

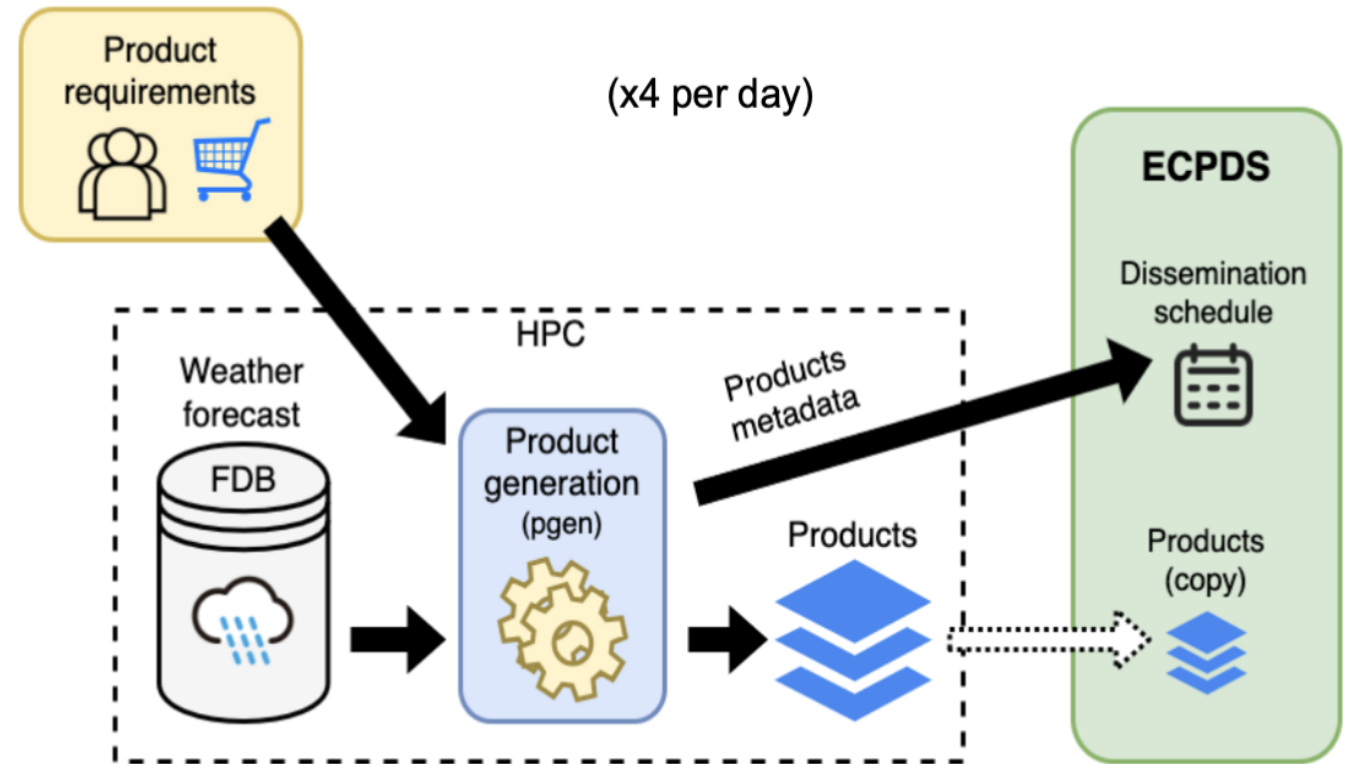
ECPDS — ECMWF Production Data Store

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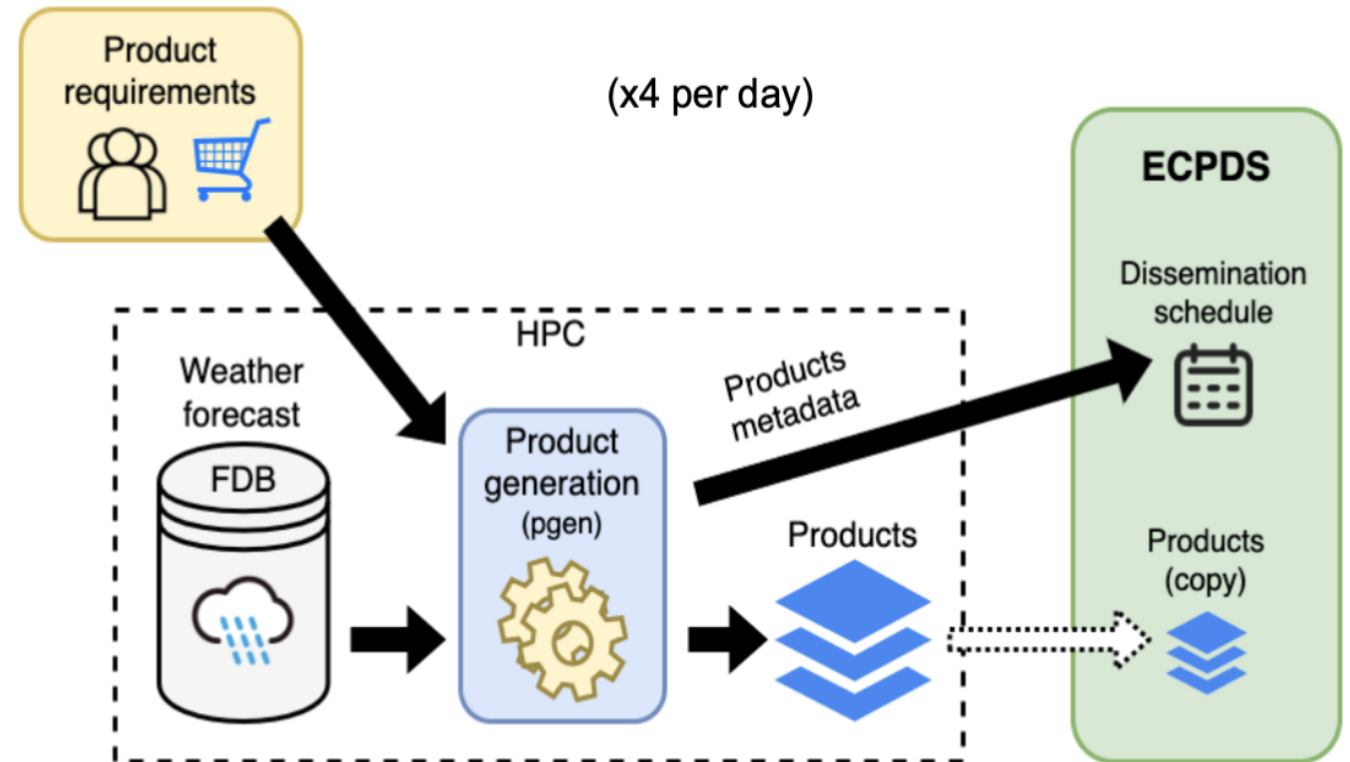
Introduction to ECPDS

- ECPDS serves as a **persistent data repository** for distributing meteorological products. It enables **data distribution** to Member States and other organisations.
- **Destinations** manage transfer requests and define how data files are delivered.
- Destinations implement a **scheduler** to manage file priorities, parallel transmissions, and retry mechanisms.
- Each destination is assigned **primary and backup transfer hosts** for reliable data transmission.
- Transfers are executed based on a **host definition**, including network settings, transfer protocol, target directory, and credentials.



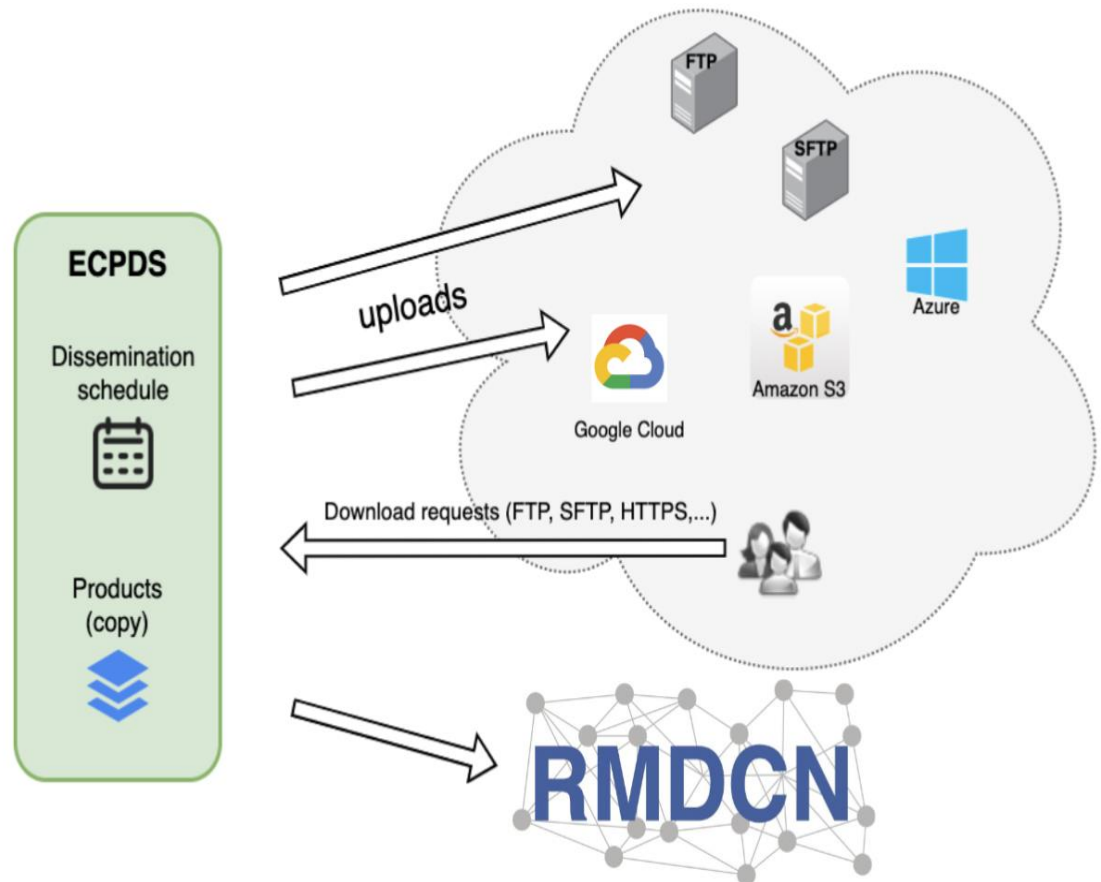
Introduction to ECPDS

- Access limited to specific user groups:
 - Member & Co-operating States
 - Silver or Gold Service Package agreement holders
 - Silver and Gold package organisations can have up to 2 and 4 users, respectively.
 - Satellite data providers



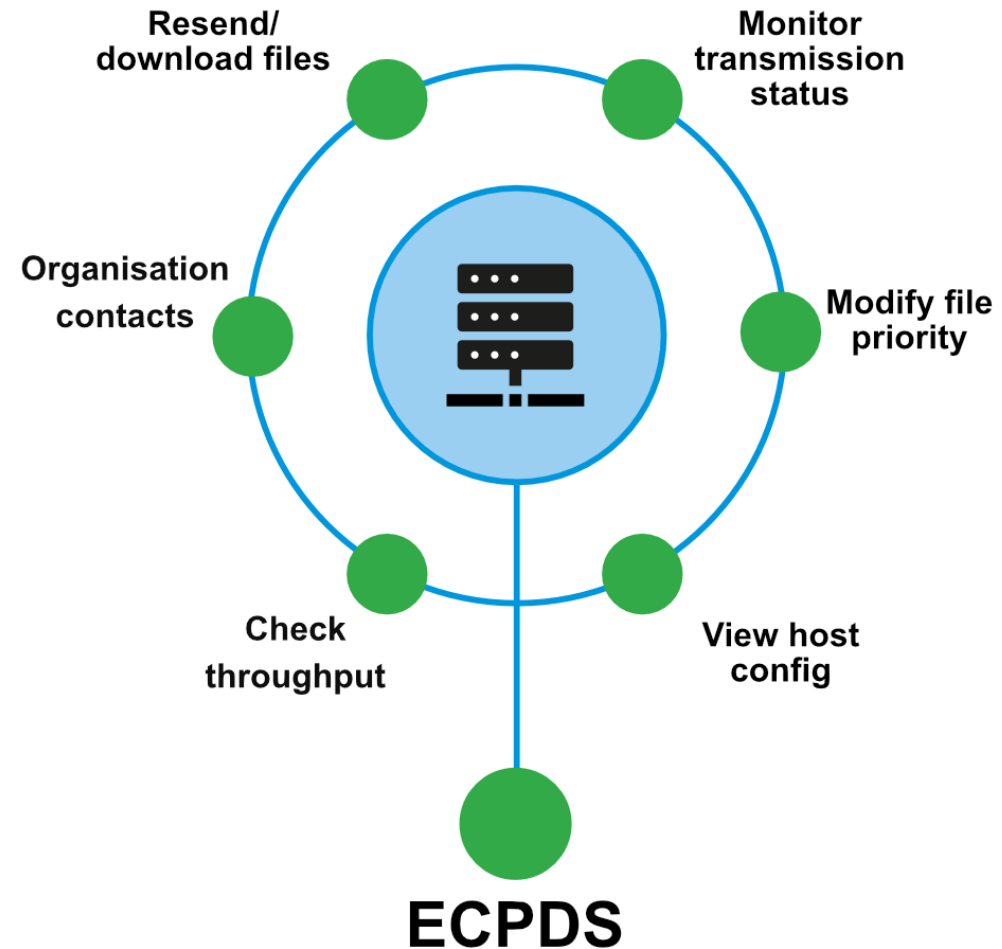
Product dissemination

- ECPDS currently supports the following transfer methods and technologies through Internet:
 - FTP, SFTP
 - Native S3 AWS
 - Native Google Cloud Storage
 - Google Cloud Storage using S3 API
 - Any storage using S3 API
 - Native MS Azure
 - HTTPS (for manual downloads from ECPDS website or FTP PULL systems for member states)
 - HTTPS access should not be used for operations.
- ECPDS also supports transfer through RMDCN (Regional Meteorological Data Communication Network) protocol only for Member & Co-operating states.



Key functionalities for privileged users

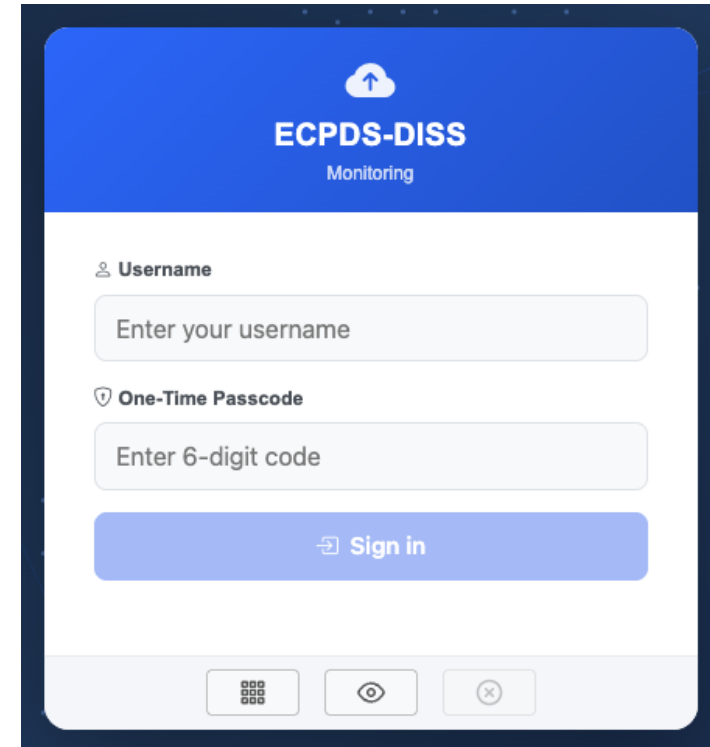
- Re-send or download files
- Monitor file transmission status or progress
- Modify priority of generated files
- View host configuration
- Check network throughput
- Access your organisation's contact list



ECMWF Production Data Store

Access and login procedures

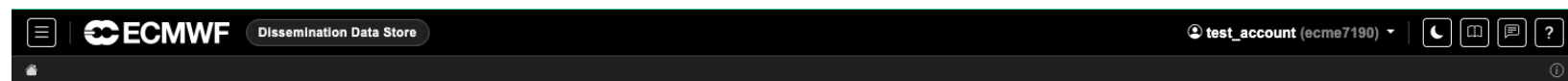
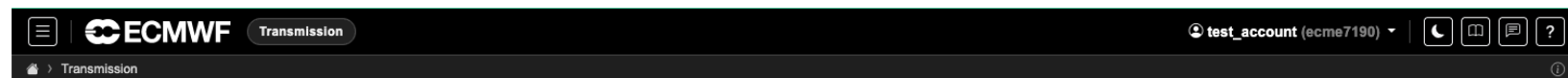
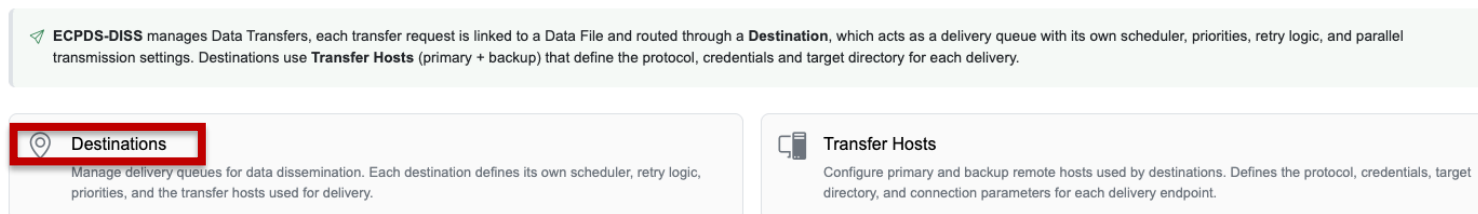
- After getting access to ECPDS, you should receive an email from the service desk with user details.
- Login to ECPDS is only possible with TOTP (Time-based one-time password) (first TOTP device in the login page), configure it here: [TOTP: How to Use](#)
- Login to ECPDS using your username and TOTP:
<https://diss-monitor.ecmwf.int/do/start>
- If you have purchased a Gold or Silver package agreement, access to ECPDS may not be granted immediately. In this case, please submit a ticket on our [support platform](#).



The screenshot shows the login interface for ECPDS-DISS Monitoring. At the top, there is a blue header with a cloud icon and the text "ECPDS-DISS Monitoring". Below the header, the login form is divided into two sections: "Username" and "One-Time Passcode". The "Username" section has a label "Username" and a text input field with the placeholder "Enter your username". The "One-Time Passcode" section has a label "One-Time Passcode" and a text input field with the placeholder "Enter 6-digit code". Below these fields is a blue "Sign in" button with a right-pointing arrow icon. At the bottom of the form, there are three icons: a QR code icon, an eye icon, and a close icon.

Navigating the ECPDS interface

- <https://diss-monitor.ecmwf.int/do/start>



Navigating the ECPDS interface

- <https://diss-monitor.ecmwf.int/do/start>
- <https://diss-monitor.ecmwf.int/do/transfer/destination/NVO>



Destinations

test_account (ecme7190)



Transmission > Destinations

2 destination(s) found

Auto

Destination	Name	Status	Aliases	Category	Compression	Enabled	Acquisition	Monitor
 NV2 Project other  Null & Void Ltd.	NV2	Idle-ecme7190	none	Project other	None		—	—
 NVO Project other  Null & Void Ltd. - contact ecm7550 incase	NVO	Waiting-ecm7550	none	Project other	None		—	—

Showing 1-2 of 2

Navigating the ECPDS interface

NV2 Project other Idle-ecms7190
← 🏠 ⚙️ 👤 📊 🕒 🗂️ ⌛ 🗑️ 🔍 ↻ ⌂

Null & Void Ltd.
👤 dataserv

⬅️ ⚡ 🔄 🔴
↺ Off 1m 5m 10m

LAST TRANSFER 07:34
LAST ERROR None
STARTED None
FILTER None
PARALLEL 10
MONITORED No
🕒 UTC

DISSEM. STREAM All (256) A1 (50) E1 (61) ML (145)
DATA STREAM All (256) 00-AIFS-OPER (61) 00-GENFO (49) 00-GOPER (146)
BASE TIME All (256) 00 (256)
STATUS All (256) Done (111) StandBy (145)
PROD. DATE All Thu_15 Wed_14 Tue_13 Mon_12 Sun_11 Sat_10 Fri_09

☰ 25 ▾

Filter ⓘ

🔄 2026-10-15 07:44:34 UTC
Files: 256 🧺 Basket: 0
Custom ▾ | A / N / R ⓘ

Err	Host	Sched. Time	Start Time	Finish Time	Target	TS	%	Mbits/s	Status	P	Actions	☆
✓	NVO-Internet-Host2	2026-10-15 07:34:00	2026-10-15 07:34:00	2026-10-15 07:34:00	nv2_e1_aifs-single_ai_oper_fc_20261015T00000Z_20261030T000000Z_360h	360	100	30.770	Done	20	↓ ↺ ↻ ↑ ↓ ☆	☆
✓	-	2026-10-15 07:34:00	-	-	nv2_ml_ifs-ens-cf_od_oper_fc_20261015T00000Z_20261030T000000Z_360h	360	0	-	StandBy	20	↓ ↺ 🔴 ↻ ↑ ↓ ☆	☆
✓	NVO-Internet-Host2	2026-10-15 07:32:00	2026-10-15 07:32:00	2026-10-15 07:32:00	nv2_e1_aifs-single_ai_oper_fc_20261015T00000Z_20261029T180000Z_354h	354	100	76.800	Done	20	↓ ↺ ↻ ↑ ↓ ☆	☆
✓	-	2026-10-15 07:32:00	-	-	nv2_ml_ifs-ens-cf_od_oper_fc_20261015T00000Z_20261029T180000Z_354h	354	0	-	StandBy	20	↓ ↺ 🔴 ↻ ↑ ↓ ☆	☆
✓	NVO-Internet-Host2	2026-10-15 07:30:00	2026-10-15 07:30:01	2026-10-15 07:30:02	nv2_e1_aifs-single_ai_oper_fc_20261015T00000Z_20261029T120000Z_348h	348	100	34.090	Done	20	↓ ↺ ↻ ↑ ↓ ☆	☆
✓	-	2026-10-15 07:12:00	-	-	nv2_ml_ifs-ens-cf_od_oper_fc_20261015T00000Z_20261027T060000Z_294h	294	0	-	StandBy	20	↓ ↺ 🔴 ↻ ↑ ↓ ☆	☆
✓	NVO-Internet-Host2	2026-10-15 07:10:00	2026-10-15 07:10:01	2026-10-15 07:10:02	nv2_e1_aifs-single_ai_oper_fc_20261015T00000Z_20261027T000000Z_288h	288	100	60.440	Done	20	↓ ↺ ↻ ↑ ↓ ☆	☆

Showing 1 to 25 of 256 entries

« < 1 2 3 4 5 ... 11 > »

Dissemination Host(s) ⓘ

Name	Priority	Actions
NVO-Internet-Host2 (136.156.134.60) ⚠️	1	🔴 ↻ 🔵
🔴 NVO-Internet-Host1 (136.156.134.60)	2	🔄 ↻ 🔵

[← All Destinations](#)

Powered by OpenECPDS ⓘ v8.2.0 (1010202)

- Requeue files
- File status:
 - **Done:** File successfully transferred.
 - **Transferring:** File is in the process of transferring.
 - **StandBy:** File is ready to be sent.
 - **Planned/Queued:** File is ready and will be sent.
 - **Requeued:** File has been manually or automatically requeued to be sent again.

- Queue files
- Download to your local machine

NVO 🇩🇪 Project other Waiting 🔔

Null & Void Ltd. - contact ecm7550 incase
 👤 dataserv

⏲️ ⚡ ⏸️ ⏹️

⌂ Off 1m 5m 10m

LAST TRANSFER 08:00 | LAST ERROR None | STARTED None | FILTER None | PARALLEL 3 | MONITORED ☾ No UTC

DISSEM. STREAM Ali (1254) A1 (355) A3 (123) H1 (288) MT (8) O1 (61) T0 (4) T1 (4) T2 (4) T3 (11) T4 (11) T5 (3) T6 (4) T7 (4) T8 (4) T9 (4) TO (348) X1 (4) X8 (6)

XX-ECMWF-READING (4) Z1 (4)

DATA STREAM Ali (1254) 00-AIFS-ENFO (208) 00-AIFS-OPER (77) 00-AIFS-WAEF (124) 00-AIFS-WAVE (61) 00-GENFO (238) 00-GOPER (373) 00-GWAEF (87) 00-GWAVE (86)

BASE TIME Ali (1254) 00 (1254)

STATUS Ali (1254) Done (12) StandBy (1242)

PROD. DATE All Wed_14 Tue_13 Mon_12 Sun_11 Sat_10 Fri_09 Thu_08

☰ 25 ▾ 🔍 e.g. expired=no target=*.dat source=/tmp/* ts>10 ts<=99 size>=700kb case=i Filter ⓘ

🔄 2026-10-14 08:23:45 UTC | Files: 1,254 | 🛒 Basket: 0 Auto A / N / R ⓘ

Err	Host	Sched. Time	Start Time	Finish Time	Target	TS	%	Mbits/s	Status	P	Actions	☆
✓	-	2026-10-14 09:00:00	-	-	nvo_a1_ifs-ens-cf_od_oper_gwt_20261014T00000Z_20261015T060000Z_30h	30	0	-	StandBy	20	↓ ↺ ⬅️ ➡️ ⬆️ ⬇️ ☆	
✓	-	2026-10-14 09:00:00	-	-	nvo_a1_ifs-ens-cf_od_oper_gbf_20261014T00000Z_20261015T060000Z_30h	30	0	-	StandBy	20	↓ ↺ ⬅️ ➡️ ⬆️ ⬇️ ☆	
✓	-	2026-10-14 09:00:00	-	-	nvo_a1_ifs-ens-cf_od_oper_gwt_20261014T00000Z_20261015T120000Z_36h	36	0	-	StandBy	20	↓ ↺ ⬅️ ➡️ ⬆️ ⬇️ ☆	

- Requeue files
- Download to your local machine
- Get more information about the transfer + file

NV2 **Project other** **Idle-acme7190**

Null & Void Ltd.

dataserv

⏮ ⚡ 📺 🔴

🔄 Off 1m 5m 10m

LAST TRANSFER 07:34 | LAST ERROR None | STARTED None | FILTER None | PARALLEL 10 | MONITORED No UTC

DISSEM. STREAM All (173) A1 (51) E1 (122)

DATA STREAM All (173) 12-AIFS-OPER (61) 18-AIFS-OPER (61) 12-GENFO (49) 12-GOPER (1) 18-GOPER (1)

BASE TIME All (173) 12 (111) 18 (62)

STATUS All (173) Done (173)

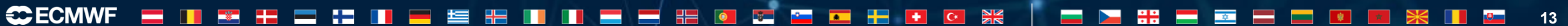
PROD. DATE All Thu_15 Wed_14 Tue_13 Mon_12 Sun_11 Sat_10 Fri_09

≡ 25 🔍 e.g. expired=no target=*.dat source=/tmp/* ts>10 ts<=99 size>=700kb case=i Filter ⓘ

🔄 2026-10-15 07:51:02 UTC | Files: 173 | 🛒 Basket: 0 Custom ▾ A / N / R ⓘ

Err	Host	Sched. Time	Start Time	Finish Time	Target	TS	%	Mbits/s	Status	P	Actions	☆
✓	NVO-Internet-Host2	2026-10-15 00:27:00	2026-10-15 00:27:01	2026-10-15 00:27:02	nv2_e1_aifs-single_ai_oper_fc_20261014T180000Z_20261015T000000Z_6h	6	100	34.130	Done	20	⬇️ ↻ ⬆️ ⬇️	☆
✓	NVO-Internet-Host2	2026-10-15 00:27:00	2026-10-15 00:27:01	2026-10-15 00:27:02	nv2_e1_aifs-single_ai_oper_fc_20261014T180000Z_20261016T060000Z_36h	36	100	13.040	Done	20	⬇️ ↻ ⬆️ ⬇️	☆
✓	NVO-Internet-Host2	2026-10-15 00:27:00	2026-10-15 00:27:02	2026-10-15 00:27:03	nv2_e1_aifs-single_ai_oper_fc_20261014T180000Z_20261015T120000Z_18h	18	100	36.370	Done	20	⬇️ ↻ ⬆️ ⬇️	☆

Get more information about the transfer + file



Managing transfers

- Requeue files
- Download to your local machine
- Get more information about the transfer + file
- Batch file operations

LAST TRANSFER

14:00

LAST ERROR

None

STARTED

None

FILTER

None

PARALLEL

3

MONITORED

No

UTC

DISSEM. STREAM

All (94)

X6 (94)

DATA STREAM

All (94)

00-GEEFO (94)

BASE TIME

All (94)

00 (94)

STATUS

All (94)

Done (94)

PROD. DATE

All

Wed_14

Tue_13

Mon_12

Sun_11

Sat_10

Fri_09

Thu_08

≡

25

▼

🔍

e.g. expired=no target=*.dat source=/tmp/* ts>10 ts<=99 size>=700kb case=i

Filter

?

🔄

2026-10-14 14:52:02

UTC

Files:

94

🛒

Basket: 2

Custom

▼

A / N / R

?

Err	Host	Sched. Time	Start Time	Finish Time	Target	TS	%	Mbits/s	Status	P	Actions	☆
✓	NVO-Internet-Host2	2026-10-13 20:00:47	2026-10-13 20:01:21	2026-10-13 20:01:22	nvo_x6_ifs-subs_od_eefo_pf_20261013T000000Z_20261128_d47	47	100	1034.180	Done	90	⬇️⬅️⬆️⬇️	★
✓	NVO-Internet-Host2	2026-10-13 20:00:47	2026-10-13 20:01:21	2026-10-13 20:01:22	nvo_x6_ifs-subs_od_eefo_cf_20261013T000000Z_20261128_d47	47	100	24.130	Done	90	⬇️⬅️⬆️⬇️	★
✓	NVO-Internet-Host2	2026-10-13 20:00:46	2026-10-13 20:01:19	2026-10-13 20:01:19	nvo_x6_ifs-subs_od_eefo_cf_20261013T000000Z_20261127_d46	46	100	144.790	Done	90	⬇️⬅️⬆️⬇️	☆
✓	NVO-Internet-Host2	2026-10-13 20:00:46	2026-10-13 20:01:20	2026-10-13 20:01:20	nvo_x6_ifs-subs_od_eefo_pf_20261013T000000Z_20261127_d46	46	100	1128.200	Done	90	⬇️⬅️⬆️⬇️	☆

Err	Host	Sched. Time	Start Time	Finish Time	Target	TS	%	Mbits/s	Status	P	Actions	★
✓	NVO-Internet-Host2	2026-10-13 20:00:46	2026-10-13 20:01:19	2026-10-13 20:01:19	nvo_x6_ifs-subs_od_eefo_cf_20261013T00000Z_20261127_d46	46	100	144.790	Done	90	⬇️↻⬆️⬆️⬆️	★🚫
✓	NVO-Internet-Host2	2026-10-13 20:00:47	2026-10-13 20:01:21	2026-10-13 20:01:22	nvo_x6_ifs-subs_od_eefo_cf_20261013T00000Z_20261128_d47	47	100	24.130	Done	90	⬇️↻⬆️⬆️⬆️	★🚫
✓	NVO-Internet-Host2	2026-10-13 20:00:47	2026-10-13 20:01:21	2026-10-13 20:01:22	nvo_x6_ifs-subs_od_eefo_pf_20261013T00000Z_20261128_d47	47	100	1034.180	Done	90	⬇️↻⬆️⬆️⬆️	★🚫

Showing 1 to 3 of 3 entries

⌵ All - None ↩ Invert
 ↻ Requeue
 🛑 Stop
 ↑ Priority ↓
 ✓ Set
 ⌚ Extend
 ✨ Clean
 ← Back ⓘ

- Requeue files
- Download to your local machine
- Get more information about the transfer + file
- Batch file operations
- Filter/Search for products
 - Default search is by target. Conduct extended searches using target, source, ts, priority, groupby, identity, checksum, size, replicated, asap, deleted, expired, proxy and event rules.
 - You can filter products using the buttons at the top.
 - You can also use the search bar and implement some advanced filtering.

- Restart/Stop destination
 - Graceful
 - Immediate
- Activate & Deactivate a host
- Increase & Decrease a priority of host

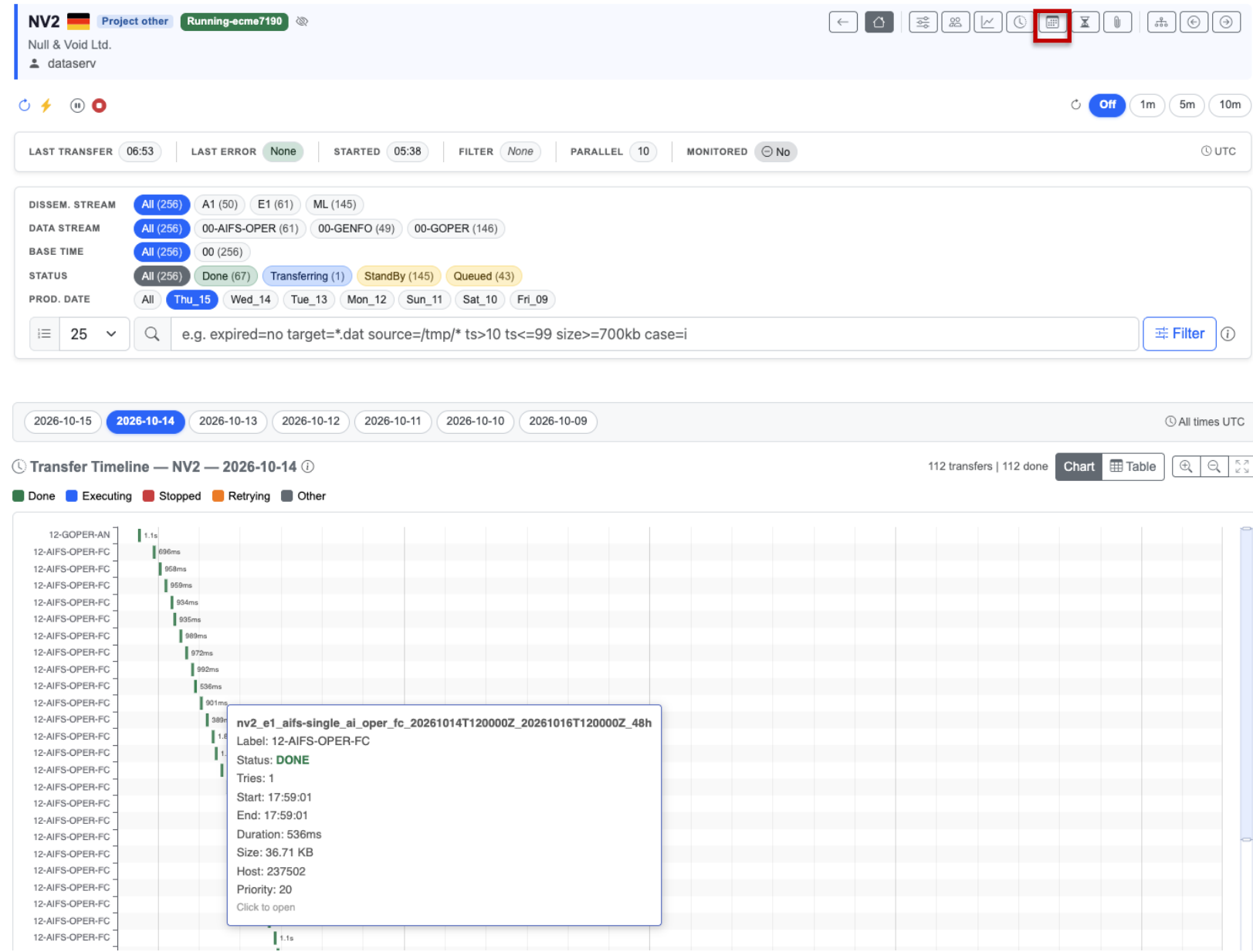
See your organisation metadata

- Make sure your metadata information is correct and up-to-date.
- ECMWF relies on it to contact you in case of downtimes, transfer issues, or other critical situations.

The screenshot displays the ECMWF metadata management interface. At the top, the project is identified as 'NV2' (Germany) with a status of 'Running-ecme7190'. Below this, a toolbar contains various icons, with the 'Print' icon highlighted by a red box. The main section shows transfer details: 'LAST TRANSFER' at 06:53, 'LAST ERROR' as 'None', 'STARTED' at 05:38, and 'FILTER' as 'None'. A table lists transfer streams and their statuses: 'DISSEM. STREAM' (All (256), A1 (50), E1 (61), ML (145)), 'DATA STREAM' (All (256), 00-AIFS-OPER (61), 00-GENFO (49), 00-GOPER (146)), 'BASE TIME' (All (256), 00 (256)), 'STATUS' (All (256), Done (67), Transferring (1), StandBy (145), Queued (43)), and 'PROD. DATE' (All, Thu_15, Wed_14, Tue_13, Mon_12, Sun_11, Sat_10, Fri_09). A search bar at the bottom contains the query 'e.g. expired=no target=*.dat source=/tmp/* ts>10 ts<=99 size>=700kb case=i'. Below this, a 'CONTACTS' section lists various roles and their corresponding email addresses: Computing Representative, Computer Operations (Yigit Altintas), Meteorologists, ECMWF Contact, Meteorological Contact, Mail Group (op_extern_NV2@lists.ecmwf.int), Main Operational Contact (Alba Gomez Segura), Telecom Operators, ECPDS Contact, Technical Contact, and Switchboard.

Transfer timeline

- You can see a graphical view of your transfers in the ECPDS.
- You can monitor transfer times in milliseconds and track potential delays or irregularities.



Extra features of ECPDS

- Data compression (lbzip2)
- Proxy servers in North America and in Singapore
- Retry mechanism
- Data retention days
- Alias destinations
- Data integrity, checksum, .tmp concept
- Host failover mechanism
- ...

Additional resources, support & live demo

- Watch our blog for update: <https://confluence.ecmwf.int/pages/viewrecentblogposts.action?key=DAC>
- ECPDS Documentation: <https://confluence.ecmwf.int/pages/viewpage.action?pageId=228871373>
- Manage your dissemination with ECPDS and the PReD:
<https://www.ecmwf.int/en/forecasts/documentation-and-support/data-delivery/manage-your-data-transmission-ecpds>
- Set-up for delivery of real-time forecast data from ECMWF:
<https://confluence.ecmwf.int/display/DAC/Set-up+for+delivery+of+real-time+forecast+data+from+ECMWF>
- File naming convention and format for real-time data:
<https://confluence.ecmwf.int/display/DAC/File+naming+convention+and+format+for+real-time+data>
- Dissemination Schedule: <https://confluence.ecmwf.int/display/DAC/Dissemination+schedule>

Thank you!

