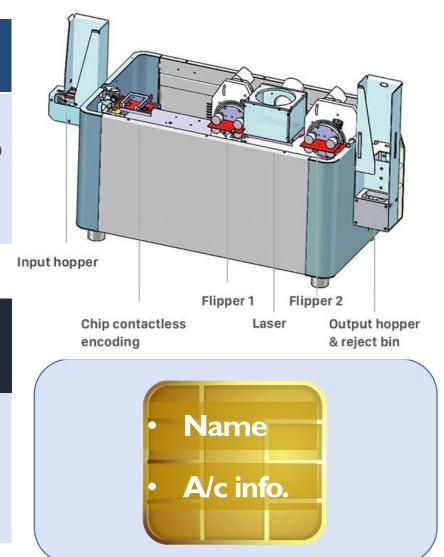


Personalization devices

Devices used to load data onto the chip during the personalization phase

Processing step, or PS

The chip is loaded with the necessary applications, keys, and configuration data



Personalization devices

Data is loaded onto the chip using

Store data commands

Data grouping

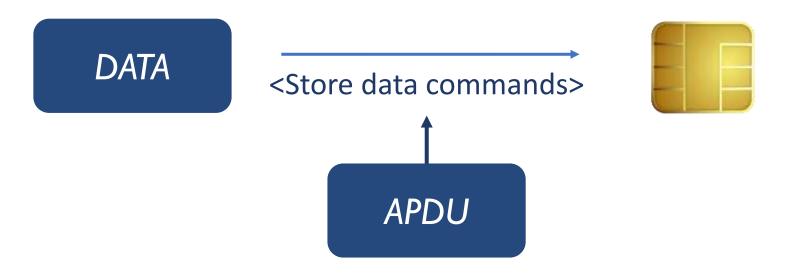


Personalization devices

Commands allow communication



To load data onto the chip, the personalization device uses "store data commands"

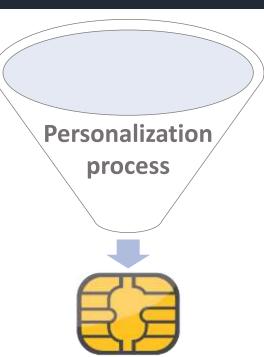


Data grouping

The process of grouping related data elements together into a single data object

APDU commands

Communication, to send store data commands to write data to the chip



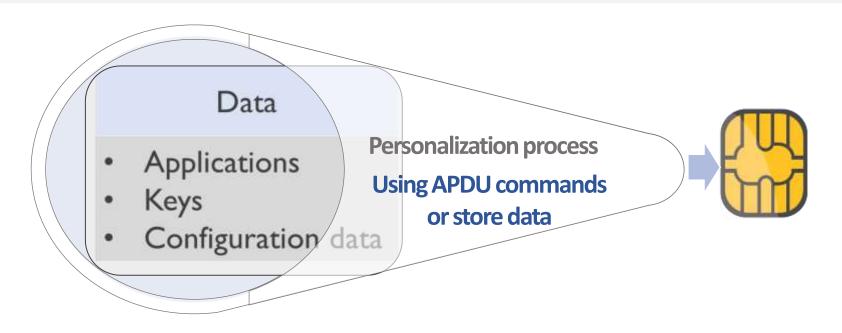
Store data commands

To write the data to a specific file on the chip



Personalization data

Data Prepared by the issuer or a third-party personalization bureau using data preparation system



The personalization data is grouped into data groups based on the card profile, and each group is assigned a specific data object identifier (DO)

The data needed for personalizing an IC card application is separated into three parts

Data for the personalization device

Data to be logged

Data to be sent to the IC application

Data for the personalization device

Includes information to help the device process the data

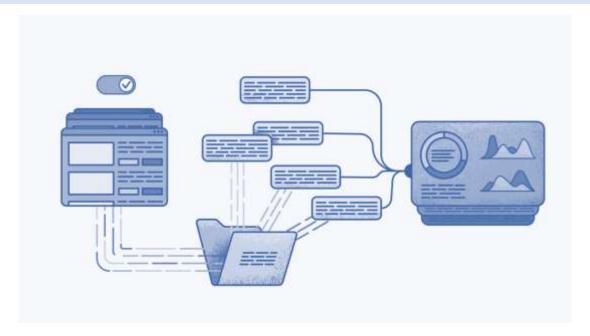
The AID (Application Identification) for the application

The identifier of the Transport Key used to encrypt secret data in the record for the application

Processing steps and instructions for the device

The data to be logged

The data to be logged is the data that needs to be recorded for that specific application



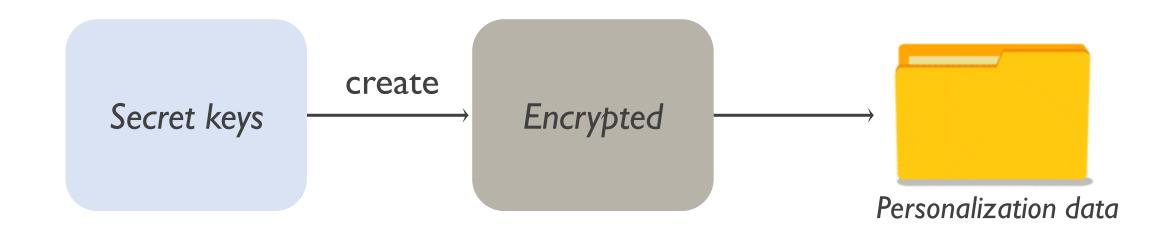
Data to be sent to the IC application

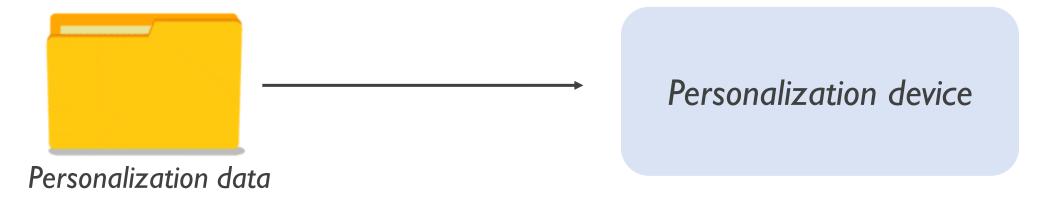
This data can be in the form of one or more groupings with a Data Grouping Identifier (DGI), depending on the processing step (PS)



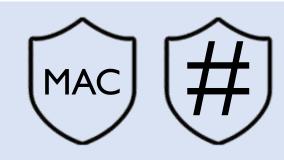
Data can be similar for all the cards in a batch, while some of it may vary for each card







The data preparation system must also protect the completed personalization data file by adding security measures



Detect any changes made to the personalization data file

Prevent unauthorized access or manipulation of the data