SS 468 : 1999 (2021)
(ICS 35.240.15)

SINGAPORE STANDARD

Specification for stored value card application

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Contents

Foreword

This Singapore Standard was prepared by the Smart Card Technical Committee under the direction of the IT Standards Committee.

The Technical Committee acknowledges the contributions of Gemplus Technologies Asia Pte Ltd to this document.

References was also made to the following standards:

SS ISO 7816-2 : 1988	Specification for Identification cards – Integrated circuit(s) cards with contacts Part 2 : Dimensions and location of the contacts
SS 372 : Part 1 : 1994 / ISO 7816-1 : 1987(E)	Specification for Identification cards – Integrated circuit(s) cards with contacts Part 1 : Physical characteristics
SS 372 : Part 3 : 1995	Specification for Identification cards – Integrated circuit(s) cards with contacts Part 3 : Electronic signals and transmission protocols
ISO/IEC 7816-4 : 1995	Information Technology – Identification cards – Integrated circuit(s) cards with contacts Part 4 : Interindustry commands for interchange

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0 Introduction

This document defines the command set required for the stored-value card applications within Singapore.

Cards must comply with SS 372 : Part 4 : 1999 Specification for Identification cards – Integrated circuit(s) cards with contacts - Part 4 : Interindustry commands for interchange (hereinafter referred to as “SS 372 : Part 4 : 1999”), in addition to this document. In particular, the requirements for Access Conditions, Secure Messaging, Secure Writing and Administration Commands as specified in SS 372 : Part 4 : 1999 must be met.

1 Scope

This Specification defines the command set used for the stored-valued card applications within Singapore.

The stored-value application commands in this document describe the following: Definition and Scope, Conditional Usage and Security, Command Message, Response Message and Status Conditions.

2 Abbreviations and notation

CBC	Cyclic block chaining
CLA	Class byte
CTC	Card transaction counter
DES	Digital encryption standard
DF	Dedicated file
EF	Elementary file
FCI	File control information
INS	Instruction code
KSESadmin	Administration session key
Kpayment	Payment key
KSESpayment	Payment session key

MAC	Message authentication code
MF	Master file with file identifier 3F 00 (Hex)
P1-P2	Parameter bytes
RFU	Reserve for future use
SFI	Short file identifier
TTC	Terminal transaction counter
SW1-SW2	Status bytes