



Data Acquisition and Monitoring System (DAMS)

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Abstract

In order to achieve specific requirements of their research programs under projects INTIMATE and INFANTE, a consortium formed by the Centro de Investigação e Tecnologia do Algarve (CINTAL), the Instituto Hidrográfico (IH) and the Instituto Superior Técnico (IST) have purchased an acoustic tomography and underwater communication system to the company CO.L.Mar. This system is composed of two hydrophone arrays, one surface buoy, one RF link and other electronic and mechanical devices, that can be referred to as distinct categories: the Wet-end system and the Dry-end system depending on their position when deployed. The Data Acquisition & Monitoring System (DAMS) described in this report connects to the Dry-end of Colmar'sTM tomographic system (as shown in figure 1) and provides the following capabilities: i) to read and monitor the data being acquired, ii) to demultiplex and store the data on digital format and iii) to provide absolute time-marking of the data for future use.