

Establishing automatic data transfer from REFCON to GMS

REFCON Technical Information for the IT responsible

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Introduction

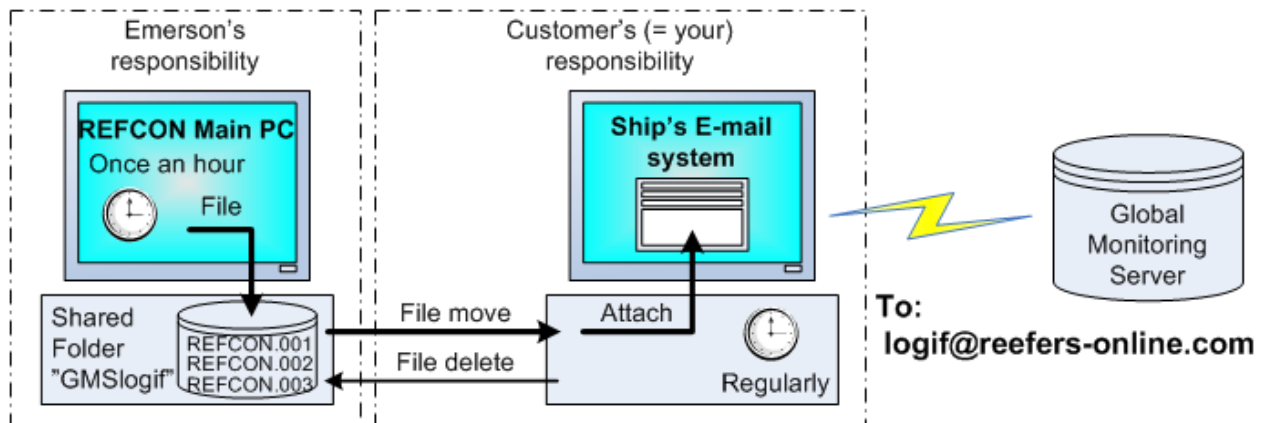
This note intends to help you, the IT responsible, to implement the required connection from REFCON to the **Global Monitoring Server (GMS)**.

The GMS is an internet based database that regularly receives data from most REFCON systems worldwide about the connected reefer containers. You may visit www.EmersonClimate.com/TransportationSolutions for further information.

The owner of your REFCON has decided that also this REFCON system must transfer data to the GMS. We suppose that it is your job to make this work.

Principle sketch

The involved elements and responsibilities can be sketched as follows:



REFCON Main PC facts

You would need to know the following data about REFCON. Note that table shows the *standard* settings; please check the REFCON Main PC in your specific case.

Computer name:	pc01refcon
IP address:	192.168.0.22 as standard. Can be changed if required by customer. REFCON support static IP addresses only.
Shared file folder:	C:\GMSLOGIF shared as GMSLOGIF
User (login):	Refcon, no password

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Establishing automatic data transfer from REFCON to GMS, Continued

E-mail regularity Please make sure E-mails with attached REFCON files are sent to logif@reefers-online.com regularly as follows:

- Preferred frequency: 4 – 6 E-mails per 24 hours.
- Minimum frequency: 1 E-mail per 24 hours.

Note: More files may be attached to one E-mail.

Customer's responsibility It is your job to set up the Ship's E-mail system to run the described schedule automatically. Some E-mail programs do include functionality for this.

Regularly, at the frequency you decide, the E-mail system should:

1. Move all files from the shared folder "GMSlogif".
2. Make sure the files that have been moved are deleted from "GMSlogif".
3. Attach the files to one or more E-mails; however, make sure each file is only attached and sent once.
4. Send the E-mails to logif@reefers-online.com.

REFCON's file naming The REFCON Server PC generates a packed "GMS file" every hour. The "GMS files" are created in the folder "C:\GMSLogIf" on the REFCON Server harddisk. The files are named "REFCON.001", "REFCON.002" up to "REFCON.999". Each time the folder is emptied, numbering restarts from "REFCON.001".

When your E-mail system works as described, there will normally never be more than 24 files in the folder.

If the files are for some reason not removed, the limit of 999 files will be reached in almost 6 weeks. REFCON then overwrites the oldest file, typically "REFCON.001" as the first. So, if the oldest file has not been transmitted, the data are lost.

Should for some reason a number of files (but not all) be removed, REFCON will attempt to use free numbers, meaning that numbering might no longer match the chronological order.

Probably you will not have to think about these special cases – simply send all the files found in the "GMSlogif" folder, and remove each file when sent.

Other information

- The files in "GMSlogif" have been packed (zip'ed) by REFCON. DO NEVER make any further packing or other changes to the files.
- Always send the REFCON files at least once a day, for the data in the Global Monitoring Server to be reasonably up-to-date and thereby useful.
- Please note: Setting up the E-mail system as described is **not** a part of Emerson Transportation Solutions' delivery.
