Submersible Data Centre Mountable On A Submersible Platform

Abstract

The present invention describes a submersible data centre (180,180a,180b) configured in a water-tight capsule for deployment in a body of water. The data centre capsule(s) (180,180a,180b) is/are mounted on a submersible platform (110) of an elevator apparatus (100,100a), which is equipped with a support leg (130a) or support legs (130) and winches (132) are located near a top of the support leg or each of the support legs; the data centre capsules (180,180a,180b) can thus be submerged underwater for operation or be winched up above the water for retrieval or maintenance. A first-time deployment of the support leg(s) (130,130a) is provided by leg-lowering winche(s) (112) located on the submersible platform (110). Heat exchangers (190) or chillers (190a) are used, or a centralized chiller (190b) is used, to dissipate heat energy from inside the data centre capsules (180,180a,180b) to the surrounding water. Accompanying methods of operations are also described.

FIG. 1 for publication.