Legend
- Satisfy
- Satisfy (Implied)

	Data Management	Alert Distribution	Alert Filtering	Image and EFD Archiving	Image Processing	Offline Processing	Prompt Processing	Telemetry Gateway	Calibration Products Production Ex	Data Release Production Execution	Bulk Distrib	Proposal Manager	Developer Services	Integration & Test	Data Backbone	Identity Manager	Infrastructure	Network	Workload Workflow	Data Access Client	Task Execution Framework	EAIX Web Services	EAIX Portal	LSP Portal	QC System	Science Algorithms	Alert Production	Annual Calibration	Daily Calibration Update	Data Quality Assessment	Monthly Calibration	MOPS and Forced Photometry	Raw Calibration	Raw Ingestion	Science Primitives
LSE-61: Data Management System Requirements	17	79	9	11	16	21	14	18	4	56	18	7	49	11	3	44	1	1	72	51	4	19	25	9	7	9	44	41	10	12	7	7	35	13	16	33	13	13	4	3	4
Data Products	73	43	1	1	6	12	4	6		38	11	1	11			11			6	6					2	1	11	11			2		24	10	11	25	10	6	1	1
Calibration Data Products	9	9			9					9	9																						9		9		9			
DMS-REQ-0059 Bad Pixel Map	8	1	4	2		✓			2	✓	✓								3							3			✓	✓	✓								
DMS-REQ-0060 Bias Residual Image	8	1	4	2		✓			2	✓	✓								3							3			✓	✓	✓								
DMS-REQ-0061 Crosstalk Correction Matrix	8	1	4	2		✓			2	✓	✓								3							3			✓	✓	✓								
DMS-REQ-0062 Illumination Correction Frame	8	1	4	2		✓			2	✓	✓								3							3			✓	✓	✓								
DMS-REQ-0063 Monochromatic Flatfield Data Cube	8	1	4	2		✓			2	✓	✓								3							3			✓	✓	✓								
DMS-REQ-0130 Calibration Data Products	8	1	4	2		✓			2	✓	✓								3							3			✓	✓	✓								
DMS-REQ-0132 Calibration Image Provenance	8	1	4	2		✓			2	✓	✓								3							3			✓	✓	✓								
DMS-REQ-0282 Dark Current Correction Frame	8	1	4	2		✓			2	✓	✓								3							3			✓	✓	✓								
DMS-REQ-0283 Fringe Correction Frame	8	1	4	2		✓			2	✓	✓								3							3			✓	✓	✓								
Data Acquisition	6		6		5	1	3		1	1	1																						1	1	1				
DMS-REQ-0018 Raw Science Image Data Acquisition	3	1	2	2		✓																																	
DMS-REQ-0020 Wavefront Sensor Data Acquisition	3	1	2	2		✓																																	
DMS-REQ-0022 Crosstalk Corrected Science Image Data Acquisition	3	1	2	2			✓																																
DMS-REQ-0024 Raw Image Assembly	3	1	2	2		✓																																	
DMS-REQ-0068 Raw Science Image Metadata	3	1	2	2		✓																																	
DMS-REQ-0265 Guider Calibration Data Acquisition	9	1	5	3		✓			2	✓	✓								3							3			✓	✓	✓								
General Considerations	6		3		1	1	1	1		5	1	1	3			3					2			3	3							2		4					
DMS-REQ-0126 Storing Approximations of Per-pixel Metadata	3	1	1						1	✓									1							1								✓					
DMS-REQ-0133 Computing Derived Quantities	7	1	3						1	✓			1	✓		1	✓		3			2	2	✓		1								✓					
DMS-REQ-0312 Denormalizing Database Tables	5	1	2							✓			1	✓		1	✓		2			2	2	✓		1								✓					
DMS-REQ-0313 Maximum Likelihood Values and Covariances	6	1	2	1	✓				1	✓									3	1	✓					2		✓											
DMS-REQ-0146 Data Availability	9	1	8	5			✓	✓	3	✓	✓	✓																											
DMS-REQ-0347 Measurements in catalogs	10	1	4	4	1				1	✓			1	✓		1	✓		5	1	✓	2	2	✓	✓	2		✓		✓									
Level 1 Data Products	25	33	1	1		1	1	2		3			2			2							2	2		2		20		1	1			4	1				
DMS-REQ-0004 Nightly Data Accessible Within 24 hrs	8	1	5	5	✓	✓	✓					✓	✓						2							2		✓							✓				
DMS-REQ-0010 Difference Exposures	3	1	1	1															1							1		✓											
DMS-REQ-0071 Difference Exposure Attributes	3	1	1	1															1							1		✓											
DMS-REQ-0069 Processed Visit Images	3	1	1	1															1							1		✓											
DMS-REQ-0029 Generate Photometric Zeropoint for Visit Image	3	1	1	1															1							1		✓											
DMS-REQ-0030 Generate WCS for Visit Images	3	1	1	1															1							1		✓											
DMS-REQ-0070 Generate PSF for Visit Images	3	1	1	1															1							1		✓											
DMS-REQ-0071 Processed Visit Image Content	3	1	1	5															1							1		✓											
DMS-REQ-0127 Background Model Calculation	3	1	1	1															1							1		✓											
DMS-REQ-0128 Documenting Image Characterization	3	1	1	1															1							1		✓											
DMS-REQ-0087 Level 1 Data Quality Report Definition	5	1	2	2					1	✓									2			1			1	✓		✓											
DMS-REQ-0099 Level 1 Performance Report Definition	5	1	3	2				✓	1	✓									1			1			1	✓													
DMS-REQ-0101 Level 1 Calibration Report Definition	5	1	2	2			✓												2							2									✓				
DMS-REQ-0266 Exposure Catalog	3	1	1	2															1							1		✓											
DMS-REQ-0269 DIASource Catalog	3	1	1	1															1							1		✓											
DMS-REQ-0270 Faint DIASource Measurements	3	1	1	1															1							1		✓											
DMS-REQ-0271 DIAObject Catalog	3	1	1	1															1							1		✓											
DMS-REQ-0272 DIAObject Attributes	3	1	1	1															1							1		✓											
DMS-REQ-0273 SSObject Catalog	3	1	1	1															1							1									✓				
DMS-REQ-0274 Alert Content	3	1	1	1															1							1		✓											
DMS-REQ-0317 DIAForcedSource Catalog	4	1	1	1															2							2		✓											
DMS-REQ-0319 Characterizing Variability	4	1	1	1															2							2		✓							✓				
DMS-REQ-0323 Calculating SSObject Parameters	5	1	2	2					1	✓			1	✓					2							2		✓											
DMS-REQ-0324 Matching DIASources to Objects	7	1	3	1	✓				1	✓			1	✓					3			2	2	✓	✓	1		✓											
DMS-REQ-0325 Regenerating L1 Data Products During Data Releas	3	1	1						1	✓									1							1									✓				
Level 2 Data Products	23									19			4			4			4	4																19			1
DMS-REQ-0014 Associate Sources to Objects	3	1	1						1	✓									1							1									✓				
DMS-REQ-0067 Provide PSF for Coadded Images	3	1	1						1	✓									1							1									✓				
DMS-REQ-0100 Produce Images for EPO	3	1	1						1	✓									1							1									✓				
DMS-REQ-0106 Coadded Image Provenance	3	1	1						1	✓									1							1									✓				
DMS-REQ-0267 Source Catalog	3	1	1						1	✓									1							1									✓				
DMS-REQ-0268 Forced-Source Catalog	3	1	1						1	✓									1							1									✓				
DMS-REQ-0275 Object Catalog	3	1	1						1	✓									1							1									✓				
DMS-REQ-0046 Provide Photometric Redshifts of Galaxies	3	1	1						1	✓									1							1									✓				
DMS-REQ-0276 Object Characterization	3	1	1						1	✓									1							1									✓				
DMS-REQ-0277 Coadd Source Catalog	3	1	1						1	✓									1							1									✓				
DMS-REQ-0149 Detecting extended low surface brightness obj	3	1	1						1	✓									1							1									✓				
DMS-REQ-0278 Coadd Image Method Constraints	3	1	1						1	✓									1							1									✓				
DMS-REQ-0279 Deep Detection Coadds	3	1	1						1	✓									1							1									✓				
DMS-REQ-0280 Template Coadds	4	1	1						1	✓									2							2									✓				✓
DMS-REQ-0281 Multi-band Coadds	3	1	1						1	✓									1							1									✓				
DMS-REQ-0329 All-Sky Visualization of Data Releases	3	1	1						1	✓									1							1									✓				
DMS-REQ-0330 Best Seeing Coadds	3	1	1						1	✓									1							1									✓				
DMS-REQ-0331 Persisting Data Products	7	1	4								1	✓		1	✓				2	✓	✓	2	2	✓	✓	1													
DMS-REQ-0335 PSF-Matched Coadds	3	1	1						1	✓									1							1									✓				
DMS-REQ-0336 Regenerating Data Products from Previous Data R	7	1	4								1	✓		1	✓				2			2	2	✓	✓														
DMS-REQ-0337 Detecting faint variable objects	3	1	1						1	✓									1							1													
DMS-REQ-0338 Targeted Coadds	7	1	4								1	✓		1	✓				2	✓	✓	2	2	✓	✓														
DMS-REQ-0339 Tracking Characterization Changes Between Data	7	1	4								1	✓		1	✓				2	✓	✓	2	2	✓	✓														
Special Programs	4		2				2	2		1			2			2			2	2				2	2							2		1		2			
DMS-REQ-0320 Processing of Data from Special Programs	4	1							1	✓									2	1	✓					1									✓				
DMS-REQ-0321 Level 1 Processing of Special Programs Data	6	1	3	3			✓	✓											2							2		✓								✓			
DMS-REQ-0322 Special Programs Database	7	1	4								1	✓		1	✓				2	✓	✓	2	2	✓	✓														
DMS-REQ-0344 Constraints on Level 1 Special Program Products	C12	1	7	3				✓			1	✓		1	✓				2	✓	✓	4	2	2	✓	✓	2		✓										
Facilities	54		12	6	6	9	6	7	7	4	5	5	5		20	9	2		16	1	1		49	29	3	18	25		1	1			16	14	9	10		2			1				1			
Archive Center	3														2	2							3	2		3																						
DMS-REQ-0185 Archive Center	6	1	2	1	✓	5									2	✓	✓						3	✓		✓																						
DMS-REQ-0186 Archive Center Disaster Recovery	6	1	2	1	✓	5									2	✓	✓						3	✓		✓																						
DMS-REQ-0187 Archive Center Co-Location with Existing Facility	3	1	2			2																	2	✓		✓																						
Archive to Data Access Center	4																						4			4																						
DMS-REQ-0188 Archive to Data Access Center Network	3	1	2			2																	2	✓		✓																						
DMS-REQ-0189 Archive to Data Access Center Network Availability	3	1	2			2																	2	✓		✓																						
DMS-REQ-0190 Archive to Data Access Center Network Reliability	3	1	2			2																	2	✓		✓																						
DMS-REQ-0191 Archive to Data Access Center Network Secondary	3	1	2			2																	2	✓		✓																						
Base Facility	4																						4	2		3																						
DMS-REQ-0176 Base Facility Infrastructure	4	1	4	3																			3	✓		✓																						
DMS-REQ-0177 Base Facility Temporary Storage	3	1	2																				2	✓																								
DMS-REQ-0178 Base Facility Co-Location with Existing Facility	3	1	2																				2	✓		✓																						
DMS-REQ-0316 Commissioning Cluster	3	1	2																				2	✓		✓																						
Base to Archive	4																						4			4																						
DMS-REQ-0180 Base to Archive Network	3	1	2																				2	✓		✓																						
DMS-REQ-0181 Base to Archive Network Availability	3	1	2																				2	✓		✓																						
DMS-REQ-0182 Base to Archive Network Reliability	3	1	2																				2	✓		✓																						
DMS-REQ-0183 Base to Archive Network Secondary Link	3	1	2																				2	✓		✓																						
Computational Infrastructure	10		7	6	6	6	5	6	5	3	5	5	5		3	2	2		3	1	1		10	10	2	8	8		1	1			3	3	3	3		2										
DMS-REQ-0008 Pipeline Availability	16	1	15	8	✓	✓	✓	✓	✓	✓	✓	✓	3		✓	✓	✓						4	✓		✓	✓						✓	✓	✓	✓													
DMS-REQ-0161 Optimization of Cost, Reliability and Availability in	16	1	15	8	✓	✓	✓	✓	✓	✓	✓	✓			1	✓			1	✓			4	✓		✓	✓		4			4	4	✓	✓	✓	✓												
DMS-REQ-0162 Pipeline Throughput	12	1	11	7	✓	✓	✓	✓	✓	✓	✓												4	✓		✓	✓																						
DMS-REQ-0163 Re-processing Capacity	8	1	7										3	✓	✓	✓							4	✓		✓	✓																						
DMS-REQ-0164 Temporary Storage for Communications Links	3	1	2																				2	✓																								
DMS-REQ-0165 Infrastructure Sizing for "catching up"	8	1	7	3	✓			✓															4	✓		✓																						
DMS-REQ-0166 Incorporate Fault-Tolerance	3	1	2																				2	✓																								
DMS-REQ-0167 Incorporate Autonomics	15	1	14	7	✓			✓	✓	✓	✓	✓	3	✓	✓	✓							4	✓		✓	✓																						
DMS-REQ-0314 Compute Platform Heterogeneity	30	1	22	8	✓	✓	✓	✓	✓	✓	✓	✓	3	✓	✓	✓	3		✓	✓	✓		5	✓		✓	✓	✓	7	2	✓	✓	5	4	✓	✓	✓	✓	1	✓										
DMS-REQ-0318 Data Management Unscheduled Downtime	26	1	20	8	✓	✓	✓	✓	✓	✓	✓	✓	3	✓	✓	✓	3		✓	✓	✓		5	✓		✓	✓	✓	5				5	4	✓	✓	✓	✓	1	✓										
Data Access Center	9		9								8	5			9				6				9	7	1	3	3						6	5	6	6												
DMS-REQ-0122 Access to catalogs for external Level 3 processing	5	1	4										2	✓					2	✓																												
DMS-REQ-0123 Access to input catalogs for DAC-based Level 3 pro	10	1	5										2	✓		✓	1		2	✓			4						4			4	✓	✓	✓	✓												
DMS-REQ-0124 Federation with external catalogs	9	1	4										1	✓		✓	1		2	✓			4						4			4	✓	✓	✓	✓												
DMS-REQ-0126 Access to images for external Level 3 processing	5	1	4										2	✓		✓			2	✓																												
DMS-REQ-0127 Access to input images for DAC-based Level 3 pro	10	1	5										2	✓		✓	1		2	✓			4						4			4	✓	✓	✓	✓												
DMS-REQ-0191 Data Access Centers	12	1	7										2	✓		✓	1		4	✓			4	✓		✓	✓		4			4	✓	✓	✓	✓												
DMS-REQ-0194 Data Access Center Simultaneous Connections	8	1	4										1	✓			1		2	✓			3						3	3		✓			✓	✓												
DMS-REQ-0196 Data Access Center Geographical Distribution	3	1	2																2	✓																												
DMS-REQ-0197 No Limit on Data Access Centers	12	1	7										1	✓			1		5	✓			4			✓	✓		4			4	✓		✓	✓												
Data Archive	12		4		2		1	1					7			7			8	8													7	6		1					1					1		
DMS-REQ-0075 Catalog Queries	5	1	2										1	✓			1		2	✓			2						2	2		✓	✓															
DMS-REQ-0077 Maintain Archive Publicly Accessible	3	1	2																2	✓																												
DMS-REQ-0078 Catalog Export Formats	5	1	2										1	✓			1		2	✓			2						2	2		✓	✓															
DMS-REQ-0079 Keep Historical Alert Archive	3	1	2																2	✓																												
DMS-REQ-0102 Provide Engineering & Facility Database Archive	5	1	4	2	✓														2	✓																												
DMS-REQ-0109 Raw Data Archiving Reliability	5	1	4	2	✓														2	✓																												
DMS-REQ-0310 Un-Archived Data Product Cache	3	1	2																2	✓																												
DMS-REQ-0311 Regenerate Un-archived Data Products	7	1	4										1	✓			1		2	✓									2	2		✓	✓															
DMS-REQ-0112 Level 1 Data Product Access	10	1	4	2	✓			✓					1	✓			1		2	✓			3						2	2		✓	✓						1			✓							
DMS-REQ-0313 Level 1 & 2 Catalog Access	7	1	4										1	✓			1		2	✓			2						2	2		✓																
DMS-REQ-0341 Providing a Precovery Service	8	1	4	2	✓			✓					1	✓			1						3						2	2		✓			✓				1			✓							
DMS-REQ-0345 Logging of catalog queries	5	1	2										1	✓			1						2						2	2		✓																
Summit Facility	3		1		1	1	1	1											2		1	1																										
DMS-REQ-0168 Summit Facility Data Communications	3	1	2																2	✓																												
DMS-REQ-0170 Prefer Computing and Storage Down	3	1	2																2	✓																												
DMS-REQ-0315 DMS Communication with OCS	6	1	5	5	✓		✓	✓		✓	✓																																					
Summit to Base	5																		5			5																										
DMS-REQ-0171 Summit to Base Network	3	1	2																2	✓		✓																										
DMS-REQ-0172 Summit to Base Network Availability	3	1	2																2	✓		✓																										
DMS-REQ-0173 Summit to Base Network Reliability	3	1	2																2	✓		✓																										
DMS-REQ-0174 Summit to Base Network Secondary Link	3	1	2																2	✓		✓																										
DMS-REQ-0175 Summit to Base Network Ownership and Operation	3	1	2																2	✓		✓																										
Productions	28		16	2	4	1	3	3	4		6	2	1		12	1	1		12				13	13	1		4		3	3			12	12	1	1		3			3	1	3	1	1	4	1	
Alert Production	14		14	2	4	1	1	2	3		3				2				2	2													2	2				3			3	2			4	1	
DMS-REQ-0002 Transient Alert Distribution	6	1	4	4	✓	✓	✓																1																1			✓						
DMS-REQ-0089 Solar System Objects Available Within Specified Tim	10	1	6	2									1	✓			1		2	✓			3						2	2		✓	✓						1										
DMS-REQ-0096 Generate Data Quality Report Within Specified Tim	4	1	2	1	✓				1	✓									1										1				1				1	✓										
DMS-REQ-0098 Generate DMS Performance Report Within Specifie	4	1	2	1	✓				1	✓									1										1				1				1	✓										
DMS-REQ-0103 Generate Calibration Report Within Specified Time	5	1	2	2					1	✓									2