EIGER2 Release Notes

release-2020.2

Features:

- CdTe Support
- New high voltage status key available (see SIMPLON API documentation)
- High voltage reset command available (see SIMPLON API documentation)
- Updates and uses latest firmware versions
- Support for XE systems using fiber

Fixes & Changes:

- FileWriter and Monitor mode changes (enable / disabled) are only affected while the detector is in the idle stage (after disarm / end of series or before arm)
- Fixed HDF5 data file path if name_pattern contains path structure
- Unified "empty" return values (e.g initialize, trigger, hv_reset) to return {} instead of "" and {}. Generally, return values should not be parsed for nonspecific returns.
- Added "incident energy" to tiff header
- Changing photon_energy didn't return all changed values in return
- Changing count_time didn't return all changed values in return
- Sending trigger before arm no longer requires re-initialize
- Corrected reported minimal times in all ROI and full readout modes on GET requests
- Countrate correction table didn't match SIMPLON 1.6.0 implementation (transposed table)
- Missing links now properly reported
- Detector_readout_time now shows minimal possible value
- Restored frame_time and count_time interaction of SIMPLON 1.6.0
  - Setting frame_time < existing count_time now automatically adjusts count_time to frame_time - detector_readout_time
  - Setting count_time > existing frame_time now automatically adjusts frame_time to count_time + detector_readout_time
- Improved log files for debugging
- Monitor buffer fill behavior changed due to multi-threshold usage. The fill level decreases only after getting all the thresholds of a single exposure.
- Countrate correction cutoff now properly shown for the E2 R 500K-S

- webUI now shows properly rounded values and updates readings after initialize
- Fixed bug report behavior where download link would be reported before file being available
- Bug report link will now only be returned after the file has been written

API changes:

detector config	
parameter	**comment**
compression	reordered to match SIMPLON 1.6.0 order ['lz4', 'bslz4', 'none']
element	added key "allowed values"
detector command	
parameter	**comment**
hv_reset	new key, see SIMPLON API documentation
detector status	
parameter	**comment**
high_voltage/state	new key, see SIMPLON API documentation
stream config	
parameter	**comment**
header_detail	reordered to match SIMPLON 1.6.0 order ['none', 'basic', 'all']
filewriter status	
parameter	**comment**
files	value type changed to string from list
monitor status	
parameter	**comment**
buffer_fill_level	value_type changed to uint from list

release-2020.1

Initial EIGER2 SW release. Previous versions were based on development versions and therefore manifold and without fully structured change management. Please consult the API Reference v1.8.0 for further details about currently available functionality.
In case of any compability issues due to API changes please contact support@dectris.com.

Features:

- Use latest firmware versions
- Latest DCUs supported

Fixes:

- Goniometer parameters of "null" won't be written in the metadata. Valid float values (e.g. 0.0) will be written
- Fix cable check and initialize in webUI
- Added missing 1.6.0 and 1.7.0 SIMPLON keys for:
    - monitor/…/images
    - system/…/config/
- Fixed custom flatfield and pixel_mask issue with lines ROI mode
- Fixed meta data issue when using ROI mode
- Improved initialization in case of errors
- Added possibility to disable TH sensor
- System command "restart" now blocking (returns after container has restarted)

General Information

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