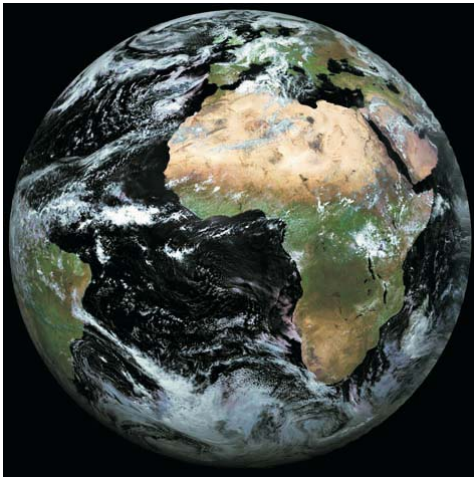
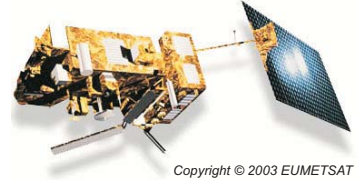


Absolute continuity required in earth station's systems:

SteelEye® LifeKeeper® for Linux® protects EUMETSAT satellite data



Dell and SteelEye's value added distributor, Nordicism Ltd, delivered high availability clustering solution to the Finnish Meteorological Institute. The Linux servers, clustered using SteelEye LifeKeeper, receive and store data from both European and American satellites.



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Europe's Meteorological Satellite Organisation EUMETSAT provides real-time satellite images for the member countries and maintains multiple satellite data programs. The Finnish Meteorological Institute leads the international research program on ozone monitoring, and participates in the climate monitoring program.

EUMETSAT is an inter-governmental organisation created through an international convention agreed by eighteen European Member States. "The Finnish satellite data centre will be part of EUMETSAT system infrastructure. The application in this solution is developed by the Finnish Meteorological Institute and Space System Finland. It generates information about atmospheric chemistry and surface UV radiation for use of the research scientists," stated **Ms. Tarja Riihisaari**, Senior Research Scientist, Finnish Meteorological Institute.

Mr. Markku Hakola, System Analyst with the Meteorological Institute, mentioned that system stability, reliability and continuity were the key criteria when selecting the hardware, operating system and clustering solution. "We chose a Dell hardware solution that was clustered by

SteelEye LifeKeeper for Linux. I was positively surprised when we simulated the fault situation during the evaluation. LifeKeeper restored the system back up and running amazingly quickly," **Mr. Hakola** praised.

The system installation and deployment was quick and easy, mentioned **Mr. Jan Komaro**, Product Manager of Dell. "All system components and sub-components are standard products which makes the overall system easy to administer and highly usable. Accordingly, the functionality and reliability of the satellite data system is top quality," he continued.

Nordicism's Director of Business Development, **Mr. Marko Lehtimäki** said that the continuity of the EUMETSAT earth station's system architecture is considered critical and it must function safely without failures 24x7. "We design the best and most robust clustering solutions for all business critical needs via our expert-level channel partners. This deployment to the Finnish Meteorological Institute with Dell and Space Systems Finland is one of the ultimate examples where true high availability is required - and solved by SteelEye LifeKeeper".





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The Solution Components

Hardware

- 2 x Dell PowerEdge 2650 Servers
- Dell PowerVault 220 Shared SCSI

Running application

- Developed by Finnish Meteorological Institute and Space Systems Finland Ltd

Clustering software

- SteelEye LifeKeeper for Linux v4.4
- SteelEye LifeKeeper Oracle Application Recovery Kit, v4.4

Database

- Oracle 9i



Dell Inc. (NASDAQ: DELL) is a premier provider of products and services required for customers worldwide to build their information-technology and Internet infrastructures. Company revenue for the past year totaled \$41.4 billion. Dell, through its direct business model, designs, manufactures and customizes products and services to customer requirements, and offers an extensive selection of software and peripherals. Information on Dell and its products can be obtained at:

<http://www.dell.com>



Nordicmind Ltd is a value-added distributor of business critical clustering software and solutions. Nordicmind serves customers in close cooperation with major system integrators and hardware vendors across Scandinavia, Baltic countries and CIS countries.

The Nordicmind portfolio covers only the best and proven commercial software and solutions both in High Availability and High Performance clustering.

<http://www.nordicmind.com>



Space Systems Finland Ltd is one of Europe's leading space applications software providers. Since its formation, over ten years ago, Space Systems Finland has been providing high reliability software solutions for many of the Europe's most ambitious space missions. Over the years our business has expanded to cover other markets as well, like telecommunications and navigation.

<http://www.ssf.fi>



SteelEye LifeKeeper, from SteelEye Technology, is a modular, scalable solution for data protection, high availability clustering, and disaster recovery of Linux and Windows Servers. SteelEye LifeKeeper enables IT managers to implement a choice of scalable capabilities, based upon their high availability requirements, systems environment considerations, and budgetary objectives.

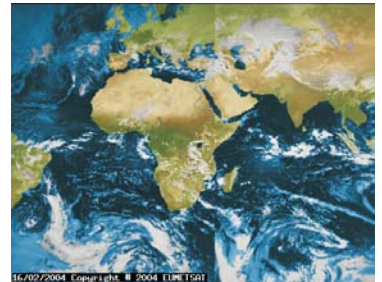
SteelEye LifeKeeper is easy to install, non-intrusive during operation, and does not require application modification.

SteelEye LifeKeeper supports most popular Linux applications out of the box including Oracle, DB2, mySAP, Apache, Sendmail, NFS, SAMBA among others. For all other applications, the software development kit, and script templates available within SteelEye LifeKeeper enable custom recovery capabilities to be easily created.

<http://www.steeleye.com>



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FINNISH METEOROLOGICAL INSTITUTE

Finnish Meteorological Institute hosts EUMETSAT's Satellite Application Facility (SAF) on Ozone Monitoring (O3M SAF). Several meteorological and research institutes from Europe participate to O3M SAF activities. Purpose of the O3M SAF is to produce information on atmospheric chemistry and surface UV radiation based on satellite data. The benefit of satellite remote sensing system in comparison to ground based measurements is global coverage of the data.

<http://www.fmi.fi/en>
<http://www.eumetsat.de>

