

# GemTAG – SDK

## GemTAG Smart Card Software Development Kit



GemTAG SDK is a comprehensive set of tools, libraries and code samples for seamless integration of GemTAG readers with any Windows <sup>TM</sup> or Linux based application software

### The kit contains:

1. GemTAG Reader x501U (optional GemTAG x501S)
2. GemTAG SDK CD
3. Blank Mifare 1k Smart Cards (3 pieces)

### Special Features:

- All the software needed from the developer to start - DLL and ActiveX middleware FREE with the reader, sample code and developer tutorials included
- Supported OS - Windows 98 OSR2, ME, 2000, XP and Linux (experimental)

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### **GemTAG Smart Card Software Development Kit**

#### **Reader:**

The standard SDK pack includes GemTAG x501U contactless smart card reader. Optionally the GemTAG x501S contactless smart card reader could be included. For more information contact us.

#### **Cards:**

The toolkit includes 3 blank Mifare 1k smart cards.  
Supported cards are: Mifare Classic, Mifare Ultralight, Mifare 4K, Mifare Pro and Pro X, JCOP 30, JCOP 31, Philips I-CODE, Texas Instrument HF-I and more.

**NOTE:** The cards might not look exactly like the ones from the picture.

#### **Contents of the CD:**

##### Documentation

**G2KMACTX.chm** - Mifare ActiveX developer guide  
**G2KSCAPI.chm** - Mifare Sector API dll developer guide, describes G2KCAPI.dll.  
**ISO 14443-4 APDUManager.doc** - ISO 14443-4 ActiveX developer guide, describes GemTagTCL.dll  
**using custom commands.doc** - Description on how to send custom commands to the reader

##### APIs and DLLs

**GemTagTCL.dll** - ISO 14443 part 4 ActiveX – must be registered  
**G2KCAPI.dll** - most powerful Gemini API needed by GemTagTCL.dll  
**G2KMifareCOM.dll** - Mifare oriented ActiveX – must be registered  
Other Headers and libraries for Mifare Sector API DLL

##### Samples and test programs

**SECTOR API SAMPLE** – Gemini Sector Oriented  
**VB6 G2K ActiveX for Mifare Test** - VB 6 sample using G2KMifareCOM  
**VOPTestingT** - VB.Net Sample using GemTagTCL  
**GemTAG Test.EXE** - small test program for all GemTag readers, depends on G2KSCAPI.dll

##### Linux – pre-release of the GemTag readers software for Linux

##### Products

**CardExplorer** – stand alone program that allows viewing of the card content on per sector basis - must be registered

**NOTE:** The registration of all of the components is free of charge.

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