The login response message may include assertion data indicating whether the login process was successfully executed. The login response message may also include the public key of the public-private key pair used for the login process. In step 67, the PCS 806 may communicate the public key to the PSS 808 to cause the PSS 808 to verify the client device token in step 68. Also in step 68, the PSS 808 may communicate with the DF 810 to send the data associated with the interface of the client device 102 with data related to the login process. The results of the login process may further be forwarded from the DF 810 to the MCS 802 via the PSS 808 and the PCS 806.

[0141] Step 70-77 illustrate a lookup process of a merchant system 104 for the client device authentication process. In step 70, the MSS 804 may transmit a lookup request message to the MPI 812. In response to the lookup request message, in step 71, the MPI 812 may communicate with the DF 810 to retrieve data associated with the interface of the client device 102. In step 72, the DF 810 may transmit said data, which may include data received by the DF 810 in step 69 related to the login process executed in steps 62-69. After retrieving the data from the DF 810, the MPI 812 may transmit a lookup request message to the DS 816, in step 73. The DS 816 may forward the lookup request message to the ACS 116 in step 74. The ACS 116 may process the lookup request and transmit a lookup response message to the MPI 812 via the DS 816 in step 75. The lookup response message may include account and/or payment device data associated with the client device 102, such as a cardholder authentication verification value (CAVV) and/or an electronic commerce indicator (ECI), which may include data indicative of the success or failure of the client device authentication process (e.g., results of a 3-D Secure authentication). Based on the data received from the ACS 116, the MSS 804 may, in step 76, transmit an authentication request message to the MPI 812 to authenticate the transaction, and in response, the MPI 812 may transmit an authentication response message to the MSS 804 in step 77.

[0142] With further reference to the foregoing figures, “electronic payment processing network” may refer to a plurality of computing devices that transmit and/or receive communications between one or more entities for processing the transfer of monetary funds to one or more transactions. The electronic payment processing network may include a merchant system, an acquirer system, a payment gateway, a transaction processing system, and an issuer system.

[0143] With further reference to the foregoing figures, a merchant interface on the