Beyond a box ...
The Sercel 408UL is a new concept in seismic acquisition, based on fresh ideas and a totally unique design.

**New Ground Equipment**
You are no longer restricted by the design limitations of the traditional acquisition modules. Entirely new ground equipment, together with the new **Link** concept now enables you to create the best solution for your operational and safety needs through the ability to modify the configuration from job to job, whether it's 2-D, 3-D, 3-C or 4-C.

**Redefining Seismic Acquisition Systems**

**New Telemetry**
You are also no longer restricted by the limitations of traditional telemetry. A new approach to combined telemetry, named **Seismic Areal Network**, provides complete flexibility and the best solution for today’s complex operational problems.

**New Software**
In order to support our technological advances in telemetry, completely new software has been developed. This new software, named **Seismic Network Software**, is now distributed throughout the complete seismic array as well as the central unit.

Reliability beyond expectations
You will spend even less time troubleshooting and more time recording. The 408UL offers reliability beyond the high level supplied by the SN388.
The new Sercel Link consists of a set of between 1 and 48 extremely small acquisition units (FDU’s), integrated with a small diameter cable with a connector at each end. In this concept, the cable and the acquisition units are handled together as one unit enabling you to define the characteristics of the system to match your support infrastructure. The Link has been specifically designed to enable you to modify the configuration from job to job, whether it is 2-D, 3-D, 3-C or 4-C. For the first time you have a truly flexible solution which can be adapted to meet all of your operational and safety requirements.

The new Link offers further adaptability through being able to connect sensors directly into the acquisition unit, thereby eliminating takeouts, or the sensor can become a part of the acquisition unit, or the acquisition unit can accommodate a digital accelerometer, the choice is yours.

The ground equipment can also be configured with multiple sensors for three component recording using either internal or external sensors. Significant reductions in size, weight and lower power requirements will not only result in greater portability, but will also reduce operating costs, thereby helping to fund the system purchase.
• Cable and FDU's handled as one unit
• Smallest size and lowest weight of the entire system
• No analog data within the cable
• Variable configuration
• Lowest power ever on any system
• 3-C modules External Sensors
  Integrated Sensors
  Digital Sensors
The total seismic array not only becomes a path for data and commands but supports a communications protocol which allows the 408UL to act very much as a computer network in addition to the standard functions of transmitting data and commands. We call this the **Seismic Areal Network**. Data and commands can now flow through user defined routing, adding a significant new capability called **Multi-Path**, to avoid obstacles or equipment problems such as a broken cable. To further support this new approach, buffering within the network allows data to be re-transmitted until it has been successfully received through either radio or cable sections of the network.

The introduction of a new module, the **REM**, allows the radio transceiver to operate remotely from the recorder and as an integral part of the **Seismic Areal Network**. This allows you to position the transceiver closer to the radio acquisition units avoiding previous problems in difficult transmission conditions.

An additional feature called **CoPilot** enables the 408UL to be connected to a remote workstation anywhere in the world through low or high bandwidth communications means such as cellular phones or satellite communications, thus allowing remote operation, technical support, software downloads and, in the future, data transmission.

Now the domain of the 408UL truly becomes a **Global Domain**.
Link
Transverse cable
Geophones
LAUX
REM
SU6R
LRU
WRU
Recording Truck
- The seismic array becomes a communication network
- Telemetry media may be mixed throughout the network
- Data may be routed within the network to avoid obstacles
- The domain of the network may be extended to remote locations
**New Software**

Specifically designed to maximize the performance potential of the 408UL.

The new software offers efficient single component or multi-component 3-D or 4-D recording and improved Quality Assurance and troubleshooting methods to address the huge volumes of data encountered in large full wave field surveys.

In order to accomplish this, the Sercel 408UL software has been designed to adopt a new distributed architecture. We call this new software **Seismic Network Software**. In this new architecture the software not only exists in the recording node but is also distributed throughout the entire **Seismic Areal Network**. This structure allows the implementation of our new telemetry approach and the resultant flexibility in operation of the Sercel 408UL.

While the capability of the system has been changed we have maintained a consistent philosophy in our software as well as maintaining the Sercel “look and feel”. In this way we can help to minimize the amount of retraining necessary for personnel already familiar with the Sercel SN388.
• Enables the Seismic Areal Network
• Improved troubleshooting
• Supports channel numbering with ground coordinates to handle complicated spread layouts
• Constant, real-time Quality Assurance with SQC-Pro
• Consistent user interface to reduce training.
Throughout our long history we have developed a reputation for the highest reliability in the industry. With the introduction of the 408UL we will increase this reputation for reliability still further for the following reasons:

- Fewer components
- Lower Power – Simple battery management
- Uncomplicated 4-wire cables
- No take-outs
- Fewer Connectors
- Improved Spread Troubleshooting Capability

Reliability beyond expectations ...
Extending our reputation for the highest reliability in the industry
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