

# ACE Personalisation Solution

Austria Card offers a set of ready-to-use applications to enable ACE personalisation in the most common chip personalisation environments.

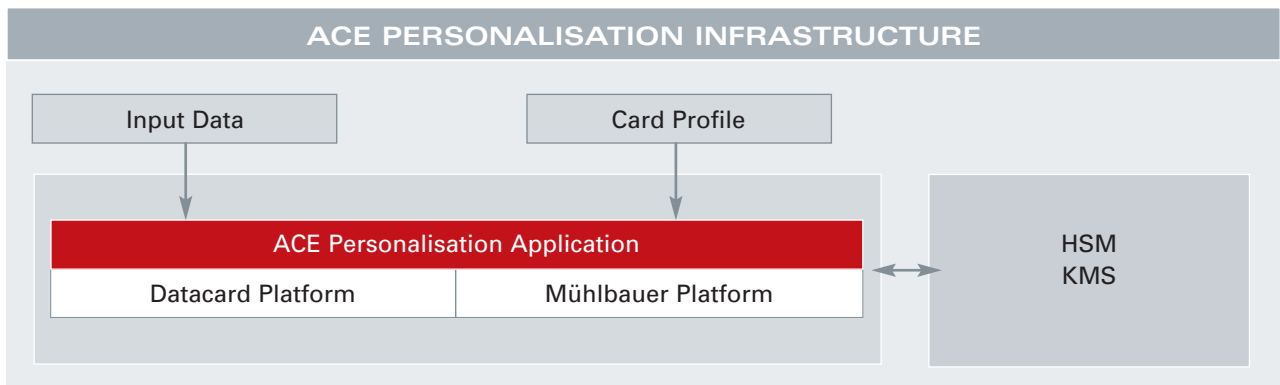
All ACE product lines are supported:

- ☞ ACE 2000 Alps
- ☞ ACE 2000 Advanced  
ACE Advanced AX
- ☞ ACE 2000 Dual Interface  
ACE Dual Interface AX

ACE personalisation applications are available “off-the-shelf” for two personalisation infrastructures:

- ☞ Datacard infrastructure
- ☞ Mühlbauer infrastructure

ACE personalisation applications for other hardware and software personalisation platforms are implemented by and available from a variety of Austria Card partners.



## Datacard Infrastructure

ACE personalisation solution for a Datacard infrastructure requires at least the following components:

- ☞ Datacard (DC 7000/9000, MX 6000)
- ☞ Smart Card Personalisation Manager (SCPM) 3.2 or later versions, or Affina Personalisation Manager (APM)
- ☞ Object Server (key database)
- ☞ ID Works (only in case of desktop card issuance system like SE 48, DC 280, DC 450)
- ☞ Thales HSM (e.g. Thales CM 100, CM 200, CM 250)

## Mühlbauer Infrastructure

The ACE personalisation solution used in a Mühlbauer infrastructure requires at least the following components:

- ☞ Mühlbauer personalisation machine (SCOPE 5400, SCP 5600,...)
- ☞ MCES
- ☞ Key database (Austria Card Key-Server)
- ☞ Thales HSM (e.g. Thales CM 100, CM 200, CM 250)
- ☞ Input data loader (to load personalisation data into the machine database)

## Austria Card ACE Personalisation Application

The personalisation software developed by Austria Card is an application implemented as a plug-in DLL which is connected to the Datacard SCPM/ APM core or Mühlbauer MCES. The ACE Personalisation DLL processes application-specific personalisation data, manages the HSM and creates respective personalisation commands according to the card profile specification.

### Card Profile

Austria Card's ACE Personalisation DLL uses card profiles as a static input to enable plausibility and security checks and to define a structure of the data elements within the chip data block of the personalisation input file as well as necessary key translations during the personalisation.



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### Hardware Security Module

Hardware Security Modules (HSM) ensure integrity and confidentiality of security-sensitive personalisation data, e.g. cryptographic keys and PIN.

### Key Management System

All cryptographic keys are stored encrypted in the Key Management System (KMS). Either Datacard General Object Loader or Austria Card Keyserver can be used as KMS.

# Affina One Step – Data Generation and Personalisation

Affina One Step is a personalisation solution provided by Datacard comprising both EMV data preparation and personalisation of smart cards inline. Instead of using ACE Personalisation DLL, Affina One Step uses a Global Platform scripting engine which is called Affina Profiles and Scripting.

Austria Card provides Global Platform scripts to personalise ACE 2000 and ACE AX products supporting inline EMV data preparation.

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