

Smart Card and Magnetic Card

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definition

- ▶ Smart card is a plastic card about the size of a credit card, with an embedded microchip that can be loaded with data.



Reading Smart Card

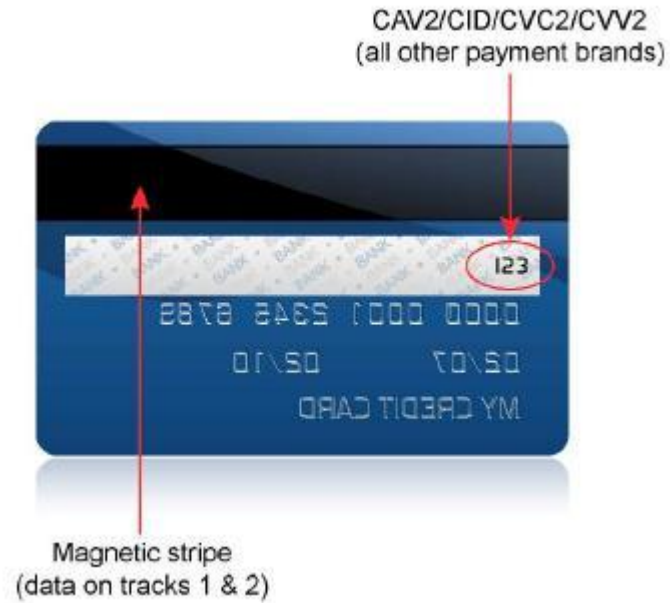


Image
courtesy of Magtek

Magnetic Card

- ▶ A magnetic card is a rectangular object that contains either a magnetic strip on the outside or a magnetic object within the card that contains data. A magnetic card may contain information about an individual such as available credit on a credit card or pass codes for entering secure buildings. The picture is an example of a Magnetic card being swiped through a magnetic card reader.

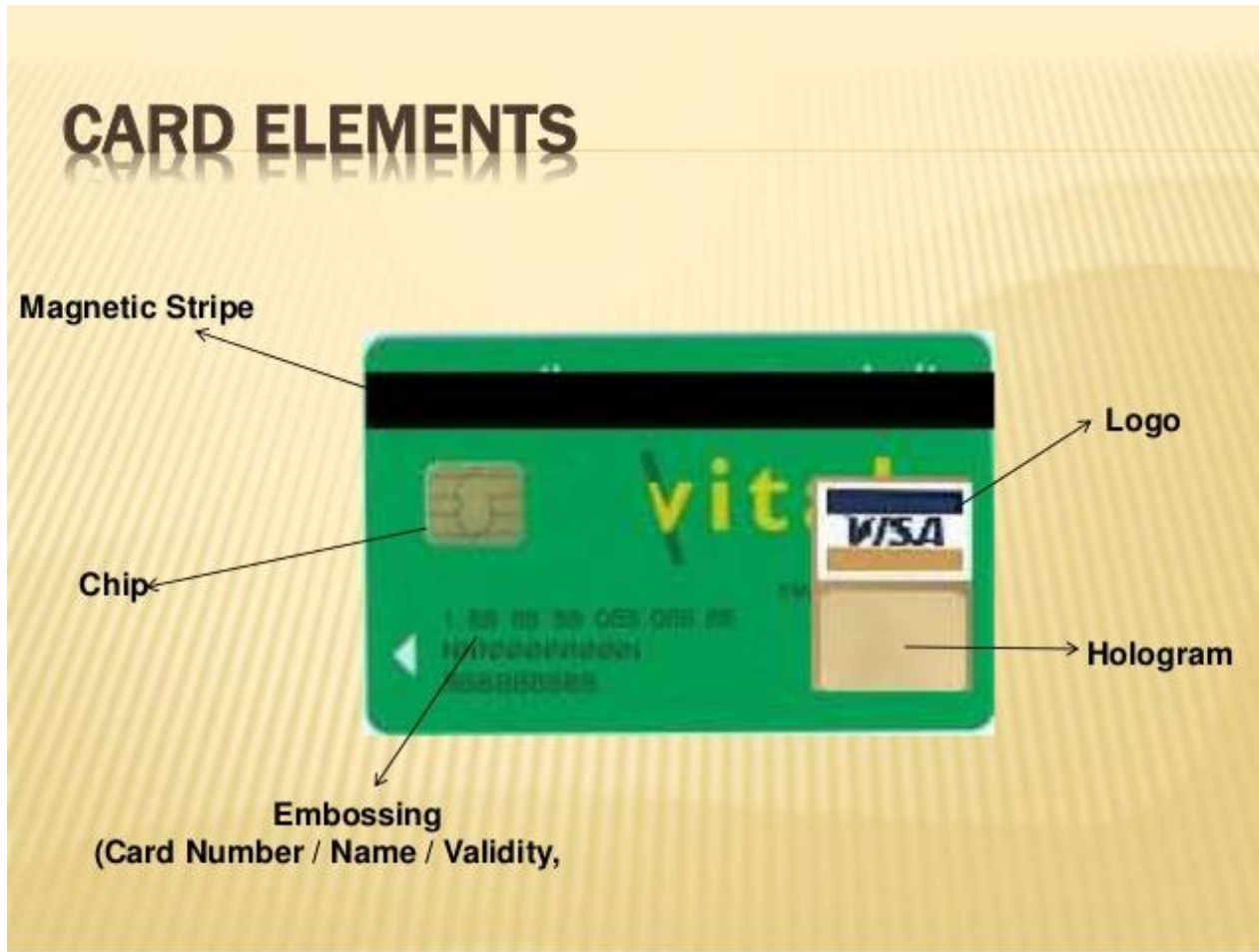
Magnetic Card



Reading Magnetic Card



SC & MC



Comparison

A smart card contains more information than a magnetic stripe card and it can be programmed for different applications. Some cards can contain programming and data to support multiple applications and some can be updated to add new applications after they are issued. Smart cards can be designed to be inserted into a slot and read by a special reader or to be read at a distance, such as at a toll booth. Cards can be disposable (as at a trade-show) or reloadable (for most applications).

Using smart card

- ▶ Dial a connection on a mobile telephone and be charged on a per-call basis
- ▶ Establish your identity when logging on to an Internet access provider or to an online bank
- ▶ Pay for parking at parking meters or to get on subways, trains, or buses
- ▶ Give hospitals or doctors personal data without filling out a form
- ▶ Make small purchases at electronic stores on the Web (a kind of cybercash)
- ▶ Buy gasoline at a gasoline station

▶ **THANK YOU FOR ATTENDING**