



M/CHIP MOBILE PAYMENTS

LIST OF MASTERCARD APPROVED SECURE ELEMENT PRODUCTS

12 NOVEMBER 2018

This document provides a list of approved Secure Element and compatible with Mastercard's Mobile Payment specifications.

A Mastercard Letter of Approval (LoA) or Component Conformity Statement (CCS) is issued to a Secure Element product that has successfully completed the approval process defined by Mastercard.

LoAs are issued to finalized products like SWP UICCs while CCS' are issued to components that will be part of the final product.

Legend:

- Specification: the version of the Mastercard Mobile *PayPass* or M/Chip Mobile specification the SE is compliant with
- Product Type: the type of product approved by Mastercard (SWP UICC, embedded Secure Element...)
- Technical Name&Version: the product technical identifier determined by the product/application developer/vendor
- LoA/CCS Reference: reference number identifying the Letter of Approval or Component Conformity Statement of one product in a univocal way *
- LoA/CCS Expiry Date: expiration date of the LoA/CCS
- Application Name: the name of the mobile payment application itself
- Contactless Protocol: the communication protocol type supported by the SE product
- Mifare Support: whether the SE supports Mifare
- DESfire Support: whether the SE supports Mifare Desifre.

Part of the Information contained in this report is based on information notified to Mastercard by third parties. Mastercard does not warrant or represent that the notified information is accurate or up-to-date.

*Note: the LoA / CCS Reference ends with the revision of the document. First revision is (a) and it is incremented each time the CCS is modified (renewal, editorial corrections, etc.)

GEMALTO

M/Chip Mobile V1.1.2

PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
Secure Element	MPP1.1.2.0 vB.0.4 UpTeq NFC 3.1.2_eSE v2.0	CCS-GEMA160401-160510	3/7/2019	MPP1.1.2.0 B.0.4	TYPE A and TYPE B	1k + 4k	2K + 4K + 8K
Secure Element	MPP 1.1.2.0 vB.0.4 UpTeq NFC 3.1.2 eSE V2.0 (CP1.33)	CCS-GEMA170101-170602	3/7/2019	MPP1.1.2.0 B.0.4	TYPE A and TYPE B	1K + 4K	2K + 4K + 8K
Secure Element	MPP 1.1.2.0 vB.0.4 UpTeq NFC 3.1.2 eSE V2.0 (CP1.30)	CCS-GEMA170102-170602	3/7/2019	MPP1.1.2.0 B.0.4	TYPE A and TYPE B	1K + 4K	2K + 4K + 8K
Secure Element	MPP 1.1.2.0 vB.0.4 UpTeq NFC 3.1.2 eSE V2.0 (CP1.32)	CCS-GEMA170103-170602	3/7/2019	MPP1.1.2.0 B.0.4	TYPE A and TYPE B	1K + 4K	2K + 4K + 8K

M/Chip Mobile V1.1.3

PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
Secure Element	MPP 1.1.3.0 vB.1.0 on UpTeq NFC V3.0	CCS-GEMA160801-161128	10/14/2019	MPP1.1.3.0 B.1.0	TYPE A and TYPE B	1K + 4K	2K + 4K + 8K
Secure Element	MPP 1.1.3.0 vB.1.0 on UpTeq NFC 3.1.2 eSE (CP1.35)	CCS-GEMA170202-170602	10/14/2019	MPP1.1.3.0 B.1.0	TYPE A and TYPE B	1K + 4K	2K + 4K + 8K
Secure Element	MPP 1.1.3.0 vB.1.0 on UpTeq NFC 4.1.1 v1.1	CCS-GEMA170301-170515	4/28/2020	MPP1.1.3.0 B.1.0	TYPE A and TYPE B	1K + 4K	2K + 4K + 8K
Secure Element	MPP 1.1.3.1 vB.2.0 on UpTeq NFC 4.1.1 V2.0	CCS-GEMA170701-171116	9/8/2020	MPP1.1.3.1 B.2.0	TYPE A and TYPE B	1K + 4K	2K + 4K + 8K

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PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
SWPUICC	MPP1.1.2.0 vB.0.4 UpTeq NFC 3.2.2_Generic 1.0	MLOA-GEMA160402-160727	6/14/2019	MPP1.1.2.0 B.0.4	TYPE A and TYPE B	1k + 4k	4K + 8K
SWPUICC	MPP1.1.2.0 vB.0.4 UpTeq NFC 3.1.1_Generic 2.0	MLOA-GEMA160403-160727	6/2/2019	MPP1.1.2.0 B.0.4	TYPE A and TYPE B	1k + 4k	4K + 8K

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PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
SWPUICC	MPP1.1.3.0 vB.1.0 UpTeq NFC 3.2.2_Generic 1.0	MLOA-GEMA160901-170113	6/14/2019	MPP1.1.3.0 B.1.0	TYPE A and TYPE B	Emulated	
SWPUICC	MPP1.1.3.0 vB.1.0 UpTeq NFC 3.1.1_Generic 2.0	MLOA-GEMA160902-170113	6/2/2019	MPP1.1.3.0 B.1.0	TYPE A and TYPE B	Emulated	

Mobile PayPass M/Chip 4 v1.0 + Errata 30 Sep 2013

PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
SWPUICC	MPP 1.0.13 vA.2.4 UpTeq NFC 3.2.2_Generic v1.0	MLOA-GEMA150902-160104	11/20/2018	MPP1.0.13 vA.2.4	TYPE A and TYPE B	1k + 4k	4k + 8k
SWPUICC	MPP 1.0.13 vA.2.4 UpTeq NFC 3.1.3_HKF v1.0	MLOA-GEMA151001-160222	12/16/2018	MPP1.0.13 vA.2.4	TYPE A and TYPE B	1k + 4k	4k + 8k
SWPUICC	MPP 1.0.13 vA.2.4 UpTeq NFC 3.1.1_Generic v2.0	MLOA-GEMA151101-160208	1/21/2019	MPP1.0.13 vA.2.4	TYPE A and TYPE B	1k + 4K	4k + 8k
SWPUICC	MPP 1.0.13 vA.2.4 UpTeq NFC 2.3.2_DCM v1.0	MLOA-GEMA151201-160425	3/11/2019	MPP 1.0.13 vA.2.4	TYPE A and TYPE B	No	
SWPUICC	MPP 1.0.13 vA.2.4 UpTeq NFC 3.3.2_Generic v1.0	MLOA-GEMA170201-170710	5/2/2020	MPP1.0.13 vA.2.4	TYPE A and TYPE B	1K + 4K	2K + 4K + 8K

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M/Chip Mobile V1.1.3

PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
Secure Element	Sm@rtSIM CX Hercules Variant 18 DD SCP03 1.0	CCS-GIDE170902-170914	10/6/2019	CONVEGO APPLY MCM-303	TYPE A and TYPE B	No	

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PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
SWPUICC	Sm@rtSIM CX Hercules Variant 12 MP4 2.0	MLOA-GIDE170901-170914	10/14/2019	CONVEGO APPLY M40 320	TYPE A and TYPE B	No	No

IDEMIA (OBERTHUR TECHNOLOGIES)

M/Chip Mobile V1.1.2

PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
Secure Element	PEARL 800K Classic v4.02	CCS-OBTR160101-160519	3/2/2019	MCM V1.1 V01.01.00	TYPE A and TYPE B	1k + 4k	/
Secure Element	PEARL 600K Classic v3.01	CCS-OBTR160301-160922	5/12/2019	MCM V1.1 V01.01.00	TYPE A and TYPE B	1k + 4k	/
Secure Element	PEARL 500K Classic v3.1a+	CCS-OBTR160302-160922	5/12/2019	MCM V1.1 V01.01.00	TYPE A and TYPE B	1k + 4k	/
Secure Element	PEARL Classic v4.0+	CCS-OBTR160601-161013	8/26/2019	MCM V1.1 V01.01.00	TYPE A and TYPE B	1k + 4k	/

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PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
Secure Element	PEARL v5.01	CCS-OBTR171001-171213	7/31/2020	MCM 1.1.3 V01.01.02	TYPE A and TYPE B	1k + 4k	8k

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PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
SWPUICC	dragonFly v4.0 - rev B	MLOA-OBTR151102-160217	12/14/2018	MC Mobile AEPMR3 applet v01.00.07 WPS	TYPE A and TYPE B	1k+4k	8k

KONA I CO., LTD.

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PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
SWPUICC	KONA2 N41M3T 2.0	MLOA-KONA151101-160629	4/18/2019	KONA MMPP 1.1	TYPE A and TYPE B	1K	No
SWPUICC	KONA2 N41M5T 2.0	MLOA-KONA151102-160629	4/18/2019	KONA MMPP 1.1	TYPE A and TYPE B	1K	No

NXP SEMICONDUCTORS NETHERLANDS B.V.

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PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
Secure Element	Secure Element J5J1M300E7530100 with MMPP 3.0.0.1J build160610	CCS-NXPS160601-160727	7/6/2019	MMPP 3.0.0.1J	TYPE A and TYPE B	4k	No
Secure Element	Secure Element J5J1M300E7530100 with MMPP 3.0.0.1J build160713	CCS-NXPS160701-160929	7/6/2019	NXP MMPP 3.0.0.1J 160713	TYPE A and TYPE B	Emulated	
Secure Element	Secure Element J5O1M6121980100 with MMPP 3.0.0.1J build160713	CCS-NXPS160901-161216	10/10/2019	NXP MMPP 3.0.0.1J 160713	TYPE A and TYPE B	Yes	No
Secure Element	Secure Element J5P1M6015A540100 with MMPP 3.0.1.1P- 20170518	CCS-NXPS170801-171017	9/7/2020	NXP MMPP 3.0.1.1P	TYPE A and TYPE B	1k + 4k	No

SK HOLDINGS CO., LTD.

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PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
SWPUICC	SKCC NFC USIM 2.0	MLOA-SKCC160401-161221	11/23/2019	SK_MobilePayPass 1.0	TYPE A and TYPE B	No	No

ST MICROELECTRONICS S.R.L – INCARD DIVISION

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PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
SWPUICC	MUSE NFC CG v4	MLOA-STMI160101-160418	3/24/2019	MPP1.0.13 VA.2.4	TYPE A and TYPE B	1K + 4K	4k + 8k
SWPUICC	Muse NFC CG V4 1.3	MLOA-STMI170601-171103	12/31/2019	MPP1.0.13 VA.2.4	TYPE A and TYPE B	1K + 4K	4k + 8k

UBIVELOX INC.

Mobile MasterCard PayPass - M/Chip 4 v1.0 + Errata September 2013

PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
SWPUICC	Ucard NFC v3.0	MLOA-UBVE160201-160601	4/28/2019	UbiveloX MMPP 1.0	TYPE A and TYPE B	No	No

WATCHDATA SYSTEM CO.,LTD.

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PRODUCT TYPE	TECHNICAL NAME&VERSION	LOA/CSS REFERENCE	LOA/CCS EXPIRY DATE	APPLICATION NAME	CONTACTLESS PROTOCOL	MIFARE	DESFIRE
SWPUICC	InnoSeC NFC 1.0.0	MLOA-WADA151201-160325	11/27/2018	MMPP v1.2.0 20151217	TYPE A	No	No