MMS/EPD-EIS Version Release Notes
v2.0 [16 Apr 2020]
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Reference: EPD Data Products Guide

EIS uses a unique versioning system (vA.B.C) that differs from the other MMS instruments

Increases to the major version index ("A") represent changes to the onboard lookup tables which alter the names and format of the CDF variables

Increases to the second version index ("B") represent changes to the calibration matrices used for ground processing, which alters how a given CDF variable is processed; this means that the same variable may look very different between two periods with the same major index but different second indices (e.g., v3.0 and v3.1)

Increases to the minor version index ("C") represents a reprocessing of the given file due to some error in processing

Data Product: **L2 Electronenergy**
Data Mode: **Brst**

Version	Change
v2.1.* (MMS1-4: 01 Sep 2015)	Initial public release
v3.0.* (MMS1-2: 24 Sep 2015; MMS3-4: 25 Sep 2015)	No change
v3.1.* (MMS1-4: 20 Nov 2015)	No change
v3.2.* (MMS1-2: 04 Aug 2016; MMS3-4: 05 Aug 2016)	No change
v3.3.* (MMS1-4: 06 Aug 2016)	No change
v4.0.* (MMS1-4: 26 Sep 2016)	Changed energy of channels
v4.1.* (MMS1-4: 01 Nov 2016)	No change
v4.2.*	No change

(MMS1-4: 17 Nov 2016)	
v5.0.* *(MMS1-4: 06 Dec 2019)*	Changed energy of channels
Data Mode: **Srvy**	
v2.1.* *(MMS1-4: 01 Sep 2015)*	Initial public release
v3.0.* *(MMS1-2: 24 Sep 2015; MMS3-4: 25 Sep 2015)*	No change
v3.1.* *(MMS1-4: 20 Nov 2015)*	No change
v3.2.* *(MMS1-2: 04 Aug 2016; MMS3-4: 05 Aug 2016)*	No change
v3.3.* *(MMS1-4: 06 Aug 2016)*	No change
v4.0.* *(MMS1-4: 26 Sep 2016)*	Changed energy of channels
v4.1.* *(MMS1-4: 01 Nov 2016)*	No change
v4.2.* *(MMS1-4: 17 Nov 2016)*	No change
v5.0.* *(MMS1-4: 06 Dec 2019)*	Changed energy of channels

Data Product: **L2 Extof**

Data Mode: **Brst**	
v2.1.* *(MMS1-4: 01 Sep 2015)*	Initial public release
v3.0.* *(MMS1-2: 24 Sep 2015; MMS3-4: 25 Sep 2015)*	No change

v3.1.* (MMS1-4: 20 Nov 2015)	Efficiencies adjusted after HV raise on MMS4
v3.2.* (MMS1-2: 04 Aug 2016; MMS3-4: 05 Aug 2016)	No change
v3.3.* (MMS1-4: 06 Aug 2016)	Efficiencies adjusted after HV raise on MMS3
v4.0.* (MMS1-4: 26 Sep 2016)	Changed number and energy of channels
v4.1.* (MMS1-4: 01 Nov 2016)	Adjusted flux calculations to better fit spectra from FEEPS, FPI, HPCA after cross-calibration efforts
v4.2.* (MMS1-4: 17 Nov 2016)	Efficiencies adjusted after HV raise on MMS2-4
v5.0.* (MMS1-4: 06 Dec 2019)	No change
Data Mode: **Srvy**	
v2.1.* (MMS1-4: 01 Sep 2015)	Initial public release
v3.0.* (MMS1-2: 24 Sep 2015; MMS3-4: 25 Sep 2015)	No change
v3.1.* (MMS1-4: 20 Nov 2015)	Efficiencies adjusted after HV raise on MMS4
v3.2.* (MMS1-2: 04 Aug 2016; MMS3-4: 05 Aug 2016)	No change
v3.3.* (MMS1-4: 06 Aug 2016)	Efficiencies adjusted after HV raise on MMS3
v4.0.* (MMS1-4: 26 Sep 2016)	Changed number and energy of channels
v4.1.*	Adjusted flux calculations to better fit

(MMS1-4: 01 Nov 2016)	spectra from FEEPS, FPI, HPCA after cross-calibration efforts
v4.2.* *(MMS1-4: 17 Nov 2016)*	Efficiencies adjusted after HV raise on MMS2-4
v5.0.* *(MMS1-4: 06 Dec 2019)*	No change

Data Product: **L2 Phxtof**

Data Mode: **Brst**	
v2.1.* *(MMS1-4: 01 Sep 2015)*	Initial public release
v3.0.* *(MMS1-2: 24 Sep 2015; MMS3-4: 25 Sep 2015)*	Changed number and energy of channels
v3.1.* *(MMS1-4: 20 Nov 2015)*	Efficiencies adjusted after HV raise on MMS4
v3.2.* *(MMS1-2: 04 Aug 2016; MMS3-4: 05 Aug 2016)*	Changed data decimation from 4 to 1
v3.3.* *(MMS1-4: 06 Aug 2016)*	Efficiencies adjusted after HV raise on MMS3
v4.0.* *(MMS1-4: 26 Sep 2016)*	Changed number and energy of channels
v4.1.* *(MMS1-4: 01 Nov 2016)*	Adjusted flux calculations to better fit spectra from FEEPS, FPI, HPCA after cross-calibration efforts
v4.2.* *(MMS1-4: 17 Nov 2016)*	Efficiencies adjusted after HV raise on MMS2-4
v5.0.* *(MMS1-4: 06 Dec 2019)*	No change
Data Mode: **Srvy**	
v2.1.*	Initial public release

(MMS1-4: 01 Sep 2015)	
v3.0.* *(MMS1-2: 24 Sep 2015; MMS3-4: 25 Sep 2015)*	Changed number and energy of channels
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v3.3.* *(MMS1-4: 06 Aug 2016)*	Efficiencies adjusted after HV raise on MMS3
v4.0.* *(MMS1-4: 26 Sep 2016)*	Changed number and energy of channels
v4.1.* *(MMS1-4: 01 Nov 2016)*	Adjusted flux calculations to better fit spectra from FEEPS, FPI, HPCA after cross-calibration efforts
v4.2.* *(MMS1-4: 17 Nov 2016)*	Efficiencies adjusted after HV raise on MMS2-4
v5.0.* *(MMS1-4: 06 Dec 2019)*	No change