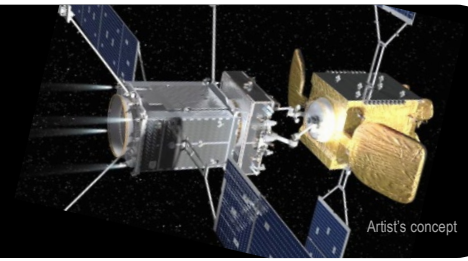
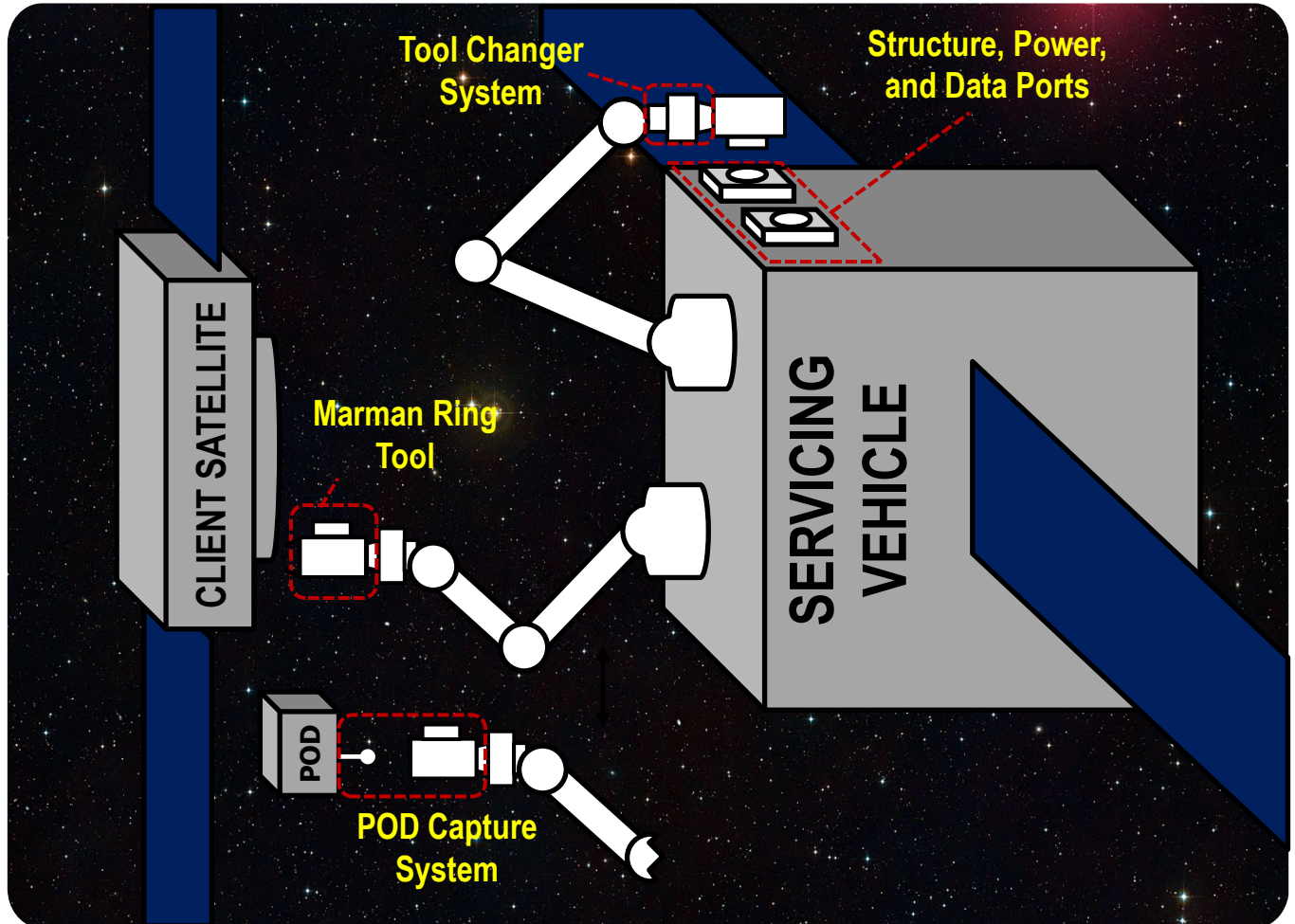


Robotic Servicing of Geosynchronous Satellites

INTERFACE OVERVIEW



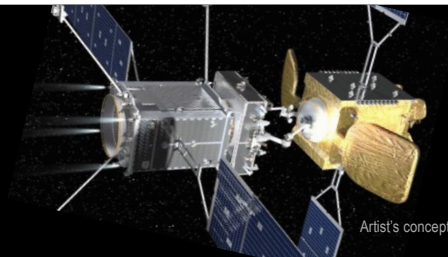
Robotic External Interfaces Overview



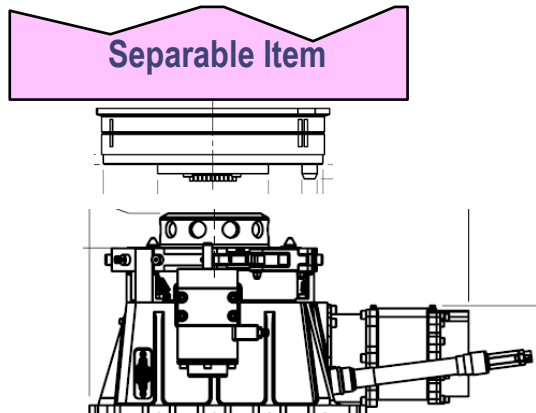
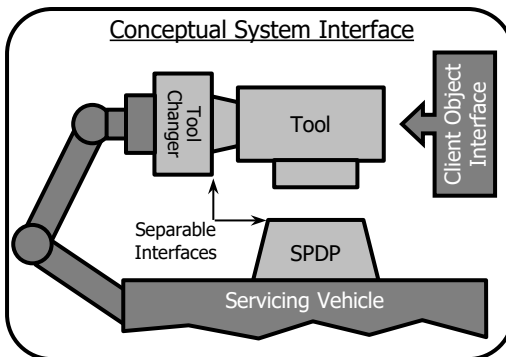
- **Tool Changer System** – Attaches interchangeable tools to the robotic arms; provides optional torque drive for tool actuation
- **Marman Ring Tool** – Grapples satellites via their launch vehicle interface rings
- **Payload On-Orbit Delivery (POD) Capture System** – Grapples PODs or other objects equipped with a compatible fixture
- **Structure, Power, and Data Port (SPDP)** – Provides a mount point for separable items (e.g. tools), with optional power and data links

Robotic Servicing of Geosynchronous Satellites

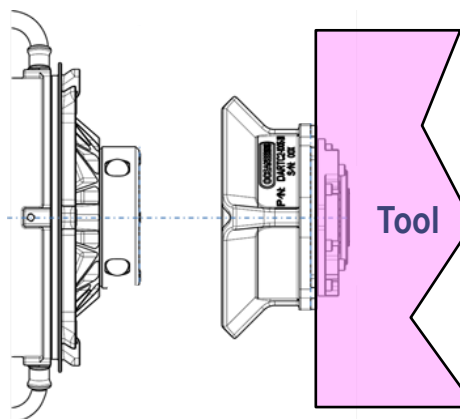
INTERFACE FACT SHEET



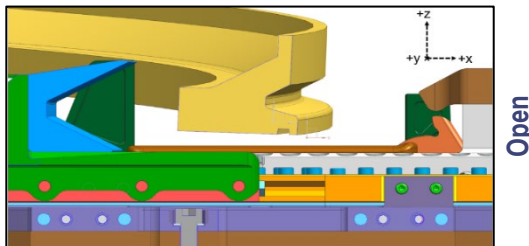
Artist's concept



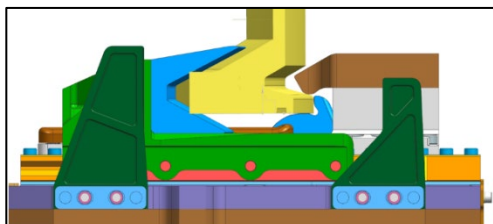
SPDP Mount



Tool Changer Mount

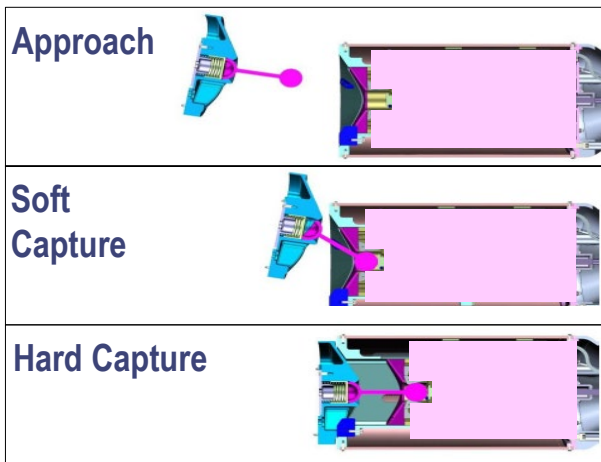


Open



Closed

Marman Ring Capture



POD Capture

Information provided is current as of April 2021.

This research was developed with funding from the Defense Advanced Research Projects Agency (DARPA)
Approved for Public Release, Distribution Unlimited