



Data Share Feature	2
Data Sharing Use Cases	3
Data Share In 3 Easy Steps	4
Define the network	5
Setting up the client computer - Example	6
Enabling Data Sharing in the Receiver	7
Transfer data in real time	8
Using Real Time Data in EMpower	10
Technical Support Contact	11

Version: 250310 ID: DAA37

Data Share Feature

On top of the features already known for the MTU-5C family, the new receiver models with Data Share, offer real-time data monitoring in the field while recording.

In contrast with the Remote Data Upload network feature, also present in all models of the MTU-5C family, The Data Share network feature doesn't require an internet connection or the setup of a server or modem. This feature enables users to extract recording segments directly to a computer, allowing the user to evaluate an ongoing recording at the field without interrupting it.



The Data Share feature available for the new MTU-5C is a network function. Keep in mind that only one network function can be enabled at a time *(i.e. Data Share, Network Upload, Live Monitoring).*

Data Sharing Use Cases

Gather and analyze data in areas without internet coverage, enabling effective decision-making and timely responses

Ensure the quality of recorded data without having to stop the ongoing recording

3

Check if enough data have been collected to reach the lowest frequencies required



Data Share In 3 Easy Steps



Define the network

To establish communication between the Receiver and the external computer (Client), a network must be configured.

Assign an IP address to the Receiver, an IP address to the computer, and set a netmask, ensuring that all are within the same subnet

We recommend consulting an IT professional, but as an *easy-setup*, we can suggest the following network parameters

- Receiver IP: 192.168.1.100
- Computer IP: 192.168.1.101
- Netmask: 255.255.255.0



192.168.1.101

Setting up the client computer - Example

The instructions in this page will change depending on the operating system. To give an *easy-setup* example, in this manual, we provide instructions using <u>Windows 11</u> and simple configuration values. Adjust these instructions and settings according to the OS and recommendations from IT.

Note that the values provided in the text to the right are for the *easy-setup* example. You may change those values with the help of an IT expert.

Note that after you finish, it may be necessary to return the ethernet interface to DHCP mode to reconnect to local or office network.

Windows 11 instructions:

- 1. Click *Start*, then type *settings*. Select *Settings* > *Network & internet*.
- 2. Select *Ethernet*, then select the Ethernet device that will use for connecting
- 3. Next to IP assignment, select Edit
- **4.** Under Edit network IP settings or Edit IP settings, select *Manual*, then turn on IPv4
- 5. Type the following (example setup)
 5.1. IP address: 192.168.1.101
 5.2. Subnet mask: 255.255.255.0
 5.3. Gateway: <Empty>
- 6. Save the configuration

Enabling Data Sharing in the Receiver

While creating the configuration file for the receiver (for more details consult the Quick Start Guide for your Receiver), take the following additional steps to enable the *Data Share* function:

- 1. In **EMpower** / Prepare / Configuration Creator, select the **NET** channel
- 2. In the Network Settings section
 - 2.1. Select Data Share mode, then type:
 - IP Address: 192.168.1.100
 - Network mask: 255.255.255.0
 - o Default Gateway: 192.168.1.101
 - **2.2.** Define a **SFTP Password** (*The computer will need it to access the data in the SD card*)



The values shown here only apply for the *Data Share easy-setup* example, consult your IT team if you need to change these values.

Transfer data in real time

Insert the SD card into the MTU/RXU, and start recording (see the <u>Quick Start Guide</u> if needed).

- 1. Connect the laptop to the receiver using the Ethernet cable
- 2. In the computer open a third party SFTP client
 - Configure the connection between the SFTP client and the receiver using the IP Address and SFTP Password defined in the configuration file created for the receiver
 - The user name and port to be used in the SFTP client are fixed to the following values default

Username: datashare Port: 22

 Once connected the SFTP client will show the contents of the SD card in read-only mode.



Transfer data in real time

- **3.** In FileZilla, to transfer a recording to the computer:
 - **3.1.**Expand the **sdcard** folder from the **Remote Site** view, then expand the **recdata** folder
 - **3.2.**Right click on the recording of interest (either the ongoing recording or a previous recording)
 - 3.3.Click Download

Note that the data of an ongoing recording can take up to 10 minutes to show up in the card after recording start, depending on the decimation rate selected

Edit View Transfer Server Bookmarks Help 🗱 🖸 🖹 🕄 📜 🗐 🗮 🍳 🦚 192,168,1,100 Username: datashare Password: mvS3cr3t Port: 22 Host: Quickconnect Retrieving directory listing of "/sdcard/log"... Status: Listing directory /sdcard/log Status: Status: Directory listing of "/sdcard/log" successful Local site: C:\Users\ Remote site: /sdcard/recdata/10711_2024-08-23-160214 **H**---Default B-1/ Remote site: /sdcard/recdata/10711 2024-08-23-160214 Filename (3.1)sdcard • cache FOUND.000 emp_log *.aimp-2.8 log recdata 12 files and 58 directori 10711 2024-08-23-(3.3) Download Server/Local file Queued files Failed Filename Add to queue Create directory Create directory and enter it < 7 files and 3 directories. Total size: 177. Delete Rename Size Priority Status Copy URL(s) to clipboard File Attributes...

For transferring data via an SFTP client other than FileZilla, follow the corresponding instruction manual or consult your IT department.

Using Real Time Data in EMpower

- 1. Use EMpower Manage module to process the recording
 - To copy the data to a project, either select Import Recording(Ctrl+I) from the File menu or simply drag and drop the recording from the File Explorer into the Timeline or Map
- 2. The recording will appear in the Map and Timeline
 - A colour gradient will be displayed to identify an ongoing recording
 - The Recording Information section will display "Ongoing" at the end of the "Stop time" field
- 3. To update the data
 - $\circ\,$ Repeat steps from pages 8-10 as needed
 - When a recording that already exists in EMpower is imported into the project with newer data, the view in EMpower will be updated, keeping any metadata (i.e. dipole length, notes, etc) as defined last by the user



Technical Support Contact



Please check out the <u>FAQs</u> <u>https://phoenixgeophysics.freshdesk.com/</u> **Or email us at:** support@phoenix-geophysics.com