



## CASE STUDY

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### About IFM-GEOMAR

IFM-GEOMAR carries out interdisciplinary collaboration in all significant areas of modern marine research, from the geology of the sea floor to maritime meteorology. In January 2004, the merger of the Institute for Marine Sciences at Kiel University (IfM) and the Research Center for Marine Geosciences (GEOMAR) formed IFM-GEOMAR – the Leibniz Institute of Marine Sciences at the University of Kiel.

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## ProxSys Optimizes Video Workflow and Collaboration on Research Trips of the IFM-GEOMAR Institute

### Challenge

The IFM-GEOMAR (Leibniz Institute of Marine Sciences at the University of Kiel) was founded in January 2004 by the merger of the Institute for Marine Research at Kiel University (IfM) and the Research Center for Marine Geosciences (GEOMAR), and carries out interdisciplinary collaboration in all significant areas of modern marine research, from the geology of the sea floor to maritime meteorology.

From late 2007 to early 2008, a team from the institute sailed on the French research vessel “L’Atlante” from Toulon (France) to Recife (Brazil), and then to Dakar (Senegal), to examine hydrothermalism and deep-water ecosystems in the Atlantic.

In order to examine the depths of the Atlantic Ocean, the team used the most modern diving robot in the world - the ROV Kiel 6000 (ROV: Remotely Operated Vehicle). A submarine vehicle remotely controlled from the ship using a fiber optic cable, the robot records video at depths of up to 6,000 meters. Recording, processing, and administration of the footage played a decisive role in the research. Material needed to be viewed on board the research ship, as well as simultaneously evaluated by off-site scientists.

### Solution

The IFM-GEOMAR opted for the ProxSys Media Asset Management solution developed by Focus Enhancements in order to optimize and simplify the everyday work of researchers both on expedition and in the institute. Using the ProxSys system, video data recorded by the ROV Kiel 6000 is archived digitally and tagged with timestamp-dependent keywords, greatly simplifying administration of videos and eliminating the time-consuming and costly process of copying and digitizing analog video recordings for the IFM-GEOMAR staff. The ProxSys software permits simultaneous review of videos by multiple staff members in different locations. Scientists from around the world can access files, collaborate, and share analyses remotely - the web browser interface makes access to data entirely location-independent, and viewing of the videos is quick using low-resolution video clips generated from the original standard and high-definition footage. The ProxSys also allows users to extract still pictures from videos and store them separately for review and evaluation. The HSM function (Hierarchical Storage Management) – an integrated, hierarchical data dual management on hard drive and digital data type – offers staff the optimum data security and nearly unlimited storage capacity. The HSM function ensures low storage requirements on the primary hard drives by moving seldom-needed or very large files onto digital data tapes, while still keeping their administration within ProxSys.



### ProxSys Media Asset Management

ProxSys is a powerful system for the administration and distribution of multimedia data. With ProxSys Media Asset Management solutions, large quantities of digitalized media content can be controlled. High-resolution video material, presentations, video and audio are stored in one place and can be called from anywhere. The modular system permits streaming, broadcasting, and playout, as well as automated archiving on DVD or CD.





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### About Focus Enhancements, Inc.

Innovation, efficiency, and superior quality are the foundation on which Focus Enhancements builds its products. A world leader in advanced video production, media asset management, and digital signage solutions, Focus delivers products that perform superbly day in and day out and backs them with unparalleled service and support.

### Result

The Focus Enhancements ProxSys Media Asset Management Solution saves IFM-GEOMAR significant time and money. "We are happy we found a media asset management system which satisfies all our requirements and still doesn't break our research budget, because we'd like to turn a few more pages with our ROV Kiel 6000 diving robot in the world of marine research here in Germany and around the world," says Dr. Friedrich Abegg, scientific leader of the ROV Kiel 6000 team at IFM-GEOMAR.



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