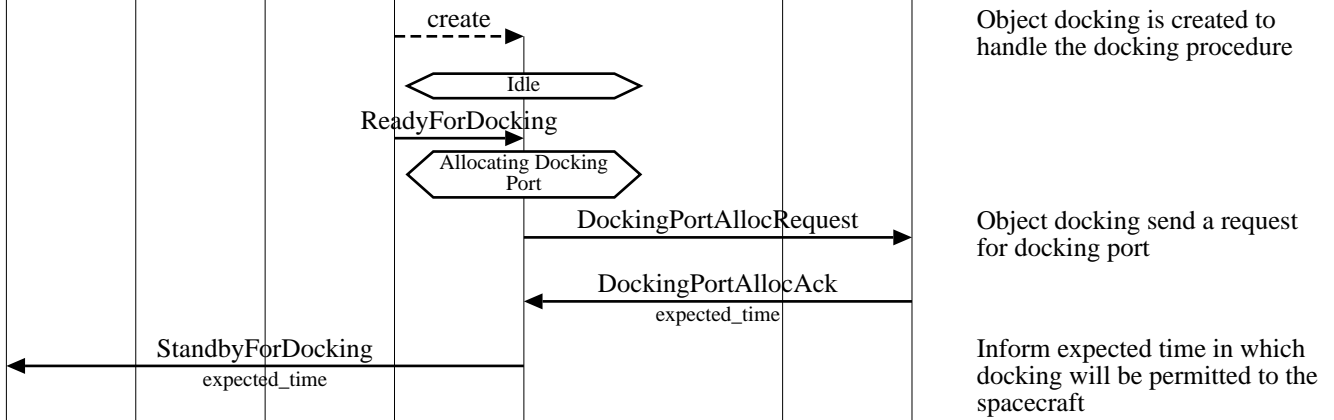


Docking Interfaces (Successful Spacecraft Docking and Undocking)									
space		space port							EventHelix.com/EventStudio 2.0
spacecraft		central proc							
pilot	auto dock	broadcast mgr	spaceship obj mgr	spaceship obj	docking	undocking	orbit allocator	docking allocator	05-Jul-03 16:41 (Page 1)

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**LEG: Orbit Resource is Available**  
**LEG: Docking Port is Available**

Spacecraft reaches the assigned orbit

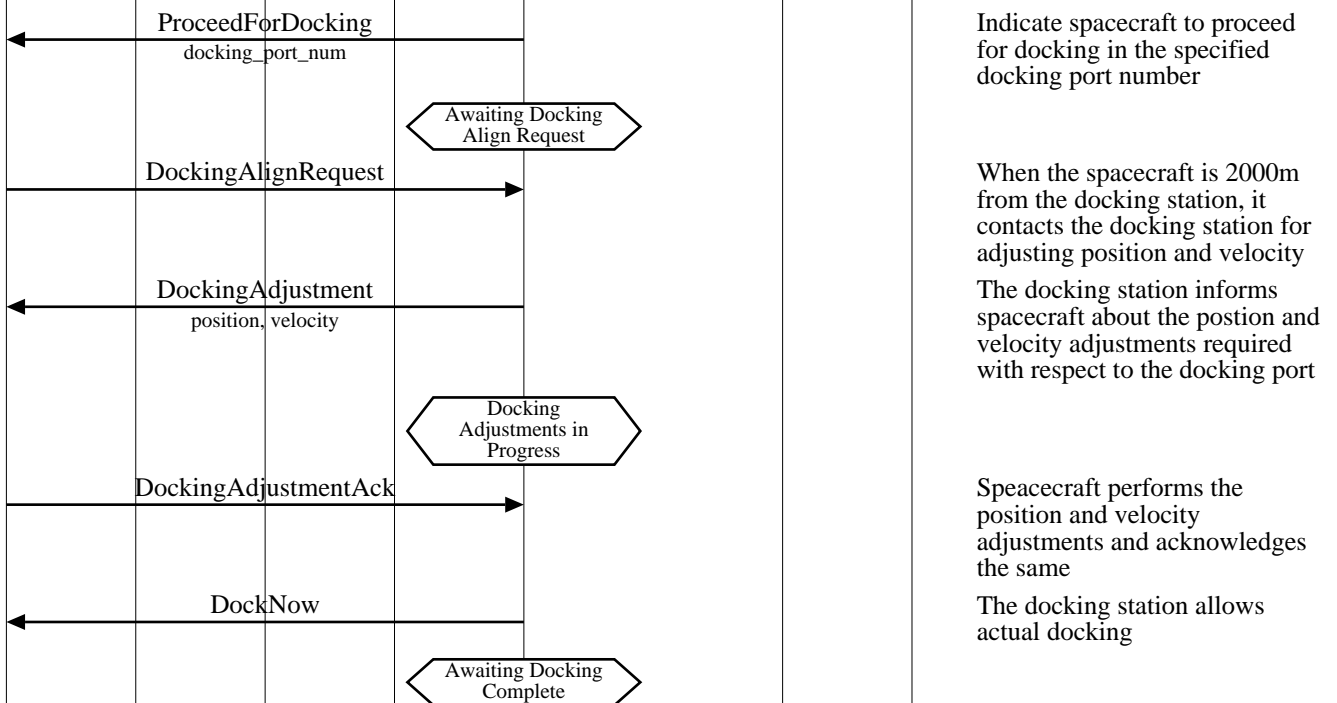


Object docking is created to handle the docking procedure

Object docking send a request for docking port

Inform expected time in which docking will be permitted to the spacecraft

A docking or undocking that is already in progress finishes



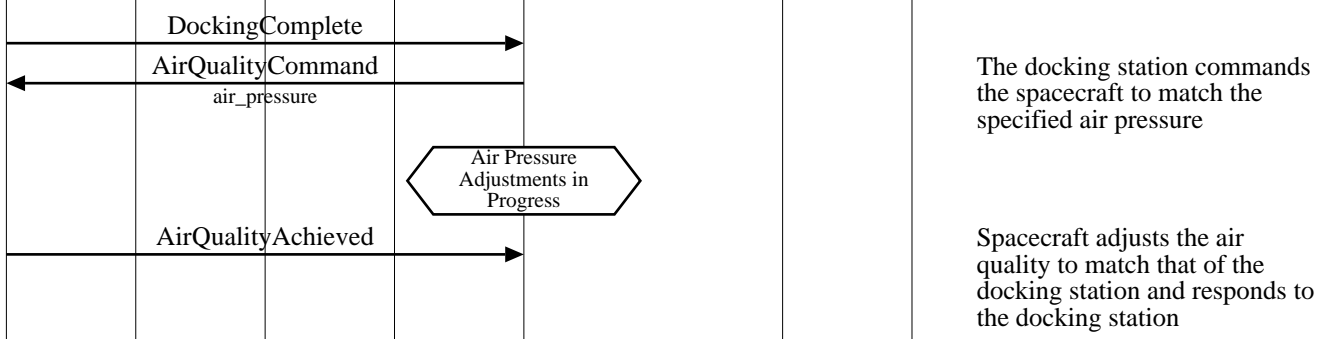
Indicate spacecraft to proceed for docking in the specified docking port number

When the spacecraft is 2000m from the docking station, it contacts the docking station for adjusting position and velocity  
The docking station informs spacecraft about the position and velocity adjustments required with respect to the docking port

Spacecraft performs the position and velocity adjustments and acknowledges the same

The docking station allows actual docking

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

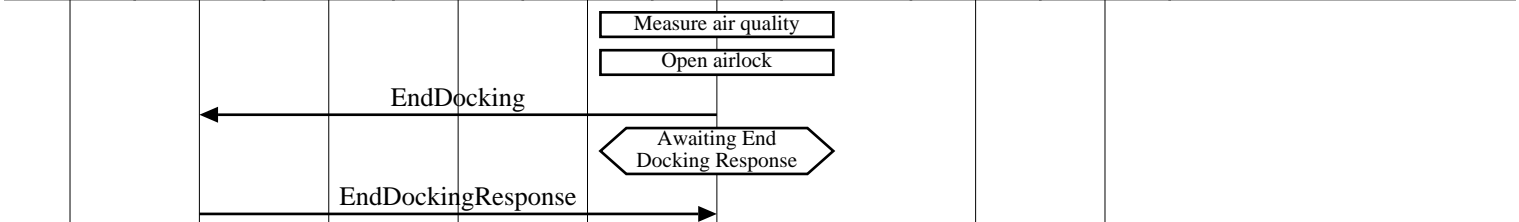


The docking station commands the spacecraft to match the specified air pressure

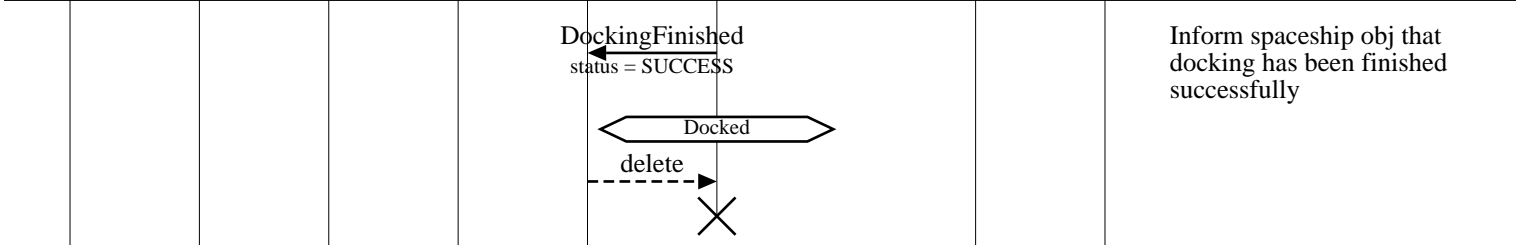
Spacecraft adjusts the air quality to match that of the docking station and responds to the docking station

**Docking 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 2)



Spacecraft docking has been completed



Inform spaceship obj that docking has been finished successfully

Spacecraft wishes to depart from the docking station

Spacecraft reaches the assigned orbit

The docking station schedules next docking or undocking request

Docking 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 3)

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**LEG: No Orbit Resource Available**

**Docking 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 4)	

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**LEG: Orbit Resource is Available**  
**LEG: No Docking Ports Available**