June 20th, 2023

**MIFARE® DESFire® – Product family update**

Dear valued partner,

The latest member of the MIFARE DESFire family, namely the MIFARE DESFire EV3 smartcard IC, has been available for several years. With your support the launch and the market adoption has exceeded our expectations. System integrators, customers and ultimately the end users are appreciating the improved product performance, enhanced RF operating range and latest state-of-the-art functional and security implementation, and thus are adopting the MIFARE DESFire EV3 product rapidly throughout all applications.

Given the success of MIFARE DESFire EV3 and the mass adoption in the market, to optimize our supply chain and to ensure high quality lead times, NXP has decided to discontinue the MIFARE DESFire EV2 product, to focus fully on the MIFARE DESFire EV3 product with our new dual-sourcing strategy, covering fabs in both Europe and Asia.

Originally launched in 2016, the MIFARE DESFire EV2 product reflected the market requirements at that time. Following numerous technology innovations at NXP including a step-up in features, security, and functionality, the MIFARE DESFire EV2 product is herewith discontinued and replaced by the successor product from the MIFARE DESFire family, namely the MIFARE DESFire EV3 smartcard IC.

MIFARE DESFire EV3 is fully backwards compatible to MIFARE DESFire EV2, enabling an easy and straightforward migration path for the existing MIFARE customer ecosystem and deployed infrastructures.

As a result, NXP recommends that MIFARE DESFire family deployments should be based on the MIFARE DESFire EV3 product.

With regards to NXP's standard terms and conditions, we provide support to deployed infrastructures for their successful migration to the MIFARE DESFire EV3 product.

Please contact your local NXP representative or address any questions to NXP via the email-address mifare@nxp.com.

**Impact and timelines**

With the awareness of the impact of this decision, NXP would like to provide the required information and support to have a smooth transition into our latest generation of MIFARE DESFire products.

The discontinuation of the MIFARE DESFire EV2 product will be effective on the 31$^{st}$ of December 2023 until which we will accept the last order of the product, with the last date of shipment for MIFARE DESFire EV2 ICs being the 30$^{th}$ of June 2024.

At the end of this letter, you will find a list of equivalent products between previous MIFARE DESFire EV2 products and the latest MIFARE DESFire EV3 products. You can also get details regarding the differences of each product generation in the datasheets of the product ("DS487033 MF3D(H)x3 MIFARE DESFire EV3 contactless smartcard IC") as well as in a dedicated application note ("AN617012 MIFARE DESFire EV3 feature and functionality comparison to other MIFARE DESFire products"), available in the NXP Secure Files section of NXP.com.

If you have any further questions, we will be happy to assist you through our technical support and marketing specialists. Please do not hesitate to contact us.


Yours Sincerely




Sandra Hollerweger

*Product Manager*



Joo Ming Chua

*Product Marketing Manager*

# Affected Product Type List

## Current MIFARE DESFire EV2 types

| 12 NC | Description | Type | Delivery form |
|---|---|---|---|
| 935347248005 | MF3D2201DUD/01 | MIFARE DESFire EV2, 2KB, 17pF | Wafer 120um |
| 935347254005 | MF3D4201DUD/01 | MIFARE DESFire EV2, 4KB, 17pF | Wafer 120um |
| 935347255005 | MF3D8201DUD/01 | MIFARE DESFire EV2, 8KB, 17pF | Wafer 120um |
| 935347257005 | MF3D2201DUF/01 | MIFARE DESFire EV2, 2KB, 17pF | Wafer 75um |
| 935347258005 | MF3D4201DUF/01 | MIFARE DESFire EV2, 4KB, 17pF | Wafer 75um |
| 935347259005 | MF3D8201DUF/01 | MIFARE DESFire EV2, 8KB, 17pF | Wafer 75um |
| 935347315118 | MF3D2200DA4/01 | MIFARE DESFire EV2, 2KB, 17pF | MOA4 |
| 935347316118 | MF3D4200DA4/01 | MIFARE DESFire EV2, 4KB, 17pF | MOA4 |
| 935347317118 | MF3D8200DA4/01 | MIFARE DESFire EV2, 8KB, 17pF | MOA4 |
| 935347344118 | MF3D2200DA6/01 | MIFARE DESFire EV2, 2KB, 17pF | MOB6 |
| 935347345118 | MF3D4200DA6/01 | MIFARE DESFire EV2, 4KB, 17pF | MOB6 |
| 935347346118 | MF3D8200DA6/01 | MIFARE DESFire EV2, 8KB, 17pF | MOB6 |
| 935347286005 | MF3DH2201DUD/01 | MIFARE DESFire EV2, 2KB, 70pF | Wafer 120um |
| 935347287005 | MF3DH4201DUD/01 | MIFARE DESFire EV2, 4KB, 70pF | Wafer 120um |
| 935347288005 | MF3DH8201DUD/01 | MIFARE DESFire EV2, 8KB, 70pF | Wafer 120um |
| 935347291005 | MF3DH2201DUF/01 | MIFARE DESFire EV2, 2KB, 70pF | Wafer 75um |
| 935347293005 | MF3DH4201DUF/01 | MIFARE DESFire EV2, 4KB, 70pF | Wafer 75um |
| 935347313005 | MF3DH8201DUF/01 | MIFARE DESFire EV2, 8KB, 70pF | Wafer 75um |
| 935347661118 | MF3DH2200DA4/01 | MIFARE DESFire EV2, 2KB, 70pF | MOA4 |
| 935347662118 | MF3DH4200DA4/01 | MIFARE DESFire EV2, 4KB, 70pF | MOA4 |
| 935347663118 | MF3DH8200DA4/01 | MIFARE DESFire EV2, 8KB, 70pF | MOA4 |
| 935347669118 | MF3DH2200DA6/01 | MIFARE DESFire EV2, 2KB, 70pF | MOB6 |
| 935347671118 | MF3DH4200DA6/01 | MIFARE DESFire EV2, 4KB, 70pF | MOB6 |
| 935347672118 | MF3DH8200DA6/01 | MIFARE DESFire EV2, 8KB, 70pF | MOB6 |

## Replacement MIFARE DESFire EV3 types

| 12 NC | Description | Type | Delivery form |
|---|---|---|---|
| 935405492045 | MF3D2301DUD/00 | MIFARE DESFire EV3, 2KB, 17pF | Wafer 120um |
| 935405494045 | MF3D4301DUD/00 | MIFARE DESFire EV3, 4KB, 17pF | Wafer 120um |
| 935404477045 | MF3D8301DUD/00 | MIFARE DESFire EV3, 8KB, 17pF | Wafer 120um |
| n.a. | n.a. | n.a. | n.a. |
| n.a. | n.a. | | n.a. |
| n.a. | n.a. | n.a. | n.a. |
| 935388053118 | MF3D2300DA4/00 | MIFARE DESFire EV3, 2KB, 17pF | MOA4 |
| 935388157118 | MF3D4300DA4/00 | MIFARE DESFire EV3, 4KB, 17pF | MOA4 |
| 935383963118 | MF3D8300DA4/00 | MIFARE DESFire EV3, 8KB, 17pF | MOA4 |
| 935388156118 | MF3D2300DA8/00 | MIFARE DESFire EV3, 2KB, 17pF | MOA8 |
| 935388158118 | MF3D4300DA8/00 | MIFARE DESFire EV3, 4KB, 17pF | MOA8 |
| 935383964118 | MF3D8300DA8/00 | MIFARE DESFire EV3, 8KB, 17pF | MOA8 |
| 935405502045 | MF3DH2301DUD/00 | MIFARE DESFire EV3, 2KB, 70pF | Wafer 120um |
| 935405504045 | MF3DH4301DUD/00 | MIFARE DESFire EV3, 4KB, 70pF | Wafer 120um |
| 935404476045 | MF3DH8301DUD/00 | MIFARE DESFire EV3, 8KB, 70pF | Wafer 120um |
| n.a. | n.a. | n.a. | n.a. |
| n.a. | n.a. | | n.a. |
| n.a. | n.a. | n.a. | n.a. |
| 935402675118 | MF3DH2300DA4/00 | MIFARE DESFire EV3, 2KB, 70pF | MOA4 |
| 935404602118 | MF3DH4300DA4/00 | MIFARE DESFire EV3, 4KB, 70pF | MOA4 |
| 935402533118 | MF3DH8300DA4/00 | MIFARE DESFire EV3, 8KB, 70pF | MOA4 |
| 935405198118 | MF3DH2300DA8/00 | MIFARE DESFire EV3, 2KB, 70pF | MOA8 |
| 935405163118 | MF3DH4300DA8/00 | MIFARE DESFire EV3, 4KB, 70pF | MOA8 |
| 935402939118 | MF3DH8300DA8/00 | MIFARE DESFire EV3, 8KB, 70pF | MOA8 |

Note: All MIFARE DESFire EV2 types will be replaced by the MIFARE DESFire EV3 types after the discontinuation!