

Managing the GSR System in the Field

**The Mobile System Manager
(MSM)**

**Ruggedized Mobile Field Case
Configuration**

Mobile System Manager (MSM)

The “Mobile System Manager” (MSM) serves as a field management facility for the Geospace Seismic Recorder (GSR) system. This purpose-built custom mobile structure encompasses all of the ancillary systems needed to support seamless GSR field deployment and data management. The MSM systems include battery charging modules, the seismic data transfer unit, electrical power generation and computing hardware and software to control quality, collate and manage the final data output.

MSM modules can be housed in highly portable and ruggedized field cases that are easily transported and deployed anywhere.

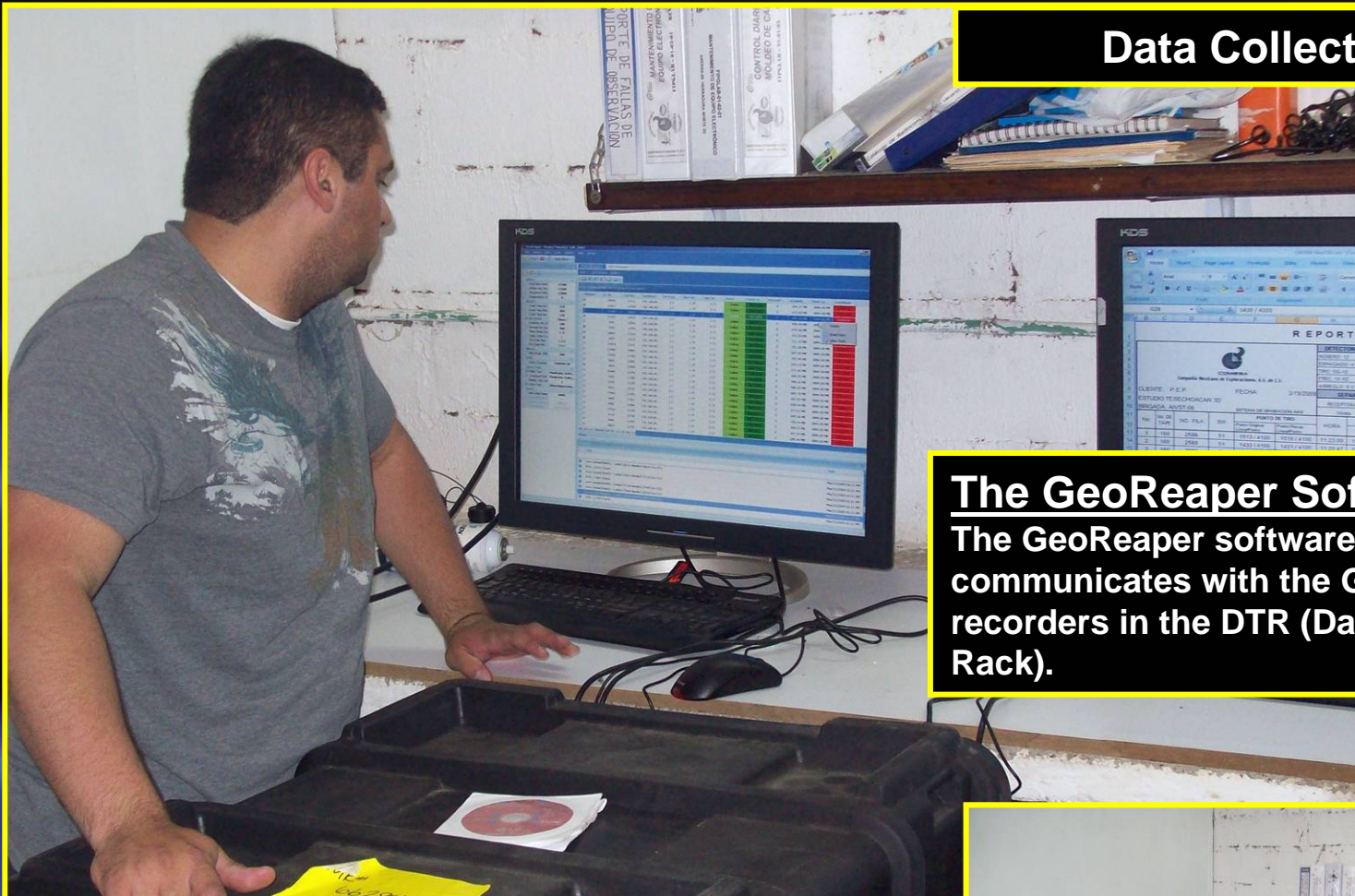
GeoRes-XTC & DTM
Portable Modules

Data Transfer
Module (DTM)

GeoRes-XTC unit



Data Collection



The GeoReaper Software
The GeoReaper software program communicates with the GSR data recorders in the DTR (Data Transfer Rack).

Prior to field deployment, the GeoReaper defines the operation of the GSRs by uploading parameters that include:

- recording scripts
- specification of sample rate
- preamp gain
- recording mode and similar parameters



Data Download Speed

A 2MB per second download speed for 48 connected GSRs (in the DTR) each containing approximately 700MB of data in memory.

48 GSRs containing 9 days of recorded data were simultaneously downloaded in about 4 minutes.

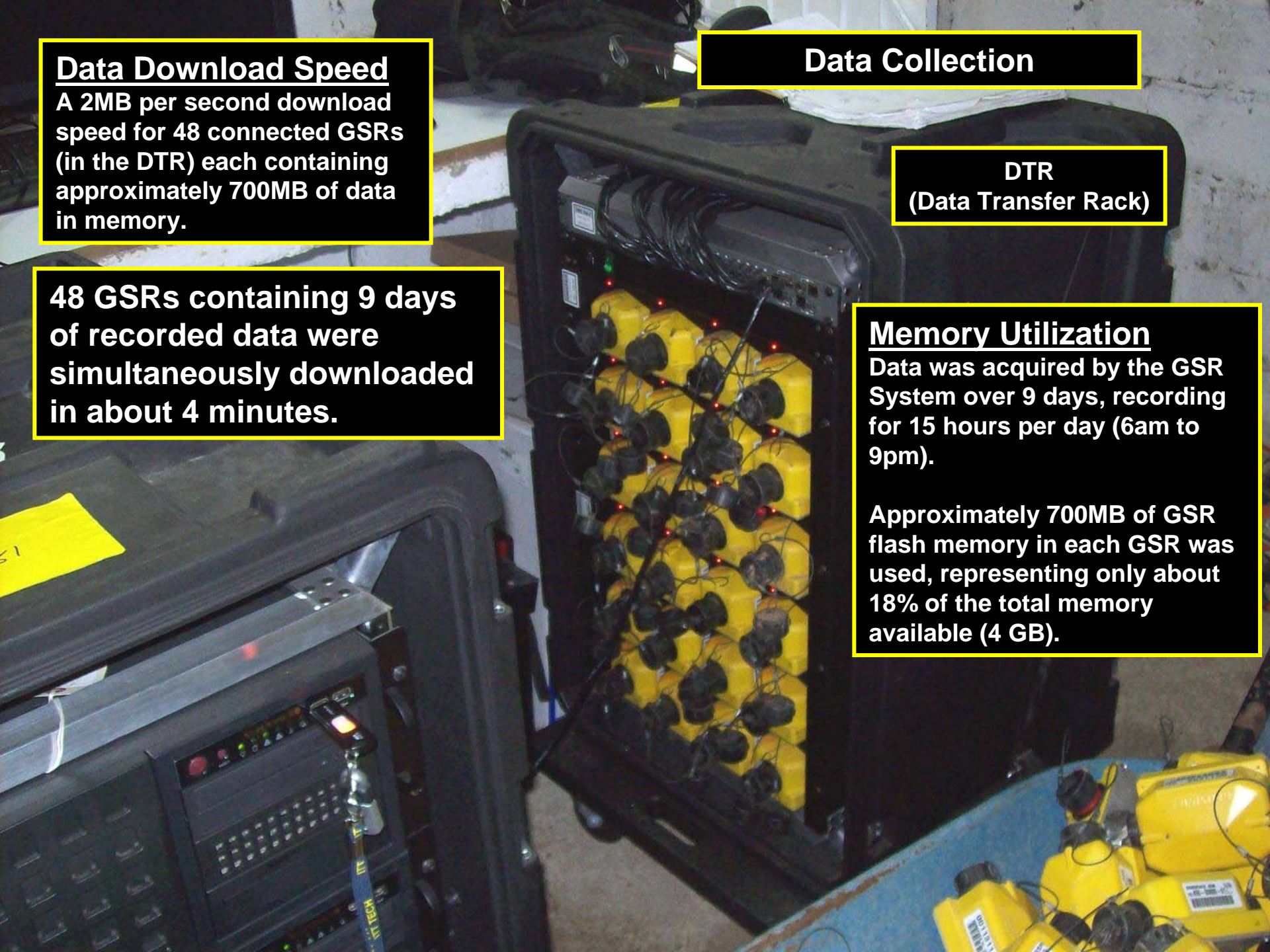
Data Collection

DTR
(Data Transfer Rack)

Memory Utilization

Data was acquired by the GSR System over 9 days, recording for 15 hours per day (6am to 9pm).

Approximately 700MB of GSR flash memory in each GSR was used, representing only about 18% of the total memory available (4 GB).



For More Information

CONTACT:

[*gshields@oyogeospace.com*](mailto:gshields@oyogeospace.com)

Tel: 713.986.4444

Fax: 713.986.8723

7007 Pinemont

Houston, Texas 77040 U.S.A.

[*www.oyogeospace.com/gsr*](http://www.oyogeospace.com/gsr)

View video of the GSR System in action in the field go to:

[*http://www.oyogeospace.com/gsr/video.htm*](http://www.oyogeospace.com/gsr/video.htm)

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