

## **Contact – Warm Reset Initiation**

***This Specification Bulletin clarifies the ICC requirements when a Warm Reset is initiated by the terminal in the further stages of the transaction***

---

### **Applicability**

This Specification Bulletin applies to:

- *EMV Integrated Circuit Card Specifications for Payment Systems, Book 1 - Application Independent ICC to Terminal Interface Requirements, Version 4.3, November 2011.*

### **Related Documents**

- *Draft Specification Bulletin No. 246, Contact – Introduction of Protocol and Parameters Selection, Second Edition, November 2020*
  - *INTERNATIONAL STANDARD, ISO/IEC 7816-3, Identification cards — Integrated circuit cards — Part 3: Cards with contacts — Electrical interface and transmission protocols, Third edition, 2006-11-01*
- 

### **Description**

In current specification the initiation of a warm reset is required only during or immediately after an in-compliant cold ATR. However, based on ISO/IEC standards terminals are allowed to initiate a warm reset during further stages or at the end of the transaction. While such behaviour is not prohibited by EMV a card response is not defined for late warm resets. This bulletin clarifies the card requirements in case a warm reset occurring any time of the transaction besides rejected cold ATR or erroneous PPS exchange.

**For cards:**

Requirements	Date for application
The changes (new requirements) in this bulletin	Approved cards due for renewal: from January 2025
EMV Book 1 version 4.3	New card approvals: until end December 2023
The changes (new requirements) in this bulletin	New card approvals: from January 2024

## ***Specification Changes***

### **6.1.3.2 Warm Reset**

...

**Note:** Figure 8 indicates that the terminal may initiate the warm reset sequence during the time that the card is still transmitting the cold ATR or PPS response, and in the event that it does, the card shall be able to respond correctly with the warm ATR.

Besides following a rejected ATR or an erroneous PPS exchange, if the terminal initiates a warm reset sequence during the later stages of the transaction, the card shall respond correctly with the warm ATR.

# Legal Notice

The EMV® Specifications are provided “AS IS” without warranties of any kind, and EMVCo neither assumes nor accepts any liability for any errors or omissions contained in these Specifications. EMVCo DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT, AS TO THESE SPECIFICATIONS.

EMVCo makes no representations or warranties with respect to intellectual property rights of any third parties in or in relation to the Specifications. EMVCo undertakes no responsibility to determine whether any implementation of the EMV® Specifications may violate, infringe, or otherwise exercise the patent, copyright, trademark, trade secret, know-how, or other intellectual property rights of third parties, and thus any person who implements any part of the EMV® Specifications should consult an intellectual property attorney before any such implementation.

Without limiting the foregoing, the Specifications may provide for the use of public key encryption and other technology, which may be the subject matter of patents in several countries. Any party seeking to implement these Specifications is solely responsible for determining whether its activities require a license to any such technology, including for patents on public key encryption technology. EMVCo shall not be liable under any theory for any party's infringement of any intellectual property rights in connection with the EMV® Specifications