

Functionality / Use Cases	UC Number	R0.0: WMS-BDMS Inegration Test	R0.1: Pipeline Integration Test	R0.2: Legacy Sim Processor (partial release)	R1.0: Monoscopic Processing	EXT: ICCN #1	EXT: public SDC	R2.0:Prod6 IRF Maker	R2.1: Prod7 Producer	EXT: Produce Prod7 sims and IRFs	EXT: ICCN #2	EXT: ICES #1	EXT: ICCN #3 (SVC)	EXT: ICES #2
▼ DPPS														
▼ BDMS														
Ingest sim data product(s)	UC-110-1.1	✓	✓					✓	✓	✓			✓	✓
Ingest obs data product(s)	UC-110-1.1				✓	✓					✓	✓	✓	✓
ACADA interface	ACADA ICD				✓	✓					✓	✓	✓	✓
Policy to Transfer Data to off-site					✓	✓					✓	✓	✓	✓
Policy for short-term Preservation								✓	✓	✓			✓	✓
Policy for medium-term Preservation								✓	✓	✓			✓	✓
Policy for long-term preservation											✓		✓	✓
Query by LFN	UC-110-1.2	✓	✓		✓	✓		✓	✓	✓			✓	✓
Query by Metadata	UC-110-1.2				✓	✓		✓	✓	✓			✓	✓
Retrieve Data Products	UC-110-1.3	✓	✓		✓	✓		✓	✓	✓			✓	✓
Monitor Storage Performance								✓	✓					
▼ Workload														
Run a single-job workflow			✓		✓	✓		✓	✓	✓	✓	✓	✓	✓
Configure a production	UC-100-1.1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Execute a production	UC-100-1.2			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Monitor Production Workflows								✓	✓					
▼ Ops														
Monitor DPPS									✓	✓	✓	✓	✓	✓
Deploy DPPS Services					✓	✓		✓	✓	✓	✓	✓	✓	✓
▼ SimPipe														
Set Simulation Model Parameters	UC-150-1.2		✓						✓	✓	✓	✓	✓	✓
Validate Simulation Model Parameters	UC-150-1.3		✓			✓			✓	✓	✓	✓	✓	✓
Configure Simulation Production	UC-150-1.8					✓			✓	✓	✓	✓	✓	✓
Generate Simulation Model Report	UC-150-1.6								✓	✓	✓	✓	✓	✓
Verify Simulation Production									✓	✓	✓	✓	✓	✓
Simulate the Response of CTA	UC-150-1.1					✓			✓	✓	✓	✓	✓	✓
Generate Grid Simulations									✓		✓	✓	✓	✓
Generate Tailored Simulations														
Update Simulation Model parameters from measurements					✓	✓		✓	✓					
Run Simulations for Determining Systematic Uncertainties	UC-150-1.7								✓	✓				
Simulate Calibration Measurements	UC-150-1.4													
Simulate Laboratory Test Stands	UC-150-1.5													
▼ CalibPipe														
Calibrate Telescope Cameras											✓		✓	✓
Compute Noise Pedestals					✓						✓		✓	✓
Compute DC/PE ratios											✓		✓	✓
Compute inter-pixel flat-fielding coefficients					✓						✓		✓	✓
Calibrate Telescopes Optical Throughput	UC-120-2.1					✓		✓	✓		✓	✓	✓	✓
▼ DataPipe														
Process Simulation Datasets	UC-130-2			✓			✓	✓	✓	✓	✓		✓	✓
Produce IRFs	UC-130-1.6			✓			✓	✓	✓	✓	✓		✓	✓
benchmark IRFs	UC-130-2.2.5			✓			✓	✓	✓	✓	✓		✓	✓
produce SAG IRFs													✓	✓
Process Observation Datasets	UC-130-3				✓						✓	✓	✓	✓
Produce DL3 Data Products for a monoscopic observation	UC-130-3.1			✓	✓	✓					✓	✓	✓	✓
Produce DL3 Data Products for a stereoscopic observation	UC-130-3.1							✓	✓	✓			✓	✓
Produce DataPipe Quality Metrics	UC-130-3.2										✓	✓	✓	✓
Process Event Data	UC-130-1.2		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Process DL0 to DL1	UC-130-1.2.1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Process DL1 to DL2	UC-130-1.2.2		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Process DL2 to DL3	UC-130-1.2.3				✓	✓		✓	✓	✓	✓	✓	✓	✓
▼ QualPipe														
Read DL0.Monitoring Data					✓						✓	✓	✓	✓
Compute Data Quality Metrics											✓	✓	✓	✓
Generate Data Quality Reports											✓	✓	✓	✓
Provide Interface to Explore Data Quality														
▼ Internal Interfaces														
BDMS-Workload			✓		✓	✓		✓	✓					
Pipelines-Workload			✓		✓	✓		✓	✓					
Ops-Workload								✓	✓					
Ops-BDMS								✓	✓					
SimPipe-CalibPipe			✓					✓	✓					
SimPipe-DataPipe			✓					✓	✓					
CalibPipe-DataPipe														
DataPipe-QualPipe														
CalibPipe-QualPipe														
▼ AIV														
BDMS/Rucio deployed on Test Cluster		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
BDMS/FTS deployed on Test Cluster			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
Workload/DIRAC deployed on Test Cluster		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Workload/CVMFS deployed on Test Cluster			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
Test small simulation analysis?				✓			✓	✓	✓	✓	✓	✓	✓	✓
Test BDMS replication policies on Test cluster														
Run a pipeline workflow on test cluster			✓											
Estimate on-site computing resources					✓			✓						
Estimate off-site computing resources					✓			✓						
▼ EXTERNAL														

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▼ External Interfaces														
DPPS-ACADA Ingest		☐	☒	☐	☒	☒	☐	☐	☐	☐	☒	☒	☒	☒
DPPS-ACADA DL0.Event		☒	☐	☐	☐	☒	☐	☐	☐	☐	☒	☒	☒	☒
DPPS-ACADA DL0.Monitoring		☐	☐	☐	☐	☒	☐	☐	☐	☐	☒	☒	☒	☒
DPPS-ICT		☐	☐	☐	☒	☒	☐	☒	☒	☒	☒	☒	☒	☒
DPPS-AAI		☐	☐	☐	☐	☐	☐	☐	☒	☒	☒	☒	☒	☒
▼ CTAC Legacy DIRAC														
Deploy DataPipe		☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐
Execute workflows		☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐
Store data products		☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐
▼ Off-site ICT														
▼ DC1														
BDMS Client Services		☐	☐	☐	☐	☒	☐	☐	☐	☒	☒	☒	☒	☒
BDMS Central Services		☐	☐	☐	☐	☒	☐	☐	☐	☒	☒	☒	☒	☐
Workload Central Services		☐	☐	☐	☐	☒	☐	☐	☐	☒	☒	☒	☒	☒
Ops K8s Services		☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐
▼ DC2														
BDMS Central Services Failover		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐
Workload Central Services Failover		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐
BDMS client services		☐	☐	☐	☐	☐	☐	☐	☐	☒	☒	☒	☒	☒
Workload Client Services		☐	☐	☐	☐	☐	☐	☐	☐	☒	☒	☒	☒	☒
▼ DC3														
BDMS client services		☐	☐	☐	☐	☐	☐	☐	☐	☒	☒	☒	☒	☒
Workload Client Services		☐	☐	☐	☐	☐	☐	☐	☐	☒	☒	☒	☒	☒
▼ DC4														
BDMS client services		☐	☐	☐	☐	☐	☐	☐	☐	☒	☒	☒	☒	☒
Workload Client Services		☐	☐	☐	☐	☐	☐	☐	☐	☒	☒	☒	☒	☒
▼ On-site ICT														
▼ North														
BDMS Client Services		☐	☐	☐	☐	☒	☐	☐	☐	☐	☒	☐	☒	☐
Workload Client Services		☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☒	☐
▼ South														
BDMS Client Services		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☒
Workload Client Services		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☒