Smart Card Functions

The Smart Card SDK provides the following functions.

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| **Function** | **Description** |
| [**GetOpenCardName**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa375446(v=vs.85).aspx) | Replaced by **[SCardUIDlgSelectCard](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379805(v=vs.85).aspx)**, which displays the smart card**Select Card** dialog box. |
| [**SCardAccessStartedEvent**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379466(v=vs.85).aspx) | Gets an event handle when the starting of a smart card resource manager is signaled. |
| [**SCardAddReaderToGroup**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379468(v=vs.85).aspx) | Adds a [*reader*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721604(v=vs.85).aspx#_security_reader_gly) to a reader group. |
| [**SCardAudit**](http://msdn.microsoft.com/en-us/library/windows/desktop/jj553606(v=vs.85).aspx) | Writes event messages to the Windows application log Microsoft-Windows-SmartCard-Audit/Authentication. |
| [**SCardBeginTransaction**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379469(v=vs.85).aspx) | Starts a *[transaction](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721627(v=vs.85).aspx" \l "_security_transaction_gly)*. |
| [**SCardCancel**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379470(v=vs.85).aspx) | Terminates all outstanding actions within a [*context*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721572(v=vs.85).aspx#_security_context_gly). |
| **SCardCancelTransaction** | Reserved for future use. |
| [**SCardConnect**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379473(v=vs.85).aspx) | Establishes a connection between the calling application and a smart card. |
| [**SCardControl**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379474(v=vs.85).aspx) | Gets direct control of the reader after **[SCardConnect](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379473(v=vs.85).aspx)** is called. |
| [**SCardDisconnect**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379475(v=vs.85).aspx) | Terminates a connection between the calling application and a smart card. |
| [**SCardEndTransaction**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379477(v=vs.85).aspx) | Completes a *[transaction](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721627(v=vs.85).aspx" \l "_security_transaction_gly)*. |
| [**SCardEstablishContext**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379479(v=vs.85).aspx) | Establishes a [*resource manager context*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721604(v=vs.85).aspx#_security_resource_manager_context_gly) for accessing the smart card database. |
| [**SCardForgetCardType**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379482(v=vs.85).aspx) | Removes a previously defined smart card from the [*smart card subsystem*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721625(v=vs.85).aspx#_security_smart_card_subsystem_gly). |
| [**SCardForgetReader**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379484(v=vs.85).aspx) | Removes a previously defined reader from the smart card subsystem. |
| [**SCardForgetReaderGroup**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379486(v=vs.85).aspx) | Removes a previously defined reader group from the smart card subsystem. |
| [**SCardFreeMemory**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379488(v=vs.85).aspx) | Releases memory allocated by resource manager. |
| [**SCardGetAttrib**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379559(v=vs.85).aspx) | Gets the current reader's attributes from a given [*reader*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721604(v=vs.85).aspx#_security_reader_gly), driver, or [*smart card*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721625(v=vs.85).aspx#_security_smart_card_gly). |
| [**SCardGetCardTypeProviderName**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379655(v=vs.85).aspx) | Gets the provider name given a card name and provider type. |
| [**SCardGetDeviceTypeId**](http://msdn.microsoft.com/en-us/library/windows/desktop/hh448499(v=vs.85).aspx) | Gets the device type identifier of the card reader for the given reader name. This function does not affect the state of the reader. |
| [**SCardGetProviderId**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379761(v=vs.85).aspx) | Gets the identifier (GUID) of the [*primary service provider*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721603(v=vs.85).aspx#_security_primary_service_provider_gly) for a smart card. |
| [**SCardGetReaderDeviceInstanceId**](http://msdn.microsoft.com/en-us/library/windows/desktop/hh448500(v=vs.85).aspx) | Gets the device instance identifier of the card reader for the given reader name. This function does not affect the state of the reader. |
| [**SCardGetReaderIcon**](http://msdn.microsoft.com/en-us/library/windows/desktop/hh448501(v=vs.85).aspx) | Gets an icon of the smart card reader for a given reader's name. |
| [**SCardGetStatusChange**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379773(v=vs.85).aspx) | Blocks execution until status of the readers changes. |
| [**SCardGetTransmitCount**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa965819(v=vs.85).aspx) | Retrieves the number of transmit operations that have completed since the specified card reader was inserted. |
| [**SCardIntroduceCardType**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379784(v=vs.85).aspx) | Introduces a new smart card to the [*smart card*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721625(v=vs.85).aspx#_security_smart_card_gly) subsystem. |
| [**SCardIntroduceReader**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379786(v=vs.85).aspx) | Introduces a new reader to the smart card subsystem. |
| [**SCardIntroduceReaderGroup**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379787(v=vs.85).aspx) | Introduces a new reader group to the smart card subsystem. |
| [**SCardIsValidContext**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379788(v=vs.85).aspx) | Verifies a smart card context handle. |
| [**SCardListCards**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379789(v=vs.85).aspx) | Provides a list of smart cards already introduced to the subsystem. |
| [**SCardListInterfaces**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379790(v=vs.85).aspx) | Provides a list of interfaces supplied by a given smart card. |
| [**SCardListReaderGroups**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379792(v=vs.85).aspx) | Provides a list of reader groups already introduced to the subsystem. |
| [**SCardListReaders**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379793(v=vs.85).aspx) | Provides a list of readers already introduced to the subsystem. |
| [**SCardListReadersWithDeviceInstanceId**](http://msdn.microsoft.com/en-us/library/windows/desktop/hh448502(v=vs.85).aspx) | Gets the list of readers that have provided a device instance identifier. This function does not affect the state of the reader. |
| [**SCardLocateCards**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379794(v=vs.85).aspx) | Locates the cards that match a given [*ATR string*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721532(v=vs.85).aspx#_security_atr_string_gly). |
| [**SCardLocateCardsByATR**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379796(v=vs.85).aspx) | Locates the cards that match a given [*ATR string*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721532(v=vs.85).aspx#_security_atr_string_gly). |
| [**SCardReadCache**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa965820(v=vs.85).aspx) | Retrieves the value portion of a name-value pair from the global cache maintained by the [Smart Card Resource Manager](http://msdn.microsoft.com/en-us/library/windows/desktop/aa380148(v=vs.85).aspx). |
| [**SCardReconnect**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379797(v=vs.85).aspx) | Reestablishes an existing connection from the calling application to the smart card. |
| [**SCardReleaseContext**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379798(v=vs.85).aspx) | Closes an established [*resource manager context*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721604(v=vs.85).aspx#_security_resource_manager_context_gly). |
| [**SCardReleaseStartedEvent**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379799(v=vs.85).aspx) | Decrements the reference count for a handle acquired by using the[**SCardAccessStartedEvent**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379466(v=vs.85).aspx) function. |
| [**SCardRemoveReaderFromGroup**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379800(v=vs.85).aspx) | Removes a reader from an existing reader group. |
| [**SCardSetAttrib**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379801(v=vs.85).aspx) | Sets a given reader attribute. |
| [**SCardSetCardTypeProviderName**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379802(v=vs.85).aspx) | Sets the provider name for a card name and provider type. |
| [**SCardStatus**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379803(v=vs.85).aspx) | Gets the current [*state*](http://msdn.microsoft.com/en-us/library/windows/desktop/ms721625(v=vs.85).aspx#_security_state_gly) of a reader. |
| [**SCardTransmit**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379804(v=vs.85).aspx) | Sends a service request to a smart card. |
| [**SCardUIDlgSelectCard**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa379805(v=vs.85).aspx) | Displays the smart card **Select Card** dialog box. |
| [**SCardWriteCache**](http://msdn.microsoft.com/en-us/library/windows/desktop/aa965821(v=vs.85).aspx) | Writes a name-value pair from a smart card to the global cache maintained by the [Smart Card Resource Manager](http://msdn.microsoft.com/en-us/library/windows/desktop/aa380148(v=vs.85).aspx). |