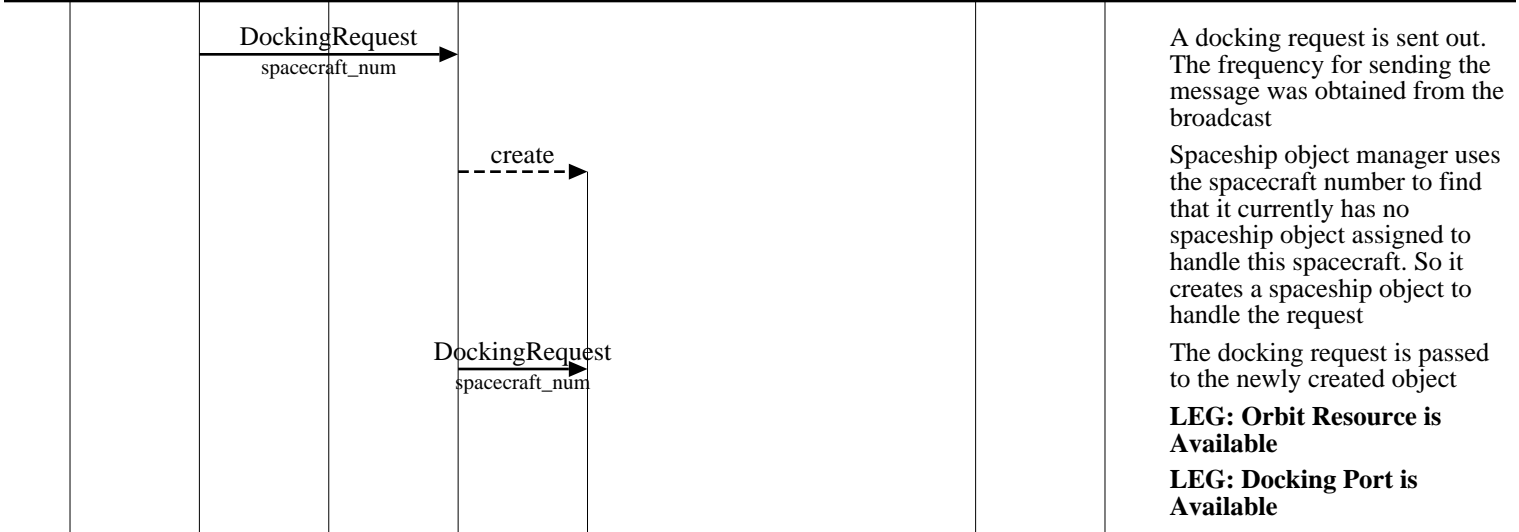


Spaceship_obj_mgr Interfaces (Successful Spacecraft Docking and Undocking)									
space		space port						EventHelix.com/EventStudio 2.0	
spacecraft		central proc							
pilot	auto dock	broadcast mgr	spaceship obj mgr	spaceship obj	docking	undocking	orbit allocator	docking allocator	05-Jul-03 16:41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

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A docking request is sent out. The frequency for sending the message was obtained from the broadcast

Spaceship object manager uses the spacecraft number to find that it currently has no spaceship object assigned to handle this spacecraft. So it creates a spaceship object to handle the request

The docking request is passed to the newly created object

LEG: Orbit Resource is Available

LEG: Docking Port is Available

Spacecraft reaches the assigned orbit

A docking or undocking that is already in progress finishes

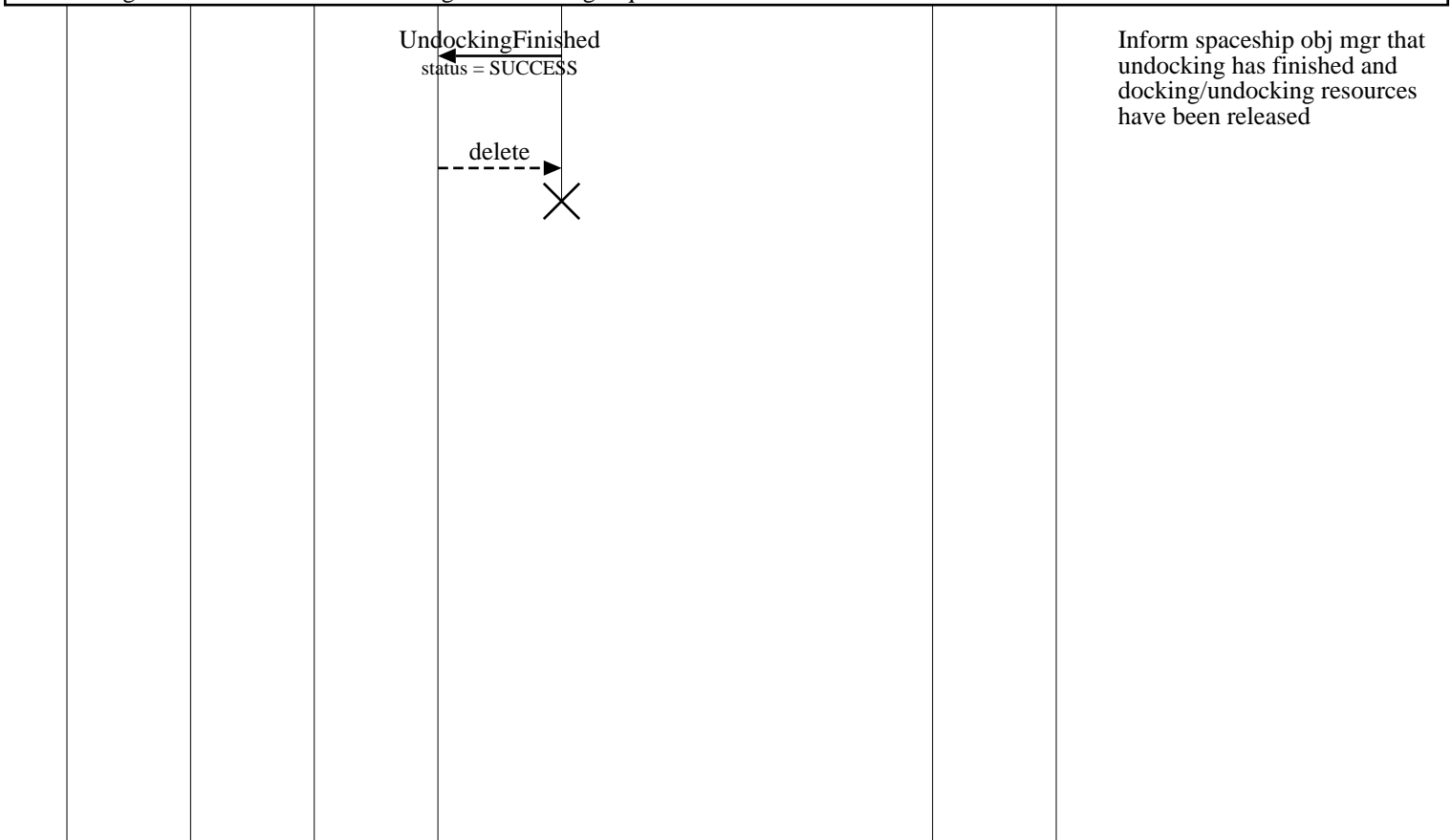
Spacecraft reaches the assigned port and attains the same orbit and velocity as the docking station

Spacecraft docking has been completed

Spacecraft wishes to depart from the docking station

Spacecraft reaches the assigned orbit

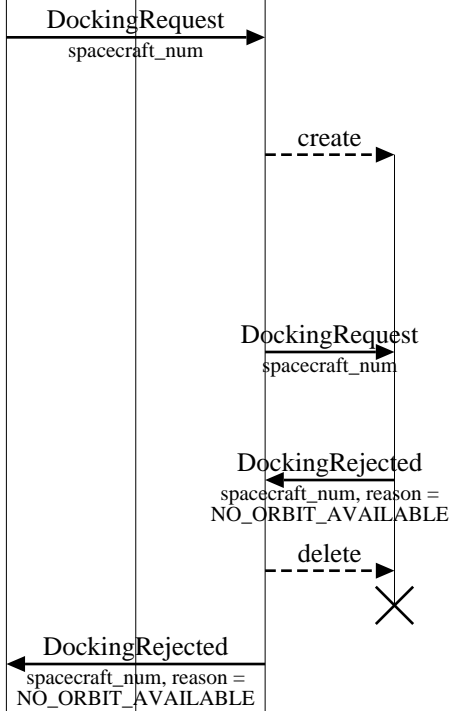
The docking station schedules next docking or undocking request



Inform spaceship obj mgr that undocking has finished and docking/undocking resources have been released

Spaceship_obj_mgr 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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A docking request is sent out. The frequency for sending the message was obtained from the broadcast

Spaceship object manager uses the spacecraft number to find that it currently has no spaceship object assigned to handle this spacecraft. So it creates a spaceship object to handle the request

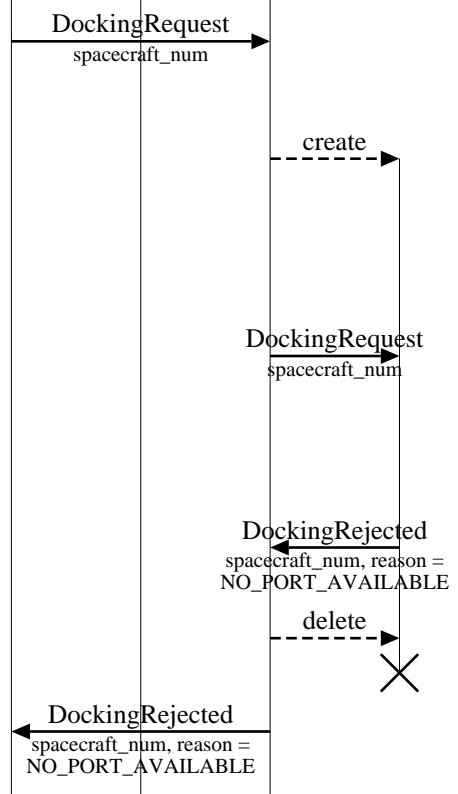
The docking request is passed to the newly created object

LEG: No Orbit Resource Available

Send the rejection back to the spaceship obj mgr so that it can delete this object

Spaceship_obj_mgr 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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A docking request is sent out. The frequency for sending the message was obtained from the broadcast

Spaceship object manager uses the spacecraft number to find that it currently has no spaceship object assigned to handle this spacecraft. So it creates a spaceship object to handle the request

The docking request is passed to the newly created object

LEG: Orbit Resource is Available

LEG: No Docking Ports Available

Send the rejection back to the spaceship obj mgr so that it can delete this object