# ecaccess-ectrans-request

## NAME

ecaccess-ectrans-request - Request a new ECtrans transfer

## SYNOPSIS

**ecaccess-ectrans-request -version|-help|-manual**

**ecaccess-ectrans-request [-debug] [-gateway** name**] [-target** file-name**] [-retryCount** number**] [-retryFrequency** frequency**] [-priority** priority**] [-lifeTime** duration**] [-mailTo** email**] [-onSuccess] [-onFailure] [-onRetry] [-deleteSource] [-keep] [-reject|-append|-resume|-overwrite] [-maximumDuration** duration**] [-minimumDuration** duration**] [-minimumRate** rate**]** association-name**[** @protocol**]** source

## DESCRIPTION

Allow Member State users to initiate file transfers between ECMWF and Member State servers. The ECaccess Server will spool the ECMWF file specified by the *source* parameter in the user's ECtrans transfer queue: if the connection between the ECMWF and Member State gateways is down or if any error occurs, the file will be kept in the spool area at ECMWF and you can resume the transfer through the web interface or with the **ecaccess-ectrans-restart** command. If required the transfer can be retried automatically (see the **-retryCount** and **-retryFrequency** options to tailor the retry mechanism).

The **-reject**, **-append**, **-resume** and **-overwrite** options are mutually exclusive and determine what to do if there is an existing target file. The **-mailTo** option specifies an *email* address to be notified in case of a successful (option **-onSuccess**) and/or a failed transfer (option **-onFailure**).

When a request has been spooled successfully, an *ectrans-id* is returned immediately. The *ectrans-id* can be used to reference the transfer, using the web interface or with the **ecaccess-ectrans-delete**, **ecaccess-ectrans-list** or **ecaccess-ectrans-restart** commands.

## ARGUMENTS

*association-name***[** *@protocol***]**

The ECtrans Association with optionaly the name of the protocol to use.

*source*

Name of the file at ECMWF to spool in ECtrans.

## OPTIONS

**-gateway** *name*

This is the *name* of the ECaccess Gateway where the ECtrans Association *association-name* is defined. It is by default the Gateway you are connected to. In order to get the name of your current Gateway you can use the **ecaccess-gateway-name** command. When using the commands at ECMWF the default Gateway is always "ecaccess.ecmwf.int".

**-target** *file-name*

Defines the target *file-name* (default: same as *source*).

**-retryCount** *number*

Defines the *number* of retries (default: 144).

**-retryFrequency** *frequency*

Defines the *frequency* of retries in seconds (default: 600 seconds).

**-priority** *priority*

Defines the transmission *priority* 0-99 (default: 99).

**-lifeTime** *duration*

Defines the lifetime of the request (default: 7 days). The *duration* is specified in [w]eeks, [d]ays, [h]ours, [m]inutes or [s]econds (e.g. *1w* or *2d*).

**-mailTo** *email*

Defines the target *email* address (default: <user-id>@ecmwf.int).

**-onSuccess**

Allow sending a mail when the transfer is successful.

**-onFailure**

Allow sending a mail when the transfer has failed.

**-onRetry**

Allow sending a mail when the transfer is retried.

**-deleteSource**

Allow deleting the original *source* file once it is safe in the spool.

**-keep**

Allow keeping the request in the spool until the duration specified in the **-lifeTime** option has passed. By default a successful transfer is removed from the spool.

**-reject**

Allow failing if there is an existing target file (default).

**-append**

Allow appending if there is an existing target file.

**-resume**

Allow resuming if there is an existing target file.

**-overwrite**

Allow overwriting if there is an existing target file.

**-maximumDuration** *duration*

Define the maximum transfer *duration*. The *duration* is specified in [w]eeks, [d]ays, [h]ours, [m]inutes or [s]econds (e.g. *10m* or *1h*). A value <=0 will deactivate the feature (default: 12h).

**-minimumDuration** *duration*

Allow setting the *duration* before to control a transmission (e.g. for the first 10 minutes ECtrans don't try to check the transfer rate, which allow not to enforce some minimum transfer rates for very small files). The *duration* is specified in [w]eeks, [d]ays, [h]ours, [m]inutes or [s]econds (e.g. *30s* or *10m*). A value <=0 will deactivate the feature (default: 10m).

**-minimumRate** *rate*

Allow setting a minimum transfer *rate* for a transmission (expressed in bytes/s). This is an average value, not the transmission *rate* at one particular moment in time (e.g. if a big file is stuck for 5 minutes but then transmit much faster later on then it will not be interrupted as long as the overall transfer rate is above the minimum). A value <=0 will deactivate the feature (default: 10240).

**-version**

Display version number and exits.

**-help**

Print a brief help message and exits.

**-manual**

Prints the manual page and exits.

**-retry** *count*

Number of SSL connection retries per 5s to ECMWF. This parameter only apply to the initial SSL connection initiated by the command to the ECMWF server. It does not apply to all the subsequent requests made afteward as it is mainly targeting errors that can happen from time to time during the SSL handshake. Default is no retry.

**-debug**

Display the SOAP and SSL messages exchanged.

# EXAMPLES

**ecaccess-ectrans-request -lifeTime** *2d* **-overwrite -onFailure -onRetry** *test@genericFtp ec:test.txt*

Request a file transfer of the *ec:test.txt* file to the default gateway with the association *test* and the protocol *genericFtp*. If the target file already exists then the original file is deleted. If the transfer is retried or fail then an email is sent to the default email address (<user-id>@ecmwf.int). After 2 days the file is removed from the spool (whatever the status of the transmission is).

**ecaccess-ectrans-request -minimumDuration** *10m* **-maximumDuration** *35m* **-minimumRate** *8192 test@genericFtp ec:test.txt*

After 10 minutes ECtrans will start to control the transfer rate. If after 35 minutes the file is still not transmitted or if at a certain point in time the average transmission rate is less than 8Kbytes/s then the transmission will be cancelled. If cancelled, the transmission will be retried 144 times (with a 10 minutes interval).

# SEE ALSO

**ecaccess-ectrans-delete**, **ecaccess-ectrans-list**, **ecaccess-ectrans-restart** and **ecaccess**.