METHODS, DEVICES, AND SYSTEMS FOR SECURE PROVISIONING, TRANSMISSION, AND AUTHENTICATION OF PAYMENT DATA

ABSTRACT

Devices, systems, and methods for securely converting a user's existing static payment card data into dynamic card data that can be authenticated by card issuers or by a stand-in service provider, such as a payment network or processor without requiring the card issuers to make infrastructure changes. The dynamic data can be provisioned onto a magnetic secure transmission device (MST) either directly from a card issuer or using a swiper type device. Devices, systems, and methods are also disclosed for securely provisioning a dynamic card onto the MST by the card issuer. These dynamic cards may be used to transmit modified one-time-use card track data from the MST to a point of sale using a dynamic-CVV methodology to provide higher levels of security during a transaction.

(Fig. 1)