPS Unified V1.0.16.1*
- ✓ Modify SetPiston(), return error -202 if LiftPin is UP when attempting to release piston.
- ✓ Fix no response problem of GroupMoveAbsolute() / GroupMoveRelative() when GroupMoveAbort() is called from ExternalModule.

Web site XPS-D*: XPS-D 2.0.1 20180219*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.3*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.0.16.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.14*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *V1.0.4*

Software drivers: *V1.13.0*
- ✓ ".NET" assembly for Windows x86 and x64.
- ✓ Generated from XPS Unified V1.0.16

Manuals XPS-Unified
- ✓ EDH0373En1024 (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #5-20180316

Firmware: *XPS Unified V1.0.16*
- ✓ Add new API: EventActionSetAndStart().
- ✓ Fix GlobalArraySet API issue: the new value was appended to the previous value.
- ✓ Fix "DILowHigh" or "DIHIghLow" events bug with a PCI Extended GPIO board.
- ✓ Fix lost communication issue of PositionerFeedForwardPositionDisable API.
- ✓ Fix Referencing mode issue with "SetpointPosition" Action.
- ✓ Improve PCI CIE axis errors.
- ✓ Improve encoder amplitude calculation.
- ✓ Improve TCP server.
- ✓ Improve servitudes.
- ✓ Improve SliceMove API code by using EventActionSetAndStart API (Not for Standard version).

Web site XPS-D*: XPS-D 2.0.1 20180219*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.3*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.0.16.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.14*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *V1.0.4*

Software drivers: *V1.13.0*
- ✓ ".NET" assembly for Windows x86 and x64.
- ✓ Generated from XPS Unified V1.0.16

Manuals XPS-Unified
- ✓ EDH0373En1024 (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1020 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #4-20180223

Firmware: *XPS Unified V1.0.15.1*
- ✓ Fix *PositionerEncoderAmplitudeValuesGet* API issue for analog interpolated encoders
- ✓ Fix boot issue in relation to compensation filters
- ✓ Fix issue in relation to specific API execution
- ✓ Modify saved API list for web to fix terminal configurator issue

Web site XPS-D*: XPS-D 2.0.1 20180219*
- ✓ Fix gathering issue from Tuning page
- ✓ Fix web errors due to network logging console
- ✓ Add better logging from web server
- ✓ Add web server option to fix TCLScriptExecute API execution issue from web
- ✓ Delete message "/etc/oshadow: no such file or directory"

Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.3*

QNX kernel XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.0.15.x*
TCL Library: *V8.4*
LoadModules: *V1.2.3*
RestartApplication: *V1.0.14*
ResetMotors: *V1.0.1 (not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
ExternalModuleTemplate: *V1.0.4*

Software drivers: *V1.12.0*
- ✓ ".NET" assembly for Windows x86 and x64.
- ✓ Generated from XPS Unified V1.0.15

Manuals XPS-Unified
- ✓ EDH0373En1023 (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1012 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #3-20180209

Firmware: *XPS Unified V1.0.15*

Web site XPS-D*: XPS-D 2.0.0 20171215*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.3*
- ✓ Extend GPIOAnalogSet page to multiple GPIO boards.
- ✓ Improve display of FrontPanel and Tuning pages.
- ✓ Fix problem of error handling during page update.

QNX kernel – XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel – XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel – XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.0.15.x*
TCL Library: *V8.4*

LoadModules: *V1.2.3*
RestartApplication: *V1.0.14*
ResetMotors: *V1.0.1 (Not used)*
GetTCLTaskNameList: *V1.0.1*
InitializeIp: *V2.0.1*
MakeAjaxData: *V1.2.3*
- ✓ Improve synchronization at MainController boot.

ExternalModuleTemplate: *V1.0.4*
- ✓ Remove #define FOCUS_TRACKING_MODULE and #define LASER_MODULATION_MODULE
- ✓ Make a general purpose user external module template

Software drivers: *V1.0.15.x*
- ✓ ".NET" assembly for Windows x86 and x64.

Manuals XPS-Unified
- ✓ EDH0373En1023 (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1012 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8 - XPS Documentation)
- ✓ EDH0307En1020 (XPS-Q8 - TCL Manual)
- ✓ EDH0302En1020 (XPS-Q8 - Configuration Wizard Documentation)
- ✓ EDH0309En1020 (XPS-Q8 - Release Note)
- ✓ EDH0326En1020 (XPS-Q8 - PrecisionPlatform Firmware Addendum)
- ✓ EDH0205En1050 (XPS-Q8 - Quick Start)
- ✓ EDH0207En1030 (XPS Remote Control)

XPS-Unified Package #2-20180202

Firmware: *XPS Unified V1.0.15*
- ✓ Add support for new PCI CIE board reference E5879
- ✓ Add a new parameter in “Stages.ini” for PCI AnalogInterpolated encoders:

  EncoderQuadratureAndFOCErrorCheck = Enabled or Disabled
- ✓ These functions are kept for XPS-D and XPS-RL for backward compatibility but have no effect:
  - PositionerHardInterpolatorFactorGet (char *PositionerName, int * InterpolationFactor)
  - PositionerHardInterpolatorFactorSet (char *PositionerName, int InterpolationFactor)
  - PositionerHardInterpolatorPositionGet *(char *PositionerName, double* Position)*

Web site XPS-D*: XPS-D 2.0.0 20171215*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.2*

QNX kernel – XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel – XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel – XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.0.15.x*
- ✓ TCL_API_drivers for XPS Unified V1.0.15.x

TCL Library: *V8.4*

Software drivers: *V1.0.15.x*
- ✓ “.NET” assembly for Windows x86 and x64.

LoadModules: *V1.2.3*
- ✓ Version is saved in “LoadModules.log”

RestartApplication: *V1.0.14*
- ✓ Improve process killing and restarting

ResetMotors: *V1.0.1*
- ✓ Not used

GetTCLTaskNameList: *V1.0.1*
- ✓ Version is saved in “GetTCLTaskNameList.log”

Manuals XPS-Unified
- ✓ EDH0373En1023 (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1012 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8_XPSDocumentation)

XPS-Unified Package #1-20180119

Firmware: *XPS Unified V1.0.14.10*
- ✓ Fix Following error when using the JOG feature
- ✓ Fix "CIEEncoderPlugOrder" issue with PCI CIE board #3
- ✓ Fix “InitializeAndHomeXY” APIs issue: adjust threads priorites and delete tempo of 100ms
- ✓ Remove PIDFFAccelerationFilterPreFilterKP, PIDFFAccelerationFilterPreFilterKI, PIDFFAccelerationFilterPreFilterKD parameters of the PIDAccelerationFilter
- ✓ Remove “ZygoMode” parameter from the system.ini file

Web site XPS-D*: XPS-D 2.0.0 20171215*
Web site XPS-RL: *XPS-RL 2.0.0 Beta 4*
Web site XPS-Q: *Web Ajax V2.2.2*

QNX kernel – XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel – XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel – XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor: *V1.0.14.x*
TCL Library: *V8.4*

Software drivers: *V1.0.14.x*
- ✓ “.NET” assembly for Windows x86 and x64.

LoadModules: *V1.2.2*
- ✓ Save error in error.log file

RestartApplication: *V1.0.13*
- ✓ Add log info in “RestartApplication.log” to get module version, firmware and hardware types
- ✓ Manage error returned by kill function

ResetMotors: *V1.0.1 (Not used => replaced by hardware management)*
GetTCLTaskNameList: *V1.0.0*
- ✓ Initial version
- ✓ Trace errors in “GetTCLTaskNameList.log”

Manuals XPS-Unified
- ✓ EDH0373En1023 (XPS Unified - Programmer's Manual)

Manuals XPS-D
- ✓ EDH0395En1011 (XPS-D - Start-Up Manual)
- ✓ EDH0405En1011 (XPS-D - User Interface Manual)
- ✓ EDH0406En1011 (XPS-D - Configuration Manual)
- ✓ EDH0407En1011 (XPS-D - Features Manual)

Manuals XPS-RL
- ✓ EDH0367En1021 (XPS-RL - Quick Start manual)
- ✓ EDH0365En1012 (XPS-RL - User's Manual)
- ✓ EDH0374En1011 (XPS-RL - Software Drivers Manual)
- ✓ EDH0375En1011 (XPS-RL - Help file)
- ✓ EDH0372En1011 (XPS-RL - Internal Hardware)
- ✓ EDH0376En1011 (XPS-RL - Release Note)
- ✓ DOC0384FE0102 (XPS-RL-R - Assembling Instruction)

Manuals XPS-Q
- ✓ EDH0301En1050 (XPS-Q8_XPSDocumentation)

XPS-Unified Package #0-20180108

Firmware *(XPS Unified V1.0.14.9)*
- ✓ Fix InitializeAndHomeXY APIs issue: Add 100 ms at end of each request from internal TCP Client
- ✓ Fix end jog issue when calling GroupJogDisable() API
- ✓ Fix InstallerVersionGet() API issue.
- ✓ Add parameter "DriverVelocityCutOffFrequency" in stages.ini for DRV11 Brushless Velocity
- ✓ Decode % character from Web request
- ✓ Replace "I²T" by "I2T"

Web site *(*XPS-D 2.0.0 20171215*)*
- ✓ Fix some issues

QNX kernel – XPS-D: *QNX kernel configuration V3.0.5*
QNX kernel – XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel – XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor *(V1.0.14.x)*
- ✓ TCL_API_drivers for XPS Unified V1.0.14.x

TCL Library: *V8.4*

Stage data base *(V4.0.0)*
- ✓ Revision V4.0.0 Released.

Software drivers *(V1.0.14.x)*
- ✓ ".NET" assembly for Windows x86 and x64.

Modules
- ✓ LoadModule
- ✓ RestartApplication
- ✓ ResetMotors
- ✓ GetTCLTaskNameList

XPS-Unified Package #0-20171130

Firmware *(Build version: XPS Unified V1.0.14.7)*

- ✓ TCP Server modification: Fast CGI protocol integration
- ✓ GetPositionerDriverStatusList() : change status order in the list to adapt to XPS-D WebServer
- ✓ Delete "ScalingCurrent" in stages.ini for DRV11 with PCI AnalogVoltage Motor Interface
- ✓ Delete "DriverVelocityCutOffFrequency" from DRV11 Brushless Velocity
- ✓ Improve TCLScriptRunningListGet() API: Add external module "GetTCLTaskNameList" in "\Config"
- ✓ Fix ADC issue with AnalogTrackingPosition and AnalogTrackingVelocity
- ✓ Fix Spindle group issue: CorrectorOutput glitch at position changed between SpindlePeriod and 0
- ✓ Fix *Reboot* and *RestartApplication* APIs issue
- ✓ Fix following error issue with jog feature
- ✓ Modify parameters limits for XPS-DRV11 and XPS-DRV21

Firmware V1.0.14.6 :

- ✓ Increase the stack size of IPC thread to 200000 to resolve a core dump in PrecisionPlatform configuration.
- ✓ Modify rolling debug buffer to filter Web communication in relation to the TCP port 9001.
- ✓ Review some STRLENGTH_xxx constants

Firmware V1.0.14.5 :

- ✓ Modify Login and LoginCheck APIs: Modify "LoginUserVerify" to check if "authhelperd" service is running or not.
- ✓ Add APIs: LoginS and LoginSCheck with a crypted password.
- ✓ Add parameter "ZygoMode" in system.ini to disable ZYGO interferometer.
  - + ZygoMode=Disabled ;--- Disabled or Enabled

Firmware V1.0.14.4 :

- ✓ Improve TCLScriptRunningListGet() API: Add external module "GetTCLTaskNameList***".***
  - + firmware.ref : [GENERAL]
  - + ExternalModuleNames = GetTCLTaskNameList
- ✓ Add multi threads in TCP Server to send responses.
- ✓ Add Fast CGI protocol integration.
- ✓ Delete "DriverVelocityCutOffFrequency" from DRV11 Brushless Velocity.
- ✓ Fix problem of "Trajectory pulse window" signal not unset when aborting the trajectory. Modify XYLineArcPulseOutputSet(): may be re-executed at any moment outside the position window. Execute XYLineArcPulseOutputSet(XY,0,0,0) to cancel the current pulse output mode.
- ✓ GetPositionerDriverStatusList() : change status order in the list to adapt to XPS-D WebServer.

Firmware V1.0.14.3 :

- ✓ Modify TCP reponses to be sent by TCPServer on IPCThread.
- ✓ Spindle group : Fix problem of CorrectorOutput glitch at position changed from SpindlePeriod to 0.

Firmware V1.0.14.2 :

- ✓ Manage SIGINT and SIGTREM signals to shutdown "maincontroller" properly.

Firmware V1.0.14.1 :

- ✓ Generate a new text file "MainControllerLists" in "\var\run" location that contains all lists needed by the XPS web site.
- ✓ Modify "MainControllerOK" file to add a new key "HostName" and a new session named [GPIO].

Firmware V1.0.14 :

- ✓ Fix problem of ADC reading in AnalogTrackingPosition and AnalogTrackingVelocity (for XPS-D, XPS-RL, KINISTA only).
- ✓ Delete "ScalingCurrent" stage parameter for DRV11 in PCI_AnalogVoltageMotorInterface.

Web site *(*XPS-D 2.0.0 20171121*)*

- ✓ Added a generic configurable PDF help link in all menus/submenus.
- ✓ Fix some issues

QNX kernel – XPS-D: *QNX kernel configuration V3.0.5*

- ✓ Set APIC mode.

QNX kernel – XPS-RL: *QNX kernel configuration V3.0.1*

QNX kernel – XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor *(V1.0.x)*

- ✓ TCL_API_drivers for XPS Unified V1.0.14.x
- ✓ TCL Library V8.4

Stage data base *(V4.0.0)*

- ✓ Revision V4.0.0 Released.

Software drivers *(V1.0.14.x)*

- ✓ ".NET" assembly for Windows x86 and x64.

Modules

- ✓ LoadModule
- ✓ RestartApplication
- ✓ ResetMotors
- ✓ GetTCLTaskNameList (NEW)

XPS-Unified Package #0-20170920

Firmware *(Build version: XPS Unified V1.0.13)*

- ✓ Add APIs PositionerMotorDualSinForceBalanceSet/Get()
- ✓ Add Rolling buffer for continuous data gathering.
- ✓ Add XYGantryHomingCorrectorChange during homing for gantries.
- ✓ Add error -215: Not allowed action because group is neither in NOTINIT nor in DISABLE state.
- ✓ Add error -42 when *"EndJog"* API is executed while JogVelocity != 0 (error -42 = *"Jog value out of range or jog velocity not NULL when disabling Jog mode")*
- ✓ Delete parameter "DriverInputMode" in stages.ini for XPS-DRV11 and XPS-DRV2.
- ✓ Modify *"GatheringDataMultipleLinesGet" API* for RollingGathering.
- ✓ Modify *"GatheringCurrentNumberGet"* and *"GatheringCurrentIndexGet"* APIs for RollingGathering to return the number remining data.
- ✓ Allow DRV11 Brushless with DriverVelocityCutOffFrequency = 0 for testing.
- ✓ Improve the corrector load ratio calculation.
- ✓ Fix in XY, XYZ and MultipleAxes groups, 2D, 3D and nD trajectory problem of executing a trajectory after the trajectory has been aborted.
- ✓ Fix problem of no response of API XYPVTVerification(XY,FromMemory).
- ✓ Fix a problem of loading and initializing the external modules.
- ✓ Fix prototype issue in *"PositionerPositionComparePulseParametersSet"* API.
- ✓ Remove *"ScalingCurrent"* for PCI_AnalogVoltageMotorInterface.
- ✓ Fix encoder plug configuration register value for plug number > 4.
- ✓ Fix page fault with a dummy configuration of piezo motor type.
- ✓ Fix *"GroupKill"* and *"KillAll"* issues.
- ✓ Fix DRV-P1 interface of wrong DAC output value during initialization.

Web site *(*XPS-D 2.0.0-beta5*)*

- ✓ Initial version.

QNX kernel – XPS-D: *QNX kernel configuration V3.0.2*

- ✓ Set APIC mode.

QNX kernel – XPS-RL: *QNX kernel configuration V3.0.1*
QNX kernel – XPS-Q: *QNX kernel configuration V2.2.5*

TCL interpretor *(V1.0.x)*

- ✓ TCL_API_drivers for XPS Unified V1.0.13.x
- ✓ TCL Library V8.4

Stage data base *(V4.0.0)*

- ✓ Revision V4.0.0 - Beta 10.

Software drivers *(V1.0.14.x)*

- ✓ ".NET" assembly for Windows x86 and x64.

Modules

- ✓ LoadModule
- ✓ RestartApplication
- ✓ ResetMotors

XPS-Unified Package #0-20170327

Firmware *(Build version: XPS Unified V1.0.11)*
- ✓ Initial version.

Web site *(Web Ajax V2.2.0 + MakeAjaxData V1.2.0)*
- ✓ Initial version.

InitializeIp *(V2.0.3)*
- ✓ Initial version.

RC module
- ✓ No RC module.

QNX kernel *(V2.2.5)*
- ✓ Initial version.

TCL interpretor *(V1.0.x)*
- ✓ TCL_API_drivers for XPS Unified V1.0.11.x
- ✓ TCL Library V8.4

Software drivers *(V1.0.14.x)*
- ✓ ".NET" assembly for Windows x86 and x64.

Modules
- ✓ LoadModule
- ✓ RestartApplication
- ✓ ResetMotors