

Smart Cards

Olivier BOULET - Jérémy LARA

RFID Instanciación - NDEF Tag Emulation

- Writing
 - Only from Hexadecimal
- Reading
 - SmartPoster
 - Text
 - URI
 - Proprietary data
 - Everything else in string
- Emulation of a card
- Writing content
- Display of the data (only in hexa)

Choices of implementation

- RFID Instantiation

- 3 main operations
 - Initialization: allows reading different NDEF Tag without restarting the application
 - Reading: Smart (optimum) reading
 - Writing (Update)
- Reading then record's parsing

- NDEF Tag Emulation

- State Machine
 - Different states from the card reader

Difficulties

- RFID Instantiation

- Parsing the records, especially the records inside a Smart Poster
- Error handling
- Byte conversion from and to string in C

- NDEF Tag Emulation

- Hexadecimal
- Find the correct states
 - How to manage the inputs from the reader?
- Error code

Demonstration
