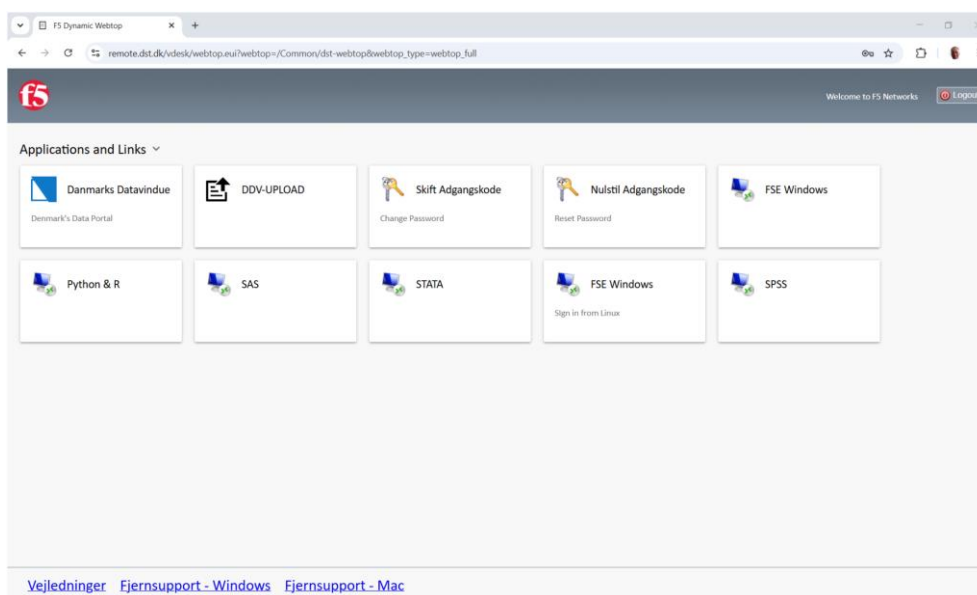


Working in the shared environment

As a user, you can either be logged on to Statistics Denmark's shared environment (“Forskermaskinen”) or to a hosted server. This guide describes the setup you encounter when you are logged on to DST's shared environment.

Frontend server From remote.dst.dk, you can either log on to a specific application server, such as SAS or STATA, or to the frontend server (FSE Windows).

You cannot work directly with data on the frontend server. It only provides access to the application servers, where analysis software is installed.



You can use SAS, STATA, SPSS, R and PYTHON on our servers. See the complete list “Hardware og software på Danmarks Statistiks forskermaskiner” (in Danish) at:

<https://www.dst.dk/da/TilSalg/data-til-forskning/analyseplatform/forskermaskinen>

The SAS, STATA and Python/R servers use Microsoft's “Remote Desktop Connection Broker” technology.

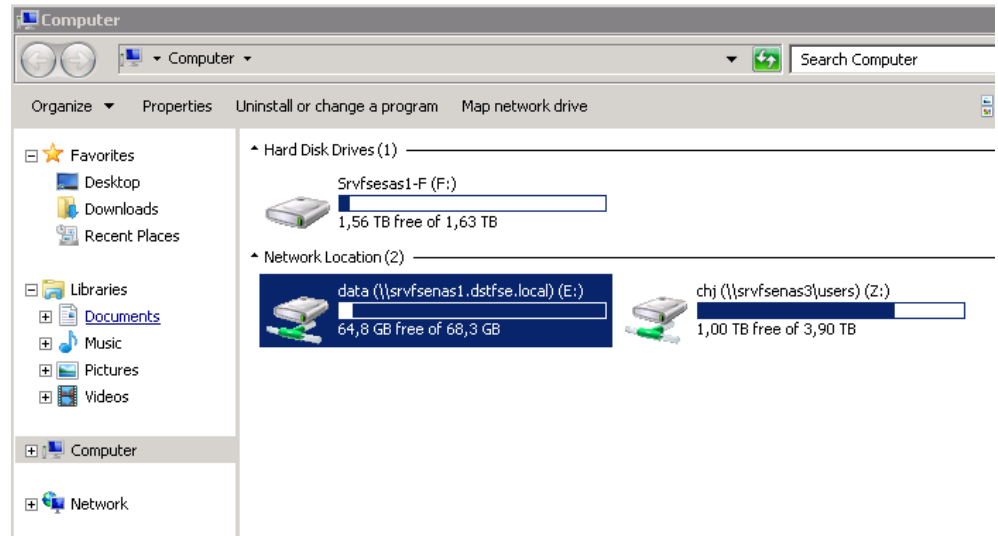
In other words, there is only one icon for each of “SAS”, “STATA” and “Python & R”, and it connects you to the least heavily loaded server.

You will always be connected to the same server if you already have a disconnected session (you clicked the X instead of logging off).

If you have logged off a server, you will instead be connected to the least heavily loaded server.

Data areas

- Access to the same files Our servers use a shared file server. This means that all data is available from every server.
- E drive Data is stored on the E drive. This is a shared disk area that includes, among other things, the Rawdata, Workdata and Formater folders.



Data is organised by project number.
A project number consists of 6 digits and begins with 7.

Rawdata

- Data delivery This is where Denmark's Data Portal places data for the relevant project.
E:\Rawdata\<project number>

Data will normally be stored in three subfolders, depending on type.

-  Eksterne data
-  Grunddata
-  Population

The data is read-only and can only be modified by Denmark's Data Portal. This allows us to distinguish delivered datasets from any files created later in the analysis process.

Workdata

- Workspace Workdata is the project's workspace.
E:\Workdata\<project number>

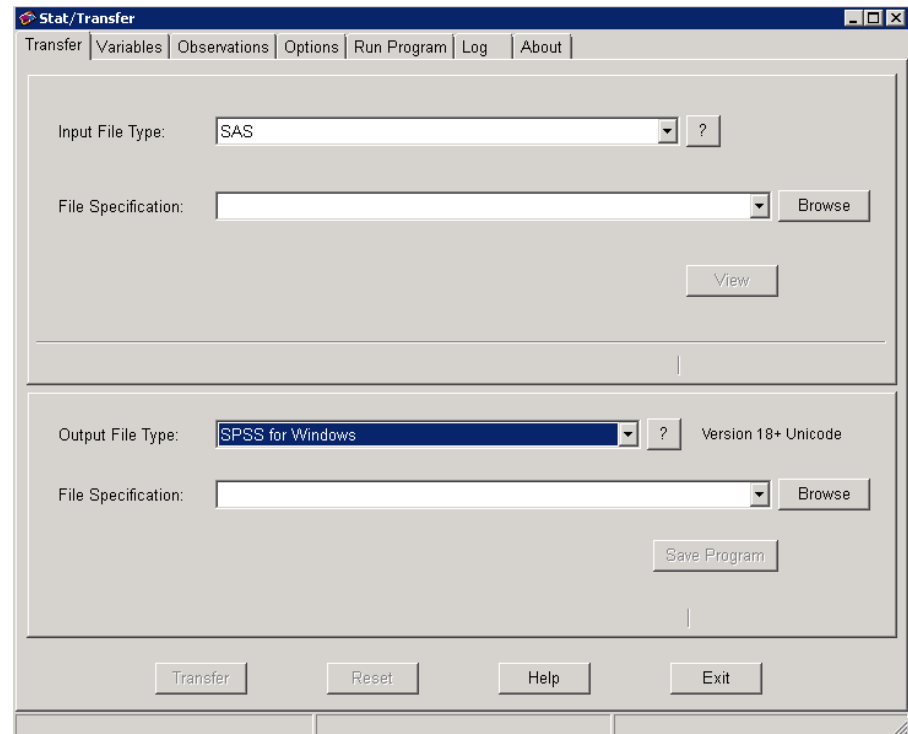
All users associated with the project can read and write data here. Programs, derived data and final results must all be stored here.

For each project, you define the structure of folders and data in Workdata.

Data conversion

Data can be converted from one type to another and written to Workdata. Some analysis software can perform this conversion, for example from SAS to SPSS.

Stat Transfer can also be used to convert most data types.



Stat Transfer Command Processor can be used to convert several files at the same time – in this example, all SAS files in the folder are converted to STATA files:

```
StatTransfer Command Processor
Stat/Transfer - Command Processor (c) 1986-2024 Circle Systems, Inc.
www.stattransfer.com
Version 17.0.1805.0717 - 64 Bit Windows (10.0.17763)

Serial:
User:
License Type: 200 User Workgroup / Lease
Status: License OK - Expires March 31, 2027

Please type "help" for the online help system, or
"help help" for a brief syntax and format guide.

ST: cd e:\rawdata\706540
Directory changed to: e:\rawdata\706540
ST: copy *.sas7bdat *.dta_
```

Formats

Formats Research Services provides a range of formats and code-to-text tables to all users.

Click the “DST-Formater” shortcut on the desktop to access an overview of Statistics Denmark’s formats.



Transferring final results

Final analysis results can be transferred to your own computer.

See the guide at:

<https://www.dst.dk/en/TilSalg/data-til-forskning/regler-og-datasikkerhed/regler-for-hjemtagelse-af-analyseresultater>

Data backup

- | | |
|------------------|---|
| Backup | A full backup of all servers is created and retained for up to 5 years. |
| Shared disk area | The shared disk area (E drive) uses snapshots, which are created daily. |
| Restore | More information about quickly restoring files is available in the guide "Vejledning til hurtig genskabelse af filer" (in Danish) here: |

<https://www.dst.dk/da/TilSalg/data-til-forskning/analyseplatform/forskerma-skinen>

The hosted servers use tape backups. Contact ServiceDesk@dst.dk if you need anything restored.

Hosted servers

The general setup on hosted servers is essentially the same as in the shared environment. There may be exceptions not covered by this guide. Read more at:

<https://www.dst.dk/en/TilSalg/data-til-forskning/analyseplatform/hosted-server>

Server restart

All servers are restarted early on Monday mornings. As a result, all users are automatically logged off once a week. If you have a program that needs to run for a long time, start it at the beginning of the week so that it has time to finish.

Managing RAM usage on servers

On the application servers in the shared environment, you will automatically be logged off if your RAM (memory) usage exceeds 250 Gb. If a server has less than 10 % free RAM overall, the user with the highest usage will be logged off, even if that usage is below 250 GB.

It is therefore very important that you **save your code before running your analyses**, because your work is not saved if you are automatically logged off due to high RAM usage.

For tips on reducing your RAM usage, see the guide "Reduction of RAM" at:

<https://www.dst.dk/en/TilSalg/data-til-forskning/analyseplatform/forskerma-skinen>