Snapshot-XPS-D-USB_N13103 (2023/08/16)

Hardware

- XPS-D-USB model.

Firmware: *XPS Unified V1.8.5*

- 1.8.5
  - 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.
- 1.8.4
  - Fix **XYScanMoveAbsolute** API. The Y movement was done too early.
  - Add **AvailableRamMemory** gathering data.
- 1.8.3
  - Fix **XYZ** group inifinite initialization due to a missing timer **when initialization sequence is not "Together"**.

Web site: *XPS-D 2.4.2*

- Fix relative move from tuning page.

XPS-Unified Package: Version #43-20230816
Stage data base: V4.3.16 (April. 17th 2023 - ECO5699)

- Refer to document "XPS-D-RL-StageDataBaseHistory.pdf"

Snapshot-XPS-D-USB_N13102 (2022/11/30)

Hardware

- XPS-D-USB model.

Firmware: *XPS Unified V1.8.2*

- Enable **PDSA** only if **PDSAInsputSensorBit** parameter 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 2.4.0*

XPS-Unified Package: Version #40B-20221130

Stage data base: *V4.3.14 (September. 13th 2022 - ECO5608)*

- Refer to document *"XPS-D-RL-StageDataBaseHistory.pdf"*

Snapshot-XPS-D-USB-N13101 (2022/07/27)

Hardware

- XPS-D-USB model.

Firmware: *XPS Unified V1.8.1*

- Enable **PDSA** only if **PDSAInsputSensorBit** parameters exists in the first **MultipleAxes** group in **system.ini**.

Web site: *XPS-D 2.4.0*

XPS-Unified Package: Version #39-20220727

Stage data base: *V4.3.13 (July. 1st 2022 - ECO5590)*

- Refer to document *"XPS-D-RL-StageDataBaseHistory.pdf"*

Manuals

- EDH0373En1041 - V1.8.x (XPS Unified - Programmer's Manual)
- EDH0395En1051 (XPS-D - Start-Up Manual)
- EDH0405En1021 (XPS-D - User Interface Manual)
- EDH0406En1021 (XPS-D - Configuration Manual)
- EDH0407En1051 (XPS-D - Features Manual)
- EDH0374En1011 (XPS-RL - Software Drivers Manual)
- EDH0375En1011 (XPS-RL – Help file)

File configuration

- ✓ objects.ini: V4.3

Snapshot-XPS-D-USB-N13100 (June. 2022)

Hardware

- XPS-D-USB model.
- Update from SATA to USB technology.

Firmware: *XPS Unified V1.8*

- 1.8
  - 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()**. 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"
  - Fix **GatheringExternalStopAndSaveAPI()** : external gathering was saved in gathering.dat instead of gatheringExternal.dat.
  - 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.
- 1.7.2.9
  - Fix slope issue in **Sgamma** profiler to enable **PostKFeedForward.**
- 1.7.2.8
  - 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”.
  - Returns error **-36** (“Unknown TCL file”) if TCLFileName or TaskName contains any spaces or tabulation, for the following APIs:
    - **TCLScriptExecute().**
    - **TCLScriptExecuteAndWait().**
    - **TCLScriptExecuteWithPriority().**

- **GatheringDataMultipleLinesGet()** returns error **-3** (“String too long”) if the data collection buffer exceeds **65535** bytes.

- Change error code from **-8** to **-222** ("Action not allowed for secondary positioner that is in Option 0") for the APIs:
  - **PositionerExcitationSignalSet().**
  - **PositionerExcitationSignalCorrectorOutSet().**

- Correct output data of the API **EventExtendedGet()**.

- Add new line in /Admin/Public/system.ref to configure **DebugTraceCommunication** feature:
```
[GENERAL]
DebugTraceCommunicationTraceAll = ; Enabled or Disabled
```

- The **gantry index** difference is calculated in relation to Encoder positions instead of Corrected SetPoint positions.

- Improve **GroupPositionCurrentGet()** to make it working with XY gantry configuration.

- 1.7.2.62
  - Add **MotionDoneCumulativeConfirmationTime** parameter in GENERAL section of firmware.ref. Calculate motion done time as SPX version.

- 1.7.2.5
  - Fix problem of data lost with API **GatheringDataMultipleLinesGet()**.
  - Fix problem of file saving synchronization with API **GatheringStopAndSave()**.
  - Add APIs:
    - **PositionerMagneticTrackPositionAtHomeSet()**.
    - **PositionerEncoderLinearCorrectionGet().**
    - **PositionerEncoderLinearCorrectionSet().**
- 1.7.2.2
  - 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.
- 1.7.2.1B
  - Add a new gathering data:
    - **TimeFromBoot**: The time in second from the boot of the XPS.

Web site: *XPS-D 2.4.0*

- *2.4.0*
  - *Fix display of TCL response in FunctionalTest graph (manual change not in SVN).*
  - *Fix endless loading of documentation page.*
- *2.3.9*
  - *Fix “Front Panel” page display problem.*
- *2.3.7*
  - *Fix “Lissajous” page display problem.*
- *2.3.6*
  - Fix problem of files / configurations files / load config and save config.
  - Fix problem of result data display in “Functional Test” page.
  - Fix problem of special character used in TCL programs.

XPS-Unified Package: Version #38-20220624

Stage data base: *V4.3.12 (June. 16th 2022 - ECO5574)*

- Refer to document *"XPS-D-RL-StageDataBaseHistory.pdf"*

Manuals

- EDH0373En1041 - V1.8.x (XPS Unified - Programmer's Manual)
- EDH0395En1051 (XPS-D - Start-Up Manual)
- EDH0405En1021 (XPS-D - User Interface Manual)
- EDH0406En1021 (XPS-D - Configuration Manual)
- EDH0407En1050 (XPS-D - Features Manual)
- EDH0374En1011 (XPS-RL - Software Drivers Manual)
- EDH0375En1011 (XPS-RL – Help file)

File configuration

- ✓ objects.ini: V4.3