



# Gemalto .NET SDK

Software Development Kit for Gemalto .NET Smart Cards

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# Gemalto .NET SDK enables developers to create, debug, test and load applications for Gemalto .NET smart cards using a set of tools integrated within Microsoft's Visual Studio .NET environment

**Full programming functionality is provided within the Visual Studio development environment to streamline the development process**

Gemalto .NET smart card serves as a seamless companion to the Microsoft® .NET environment and service oriented architectures by extending the .NET programming model to the smart card. This innovative technology from Gemalto empowers application developers through the rich features of managed memory, security, and language integration. The .NET smart card also facilitates reusable components with a focus on core business services, leveraging Microsoft .NET data exchange standards and eliminating the need for smart card-specific infrastructure development.

Gemalto .NET smart card technology capitalizes on the secure and portable aspects of the Common Language Infrastructure (CLI) to support application development in C# using the .NET Framework. The .NET smart card technology also supports multiple applications running on the same card simultaneously while isolating each application to ensure application security and integrity.

The SDK leverages enhancements to Visual Studio .NET, making it easy to integrate smart card applications with other .NET based technologies such as Smart Clients, ASP.NET Web Services, etc.

## > Features & Benefits

- Development using Visual Studio .NET enables use of Microsoft's Web Services Enhancements (WSE) so that smart card applications can be easily integrated into solutions based on web services.
- Enhancements to Visual Studio .NET offers a seamless environment to develop, debug,



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test and load applications on the Gemalto .NET smart card.

- Card Explorer running as a plug-in to Visual Studio .NET or standalone can efficiently manage the contents of a Gemalto .NET smart card.
- Templates are included to create server applications for the .NET smart card and client applications that can access services on the card.
- Smart card applications can be easily integrated with other .NET based technologies such as Smart Clients, ASP.NET Web Services, etc., with the ability to develop, debug, load, and test on the card.

## > SDK Components

- Smart Card .NET Framework
- Card Explorer - GUI tool for card content management
- Documentation, formatted as MS Help files: .NET SmartCard Overview, .NET Smart Card Framework & .NET Smart Card Client API
- Microsoft Visual Studio .NET Plug-In (\*) - Will add the card explorer as a plug-in in VS .NET 2003 or 2005.
- Templates and Examples for on-card and off-card applications (\*)

## > System Requirements

- Windows Operating System: Windows 2000 SP6, Windows XP SP2, Windows Server 2003
- Microsoft .NET Framework versions 1.1 or 2.0
- Integrates with Visual Studio .NET 2003 & 2005 (Visual Studio is not required to use the Card Explorer)

(\*) Microsoft Visual Studio .NET (2003 or 2005) must be preinstalled