

Chaining Invocation & Block Size

This Specification Bulletin updates the requirements related to chaining.

Applicability

This Specification Bulletin applies to:

- *EMV Level 1 Specifications for Payment Systems, EMV Contactless Interface Specification, Version 3.0 – February 2018.*

Related Documents

- *None*
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Description

This Specification Bulletin implements the following updates:

- It introduces a new requirement that defines when a PCD must invoke chaining
- It introduces a new requirement that defines when a PICC must invoke chaining
- It changes the requirement for the size of the PCD's chained blocks.

The size of the PCD's chained blocks becomes the minimum of the FSC indicated by the PICC, and the maximum FSC supported by the PCD.

Specification Changes

Add new Requirements 10.3.2.1a and 10.3.2.1b to new Requirements 10.8.

Requirements 10.8: Chaining Invocation

PCD	PICC
<p>10.3.2.1a <u>The PCD shall invoke chaining when the number of data bytes in the frame to be sent exceeds the minimum of:</u></p> <ul style="list-style-type: none">○ <u>FSC indicated by the PICC, and</u>○ <u>Maximum FSC supported by the PCD which shall be at least 256 bytes. Refer to Table 5.17 (for Type A) and Table 6.7 (for Type B) for possible values of FSC greater than 256 bytes.</u>	<p>10.3.2.1b <u>The PICC shall invoke chaining when the number of data bytes in the frame to be sent exceeds the minimum of:</u></p> <ul style="list-style-type: none">○ <u>FSD indicated by the PCD, and</u>○ <u>Maximum FSD supported by the PICC. Refer to Table 5.14 (for Type A) and Table 6.15 (for Type B) for all possible FSD values.</u>

Change requirement 10.3.2.2 as follows:

PCD
<p>10.3.2.2 When the PCD sends a chain of I-blocks, each block indicating chaining (i.e. all blocks of the chain except the last one) shall have a length equal to the <u>minimum of:</u></p> <ul style="list-style-type: none">○ <u>FSC indicated by the PICC, and</u>○ <u>Maximum FSC supported by the PCD which shall be at least 256 bytes. Refer to Table 5.17 (for Type A) and Table 6.7 (for Type B) for possible values of FSC greater than 256 bytes.</u> <p>PCD chaining buffer size. The PCD chaining buffer size is equal to FSC if supported by the PCD or FSC_{CHAINING} if FSC is greater than FSC_{CHAINING} and FSC is not supported by the PCD. Refer to Annex A.4 for the value of FSC_{CHAINING}.</p>

Change title of Requirements 10.7 to "General Chaining Rule" and update numbering of requirements tables in Chapter 10 following the introduction of Requirements 10.8.

Remove **FSC_{CHAINING}** from Table A.5.

Table A.5: Sequences and Frames

Topic	Parameter	PCD Value		PICC Value		Units
		Min	Max	Min	Max	
Common	...					
	FSC_{CHAINING}	256				bytes
	...					

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