Simulated OCS / Scheduler Coordinated Workplan

This page provides the coordinated work plan between the Simulated OCS (SOCS) and the Scheduler. Updated: 2017-05-24 (using Francisco's private-delivery dates as of 5/11/17 .. add time for science testing)

Combined Release v0.1 - done

Release Date: 2015-09-30

SOCS Workplan	Scheduler Workplan
 Release OpSim Requirements document Design SOCS independant of OpSim Define and initiate SOCS code modules in SE Simulations repository Prototype and benchmark Communications using current release of DDS-SAL-Python 	 Release Scheduler Interface Document Design Scheduler independent from OpSim Define and initiate Scheduler code modules in T&S repository Prototype and benchmark Communications using current release of DDS-SAL-Python

Combined Release v0.2 - done

Release Date: 2015-12-27

SOCS Workplan	Scheduler Workplan
Implement SOCS structure with interface Implement simulation kernel with time simulator Refactor and integrate observatory model Implement observatory telemetry simulator Implement simulation sequencer with targets handling Refactor and integrate observations DB Integrate with Scheduler SOCS topics: telemetry for time and observatory conditions Scheduler topics: next target from scripted proposal	 Implement Scheduler structure with interface Implement time handling Refactor and integrate observatory model Implement Scripted Proposal Integrate with simulator (SOCS) SOCS topics: telemetry for time and observatory conditions Scheduler topics: next target from scripted proposal

Combined Release v0.3 - done

Release Date: 2016-05-20

SOCS Workplan	Scheduler Workplan
 Refactor and integrate Astronomical Sky Integrate Observatory Model slew and track behavior for observing visits Implement observing behavior in simulation sequencer Integrate DB storage of targets received and visits performed Integrate and benchmark performance with Scheduler Test multiple AD proposals survey with slew time cost and sky brightness Test repeatability Test speed under simulation 	 Refactor and integrate Astronomical Sky Integrate Observatory Model slew time estimations Implement Survey Conductor with slew time cost Refactor and integrate Area Distribution Science Proposals Integrate and benchmark performance with SOCS Test multiple AD proposals survey with slew time cost and sky brightness Test repeatability Test speed under simulation

Combined Release v1.0 - in testing

Release Date: 2017-02-28

SOCS Workplan	Scheduler Workplan	
SOCS Workplan	Scheduler Workplan	

- Refactor and integrate Environment ModelSimulate weather telemetry, clouds and seeing
- Incorporate filter swaps during new moon
 Incorporate downtime simulator
- Implement Scheduler configuration via commands
- Integrate with Scheduler
 - Test with complete survey
 Test repeatability

 - Test execution speed

- Refactor and integrate Time Distribution Science Proposals
- Incorporate filter swaps during new moon
- Implement inter-proposal self balancing priority Incorporate weather telemetry handling
- configuration
- Integrate with SOCS

 Test with complete survey
 Test repeatability

 - Test execution speed

Combined Release v1.1

Release Date: 2017-09-30

SOCS Workplan	Scheduler Workplan
 Support for previous release Support Development for Area Distribution Look Ahead in Scheduler 1.1 Implement non deterministic weather simulator Implement non deterministic downtime simulator Integrate and test with Scheduler Test survey with Area Distribution proposals and Look Ahead Test speed performance Test repeatability 	 Implement deterministic look ahead data structure Implement Look Ahead algorithm for Area Distribution Proposals Integrate and test with SOCS Test survey with Area Distribution proposals and Look Ahead Test speed performance Test repeatability

Combined Release v1.2

Release Date: 2018-01-31

SOCS Workplan	Scheduler Workplan
 Support for previous release Support Development for Time Distribution Look Ahead in Scheduler 1.2 Integration and test with Scheduler 	 Implement Look Ahead algorithm for Time Distribution Proposals Integrate and test with SOCS Validate Sequences selection with look ahead Test speed performance

Combined Release v1.3

Release Date: 2018-05-31

SOCS Workplan	Scheduler Workplan
 Support for previous release Evaluate and implement performance enhancements 	Evaluate and implement performance enhancements

Combined Release v1.4

Release Date: 2018-12-31

	SOCS Workplan	Scheduler Workplan
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- Support for previous release

- Implement warm start DB interface for Scheduler
 Implement image quality feedback simulator
 Implement degraded operational modes simulator
 - Constrained limits and/or speeds for mount, rotator, dome,
- Constrained availability of filters
 Integrate and test with Scheduler

 - Test resuming partial surveys
 Test variable image quality feedback
 Test degraded modes

- Implement warm start capabilityImplement image quality feedback handling
- Implement degraded operational modes

 Constrained limits and/or speeds for mount, rotator, dome,
- Constrained availability of filters
 Integrate and test with SOCS
- - Test resuming partial surveys
 Test variable image quality feedback
 Test degraded modes

Combined Release v1.5

Release Date: 2019-05-31

SOCS Workplan	Scheduler Workplan
 Support for previous release Implement spatial distribution for weather simulator Integrate and test with Scheduler Test dithering in Scheduler Test spatial distribution for weather in a survey 	 Implement Dithering algorithm Implement handling of spatial distribution for weather telemetry Integrate and test with SOCS

Combined Release v2.0

Release Date: 2019-10-31

SOCS Workplan	Scheduler Workplan
 Support for previous release Support Scheduler Implementation for publication of future targets schedule Integrate and test with Scheduler 	 Implement publication of future targets schedule Integrate and test with SOCS

Combined Release v2.1

Release Date: 2020-02-28

SOCS Workplan	Scheduler Workplan
 Support for previous release Implement weather forecast Integrate and test with Scheduler 	 Implement handling of weather forecast in look ahead algorithms Integrate and test with SOCS

Combined Release v2.2

Release Date: 2020-06-30

SOCS Workplan	Scheduler Workplan
 Support for previous release Support Scheduler implementation of generic interface for optimization algorithms Support Schedule Incorporation community provided optimizations 	 Implement generic interface for optimization algorithms Incorporate community provided optimizations