

Following a recent announcement from our chip supplier NXP, we'd like to inform you that two of its most successful chip families are being upgraded to the latest generation:

- MIFARE DESFire EV2 is being discontinued and replaced by MIFARE DESFire EV3
- MIFARE Plus EV1, S and X are being discontinued and replaced by MIFARE Plus EV2

Both new platforms are multiple years in the market now and known to be **backwards compatible** to previous generations, while adding new security features and enhancing performance.

As a result, NXP recommends that new deployments should be based either on the MIFARE DESFire EV3 or MIFARE Plus EV2.

Please ensure you file any orders of previous generation chips to HID **before Dec.15, 2023!** After that date, products based on these platforms will only be shipped as long as supplies last and then be replaced by the new generation MIFARE DESFire EV3 and MIFARE Plus EV2 respectively.

See the links and table below for more details:

- [NXP product change notifications](#)
- [MIFARE DESFire EV3 homepage](#)
- [Detailed feature comparison to other MIFARE DESFire products](#)
- [MIFARE Plus EV2 homepage](#)
- See Application Note AN12783 "Comparison between MIFARE Plus EV2 and previous types," available in the NXP Secure files section of [nxp.com](https://www.nxp.com)

A feature comparison of MIFARE DESFire EV2 vs. EV3 follows:

| Feature | MIFARE DESFire EV2 | MIFARE DESFire EV3 |
|---------------------------|------------------------------|------------------------------|
| ISO/IEC 14443 A 1-4 | Yes | Yes |
| ISO/IEC 7816-4 support | extended | extended |
| EEPROM data memory | 2/4/8/16/32KB | 2/4/16KB |
| Flexible file structure | Yes | Yes |
| NFC Forum Tag Type 4 | Yes | Yes |
| Unique ID | 7B UID or 4B RID | 7B UID or 4B RID |
| Number of applications | unlimited | unlimited |
| Number of files per app | 32 | 32 |
| High data rates support | Up to 848 Kbit/s | Up to 848 Kbit/s |
| Crypto algorithms support | DES/2K3DES/ 3K3DES/AES128 | DES/2K3DES/ 3K3DES/AES128 |
| CC certification (HW+SW) | EAL 5+ | EAL 5+ |
| MIsmartApp (AppXplorer) | Yes | Yes, preloaded |
| Secure Dynamic Message | - | NTAG DNA |
| Transaction MAC per app | Yes | Yes |

| | | |
|-----------------------------|--------------------|--------------------|
| Multiple keysets per app | Up to 16 keysets | Up to 16 keysets |
| Multiple file access rights | Up to 8 keys | Up to 8 keys |
| Inter-app files sharing | Yes | Yes |
| Transaction timer | - | Yes |
| Virtual Card Architecture | Yes | Yes |
| Proximity Check | Yes | Yes |
| Delivery types | Wafer, MOA4 & MOB6 | Wafer, MOA4 & MOA8 |