

LSM MANUAL – CARD MANAGEMENT

1.0 OVERVIEW OF CARDS

The tables below list the various card types and how the memory is split up in conjunction with a SimonsVoss system.

1.1. CARD TYPES

Designation	MIFARE Classic	MIFARE Classic		
Memory	1K	4K		
Special features	16 sectors amounting to 64 bytes each (48 bytes of useful data)	32 sectors amounting to 64 bytes each (48 bytes of useful data) and 8 sectors amounting to 256 bytes each (240 bytes of useful data)		
Encryption	CRYPTO1	CRYPTO1		
UID	4 / 7 bytes	4 / 7 bytes		

Designation	MIFARE DESFire EV1	MIFARE DESFire EV1	MIFARE DESFire EV1	
Memory	2K	4K	8K	
Special features				
Encryption	AES / Triple-DES	AES / Triple-DES	AES / Triple-DES	
UID	7 bytes	7 bytes	7 bytes	

1.2. MIFARE CLASSIC DEVICE G1 VARIANTS (SMART READER)

Variant ID	Designation	Lids	Access list	VN data	Total memory	Card features	Description
	Basic features	0	0	N	48B	1K0.4K 1 sector	Configuration with transponder data

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1.3. MIFARE CLASSIC DEVICE G2 VARIANTS

Input: sector list

Variant ID	Designation	Lids	Access list	VN data	Total memory	Card features	Description
33	MCBasic Basic features	0	0	N	48B	1K, 4K 1 sector	Configuration without locking profile, access list and VN. Profile release = 0
32	MC1200L Small system 1,200L	1,200	-{}-0	N	192B	1K, 4K 4 sectors	Small system, without access list and VN.
34	MC1000L_AV Small system 1,000L	1,000	21-42	Y	528B	1K, 4K 11 sectors	Small system, with access list and VN.
31	MC3800L Mid-sized system 3,800L	3,800	0	N	528B	1K, 4K 11 sectors	Mid-sized system, without access list and VN.
35	MC8000L_AV Mid-sized system 8,000L	8,000	120-230	Y	2,048B	4K - 8 small + 8 large sectors	Mid-sized system, with access list and VN.

1.4. MIFARE CLASSIC PREDEFINED KEY A DEVICE G2 VARIANTS

Input: FormatKey (key A, format, read and write), Key (key B, read and write), sector list

Variant ID	Designation	Lids	Access list	VN data	Total memory	Card features	Description
33	MCBasic Basic features	0	0	N	48B	1K, 4K 1 sector	Configuration without locking profile, access list and VN. Profile release = 0
32	MC1200L Small system 1,200L	1,200	-{}-0	N	192B	1K, 4K 4 sectors	Small system, without access list and VN.
34	MC1000L_AV Small system 1,000L	1,000	21-42	Y	528B	1K, 4K 11 sectors	Small system, with access list and VN.
31	MC3800L Mid-sized system 3,800L	3,800	0	N	528B	1K, 4K 11 sectors	Mid-sized system, without access list and VN.
35	MC8000L_AV Mid-sized system 8,000L	8,000	120-230	Y	2,048B	4K - 8 small + 8 large sectors	Mid-sized system, with access list and VN.

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1.5. MIFARE CLASSIC PREDEFINED KEY B DEVICE G2 VARIANTS

Input: Key (key B, read and write), sector list

Variant ID	Designation	Lids	Access list	VN data	Total memory	Card features	Description
33	MCBasic Basic features	0	0	N	48B	1K, 4K 1 sector	Configuration without locking profile, access list, and VN. Profile release = 0
32	MC1200L Small system 1,200L	1,200	0	N	192B	1K, 4K 4 sectors	Small system, without access list and VN.
34	MC1000L_AV Small system 1,000L	1,000	21-42	Y	528B	1K, 4K 11 sectors	Small system, with access list and VN.
31	MC3800L Mid-sized system 3,800L	3,800	0	N	528B	1K, 4K 11 sectors	Mid-sized system, without access list and VN.
35	MC8000L_AV Mid-sized system 8,000L	8,000	120-230	Y	2,048B	4K - 8 small + 8 large sectors	Mid-sized system, with access list and VN.

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1.6. MIFARE DESFIRE DEVICE G2 VARIANTS

Input: Appld (application ID), CryptoMode (encryption: AES or 3DES), PiccCryptoMode (encryption: AES or 3DES), PiccMasterKey (card master key)

Variant ID	Designation	Lids	Access list	VN data	Total memory	Card features	Description
33	MDBasic Basic features	0	0	N	48B	2K-8K	Configuration without locking profile, access list, and VN. Profile release = 0
32	MD1200L Small system 1,200L	1,200	0	No	192B	2K-8K	Small system, without access list and VN.
31	MD3800L Mid-sized system 3,800L	3,800	0	N	528B	2K-8K	Mid-sized system, without access list and VN.
30	MD4000L_AV Mid-sized system 4,000L	4,000	80-150	Y	1,600B	2K-8K	Mid-sized system, with access list and VN.
29	MD10000L_AV Large system 10,000L	10,000	200-400	Y	3,048B	4K, 8K	Large system, with access list and VN.
28	MD32000L_AV Maximum-sized system 32,000L	32,000	400-800	Y	7,000B	8K	Maximum-sized system, with access list and VN.

1.7. MIFARE DESFIRE PREDEFINED DEVICE G2 VARIANTS

Input: Appld (application ID), CommunicationMode, CryptoMode (encryption: AES or 3DES), FileNo, FileType, ReadKey, ReadKeyNo, WriteKey, WriteKeyNo

Variant ID	Designation	Lids	Access list	VN data	Total memory	Card features	Description
33	MDBasic Basic features	0	0	N	48B	2K-8K	Configuration without locking profile, access list and VN. Profile release = 0
32	MD1200L Small system 1,200L	1,200	0	N	192B	2K-8K	Small system, without access list and VN.
31	MD3800L Mid-sized system 3,800L	3,800	0	N	528B	2K-8K	Mid-sized system, without access list and VN.
30	MD4000L_AV Mid-sized system 4,000L	4,000	80-150	Y	1,600B	2K-8K	Mid-sized system, with access list and VN.
29	MD10000L_AV Large system 10,000L	10,000	200-400	Y	3,048B	4K, 8K	Large system, with access list and VN.
28	MD32000L_AV Maximum-sized system 32,000L	32,000	400-800	Y	7,000B	8K	Maximum-sized system, with access list and VN.