Antelope Environmental Monitoring Software is a commercial-off-the-shelf data acquisition, analysis and management software designed to provide a comprehensive set of environmental monitoring data and processed information in real-time. With growing data volumes and aggressive service level expectations, Antelope maximizes the potential of your IT organization while delivering real-time enterprise computing.

Antelope runs under Linux & Mac OS X environment, finely engineered as an all-in-one package through state-of-the-art technology and scientific advances, making it ideal for real-time monitoring of seismic events from local/regional, national and global networks including arrays for monitoring explosions, nuclear tests, and induced events from oil/gas exploration. Antelope takes full advantage of the extensive support services provided by Linux/UNIX environments and standard TCP/IP network utilities over multiple physical interfaces.

Antelope consists of two major sub-systems:

• ARTS, the Antelope Real Time System
• ASIS, the Antelope Seismic Information System

The current generation of Antelope provides full functionality for seismic network and array operations, command and control, including real-time data acquisition from field digitizers, interactive control of field equipment, system state-of-health monitoring (SOH), real-time automated data processing (detection, picking, event association, event location, and archiving). It also offers interactive and batch processing, information system functions, automated distribution of raw data and processed results, batch mode seismic array processing and a powerful development toolkit for extending and customizing the software.

The Antelope Seismic Information System uses the relational database (RDBMS) formalism and the CSS 3.0 schema for information organization. Antelope runs on RHEL and Mac OS X. In addition to providing specific functionality for seismic monitoring systems, Antelope offers a robust and versatile substratum of generic functions that can be used to support other non-seismic monitoring applications.

*Outside of Japan