

Dear Customer,

Contactless Mifare™ classic Chips made by NXP (former Philips Semiconductors) have been used in many different applications since 1994 with 1996 seeing the first use in public transport.

These IC's have a unique serial number as a security feature. This UID (Unique Identifier) has a length of 4 Byte.

NXP estimate the number range possible with 4 Byte will be exhausted by the end of 2010. This will include the following chips: Mifare classic 1k, 4k, SLE66R35 (licenced product from Infineon) and all emulations on Smart MX processors.

Since the unique identification number is an important security feature in most of the contactless systems, we strongly recommend the switch to Mifare classic IC's with 7 Byte UID. NXP has started the mass production for these chip types.

We are ready to send you sample cards of Mifare 1k and Mifare 4k with 7 Byte UID for your evaluation process.

All chips brought to the market by NXP after 2001 carry a 7 Byte UID already – these are Mifare Ultralight ©, Mifare DESFire, DESFire ev1 and Mifare PLUS families.

There will be used a special number range for the Mifare classic emulations on Smart MX processors that has not been used so far. This range shall provide enough numbers until the end of 2012 to ease the more complicated changes in processor based applications.

As an alternative NXP will still produce Mifare classic IC's with 4 Byte serial numbers. However, these numbers won't be unique any longer (ONUID). NXP will start with old number ranges to avoid double numbers as long as possible.

Please contact us for all questions arising with those changes. NXP offer technical notes on their homepage ([www.nxp.com](http://www.nxp.com) and [www.MIFARE.net](http://www.MIFARE.net)) or you can take part in webinars.

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