

Transfer Appliance is a high-capacity storage device that enables you to transfer and securely ship your data to a Google upload facility, where we upload your data to Google Cloud Storage. For Transfer Appliance capacities and requirements, see [Specifications](/transfer-appliance/docs/2.0/specifications) (/transfer-appliance/docs/2.0/specifications).

Transfer Appliance is available in the following locations:

Location	TA100	TA480
United States	✓	✓
Canada	✓	✓
European Union	✓	✓
Norway	✓ <b>beta</b> (/products/?hl=EN#product-launch-stages)	✓ <b>beta</b> (/products/?hl=EN#product-launch-stages)
Switzerland	✓ <b>beta</b> (/products/?hl=EN#product-launch-stages)	✓ <b>beta</b> (/products/?hl=EN#product-launch-stages)

With a typical network bandwidth of 100 Mbps, one petabyte of data takes about 3 years to upload. However, with Transfer Appliance, you can receive the appliance and capture a petabyte of data in under 25 days. Your data can be accessed in Cloud Storage within another 25 days, all without consuming any outbound network bandwidth.

Apply for the Transfer Appliance by filling out the [Transfer Appliance application form](https://console.cloud.google.com/storage/transferappliance) (https://console.cloud.google.com/storage/transferappliance). For more information on Transfer Appliance pricing, see [Transfer Appliance Pricing](/transfer-appliance/docs/2.0/pricing) (/transfer-appliance/docs/2.0/pricing).

Transfer Appliance is a good fit for your data transfer needs if:

- You are an existing Google Cloud Platform (GCP) customer.
- Your data size is greater than or equal to 10TB.
- Your data resides in locations that Transfer Appliance is available (#location-availability).
- It would take more than one week to upload your data.

Refer to the following table to see the approximate upload time for your dataset, based on size and network speed.

	Physical Transfer		Physical / Online Transfer			Online Transfer
	1 Mbps	10 Mbps	100 Mbps	1 Gbps	10 Gbps	100 Gbps
1 GB	3 hours	18 minutes	2 minutes	11 seconds	1 second	0.1 seconds
10 GB	30 hours	3 hours	18 minutes	2 minutes	11 seconds	1 second
100 GB	12 days	30 hours	3 hours	18 minutes	2 minutes	11 seconds
1 TB	124 days	12 days	30 hours	3 hours	18 minutes	2 minutes
10 TB	3 years	124 days	12 days	30 hours	3 hours	18 minutes
100 TB	34 years	3 years	124 days	12 days	30 hours	3 hours
1 PB	340 years	34 years	3 years	124 days	12 days	30 hours
10 PB	3,404 years	340 years	34 years	3 years	124 days	12 days
100 PB	34,048 years	3,404 years	340 years	34 years	3 years	124 days

Appliances are shipped from the Netherlands. When data capture is complete, you ship the appliance to Belgium for data upload. Your data is then uploaded to a Cloud Storage staging location in the region you chose as the final destination for your data when you signed up for the appliance. If you choose a destination region within the EU, your data never leaves the boundaries of the European Union during any part of the data transfer process.

- [Cloud Storage Transfer Service \(/storage/transfer/\)](/storage/transfer/): Quickly imports online data into Google Cloud Storage.
- [Google BigQuery Data Transfer Service \(/bigquery/transfer/\)](/bigquery/transfer/): Automates data movement from Software as a Service (SaaS) applications such as Google Ads and Google Ad Manager on a scheduled, managed basis.

To start using Transfer Appliance, see [Preparing for Data Transfer \(/transfer-appliance/docs/2.0/preparing-data-transfer\)](/transfer-appliance/docs/2.0/preparing-data-transfer/).