



INTERNATIONAL POWERED ACCESS FEDERATION

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## IPAF SMART PAL CARDS

### Technical and General Information

#### How does the IPAF Smart PAL Card work?

The **Smart PAL** Card has the same data on it that is currently printed on the standard PAL Card. Additionally this data is contained in a chip embedded in the card. The data in the chip is read by a card reader fitted to the machine. The reader is set up to accept certain data which in turn will allow the machine to be operated. This data includes whether or not the cardholder (operator) is trained, and to what level/category.

#### Data on the SMART PAL Cards

IPAF Smart PAL Cards are MIFARE DESFIRE EV1 smart cards. This card has been extensively tried and tested, can hold a range of data and can be read by virtually all card readers. The IPAF Smart PAL Cards will hold the following technical data:

- **Card manufacturer:** A unique identifier number for the card manufacturer
- **IPAF:** A unique identifier number for IPAF
- **Cardholder:** The cardholder's title, name, surname and photo
- **Card status:** The card creation date, expiry date and status
- **Qualifications:** Scheme ID (e.g. IPAF), PAL Card number (e.g. OP/00012345), grade ID (e.g. OP, D), category ID (e.g. 1b), assessment date, expiry date and language the qualification was conducted in.

For more information and technical data on the MIFARE DESFIRE EV1 application visit the manufacturer website:

[http://www.nxp.com/products/identification-and-security/smart-cards/mifare-ics/mifare-desfire/mifare-desfire-ev1-contactless-multi-application-ic:MIFARE\\_DESFIRE\\_EV1\\_8K](http://www.nxp.com/products/identification-and-security/smart-cards/mifare-ics/mifare-desfire/mifare-desfire-ev1-contactless-multi-application-ic:MIFARE_DESFIRE_EV1_8K)

#### How to utilise Smart PAL Cards on your machines

If you a training centre or rental company and decide to use IPAF Smart PAL Cards, you will need to ensure all your machines are fitted with a smart card reader. The Smart PAL Card will be read by virtually all card readers, so there

are no restrictions on which smart card reader you can use. IPAF does not provide card readers but has worked with a number of IPAF members who can provide readers. These are listed below. Please contact the suppliers directly for further details of their product:

- **INFOBRIC** - Gjuterigatan 9, S-55318, Jonkoding, Sweden.  
([www.infobric.co.uk](http://www.infobric.co.uk)).
- **Rösler Software-Technik GmbH** - Betsbruchdamm 29, 28816 Stuhr, Germany ([www.miniDaT.de](http://www.miniDaT.de)).
- **Trackunit** - Industrivej 10, DK-9490, Pandrup, Denmark  
([www.trackunit.com](http://www.trackunit.com))

When you have chosen your preferred smart card hardware provider and installed your readers, you can start using Smart PAL Cards for controlling access onto the machine.

All PAL Cards issued by IPAF are now smart therefore all applications registered through the online system [www.ipaf-training.com](http://www.ipaf-training.com) will be smart cards.

### **What are the benefits of using Smart PAL Cards?**

Using Smart PAL Cards provides options to control machine access and thereby improve safety. Site managers can use the system to ensure that only correctly trained operators have access to specific MEWPs. They can also track who has used which machine for how long, and prevent fraudulent use. Operators and contractors can prevent unauthorised users from using machines that they are responsible for under the rental contract.

### **Who do I contact if I have problems with the Smart PAL Card being read?**

1. In the first instance if a card is not working on site, the operator should contact the person who hired the machine to ensure the card is authorised for use on that specific machine.
2. If the operator has a valid licence for that category of machine and the card is authorised for use on that specific machine and he is still having problems, the operator should contact the hire company.
3. If you are a hire company and are having problems and have covered steps one and two above, then you have two options: If there is a problem with the card reading unit, please contact the card reader supplier. If there is a problem with the Smart PAL Card, please contact IPAF.

## **What happens if I need to use the machine in an emergency and I am not the authorised user?**

If a person needs to be rescued from the machine while working at height, the emergency lowering system should still function and should be used. Otherwise the machine can only be operated by an authorised user.

## **How can I order Smart PAL cards for all my operators?**

If you wish to replace existing standard PAL Cards or order Smart PAL Cards for newly trained operators, this can be done through the training centre that trained your operators.

Training centres should register trainees for Smart PAL Cards through IPAF's online system [www.ipaf-training.com](http://www.ipaf-training.com) or order replacement cards by emailing [pal@ipaf-training.com](mailto:pal@ipaf-training.com).

If you are an operator and want to request a smart PAL Card at the point of training, please ensure your training centre knows before you start your training and that you tick the relevant box when completing your trainee details.

## **What are the future possibilities for the IPAF Smart PAL Card?**

In the future, the Smart PAL Card could also be used, in conjunction with the IPAF training database, to track machine familiarisation and to act as an electronic logbook of operator experience.

## **What happens if the card is stolen or lost?**

The lost card should be reported to IPAF who can ensure the card has been deactivated on the IPAF system.

## **Where is the data kept and how can I be sure it is secure and not used by third parties?**

Your personal contact details are not contained within the card. The data on the card is limited to your name, operator number and categories trained. IPAF and the training centre you trained at keep any personal data secure in line with data protection legislation.

## **Will the online verification tool identify whether a card is smart or not?**

To identify if a card is smart or standard, look for the smart card logo on the front of the card. There will not be any provision to identify whether a card is smart or standard on the online verification tool.

## **Where have the cards been tested?**

The cards have been tested extensively on multiple machines by operators on site.