

On-Orbit Operations

- The demonstration consists of a series of eight planned scenarios, each consisting of mated and unmated operations to show OE capability of performing rendezvous from various separation distances and capture and/or berthing in different lighting conditions.
- A typical scenario begins with separation of the vehicles to a predetermined range, rendezvous, approach and capture, and ends with mated operations.
- On-orbit operations performed while the vehicles are separated include:
 - Separation
 - Far-field rendezvous
 - Near-field rendezvous
 - Proximity operations
 - Final approach
 - Capture
- Mated operations include:
 - Battery transfer
 - Computer removal and replacement
 - Fluid transfer