# Gateway

December 17, 2020

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ENEA Gateway Documentation: [1] Read this first!

OpenAFS Home: [2] Everything you want to know about AFS.

Gateway User's Guide: [3] Older gateway documentation.

# 1 Access Forms for the ITM Gateway

## 1.1 How to get an account on the ITM Gateway

As a new contributor to the ITM-TF or a new user on the ITM-TF Gateway [4] you are requested to sign the ITM-TF Gateway User Agreement (doc) [5](pdf) [6]. This is required to get an account on the Gateway the ITM-TF development home.

Please fill in the requested information and send the signed document to

Att: ITM-TF/Gloria Falchetto
Association EURATOM-CEA
DSM/IRFM/SCCP, bt. 513/141
CEA-Cadarache
13108 Saint Paul-Lez-Durance Cedex
France

Or fax to:

+33 442 25 6233

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[1] http://www.efda-itm.eu/docs/documentation.php

[2] http://www.openafs.org

[3] https://www.efda-itm.eu/ITM/imports/isip/public/isip_ITM_gateway_users_guide_v3-1.pdf

[4] https://www.efda-itm.eu/ITM/html/itm_glossary.html#g_gateway

[5] https://www.efda-itm.eu/ITM/imports/itm/public/gateway/GatewayUserAgreement_ITM.doc

[6] https://www.efda-itm.eu/ITM/imports/itm/public/gateway/GatewayUserAgreement_ITM.pdf

Or send as an e-mail attachment to (Subject: Gateway User Agreement):

gloria.falchetto@cea.fr

New Gateway User Greeting (doc) [7] (pdf) [8]

## 1.2 ITM policy on Access Rights and Software Licencing

The ITM has defined a model licence for all physics codes and numerical tools (including the ITM infrastructure) that have been contributed/developed within the framework of the ITM Workprogramme. This model licence [9] was approved by the EFDA Steering Committee on October 2009.

# 2 Using SSH

You can login to the Gateway [10] directly with SSH:

```
ssh -X <user>@gateway.efda-itm.eu
```

-X is required if you want to run X applications over the connection.

# 3 Using SFTP

Use SFTP to transfer files to/from the Gateway:

```
sftp <user>@gateway.efda-itm.eu
```

If sftp fails with 'Connection closed', or you get an error message like 'Received message too long (or "Bad packet length") 1416586337', your shell startup script (eg ~/.cshrc, ~/.bashrc) on the Gateway system is writing to standard output and confusing it. This is a known problem with sftp. Note that .login is evidently not run when and sftp session is started; standard output from that does not upset it. The solution is to disable the output or wrap the offending script in a conditional statement so it is only executed if the shell is interactive. For example, with cshrc:

```
if ($?prompt) then
   <original contents>
endif
```

For more see faq1 [11] and faq2 [12]. Thanks to Francesco Iannone for this information.

# 4 Using NX

NX from NoMachine [13] allows you to run a remote X11 login session on the Gateway from your local machine. To use it you must first download an NX client from NoMachine and install it locally. The default installation location for the NX executable is /usr/NX/bin/nxclient. When you run NX for the first time, after logging in with your assigned user name and password, and providing a session name, a configuration dialogue appears. Set the following values:

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[7]https://www.efda-itm.eu/ITM/imports/itm/public/gateway/GUA_invite.doc
[8]https://www.efda-itm.eu/ITM/imports/itm/public/gateway/GUA_invite.pdf
[9]https://www.efda-itm.eu/ITM/imports/itm/public/gateway/Model_licence_for_the_ITM.pdf
[10]https://www.efda-itm.eu/ITM/html/itm_glossary.html#g_gateway
[11]http://www.tfn.net/~bsbaker/support/helplink/html/supp/supp-connect-use-sftp.html
[12]http://www.snailbook.com/faq/sftp-corruption.auto.html
[13]http://www.nomachine.com

```
Host:    gateway.efda-itm.eu
Port:    22
Key:     default
Network: WAN
Desktop: Unix, KDE
Display: Available area
```

Do not disable encryption in the Advanced tab.

When this is done, the Gateway window manager should appear each time you run NX with the session name you provided.

# 5   Disk Quota

Users' home directories are in the Andrew File System. To check your disk quota do

```
fs listquota
```

Note that Kepler [14] ITM workflow core dumps can be ¿1.6GB in size!!

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[14]https://www.efda-itm.eu/ITM/html/itm_glossary.html#g_kepler