

Once you capture your data onto the Transfer Appliance, [ship the appliance](/transfer-appliance/docs/2.0/shipping-appliance) (/transfer-appliance/docs/2.0/shipping-appliance) to the Google upload facility for rehydration. Data rehydration is the process by which you fully reconstitute the files so you can access and use the transferred data.

To rehydrate data, the data is first copied from the Transfer Appliance to your Cloud Storage staging location. The data uploaded to your staging location is still compressed, deduplicated and encrypted. Data rehydration reverses this process and restores your data to a usable state. As the data is rehydrated, it is moved to the Cloud Storage destination bucket that you created.

To perform data rehydration, use a Rehydrator instance, which is a virtual appliance that runs as a Compute Engine instance on Google Cloud Platform.

The Transfer Appliance Rehydrator compares the CRC32C hash value of each file being rehydrated with the hash value computed when the file was captured. If the checksums don't match, the file is skipped and appears in the skip file list with the message "Data corruption detected".

See [Rehydrating data](/transfer-appliance/docs/2.0/rehydrating-data) (/transfer-appliance/docs/2.0/rehydrating-data).