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 environments

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

Gemalto .NET smart card devices operate as a seamless companion to the Microsoft® .NET environment and service oriented architecture by extending the .NET programming model to the smart card module. Gemalto .NET smart card technology is integrated in Microsoft Base Smart Card Cryptographic Service Provider (CSP). This innovative technology empowers application developers through the rich features of managed memory, security, and language integration. It 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. It also enables multiple applications to run on the same card simultaneously and isolates each one to ensure application security and integrity. The Gemalto .NET Software Development Kit (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.
- Extensions to Visual Studio .NET offer a seamless environment to develop, debug, test and load applications on the Gemalto .NET smart card.

Smart Card applications can be easily integrated with other .NET based technologies such as Smart Clients, ASP.NET Web Services, etc.

- 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

- .NET Smart Card Framework
- Card Explorer - GUI tool for card content management
- Documentation, formatted as MS Help files: .NET Smart Card 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 Vista®, Windows XP SP2, Windows Server 2003, Windows 2000 SP6
- 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

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