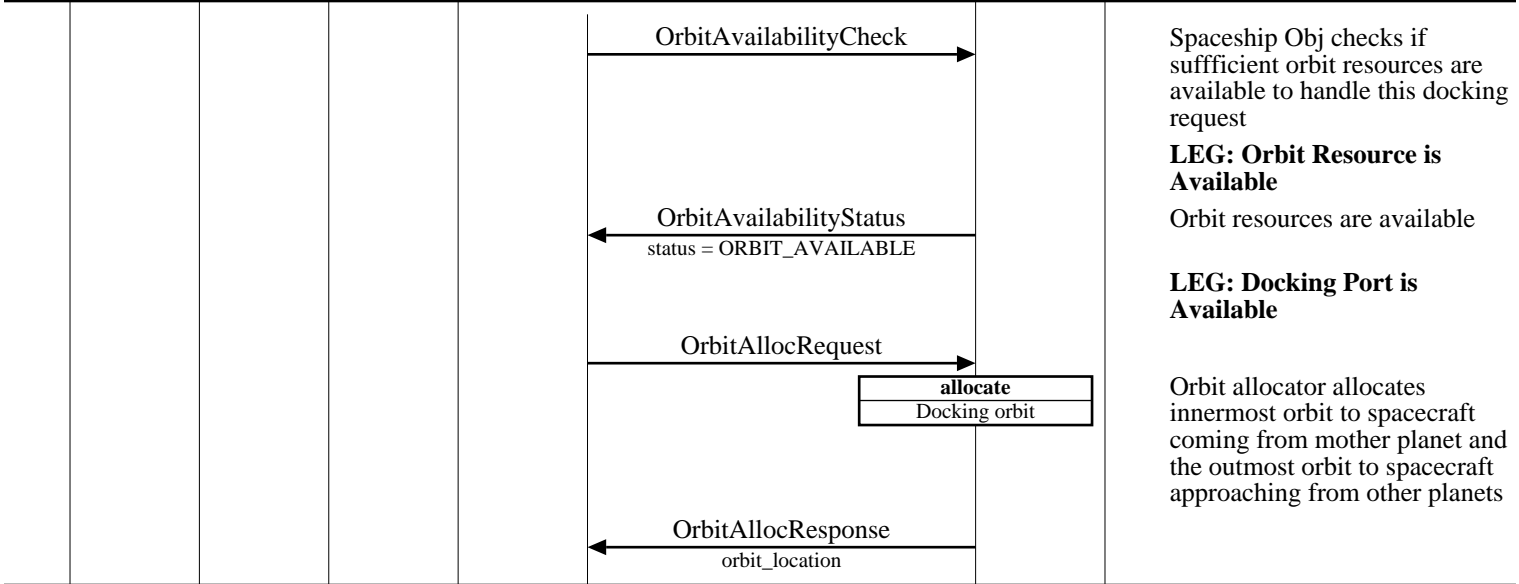


Orbit_allocator Interfaces (Successful Spacecraft Docking and Undocking)									
space		space port							EventHelix.com/EventStudio 2.0
spacecraft		central proc							
pilot	auto dock	broadcast mgr	spaceship obj mgr	spaceship obj	docking	undocking	orbit allocator	docking allocator	05-Jul-03 16:41 (Page 1)

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Spaceship Obj checks if sufficient orbit resources are available to handle this docking request

LEG: Orbit Resource is Available

Orbit resources are available

LEG: Docking Port is Available

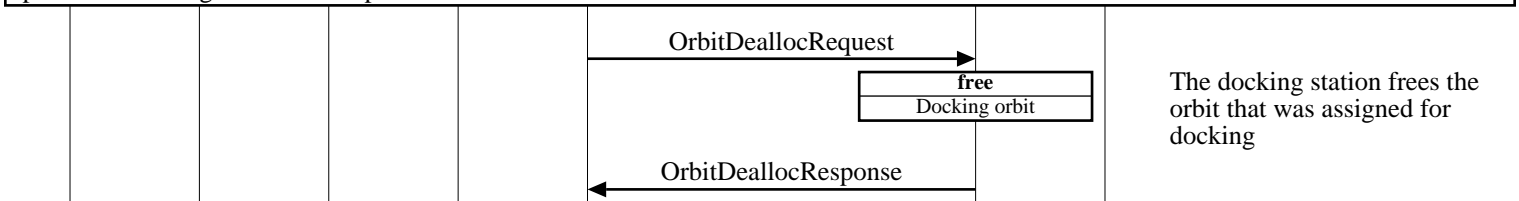
Orbit allocator allocates innermost orbit to spacecraft coming from mother planet and the outmost orbit to spacecraft approaching from other planets

Spacecraft reaches the assigned orbit

A docking or undocking that is already in progress finishes

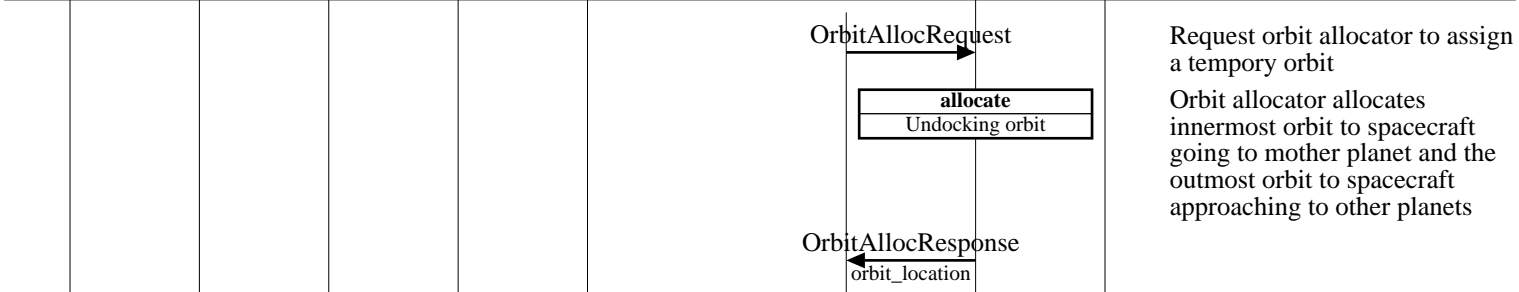
Spacecraft reaches the assigned port and attains the same orbit and velocity as the docking station

Spacecraft docking has been completed



The docking station frees the orbit that was assigned for docking

Spacecraft wishes to depart from the docking station

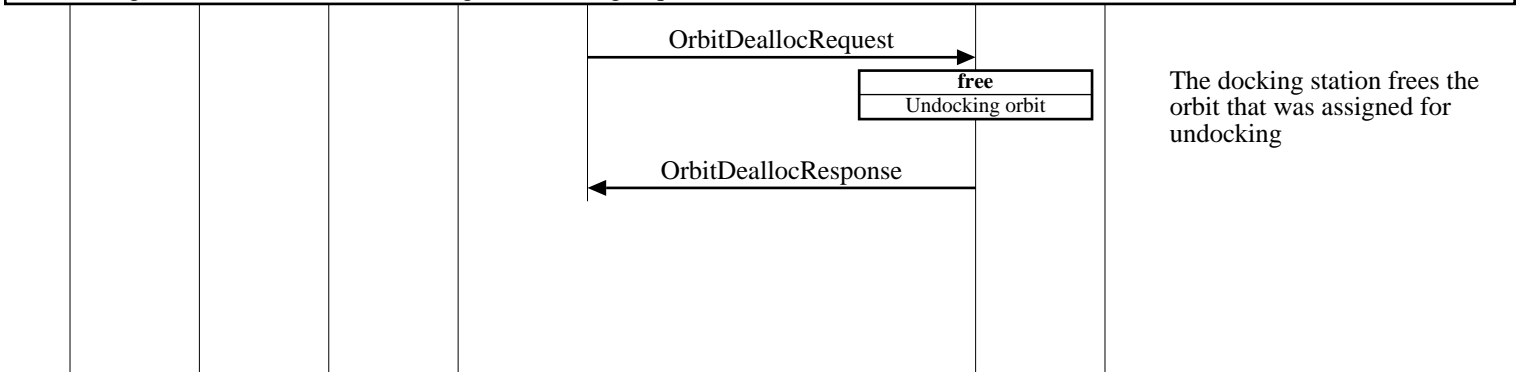


Request orbit allocator to assign a temporary orbit

Orbit allocator allocates innermost orbit to spacecraft going to mother planet and the outmost orbit to spacecraft approaching to other planets

Spacecraft reaches the assigned orbit

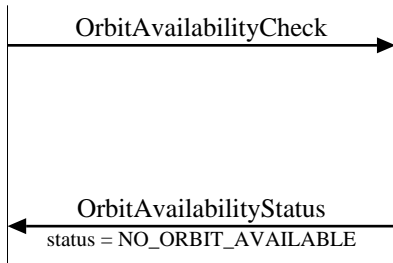
The docking station schedules next docking or undocking request



The docking station frees the orbit that was assigned for undocking

Orbit_allocator Interfaces (Orbit Resource not Available)									
space		space port							EventHelix.com/EventStudio 2.0
spacecraft		central proc							
pilot	auto dock	broadcast mgr	spaceship obj mgr	spaceship obj	docking	undocking	orbit allocator	docking allocator	05-Jul-03 16:41 (Page 2)

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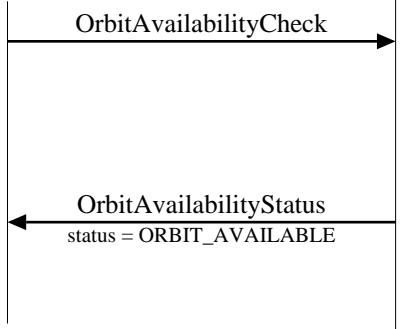
Spaceship Obj checks if sufficient orbit resources are available to handle this docking request

LEG: No Orbit Resource Available

No orbit can be provided

Orbit_allocator Interfaces (Docking Resource not Available)									
space		space port							EventHelix.com/EventStudio 2.0
spacecraft		central proc							
pilot	auto dock	broadcast mgr	spaceship obj mgr	spaceship obj	docking	undocking	orbit allocator	docking allocator	05-Jul-03 16:41 (Page 3)

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Spaceship Obj checks if sufficient orbit resources are available to handle this docking request

LEG: Orbit Resource is Available
Orbit resources are available

LEG: No Docking Ports Available