CLAIMS

1. A processing method implemented by a system (S1; S2) comprising a first server (H-TSP) of a home token service provider, a second server (R-TSP) of a roaming token service provider, a third server (H-SV) of a home banking network and a fourth server (R-SV) of a roaming banking network, said method comprising successively:

- receiving, by the fourth server (R-SV) of the roaming banking network, from a first bank system (AC) of an acquirer, a roaming token (R-PAN) as part of transaction data characterising a payment transaction performed by a digital wallet application (DWA) using a mobile payment card (C1) in the roaming banking network, said roaming token being adapted to allow authentication in the roaming banking network of payment transactions performed by the digital wallet application;
- receiving (S86), by the second server from the fourth server (R-SV), said roaming token (R-PAN) allocated to the mobile payment card (C1) for operating in a roaming banking network (R-NT);
- obtaining (S88), by the second server (R-TSP), based on the roaming token (R-PAN) and information previously stored in association with said roaming token (R-PAN), a home token (H-PAN) allocated to the mobile payment card for operating in a home banking network (H-NT) other than said roaming banking network, said home token being adapted to allow authentication in the home banking network of payment transactions performed by the digital wallet application;
- receiving (S94), by the first server (H-TSP), the home token (H-PAN) obtained by said second server (R-TSP);
- obtaining (S96), by the first server, based on the home token (H-PAN) and information previously stored in association with said home token (H-PAN), a primary card number (C-PAN) of the mobile payment card for operating in the home banking network; and
- sending, by the third server (H-SV), to a second bank system of an issuer of the mobile payment card, a transaction request comprising the primary card number (C-PAN) obtained by the first server (H-TSP) for allowing the payment transaction in the home banking network using said mobile payment card (C1),

wherein the payment transaction is performed according to the EMV standard.

2. Method of claim 1 further comprising successively, before the second server receives (S86) the roaming token:

- receiving (S64a), by the first server (H-TSP), a first identifier (H-PANID) associated with the home token (H-PAN);
- determining (S64b), by the first server (H-TSP), the home token (H-PAN) based on the first identifier (H-PANID);
- receiving (S64b), by the second server (R-TSP), the home token (H-PAN) determined by

said first server (H-TSP); and

- storing (S64e), by the second server (R-TSP), the home token (H-PAN) in association with the roaming token (R-PAN).

3. Method of claim 1 or 2, said third and fourth servers being connected via a host-to-host connection, wherein:

- the home token (H-PAN) received by the third server (H-SV) is routed from the fourth server (R-SV) using the host-to-host connection between the third and fourth servers (H-SV, R-SV).

4. Method of claim 3, wherein the primary card number (C-PAN) is sent by the third server (H-SV) in a transaction request after receiving said primary card number from the first server (H-TSP).

5. Method of any one of claims 1 to 4, wherein the system further comprises a fifth server (TSO) of a token service operator, said method further comprising:

- the fifth server (TSO) routing a transaction request including the home token (H-PAN) from the second server (R-TSP) to the first server (H-TSP).

6. A computer program (PG3; PG4) including instructions for executing the steps of any one of claims 1 to 5 when said program is executed by a computer.

7. A recording medium (42; 52) readable by a computer and having recorded thereon a computer program including instructions for executing the steps of a method according to any one of claims 1 to 5.

8. A system (S1; S2) comprising a first server (H-TSP) of a home token service provider, a second server (R-TSP) of a roaming token service provider, a third server (H-SV) of a home banking network and a fourth server (R-SV) of a roaming banking network,
wherein the fourth server (R-SV) of the roaming banking network is configured to receive, from a first bank system (AC) of an acquirer, a roaming token (R-PAN) as part of transaction data characterising a payment transaction performed by a digital wallet application (DWA) using a mobile payment card (C1) in the roaming banking network, said roaming token being adapted to allow authentication in the roaming banking network of payment transactions performed by the digital wallet application;
wherein said second server (R-TSP) comprises:

- a first receiving module (MD40) for receiving from the fourth server (R-SV) the roaming token (R-PAN) allocated to the mobile payment card (C1) for operating in a roaming banking network (R-NT); and

- a first obtaining module (MD42) for determining, based on the roaming token (R-PAN) and information previously stored in association with said roaming token (R-PAN), a home token (H-PAN) allocated to the mobile payment card for operating in a home banking network (H-NT) other than said roaming banking network, said home token being adapted to allow authentication in the home banking network of payment transactions performed by the digital wallet application;

wherein the first server (H-TSP) comprises:

- a second receiving module (MD50) for receiving the home token (H-PAN) obtained by said first obtaining module (MD42); and
- a second obtaining module (MD52) for obtaining, based on the home token (H-PAN) and information previously stored in association with said home token (H-PAN), a primary card number (C-PAN) of the mobile payment card for operating in the home banking network; and

wherein the third server (H-SV) is configured to send, to a second bank system of an issuer of the mobile payment card, a transaction request comprising the primary card number (C-PAN) obtained by the second obtaining module (MD52) for allowing the payment transaction in the home banking network using said mobile payment card (C1),

wherein the payment transaction is performed according to the EMV standard.

9. System of claim 8, wherein:

- the first server (H-TSP) is configured to receive a first identifier (H-PANID) associated with the home token (H-PAN) and to determine the home token (H-PAN) based on the first identifier (H-PANID); and
- the second server (R-TSP) is configured, before receiving the roaming token (R-PAN), to receive the home token (H-PAN) determined by said first server (H-TSP) and to store the home token (H-PAN) in association with the roaming token (R-PAN) for later retrieval by the first obtaining module (MD42).

10. System (S1) of claim 8 or 9, said third and fourth servers being connected via a host-to-host connection, wherein:

- the fourth server (R-SV) is configured to route the home token (H-PAN) to the third server (H-SV) using the host-to-host connection between the third and fourth servers (H-SV, R-SV).

11. System (S2) of claim 8 or 9, comprising a fifth server (TSO) of a token service operator, said fifth server (TSO) being configured to route a transaction request including the home token (H-PAN) from the second server (R-TSP) to the first server (H-TSP).