

TerraSAR-X Services Data Download via FTPS or Aspera Connect

Version 1.1

AIRBUS DEFENCE AND SPACE Intelligence



1 Common

For accessing and downloading TerraSAR-X Services data either FTPS or Aspera Connect can be used. Especially on long distances the Aspera Connect solution will significantly speed up the download times (up to 100 times). This manual describes the usage of FTPS and Aspera Connect.

Please note that according to our "General Terms and Conditions for TerraSAR-X Data Supply", the CUSTOMER shall have a **fixed period of 5 days for the download**. Following this period, the data is deemed to be delivered.

2 Network Settings

2.1 Aspera

The TerraSAR-X Services Aspera system is secured with TLS on Port 443 (TCP) and accessible on <u>https://delivery.terrasar.com</u>. After the download selection, a connection from the Aspera Connect Plugin (Client) is established by opening up a communication on port 22 (TCP). After the authentication the data transfer is done using port 33001 (UDP).

So please, have these ports opened up on your site in the firewall for outgoing traffic if you want to use Aspera:

- 22 TCP
- 443 TCP
- 33001 UDP

If you are not sure about the network configuration, please contact your local network administrator regarding this point.

2.2 FTPS

The FTPS authentication is handled by the client via port 990 (TCP). The data is transferred over a dynamically assigned port between server and client (range 30200-30210 TCP).

Please be sure to have your firewall or proxy servers configured to allow these ports if you want to use FTPS:

- 990 TCP
- 30200-30210 TCP

If you are not sure about the firewall configuration, please ask your local network administrator about this point.

3 Client Software

3.1 Aspera

Currently, the Aspera Connect Plugin is available on http://downloads.asperasoft.com/connect2/ or a download possibility is available after login to our site (http://delivery.terrasar.com). The following Operating Systems and the corresponding web browsers are supported:

- Microsoft Windows (Internet Explorer and Mozilla Firefox)
- Macintosh (Safari and Mozilla Firefox)
- Linux (Mozilla Firefox)

Warnings:

- Note that in some cases, a non-administrator cannot perform a Web installation because ActiveX controls may be deactivated. If asked, please accept ActiveX plugins. This will be indicated by a yellow bar on the top of the page.
- You cannot install Aspera Connect under the Guest account.
- Aspera does not support local and system-wide installations on the same system.
- •

3.2 FTPS

For an FTPS download a capable client supporting FTP over TLS (explicit encryption) is mandatory, e.g.:

- FileZilla
- WS FTP Pro
- WinSCP

You can download our last proved Version of FileZilla on our website: <u>http://www.geo-airbusds.com/en/228-terrasar-x-technical-documents</u>



4 Download

4.1 with Aspera

After having logged in to <u>https://delivery.terrasar.com</u>, you can access the "delivery" folder on the page and download your desired file by simply clicking on the "Download" button.

(O AIRBUS DEFENCE & SPACE		Recore
	A new version of Aspera Conne	ct is available. (v3.6.0.106607) Upgrade. Now	
Down	nioad		
Down	ntead	Size	Last Modified
Down	ntead Uplead Colder	Size	Last Modified May 18, 2015 9:56:00 AM

Assess General Server (3.3.2.90042) Dispropt 2009-2014 Assess, Inc. or IBM Consump. II Copyright IBM Color. 2018, 2014. Occypyrt (Ci. 1991, 1999 Free Software Foundation, Inc.

4.2 with FPTS

Click on the "Computer" -Symbol on the very left side of the tool bar:

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File Edit View Tra	ansfer Server Bookmarks	Help								
1 7=6	🖵 😫 🛠 🖻 🖗 🤇	🌮 🗉 R 🕫 🙉 👘								
Host:	Username:	Password:	Port:	Quickconnect						
Local site: /				•	Remote site:					v
·▼ .8//				0						
📁 bin										
🕨 📁 boot				_						
📁 cdrom				_						
🕨 📁 dev										
Filename 💙	Filesize Filetype	Last modified			Filename ^	Filesize Filetype	Last modified	Permissions (Dwner/Group	
📁 lib64	Directory	05/18/2015 10:11:00 AM			-					
📁 lib	Directory	05/18/2015 10:10:55 AM		_			Not connected to	any server		
📁 home	Directory	04/01/2015 02:46:39 PM		_			Not connected to	any server		
📁 etc	Directory	05/21/2015 04:47:23 PM		_						
📁 dev	Directory	05/21/2015 04:47:22 PM		_						
s cdrom	Directory	04/01/2015 02:45:09 PM								
boot	Directory	04/01/2015 02:51:52 PM								
🃁 bin	Directory	05/18/2015 10:40:08 AM								
2 files and 21 directo	ries. Total size: 34,8 MB				Not connected	d.				
Server/Local file	Direction Remot	e file	Size Priority	Status						
Queued files Fai	led transfers Successful t	ransfers								
									Queue: empty	

A window called "Servermanager" will open. Click the "New Site" button and fill in the name of the account (here: delivery.terrasar.com):

· Mu Citor		General /	Advanced	Transfer Settings	Charset	
deliv	ery.terrasar.com	ry terreser.com Host: Protocol: Encryption: Logon Type User:		delivery.terrasar.com Port: 990 FTP - File Transfer Protocol Require explicit FTP over TLS Normal Username		
New Site New Bookmark	New Folder Rename	Account:				
Delete	Duplicate	-				

Complete the "Site Details" on the right handside of the window:

Host: delivery.terrasar.com Port: 990 Servertype: FTP over TLS (explicit encryption) Logontype: normal

User: - your User ID -

Password: - your Password -

Please ensure that "Passive Mode" is enabled as shown in the image below. Click "Edit" via the Main Menu of FileZilla, then click "Settings" and select "FTP":

-	Settings ×	
Select page: Connection Connection Connection Connection Active mode Passive mode FTP Proxy SFTP Generic proxy Transfers File Types File exists action Interface Themes Date/time format File lists Language	 Transfer Mode Passive (recommended) Active Allow fall back to other transfer mode on failure If you have problems to retrieve directory listings or to transfer files, try to change the default transfer mode. FTP Keep-alive Send FTP keep-alive commands A proper server does not require this. Contact the server administrator if you need this. 	
ОК		
Cancel		

5 Troubleshooting

5.1 Aspera

An Aspera icon is displayed in the notification area. This is located right on the bottom of the desktop.

- Right-click the symbol and choose "Preferences..."
- Choose the "Transfers" Tab

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÷	I		w	
General	Transfers	Network	Bandwidth	Security
Downloads				
Save d	ownloaded file	es to:		
/tmp				Browse
C <u>A</u> lways	ask me when	e to save dow	nloaded files.	
Retry-				
Automa	atically <u>r</u> etry f	ailed transfer	s	
Attempt	s: 3	ti <u>m</u> e(s)		
Interval:	30	seconds	• •	
The interv attempt to	al specifies ar pretry a failed	n amount of ti I transfer.	ime that will ela	apse between each
Logging —				
Logging	Level: Info	•		
				OK Cancel

Be sure the "automatically retry for failed transfers" is activated and configured as shown in the picture above.

After a download has failed you have the possibility to resume a download by pressing the marked button:

P]	- o o o
	Downloaded 1.8 of 104.6 MB (stopped)	