

CLAIMS

1. A method for a goods manager to authenticate products at the point of sale, the method comprising:
 - providing an authentication device to a merchant, wherein the authentication device is not associated with a product but is configured to receive product information from a merchant terminal;
 - once information about a product has been received by the authentication device from the merchant terminal, obtaining from the authentication device a signed message which comprises information about the authentication device and information about the product received from the merchant terminal; and
 - providing authorisation data to the authentication device if the information fulfils one or more criteria, thereby associating the authentication device with the product.
2. The method of claim 1, wherein the authentication device is a modified payment card, chip or virtual card provided by an application executed on a computing device.
3. The method of claim 2, wherein the authentication device and the goods manager communicate via at least one element of a transaction infrastructure, and the at least one element of a transaction infrastructure comprises the merchant terminal.
4. The method of any preceding claim, wherein the merchant terminal is a terminal of a payment system configured to process transactions according to the EMV specification.
5. The method of claim 4, wherein the signed information from the authentication device comprises an application cryptogram.
6. The method of claims 4 or 5, wherein the authentication device requests product information as part of the card data object list 1 (CDOL1), and/or the product information is stored on the authentication device in the “Amount, authorised”, “Amount, other” issuer application data, “Transaction Date”, “Transaction Currency Code”, or any other data fields used to compute the application cryptogram in conventional EMV payment device.

7. The method of any preceding claim, wherein the authentication device is provided to the merchant via a card issuer, and providing authorisation data to the authentication device if the information fulfils one or more criteria comprises the goods manager receiving a query from the card issuer to verify the product information, and the card issuer providing the authorisation data to the authentication device.

8. The method of any of claims 4 to 7, wherein the authorisation data comprises an authorisation code.

9. The method of any preceding claim, wherein the signed data from the authentication device is communicated to a card issuer, and the card issuer uses the data to generate a unique transaction identifier.

10. The method of any preceding claim, wherein the authentication device is associated with a unique identifier which is comprised in the signed information.

11. A method for a merchant to authenticate goods at the point of sale, the method comprising:

entering product information at a merchant terminal and communicating the product information to an authentication device via the merchant terminal, wherein the authentication device is not associated with a product but is configured to communicate with a merchant terminal to receive product information from the merchant terminal and to store the product information obtained from the merchant terminal;

obtaining from the authentication device a signed message comprising information about the authentication device and information about the product received by the authentication device from the merchant terminal;

sending the signed information to a card issuer and receiving authorisation data from the card issuer if the signed information fulfils one or more criteria; and communicating the authorisation to the authentication device.

12. The method of claim 21, wherein the authentication device is a chip card, chip or virtual card on a computing device, and communicating with the authentication device comprises establishing a contact or contactless communication

with the card, chip or computing device.

13. A merchant terminal configured to perform the method of claims 11 or 12.

14. The merchant terminal of claim 13, wherein the terminal is part
5 of a payment infrastructure and is configured to perform transactions using the EMV specification.

15. An authentication device configured to obtain and store authenticated product information according to the method of any of claims 1 to 10.