

Cinder

Contact, instrument, product, clock, or recorder.

A spacecraft science environment where a healthy contact, a live bus, complete raw capture, fresh telemetry, and falling recorder space each mean something different.

THE OPERATIONAL REALITY

Data can be sent and still never enter the ground system. An instrument can go silent while the bus stays up. Products can gap after raw capture succeeded. Fresh data can be timed on the wrong clock. A recorder can be inside its limit and still be headed through it.

WHAT V8Y IS BEING TESTED ON

V8Y must find the first boundary that actually broke, recommend rather than command a vehicle when that is the rule, and prove science recovery rather than a green bus or another contact.

AVAILABLE THREADS

The Ground Gap

The contact looks good. The science does not arrive on the ground.

Silent Instrument

The bus and the link stay up. Science frames stop.

Split Stream

Raw capture looks complete. Priority products are missing.

Fresh but Wrong

Displays look current. Events sit on the wrong mission time.

Recorder Tide

Science is still flowing. Remaining recorder space is not keeping up.

THE MISSION PROOF

Another contact, a bus reboot, or cleanup after a full recorder is not success. Ground entry, science frames, product completeness, an agreed time base, or recorder occupancy still below its limit is.

WHERE THIS APPLIES

Ground-segment operators, instrument teams, mission planners, and science-data users.

The Ground Gap, Silent Instrument, Split Stream, and Fresh but Wrong are demonstration scenarios. They are not yet live demos. Recorder Tide is a demonstration concept.

Request a Cinder demonstration

V8Y is at TRL 5. Matured through mission demonstrations and prototype environments.

TSM Awardable. Acquisition context, not a validation of these results.

v8y.ai hello@v8y.ai