

**Appendix C Detailed descriptions of report metadata definitions**

This section contains the definitions of report metadata for all report types in the CHEOPS SOC system.

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## RPT\_COR\_DataReduction

**Brief:** Defining the meta data of a Data Redcution report.

## Header keywords

Name	Default	Data type	Unit	DB	Comment
EXT_VER	4.4	string			version of this rsd file.
RPT_TYPE		string			value taken from job-order file
PRG_NAME		string			program creating this report
PRG_VER		string			version of program creating this report
DATE		string			time when the report is created
DATA_LVL	L2	string		common	Level of this data product
PROC_CHN		string		common	Processing chain creating this data structure
CHEOPS Data Structure					
TELESCOP	CHEOPS	string			Telescope's name
INSTRUME	CHEOPS	string			Instrument's name
ORIGIN	SOC	string			Processing site, creating this FITS file
ARCH_REV		integer		common	Archive revision number
PROC_NUM		integer		common	Processing Number
PIPE_VER	N/A	string			Pipeline version
TIMESYS	TT	string			Time frame system
Start and Stop of Validity					
V_STRT_U		UTC	TIMESYS=UTC	common	Start of validity time in UTC
V_STOP_U		UTC	TIMESYS=UTC	common	End of validity time in UTC
V_STRT_M		MJD	day		Start of validity time in MJD
V_STOP_M		MJD	day		End of validity time in MJD
Target					
TARGNAME		string		true	Name of the target as provided by the proposal
SPECTYPE		string		true	Spectral type of the target as provided by the proposal
T_EFF		unsigned int	Kelvin	true	Effective temperature of the target as provided by the proposal
MAG_G		real	mag	true	Brightness of the target in Gaia band
MAG_GERR		real	mag		Error of brightness of the target in Gaia band
MAG_CHPS		real	mag	true	Brightness of the target in CHEOPS band
MAG_CERR		real	mag		Error of brightness of the target in CHEOPS band
Visit					
PI_NAME		string		common	Name of the PI of the observing program
PI_UID		unsigned int		common	ID of the PI
OBS_CAT	undefined	string		common	Observation Category
PROGTYPE		integer		common	Type of the program
PROG_ID		integer		common	Program Id of this type of program
REQ_ID		integer		common	Observation request Id of this program

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Name	Default	Data type	Unit	DB	Comment
VISITCTR		integer		common	Visit counter for this target
OBSID		unsigned int		common	Unique identifier of a visit, defined by MPS
PRP_VST1		unsigned int	days	common	Proprietary period, depending on first visit
PRP_VSTN		unsigned int	days	common	Proprietary period, depending on last visit
Target Coordinates and Angles					
RA_TARG		real		true	RA of the target at epoch J2000
DEC_TARG		real		true	DEC of the target at epoch J2000
EQUINOX	2000.0	real			Equinox of celestial coord. system
RADESYS	ICRS	string			Coordinate reference frame for the RA and DEC
SUNANGLE		real			Angle between sun and target
MOONANGL		real			Angle between moon and target
EARTTANG		real			Angle between earth limb and target

## RPT\_RAW\_CHEOPSim

**Brief:** Defining the meta data of a CHEOPSim report.

## Header keywords

Name	Default	Data type	Unit	DB	Comment
EXT_VER	4.4	string			version of this rsd file.
RPT_TYPE		string			value taken from job-order file
PRG_NAME		string			program creating this report
PRG_VER		string			version of program creating this report
DATE		string			time when the report is created
DATA_LVL	L0.5	string		common	Level of this data product
PROC_CHN		string		common	Processing chain creating this data structure
CHEOPS Data Structure					
TELESCOP	CHEOPS	string			Telescope's name
INSTRUME	CHEOPS	string			Instrument's name
ORIGIN	SOC	string			Processing site, creating this FITS file
ARCH_REV		integer		common	Archive revision number
PROC_NUM		integer		common	Processing Number
PIPE_VER	N/A	string			Pipeline version
TIMESYS	TT	string			Time frame system
Start and Stop of Validity					
V_STRT_U		UTC	TIMESYS=UTC	common	Start of validity time in UTC
V_STOP_U		UTC	TIMESYS=UTC	common	End of validity time in UTC
V_STRT_M		MJD	day		Start of validity time in MJD
V_STOP_M		MJD	day		End of validity time in MJD
Target					
TARGNAME		string		true	Name of the target as provided by the proposal
SPECTYPE		string		true	Spectral type of the target as provided by the proposal
T_EFF		unsigned int	Kelvin	true	Effective temperature of the target as provided by the proposal
MAG_G		real	mag	true	Brightness of the target in Gaia band
MAG_GERR		real	mag		Error of brightness of the target in Gaia band
MAG_CHPS		real	mag	true	Brightness of the target in CHEOPS band
MAG_CERR		real	mag		Error of brightness of the target in CHEOPS band
Pass and Visit					
PASS_ID	00000000	PassId		common	PassId, when the data were received, 0 if non-applicable
PI_NAME		string		common	Name of the PI of the observing program
PI_UID		unsigned int		common	ID of the PI
OBS_CAT	undefined	string		common	Observation Category
PROGTYPE		integer		common	Type of the program
PROG_ID		integer		common	Program Id of this type of program

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Name	Default	Data type	Unit	DB	Comment
REQ_ID		integer		common	Observation request Id of this program
VISITCTR		integer		common	Visit counter of this target
OBSID		unsigned int		common	Unique identifier of a visit, defined by MPS
PRP_VST1		unsigned int	days	common	Proprietary period, depending on first visit
PRP_VSTN		unsigned int	days	common	Proprietary period, depending on last visit
Target Coordinates					
RA_TARG		real		true	RA of the target at epoch J2000
DEC_TARG		real		true	DEC of the target at epoch J2000
EQUINOX	2000.0	real			Equinox of celestial coord. system
RADESYS	ICRS	string			Coordinate reference frame for the RA and DEC

## RPT\_RAW\_Pass

**Brief:** Defining the meta data of a Preprocessing pass report.

## Header keywords

Name	Default	Data type	Unit	DB	Comment
EXT_VER	4.4	string			version of this rsd file.
RPT_TYPE		string			value taken from job-order file
PRG_NAME		string			program creating this report
PRG_VER		string			version of program creating this report
DATE		string			time when the report is created
DATA_LVL	L0.5	string		common	Level of this data product
PROC_CHN		string		common	Processing chain creating this data structure
CHEOPS Data Structure					
TELESCOP	CHEOPS	string			Telescope's name
INSTRUME	CHEOPS	string			Instrument's name
ORIGIN	SOC	string			Processing site, creating this FITS file
ARCH_REV		integer		common	Archive revision number
PROC_NUM		integer		common	Processing Number
PIPE_VER	N/A	string			Pipeline version
TIMESYS	TT	string			Time frame system
Start and Stop of Validity					
V_STRT_U		UTC	TIMESYS=UTC	common	Start of validity time in UTC
V_STOP_U		UTC	TIMESYS=UTC	common	End of validity time in UTC
V_STRT_M		MJD	day		Start of validity time in MJD
V_STOP_M		MJD	day		End of validity time in MJD
Target					
TARGNAME		string		true	Name of the target as provided by the proposal
SPECTYPE		string		true	Spectral type of the target as provided by the proposal
T_EFF		unsigned int	Kelvin	true	Effective temperature of the target as provided by the proposal
MAG_G		real	mag	true	Brightness of the target in Gaia band
MAG_GERR		real	mag		Error of brightness of the target in Gaia band
MAG_CHPS		real	mag	true	Brightness of the target in CHEOPS band
MAG_CERR		real	mag		Error of brightness of the target in CHEOPS band
Pass and Visit					
PASS_ID	00000000	PassId		common	PassId, when the data were received, 0 if non-applicable
PI_NAME		string		common	Name of the PI of the observing program
PI_UID		unsigned int		common	ID of the PI
OBS_CAT	undefined	string		common	Observation Category
PROGTYPE		integer		common	Type of the program
PROG_ID		integer		common	Program Id of this type of program

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Name	Default	Data type	Unit	DB	Comment
REQ_ID		integer		common	Observation request Id of this program
VISITCTR		integer		common	Visit counter of this target
OBSID		unsigned int		common	Unique identifier of a visit, defined by MPS
PRP_VST1		unsigned int	days	common	Proprietary period, depending on first visit
PRP_VSTN		unsigned int	days	common	Proprietary period, depending on last visit
Target Coordinates					
RA_TARG		real		true	RA of the target at epoch J2000
DEC_TARG		real		true	DEC of the target at epoch J2000
EQUINOX	2000.0	real			Equinox of celestial coord. system
RADESYS	ICRS	string			Coordinate reference frame for the RA and DEC

## RPT\_RAW\_QuickLook

**Brief:** Defining the meta data of a Quick Look report.

## Header keywords

Name	Default	Data type	Unit	DB	Comment
EXT_VER	4.4	string			version of this rsd file.
RPT_TYPE		string			value taken from job-order file
PRG_NAME		string			program creating this report
PRG_VER		string			version of program creating this report
DATE		string			time when the report is created
DATA_LVL	L0.5	string		common	Level of this data product
PROC_CHN		string		common	Processing chain creating this data structure
CHEOPS Data Structure					
TELESCOP	CHEOPS	string			Telescope's name
INSTRUME	CHEOPS	string			Instrument's name
ORIGIN	SOC	string			Processing site, creating this FITS file
ARCH_REV		integer		common	Archive revision number
PROC_NUM		integer		common	Processing Number
PIPE_VER	N/A	string			Pipeline version
TIMESYS	TT	string			Time frame system
Start and Stop of Validity					
V_STRT_U		UTC	TIMESYS=UTC	common	Start of validity time in UTC
V_STOP_U		UTC	TIMESYS=UTC	common	End of validity time in UTC
V_STRT_M		MJD	day		Start of validity time in MJD
V_STOP_M		MJD	day		End of validity time in MJD
Target					
TARGNAME		string		true	Name of the target as provided by the proposal
SPECTYPE		string		true	Spectral type of the target as provided by the proposal
T_EFF		unsigned int	Kelvin	true	Effective temperature of the target as provided by the proposal
MAG_G		real	mag	true	Brightness of the target in Gaia band
MAG_GERR		real	mag		Error of brightness of the target in Gaia band
MAG_CHPS		real	mag	true	Brightness of the target in CHEOPS band
MAG_CERR		real	mag		Error of brightness of the target in CHEOPS band
Pass and Visit					
PASS_ID	00000000	PassId		common	PassId, when the data were received, 0 if non-applicable
PI_NAME		string		common	Name of the PI of the observing program
PI_UID		unsigned int		common	ID of the PI
OBS_CAT	undefined	string		common	Observation Category
PROGTYPE		integer		common	Type of the program
PROG_ID		integer		common	Program Id of this type of program



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Name	Default	Data type	Unit	DB	Comment
REQ_ID		integer		common	Observation request Id of this program
VISITCTR		integer		common	Visit counter of this target
OBSID		unsigned int		common	Unique identifier of a visit, defined by MPS
PRP_VST1		unsigned int	days	common	Proprietary period, depending on first visit
PRP_VSTN		unsigned int	days	common	Proprietary period, depending on last visit
Target Coordinates					
RA_TARG		real		true	RA of the target at epoch J2000
DEC_TARG		real		true	DEC of the target at epoch J2000
EQUINOX	2000.0	real			Equinox of celestial coord. system
RADESYS	ICRS	string			Coordinate reference frame for the RA and DEC

## RPT\_RAW\_Visit

**Brief:** Defining the meta data of a Preprocessing visit report.

## Header keywords

Name	Default	Data type	Unit	DB	Comment
EXT_VER	4.4	string			version of this rsd file.
RPT_TYPE		string			value taken from job-order file
PRG_NAME		string			program creating this report
PRG_VER		string			version of program creating this report
DATE		string			time when the report is created
DATA_LVL	L0.5	string		common	Level of this data product
PROC_CHN		string		common	Processing chain creating this data structure
CHEOPS Data Structure					
TELESCOP	CHEOPS	string			Telescope's name
INSTRUME	CHEOPS	string			Instrument's name
ORIGIN	SOC	string			Processing site, creating this FITS file
ARCH_REV		integer		common	Archive revision number
PROC_NUM		integer		common	Processing Number
PIPE_VER	N/A	string			Pipeline version
TIMESYS	TT	string			Time frame system
Start and Stop of Validity					
V_STRT_U		UTC	TIMESYS=UTC	common	Start of validity time in UTC
V_STOP_U		UTC	TIMESYS=UTC	common	End of validity time in UTC
V_STRT_M		MJD	day		Start of validity time in MJD
V_STOP_M		MJD	day		End of validity time in MJD
Target					
TARGNAME		string		true	Name of the target as provided by the proposal
SPECTYPE		string		true	Spectral type of the target as provided by the proposal
T_EFF		unsigned int	Kelvin	true	Effective temperature of the target as provided by the proposal
MAG_G		real	mag	true	Brightness of the target in Gaia band
MAG_GERR		real	mag		Error of brightness of the target in Gaia band
MAG_CHPS		real	mag	true	Brightness of the target in CHEOPS band
MAG_CERR		real	mag		Error of brightness of the target in CHEOPS band
Visit					
PI_NAME		string		common	Name of the PI of the observing program
PI_UID		unsigned int		common	ID of the PI
OBS_CAT	undefined	string		common	Observation Category
PROGTYPE		integer		common	Type of the program
PROG_ID		integer		common	Program Id of this type of program
REQ_ID		integer		common	Observation request Id of this program

## CHEOPS Data Products Definition Document

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Name	Default	Data type	Unit	DB	Comment
VISITCTR		integer		common	Visit counter for this target
OBSID		unsigned int		common	Unique identifier of a visit, defined by MPS
PRP_VST1		unsigned int	days	common	Proprietary period, depending on first visit
PRP_VSTN		unsigned int	days	common	Proprietary period, depending on last visit
Target Coordinates					
RA_TARG		real		true	RA of the target at epoch J2000
DEC_TARG		real		true	DEC of the target at epoch J2000
EQUINOX	2000.0	real			Equinox of celestial coord. system
RADESYS	ICRS	string			Coordinate reference frame for the RA and DEC