Gemalto Explains
Paying with your phone: The new mobile payment ecosystem

1. Mobile network operators have expertise with over-the-air phone subscriptions.
   - The consumer simply holds the phone near the payment terminal.
   - The handset has a secure mobile payment smart card chip.
   - Credit card details are stored in this chip.

2. Banks have expertise with credit cards.
   - The trusted third party can establish a secure environment on the secure card and the financial institution controls the credit card data.

3. To facilitate mobile payments, a trusted third party bridges multiple banks and operators...
   - ...placing credit card numbers on mobile phones...
   - ...while ensuring that consumer credit card information is completely secure.

Uses
The system works with any operator, network technology or financial institution.

Source: Gemalto
What is smart card technology?

Smart card technology uses a computer and software with 100s of built-in security features.

The contacts on the surface of the device are connected... The whole piece is embedded into a plastic card or hard token.

What is an NFC Secure Element?

A smart card chip that stores information, manages security and provides a firewall between NFC applications and other elements in the phone. It is installed in one of three ways:

1. **SIM/UICC cards**
   - Cards are removable

2. **Micro SD cards**
   - Chip wired into phone

3. **Embedded chip**