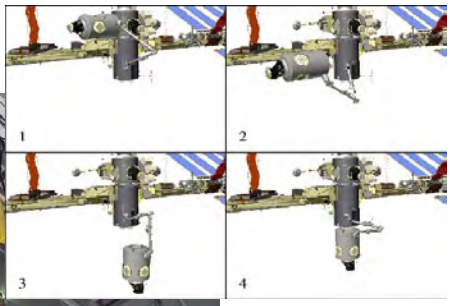
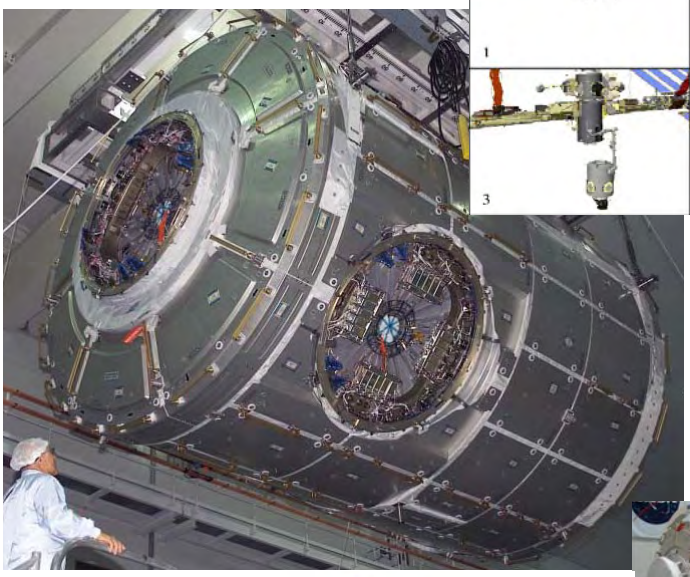
Node 2 (Harmony)

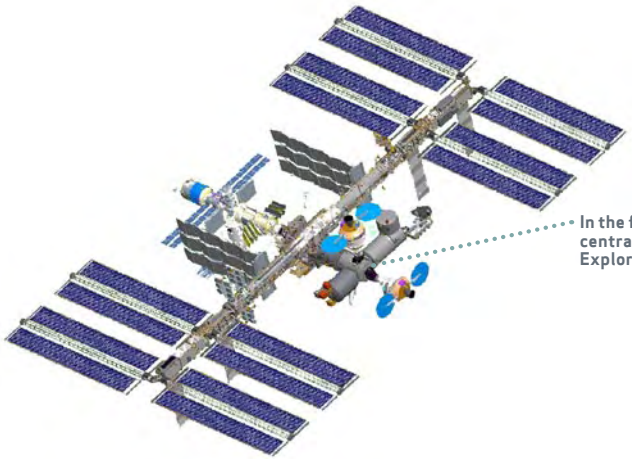
Alcatel Alenia Space

Node 2 is similar in design and lay-out to Node 1, but its structure was designed and built in Italy, derived from the MPLM logistics modules.

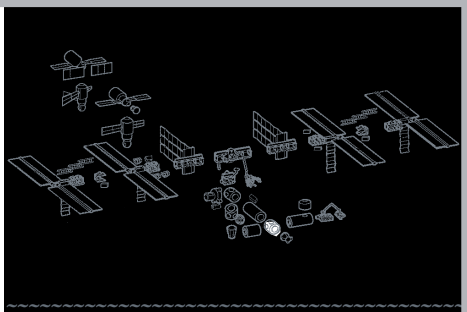


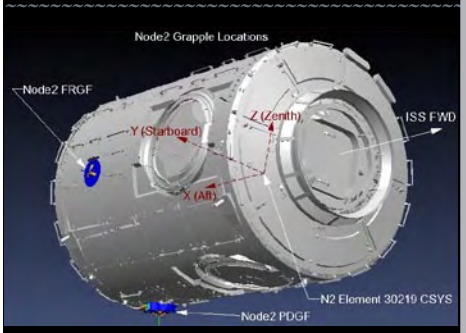


Initially Node 2 will be berthed on the Starboard port of Node 1. The ISS remote manipulator will be used to move Node 2 to the forward port of the US Lab. PMA2 will be berthed to the front port on Node 2.



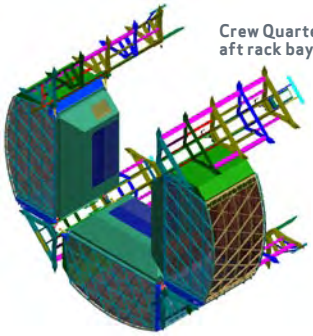
In the future, Node 2 will serve as a central berthing port for the Crew Exploration Vehicle.





Interior views of Node 2 as it was being closed out for launch.

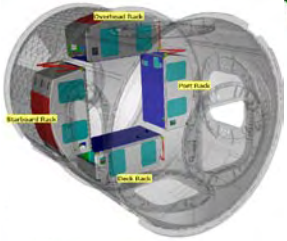
In the future, permanent Crew Quarters will be added to Node 2, permitting expansion of the total ISS crew size to 6. Crew quarters are rack sized containers built as small state-rooms for the off-duty crew. Each will contain lighting, SSC laptop connectivity, power, fans, ventilation, and caution and warning.

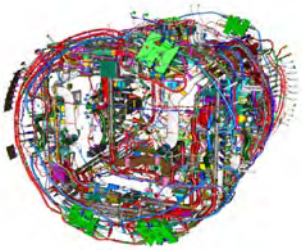


Crew Quarters located in the aft rack bays.

Crew Quarters

Stowage racks will occupy most of the Node 2 rack bays when the Module is first launched.





Mechanical assemblies, Including berthing mechanisms and hatches, cable harnesses for electrical and data systems routing, and fluid lines for thermal control add to the complexity of Node 2