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Bootloader

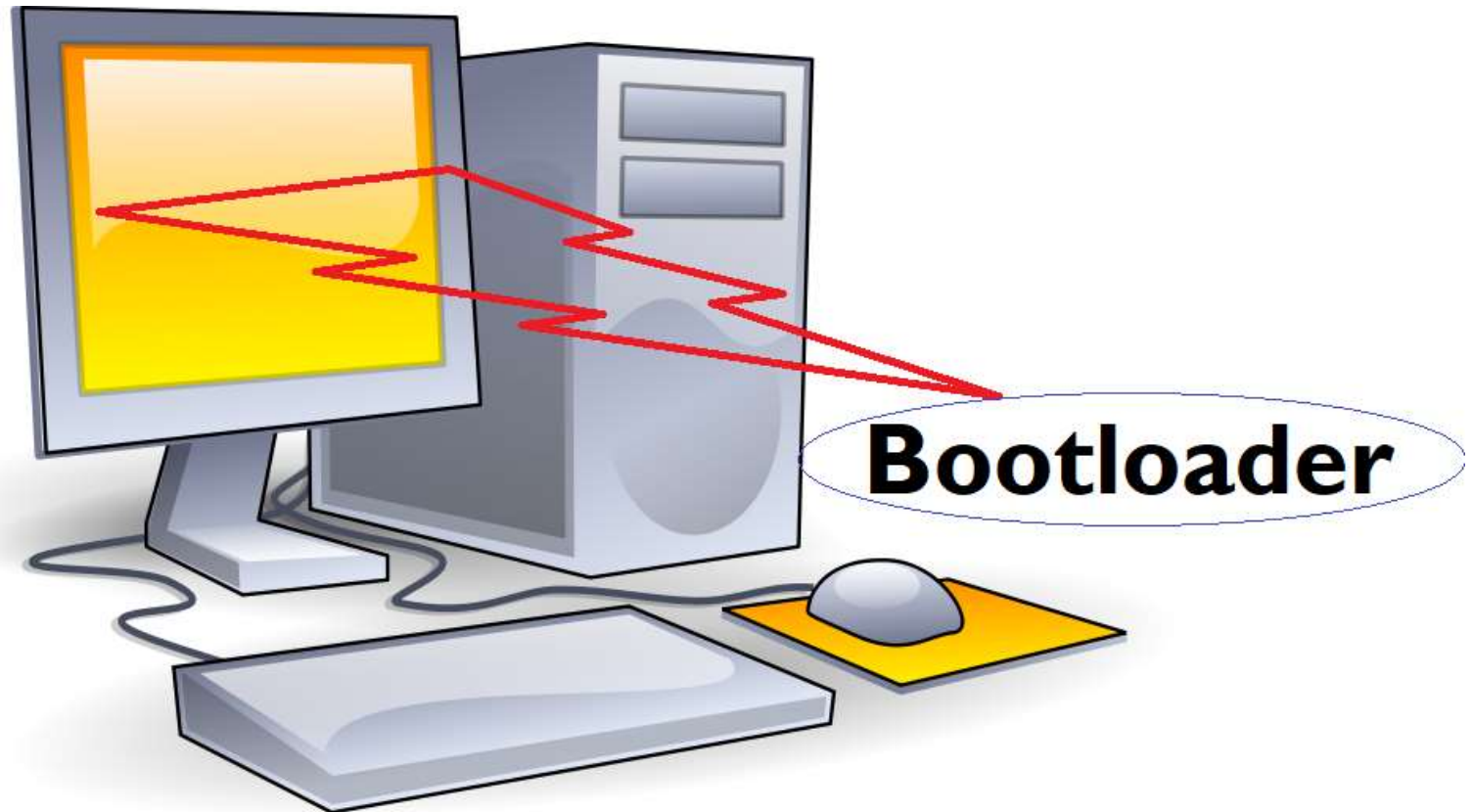
Many binary formats to use any application or firmware file, Majorly converting and using formats is

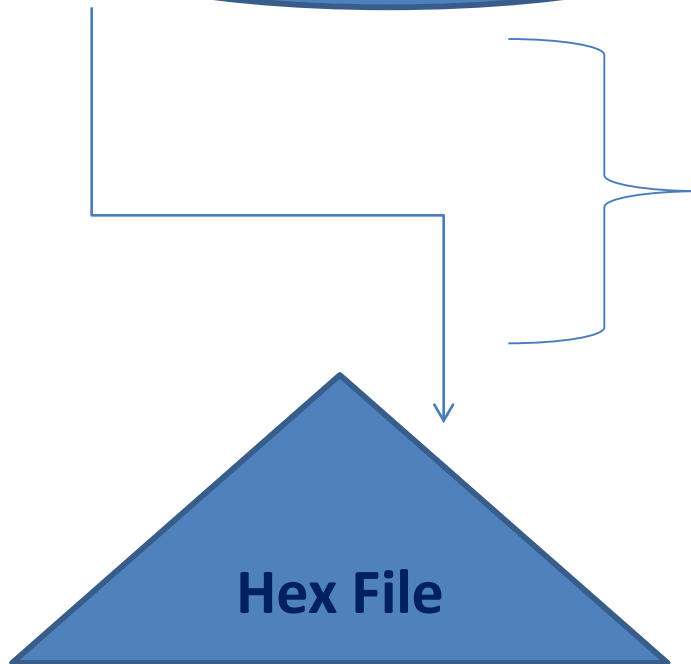
1. Hex format &
2. SRE format for the standards such as Intel and Motorola.

Request File Transfer

- The Request to **download** data by the tester to initiate the file to transfer from **Tester to ECU**

Assumption Scenario





Conversion to Hex file can be done by : Hex view Tool

Hex File

01 4D 13 DE 01 21 01 10 10 01 01

02 4D 12 DE 01 41 01 10 10 01 01

03 4D 15 DE 01 21 01 05 10 01 01

04 4D 17 DE 01 27 01 10 10 01 01

05 4D 18 DE 01 61 01 10 10 01 01

06 4D 12 DE 01 21 01 10 10 01 01

07 4D 1B DE 01 81 01 10 10 01 01

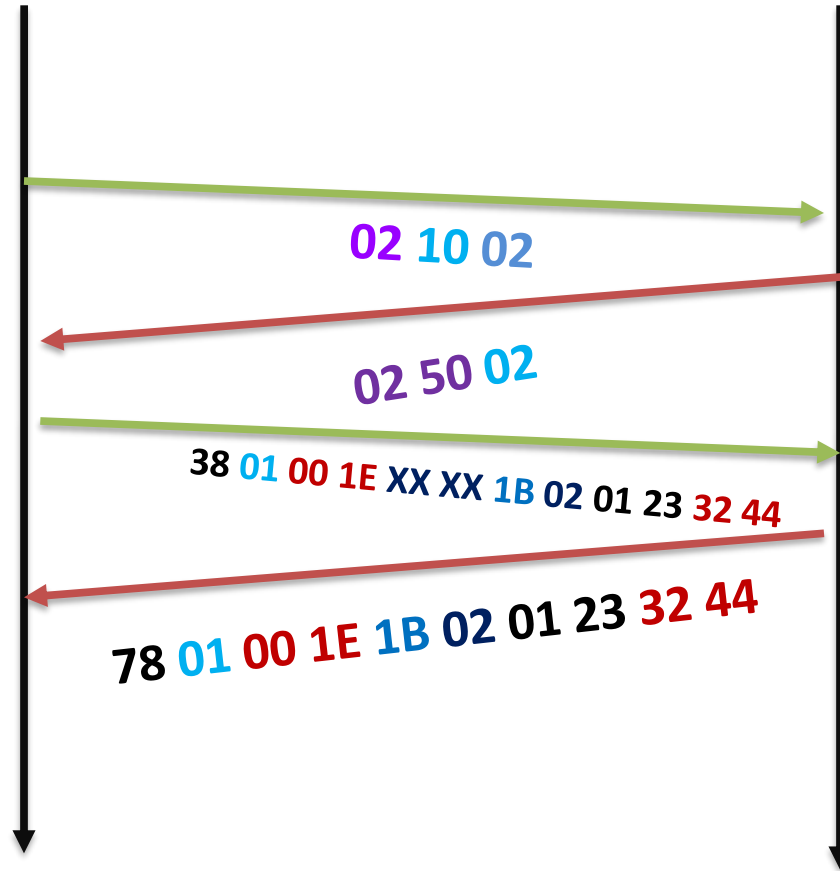
Terms – Request File Transfer

Data Parameter Name	Data Parameter Value(s)	Data Parameter Description
Mode of Operation	0x01	Add the File
File Path and Name Length	0x001E	The length of parameter File PathAndName is 30
File Path and Name	"E:\Folder_Name\Sub_FolderName\Filename.hex"	Path including the File name
Data Format Identifier	0x11	compressionMethod = 0x1X; encryptingMethod = 0xX1
File Size Parameter Length	0x02	The length of both File size parameters is 2 bytes
File Size Uncompressed	0xC350	80 Kbyte
File Size Compressed	0x7530	10 Kbyte

Transfer File Transfer



Positive Response





List of NRCs Supported

- **0x13 Incorrect Message Length**
- **0x22 Conditions Not Correct**
- **0x31 Request Out of Range**
- **0x33 Security Access Denied**
- **0x70 Upload Download Not Accepted**