

ecaccess-etrans-request

NAME

ecaccess-etrans-request - Request a new ETrans transfer

SYNOPSIS

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

ecaccess-etrans-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 ETrans 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-etrans-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 *etrans-id* is returned immediately. The *etrans-id* can be used to reference the transfer, using the web interface or with the **ecaccess-etrans-delete**, **ecaccess-etrans-list** or **ecaccess-etrans-restart** commands.

ARGUMENTS

association-name[@*protocol*]

The ETrans Association with optionally the name of the protocol to use.

source

Name of the file at ECMWF to spool in ETrans.

OPTIONS

-gateway *name*

This is the *name* of the ECaccess Gateway where the ETrans 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 afterward 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**.