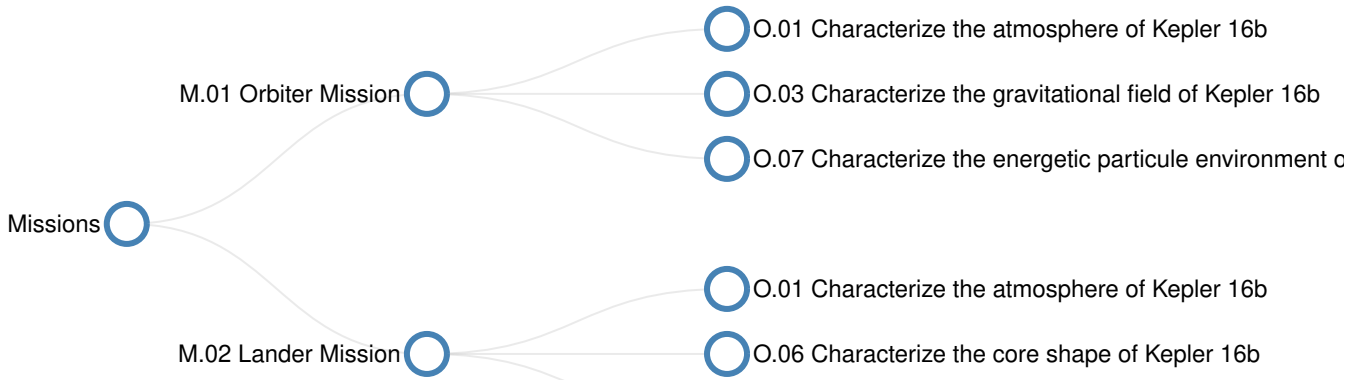
Kepler16b

This is a description of a fanciful space mission called Kepler16b, which is an exoplanet orbiting a binary star system approximately 245 light-years from Earth.

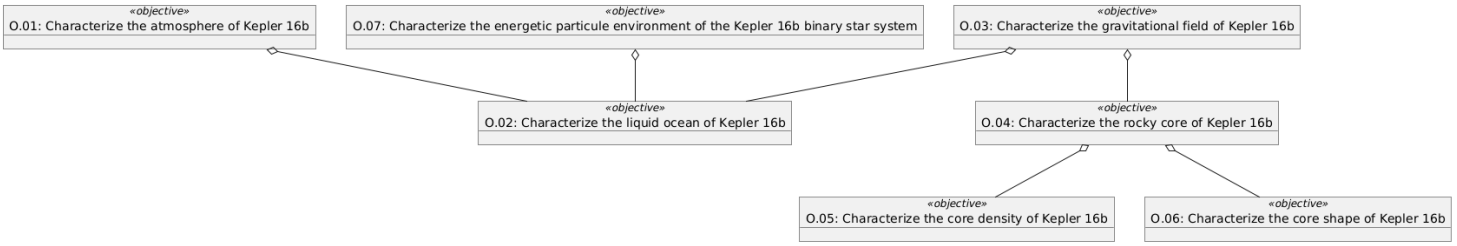
Missions

The Kepler16b project delivers two missions: a Lander Mission and an Orbiter Mission, each of which pursues a number of objectives. For all the details, check the full documentation.



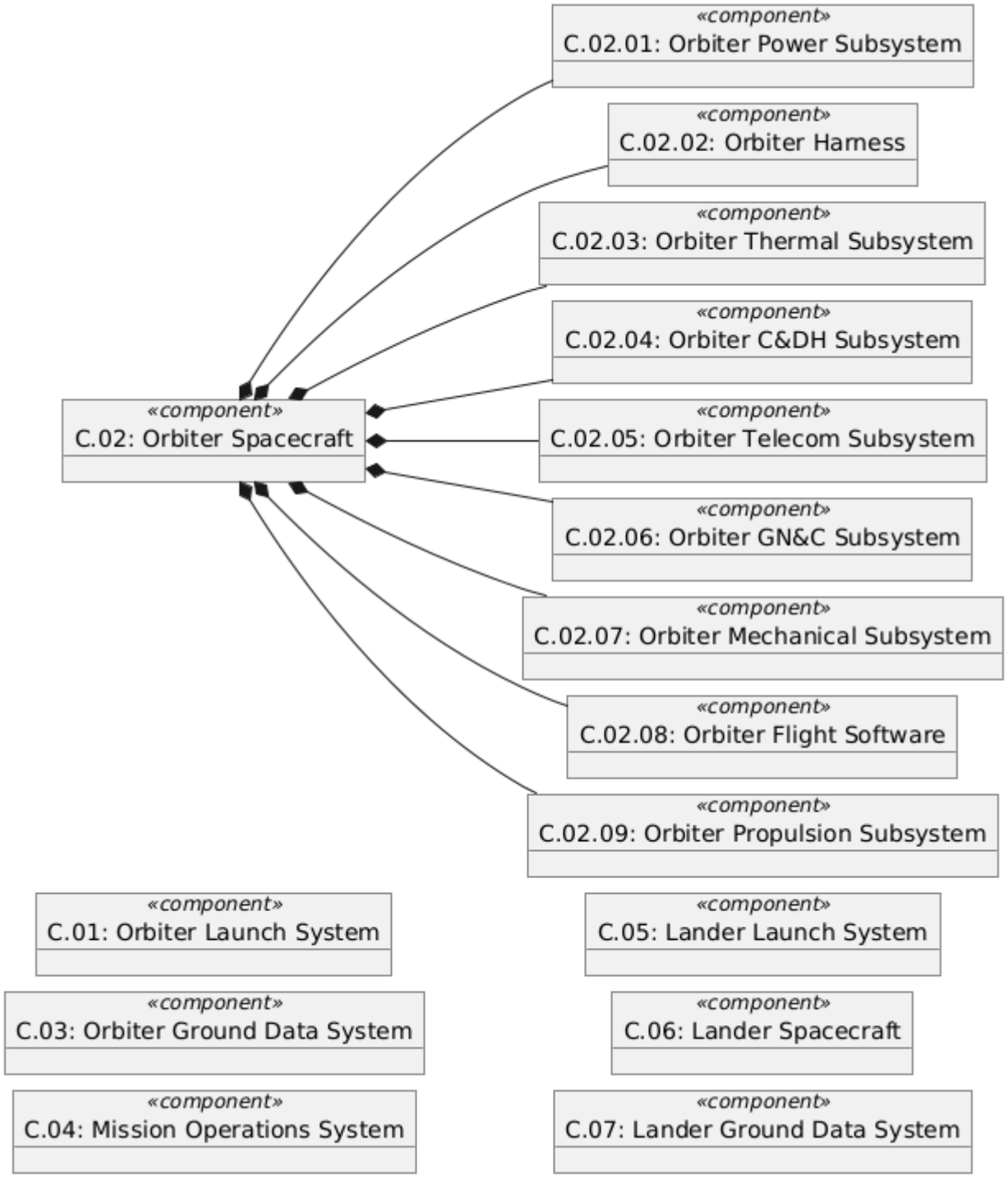
Objectives

The Kepler16b missions' objectives aggregate other lower level objectives as depicted by the following diagram:



Components

The Kelper16 missions' components are organized in a physical decomposition hierarchy as shown below.



Mass Rollup

The Kelper16 missions' components are characterized by their masses. Those masses are rolled up the physical decomposition hierarchy as shown below.

Id	Name	Mass
C.01	Orbiter Launch System	2000.00
C.02	Orbiter Spacecraft	1957.00
C.02.01	Orbiter Power Subsystem	297.00
C.02.02	Orbiter Harness	138.00
C.02.03	Orbiter Thermal Subsystem	307.00
C.02.04	Orbiter C&DH Subsystem	147.00

Id	Name	Mass
C.02.05	Orbiter Telecom Subsystem	316.00
C.02.06	Orbiter GN&C Subsystem	156.00
C.02.07	Orbiter Mechanical Subsystem	325.00
C.02.08	Orbiter Flight Software	165.00
C.02.09	Orbiter Propulsion Subsystem	106.00
C.03	Orbiter Ground Data System	0
C.04	Mission Operations System	0
C.05	Lander Launch System	3500.00
C.06	Lander Spacecraft	1200.00
C.07	Lander Ground Data System	0