Requirements (Service)	Proposed Test	Evaluation and Validation
Fulfill requirements of a Commandable SAL Component	Integration Activities with T&S (4b). Transit the command states 100 times.	Show that the Service complies with state transition diagrams for all CSC.
Write Headers for all (100%) images taken by Cameras (LSSTCam, Spectrograph, Test Stand)	Write headers at the cadence required for different observing mode (bias, flats, science)	Can we keep with cadence and write complete files.
Produce Header in the EFD File Annex for L1 Complete TestStand at NCSA	Produce headers for 300 exposures at the cadence required for bias, flats and observing.	Establish that all 300 headers are complete and fully filled out.
Produce Header in the EFD File Annex for Spectrograph	Produce headers for 300 exposures at the cadence required for bias, flats and observing.	Establish that all 300 headers are complete and fully filled out.
Produce Header in the EFD File Annex for ComCam	Produce headers for 300 exposures at the cadence required for bias, flats and observing for a full raft with 9 CCDs	Establish that all headers are complete and fully filled out.
Produce Header in the EFD File Annex for LSSTCam	Produce headers for 300 exposures at the cadence required for bias, flats and observing for a full camera exposure with 189 CCDs	Establish that all headers are complete and fully filled out.
Capture metadata at the beginning of visit	Produce headers for 300 exposures at the cadence required for bias, flats and observing.	Sample the log files and establish that acquisition of data happened at the proper time and verify against the EFD.
Capture metadata at end of readout	Produce headers for 300 exposures at the cadence required for bias, flats and observing.	Sample the log files and establish that acquisition of data happened at the proper time and verify against the EFD.
Capture metadata at the beginning of visit	Produce headers for 300 exposures at the cadence required for bias, flats and observing.	Sample the log files and establish that acquisition of data happened at the proper time and verify against the EFD.
Write header and Publish Event to OCS within (TBD) milliseconds (TBR) of the end of readout event.	Write headers at the cadence required for different observing mode (bias, flats, science)	Files are not dropped or corrupted while written. Are MD5 value the same.
Produce best header available when input telemetry is missing or detectable corrupt.	Test run of 3 headers with faulty telemetry.	Verify that headers were created according to spec.
Publish an event to the OCS/DDS if monitoring detects any failure of the service.	Test run of 3 headers with faulty telemetry.	(TBD) Verify that message was broadcasted
Be capable of extracting metadata items from published configurations from Camera and T&S (not Telemetry)	Test run of 3 headers with different configurations.	Are the key/values extracted from configurations the same as the ones on the EDF?
Capture all metadata required by Prompt Processing, archiving, and any relevant Summit systems.	Integration Activities with T&S than includes Archiving and Prompt Processing.	Archiving and Prompt Processing successful
Capture and generate on-the-fly additional metadata requested by the Project Science Team.	Integration Activities with T&S (TBD)	Are the key/values present?
Requirements (Software)		
Operate in Test Stand, Auxiliary Telescope, Clean/White Room, and Telescope environments.	Test run of 3 headers with different telescope environment configurations.	Are the headers compliant with the
Publish metadata to the EFD Large File Annex as standard FITS headers	Use fits checker or similar to confirm that headers are compliant.	Are headers FITS compliant with the header definitions for each telescope mode.
Allow (static) configuration of averaging and interpolation algorithms for time series metadata values.	Test run of 3 headers.	Are the key/values extracted from configurations the same as the ones on the EDF when averaging and interpolation is applied?