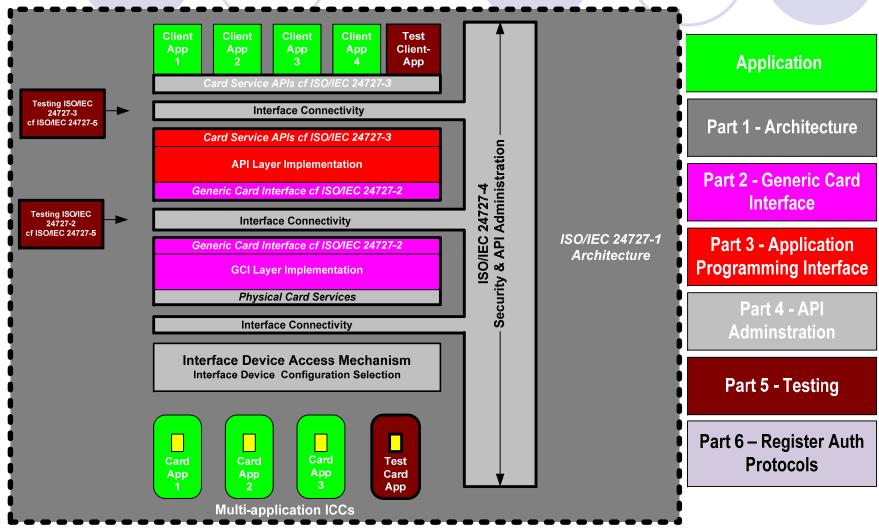


# ISO/IEC 24727 Vocabulary and Semantics



#### ISO/IEC 24727: A Standard in 6 Parts





- Interoperable independent implementations are interchangeable
- Client-application processing software needing access to one or more card-applications
- Card-application uniquely addressable set of functionalities on an ICC that provide data storage and computations services to a clientapplication



- Interface point at which independent and often unrelated systems meet and act on or communicate with each other
- Middleware software that connects two otherwise separate applications
- Translation code procedural software that transforms commands on the generic card interface to commands implemented on an integrated circuit card



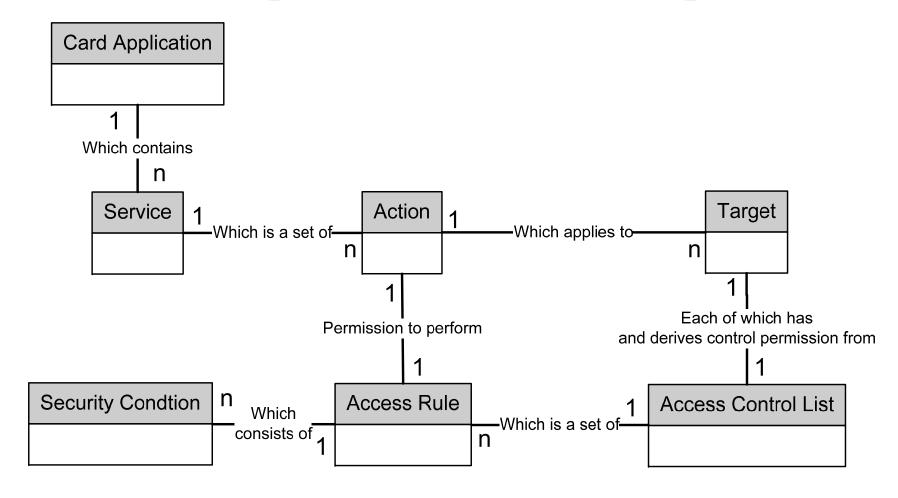
- ISO/IEC 24727 protocol stack series of processing components connected by communication channels that connect a clientapplication to a card-application
- Component executable code comprising a processing layer accessed with ISO/IEC 24727 defined application programming interfaces
- Authentication process of assessing a level of confidence in identity or identification



- Data-Set Client-application named set of information with common security characteristics
- Data Structure for Interoperability (DSI) Clientapplication named quantum of information stored in data-set – a storage mechanism for certificates
- Differential-Identity set of information comprised of a name, a marker and an authentication protocol
- Cryptographic Services Protected Sign,
   VerifySignature, Encipher, & Decipher procedures invoked through a specific differential-identity



# ISO/IEC 24727-3: Basic Entity Relationships





#### Common Infrastructure Semantics

- Card-application uniquely identifiable across a network environment
- Client-application to card-application "path" uniquely identifiable
- Mapping between client-application & card-application name spaces
- Security state establishment through differential-identity
- Information storage / retrieval through named data service
- Information and process protection via access control lists



#### Stack Architecture Overview

