Read Firmware version
GemCore Pro based readers

Procedure to read the firmware version:
After a successful call to ScardConnect PC/SC function, call SCardControl PC/SC function with the following parameters:
LONG ScardControl (
  SCARDHANDLE *hCard*,
  DWORD *dwControlCode*,
  LPCVOID *lpInBuffer*,
  DWORD *nInBufferSize*,
  LPVOID *lpOutBuffer*,
  DWORD *nOutBufferSize*,
  LPDWORD *lpBytesReturned*
);

Parameters:

hCard	[in] This is the reference value returned from SCardConnect.
dwControlCode	[in] IOCTL_SMARTCARD_VENDOR_IFD_EXCHANGE (see note 1).
lpInBuffer	[in] Pointer to a buffer containing a string of bytes representing the command. The read firmware command is 0x02.
nInBufferSize	[in] Size, in bytes, of the input buffer. The read firmware command length is 1.
lpOutBuffer	[out] Pointer to the output buffer. Must point to a valid buffer. This buffer contains a string of bytes representing the read firmware command response. The firmware version "GemKBDL-R1.00-YR" is coded in ASCII format as following : 0x47 0x65 0x6D 0x4B 0x42 0x44 0x4C 0x2D 0x52 0x31 0x2E 0x30 0x30 0x2D 0x59 0x52. The firmware version "GemKBDL-V1.00-YS" is coded in ASCII format as following : 0x47 0x65 0x6D 0x4B 0x42 0x44 0x4C 0x2D 0x56 0x31 0x2E 0x30 0x30 0x2D 0x59 0x53.
nOutBufferSize	[in] Size, in bytes, of the output buffer.
lpBytesReturned	[out] Pointer to a variable that receives the actual count of bytes returned by the function in the output buffer. Must be non-NULL pointer to a valid value. The read firmware response is 16 bytes length.

Returned values :

If the function ...	The returned value is ...
Succeeds	SCARD_S_SUCCESS (0L : 00000000h)
Fails	An error code (see the error codes list in PS/SC Specifications or in the "SCardErr.h" PC/SC header file)

Note 1 :

IOCTL_SMARTCARD_VENDOR_IFD_EXCHANGE is the function's control code
and it's vendor proprietary. It should be calculated through the following
SCARD_CTL_CODE macro :

```
#define FILE_DEVICE_SMARTCARD        0x00000031
#define FILE_ANY_ACCESS              0
#define METHOD_BUFFERED              0

#define SCARD_CTL_CODE(code)      CTL_CODE(FILE_DEVICE_SMARTCARD, \
                                  (code), \
                                  METHOD_BUFFERED, \
                                  FILE_ANY_ACCESS)
```

CTL_CODE : it's a Microsoft macro included in the "WinIOCTL.h" PC/SC header file.
Code : 2048d (Gemplus IFD exchange code).