

sdi_emv.h File Reference

```
#include "emv/EMV_SDI.h"
```

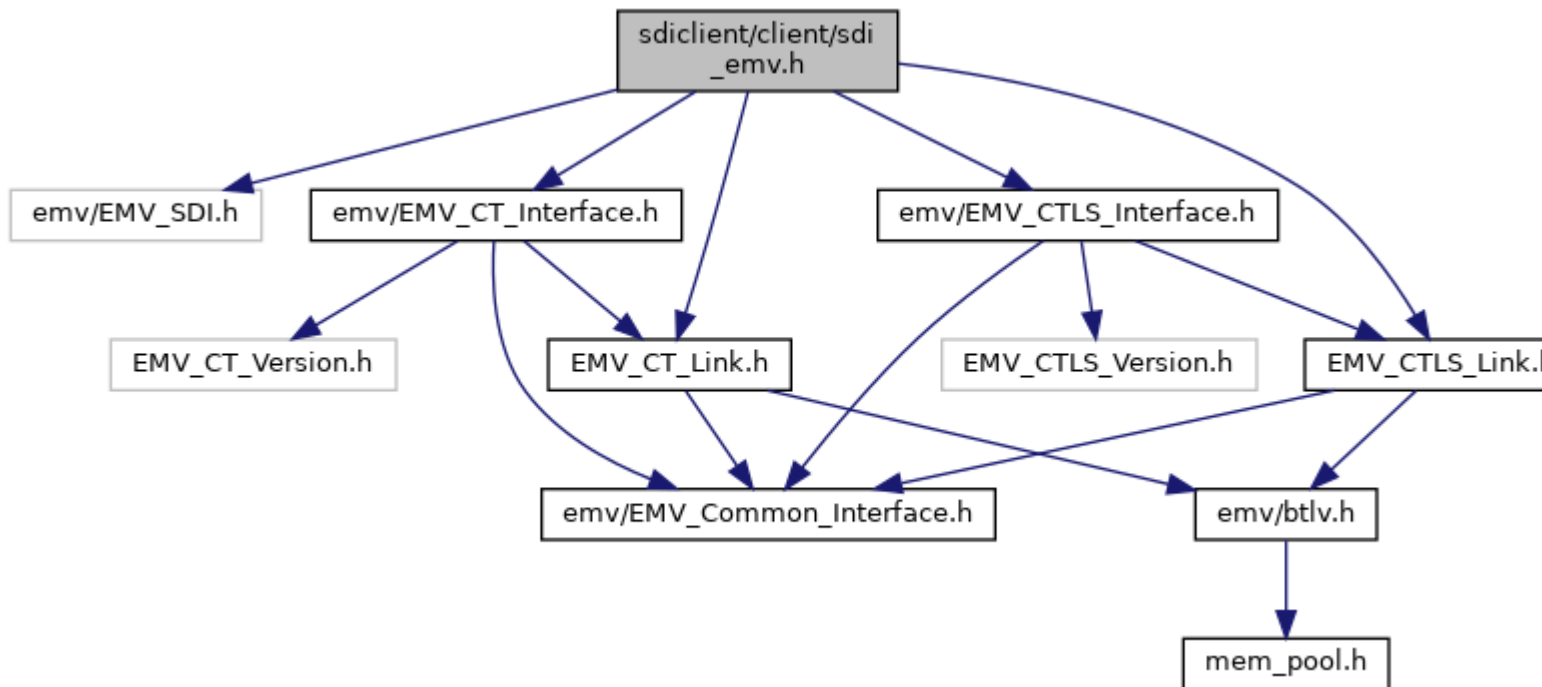
```
#include "emv/EMV_CT_Interface.h"
```

```
#include "emv/EMV_CT_Link.h"
```

```
#include "emv/EMV_CTLS_Interface.h"
```

```
#include "emv/EMV_CTLS_Link.h"
```

Include dependency graph for sdi_emv.h:



[Go to the source code of this file.](#)

Macros

```
SDI\_CT\_Init\_Framework(numberOfAIDs, EMV_Callback, externalData, options)  
#define SDI\_CT\_Init\_Framework\_Client(EMV_CT_FRAMEWORK_VERSION, (numberOfAIDs),  
(EMV_Callback), (externalData), (options))
```

```

    SDI\_CTLs\_Init\_Framework(numberOfAIDs, EMV_Callback, externalData, options, ulResult)
#define SDI\_CTLs\_Init\_Framework\_Client(EMV_CTLs_FRAMEWORK_VERSION, (numberOfAIDs),
    (EMV_Callback), (externalData), (options),(ulResult))

```

Functions

```

int          SDI\_Client\_Init (const char *options)
            Initialize SDI client. More...

EMV\_ADK\_INFO SDI\_CT\_Init\_Framework\_Client (const char *version, unsigned char numberOfAIDs,
EMV\_CT\_CALLBACK\_FnT EMV_Callback, void *externalData, unsigned long options)

void         SDI\_CT\_Exit\_Framework (void)
void         SDI\_CT\_Exit\_Framework\_extended (unsigned char options)
const char * SDI\_CT\_CLIENT\_GetVersion (void)
const char * SDI\_CT\_FRAMEWORK\_GetVersion (void)

EMV\_ADK\_INFO SDI\_CT\_MapVirtualTerminal (EMV\_ADK\_VIRTUALTERMMAP\_TYPE
VirtualTermMapType, unsigned char *TLVSwitchValue, unsigned int TLVBufLen,
unsigned char VirtualTerminal)

EMV\_ADK\_INFO SDI\_CT\_StoreCAPKey (EMV\_ADK\_HANDLE\_RECORD\_TYPE eHandleCAPKeyType,
const EMV\_CT\_CAPKEY\_TYPE *pxKeyData)

EMV\_ADK\_INFO SDI\_CT\_ReadCAPKeys (EMV\_CT\_CAPREAD\_TYPE *pxKeyData, unsigned char
*puCMaxnum)

EMV\_ADK\_INFO SDI\_CT\_GetCAPKeyInfo (EMV\_CT\_CAPREAD\_TYPE *pxKeyInfo, unsigned capacity,
unsigned offset, unsigned *received, unsigned *configured)

EMV\_ADK\_INFO SDI\_CT\_SetTermData (EMV\_CT\_TERMDATA\_TYPE *pxTermData)

EMV\_ADK\_INFO SDI\_CT\_GetTermData (EMV\_CT\_TERMDATA\_TYPE *pxTermData)

EMV\_ADK\_INFO SDI\_CT\_SetAppliData (EMV\_ADK\_HANDLE\_RECORD\_TYPE eHandleAppliType,
EMV\_CT\_APPLI\_TYPE *pxAID, EMV\_CT\_APPLIDATA\_TYPE *pxAppliData)

EMV\_ADK\_INFO SDI\_CT\_GetAppliData (EMV\_ADK\_READAPPLI\_TYPE eReadAppliType,
EMV\_CT\_APPLI\_TYPE *pxAID, EMV\_CT\_APPLIDATA\_TYPE *pxAppliData)

EMV\_ADK\_INFO SDI\_CT\_ApplyConfiguration (unsigned long options)

EMV\_ADK\_INFO SDI\_CT\_StartTransaction (EMV\_CT\_SELECT\_TYPE *pxSelectInput,
EMV\_CT\_SELECTRES\_TYPE *pxSelectRes)

EMV\_ADK\_INFO SDI\_CT\_GetCandidateData (EMV\_CT\_CANDIDATE\_DATA\_TYPE *candidateData)

EMV\_ADK\_INFO SDI\_CT\_ContinueOffline (EMV\_CT\_TRANSAC\_TYPE *pxTransactionInput,
EMV\_CT\_TRANSRES\_TYPE *pxTransRes, EMV\_SDI\_CT\_TRANSRES\_TYPE
*pxSdiTransRes)

EMV\_ADK\_INFO SDI\_CT\_ContinueOnline (EMV\_CT\_HOST\_TYPE *pxOnlineInput,
EMV\_CT\_TRANSRES\_TYPE *pxTransRes, EMV\_SDI\_CT\_TRANSRES\_TYPE
*pxSdiTransRes)

```

[EMV_ADK_INFO](#) [SDI_CT_updateTxnTags](#) (unsigned long options, unsigned char *tlvBuffer, unsigned short bufferLength)

[EMV_ADK_INFO](#) [SDI_CT_CheckSupportedAID](#) (const [EMV_CT_APPLI_TYPE](#) *aid, unsigned char ASI, const unsigned char *defaultLabel, [EMV_CT_CandListType](#) *pCandList, unsigned char MaxCand, unsigned char *pCandidateCount, unsigned short *sw12, const unsigned char *adtCardTagList)

[EMV_ADK_INFO](#) [SDI_CT_EndTransaction](#) (unsigned long options)

unsigned char [SDI_CT_SmartISO](#) (unsigned char ucOptions, unsigned short usInDataLen, unsigned char *pucDataIn, unsigned short *pusOutDataLen, unsigned char *pucDataOut, unsigned short usOutBufferLength)

unsigned char [SDI_CT_SmartDetect](#) (unsigned char ucOptions)

unsigned char [SDI_CT_SmartReset](#) (unsigned char ucOptions, unsigned char *pucATR, unsigned long *pnATRLength)

unsigned char [SDI_CT_SmartPowerOff](#) (unsigned char ucOptions)

unsigned char [SDI_CT_Send_PIN_Offline](#) (unsigned char *pucPINResultData)

unsigned char [SDI_CT_LED](#) (unsigned char ucLedId, unsigned char ucLedState, unsigned char ucLedColor, unsigned long ulTimeoutMs)

[EMV_ADK_INFO](#) [SDI_CT_SER_Init_Framework](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

void [SDI_CT_SER_Exit_Framework](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_MapVirtualTerminal](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_StoreCAPKey](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_ReadCAPKeys](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_SetTermData](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_GetTermData](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_SetAppliData](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_GetAppliData](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_StartTransaction](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_GetCandidateData](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_ContinueOffline](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CT_SER_ContinueOnline](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO SDI_CT_SER_updateTxnTags](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO SDI_CT_SER_CheckSupportedAID](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO SDI_CT_SER_EndTransaction](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CT_SER_SmartISO](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CT_SER_SmartDetect](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CT_SER_SmartReset](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CT_SER_SmartPowerOff](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CT_SER_SmartPIN](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CT_SER_Send_PIN_Offline](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO SDI_CTLs_Init_Framework_Client](#) (const char *version, unsigned char numberOfAIDs, [EMV_CTLs_CALLBACK_FnT](#) EMV_Callback, void *externalData, unsigned long options, unsigned long *ulResult)

void [SDI_CTLs_Exit_Framework](#) (void)

void [SDI_CTLs_Exit_Framework_extended](#) (unsigned char options)

const char * [SDI_CTLs_CLIENT_GetVersion](#) (void)

const char * [SDI_CTLs_FRAMEWORK_GetVersion](#) (void)

[EMV_ADK_INFO SDI_CTLs_MapVirtualTerminal](#) ([EMV_ADK_VIRTUALTERMMAP_TYPE](#) VirtualTermMapType, unsigned char *TLVSwitchValue, unsigned int TLVBufLen, unsigned char VirtualTerminal)

[EMV_ADK_INFO SDI_CTLs_StoreCAPKey](#) ([EMV_ADK_HANDLE_RECORD_TYPE](#) eHandleCAPKeyType, const [EMV_CTLs_CAPKEY_TYPE](#) *pxKeyData)

[EMV_ADK_INFO SDI_CTLs_ReadCAPKeys](#) ([EMV_CTLs_CAPREAD_TYPE](#) *pxKeyData, unsigned char *pucMaxnum)

[EMV_ADK_INFO SDI_CTLs_GetCAPKeyInfo](#) ([EMV_CTLs_CAPREAD_TYPE](#) *pxKeyInfo, unsigned capacity, unsigned offset, unsigned *received, unsigned *configured)

[EMV_ADK_INFO SDI_CTLs_SetTermData](#) ([EMV_CTLs_TERMDATA_TYPE](#) *pxTermData)

[EMV_ADK_INFO SDI_CTLs_GetTermData](#) ([EMV_CTLs_TERMDATA_TYPE](#) *pxTermData)

[EMV_ADK_INFO SDI_CTLs_SetAppliDataSchemeSpecific](#) ([EMV_ADK_HANDLE_RECORD_TYPE](#) eHandleAppliType, [EMV_CTLs_APPLI_KERNEL_TYPE](#) *pxAID, [EMV_CTLs_APPLIDATA_SCHEME_SPECIFIC_TYPE](#) *pxAppliData)

[EMV_ADK_INFO SDI_CTLs_GetAppliDataSchemeSpecific](#) ([EMV_ADK_READAPPLI_TYPE](#) eReadAppliType, [EMV_CTLs_APPLI_KERNEL_TYPE](#) *pxAID, [EMV_CTLs_APPLIDATA_SCHEME_SPECIFIC_TYPE](#) *pxAppliData)

[EMV_ADK_INFO](#) [SDI_CTL5_ApplyConfiguration](#) (unsigned long options)

[EMV_ADK_INFO](#) [SDI_CTL5_SetupTransaction](#) ([EMV_CTL5_START_TYPE](#) *pxStartInput, [EMV_CTL5_STARTRES_TYPE](#) *pxStartRes)

[EMV_ADK_INFO](#) [SDI_CTL5_ContinueOffline](#) ([EMV_CTL5_TRANSRES_TYPE](#) *pxTransRes, [EMV_SDI_CTL5_TRANSRES_TYPE](#) *pxSdiTransRes)

[EMV_ADK_INFO](#) [SDI_CTL5_ContinueOfflineExt](#) ([EMV_CTL5_CONT_OFFL_TYPE](#) *pxContOfflInput, [EMV_CTL5_TRANSRES_TYPE](#) *pxTransRes, [EMV_SDI_CTL5_TRANSRES_TYPE](#) *pxSdiTransRes)

[EMV_ADK_INFO](#) [SDI_CTL5_ContinueOnline](#) ([EMV_CTL5_HOST_TYPE](#) *pxOnlineInput, [EMV_CTL5_TRANSRES_TYPE](#) *pxTransRes, [EMV_SDI_CTL5_TRANSRES_TYPE](#) *pxSdiTransRes)

[EMV_ADK_INFO](#) [SDI_CTL5_EndTransaction](#) (unsigned long options)

unsigned char [SDI_CTL5_SmartISO](#) (unsigned char ucOptions, unsigned short usInDataLen, unsigned char *pucDataIn, unsigned short *pusOutDataLen, unsigned char *pucDataOut, unsigned short usOutBufferLength)

unsigned char [SDI_CTL5_SmartReset](#) (unsigned char ucOptions, unsigned char *pucCardInfo, unsigned long *pnInfoLength)

unsigned char [SDI_CTL5_SmartPowerOff](#) (unsigned char ucOptions)

unsigned char [SDI_CTL5_CardRemoval](#) (long timeoutMillis)

unsigned char [SDI_CTL5_LED](#) (unsigned char ucLedId, unsigned char ucLedState)

unsigned char [SDI_CTL5_LED_SetMode](#) (unsigned char ucLedMode)

unsigned char [SDI_CTL5_Break](#) (void)

[EMV_ADK_INFO](#) [SDI_CTL5_GetCandidateData](#) ([EMV_CTL5_CANDIDATE_DATA_TYPE](#) *candidateData)

[EMV_ADK_INFO](#) [SDI_CTL5_SER_Init_Framework](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

void [SDI_CTL5_SER_Exit_Framework](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CTL5_SER_MapVirtualTerminal](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CTL5_SER_StoreCAPKey](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CTL5_SER_ReadCAPKeys](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CTL5_SER_SetTermData](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CTL5_SER_GetTermData](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CTL5_SER_SetAppliDataSchemeSpecific](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO](#) [SDI_CTL5_SER_GetAppliDataSchemeSpecific](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO SDI_CTLs_SER_SetupTransaction](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO SDI_CTLs_SER_ContinueOffline](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO SDI_CTLs_SER_ContinueOnline](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO SDI_CTLs_SER_EndTransaction](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CTLs_SER_SmartISO](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CTLs_SER_SmartReset](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CTLs_SER_SmartPowerOff](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CTLs_SER_CardRemoval](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CTLs_SER_LED_SetMode](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CTLs_SER_LED](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

unsigned char [SDI_CTLs_SER_Break](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

[EMV_ADK_INFO SDI_CTLs_SER_GetCandidateData](#) (const unsigned char *dataIn, unsigned short dataInLen, unsigned char *dataOut, unsigned short *dataOutLen)

Macro Definition Documentation

? [SDI_CT_Init_Framework](#)

```
#define
SDI_CT_Init_Framework ( numberOfAIDs,
                        EMV_Callback,
                        externalData,
                        options
                        ) SDI\_CT\_Init\_Framework\_Client(EMV_CT_FRAMEWORK_VERSION,
                        (numberOfAIDs), (EMV_Callback), (externalData), (options))
```

? [SDI_CTLs_Init_Framework](#)

```
#define
SDI_CTLs_Init_Framework ( numberOfAIDs,
                          EMV_Callback,
                          externalData,
```

options,

ulResult

[SDI_CTLS_Init_Framework_Client](#)

) (EMV_CTLS_FRAMEWORK_VERSION, (numberOfAIDs),
(EMV_Callback), (externalData), (options),(ulResult))

Function Documentation

? [SDI_Client_Init\(\)](#)

int SDI_Client_Init (const char * *options*)

Initialize SDI client.

Initializes EMV-ADK link libraries to use SDI server. It should be called at application start-up if SDI server use is wanted (although some functionality might be available without).

Author

GSS R&D Germany

Parameters

[in] options future use

Returns

0=okay, else error

? [SDI_CT_ApplyConfiguration\(\)](#)

[EMV_ADK_INFO](#) SDI_CT_ApplyConfiguration (unsigned long *options*)

? [SDI_CT_CheckSupportedAID\(\)](#)

[EMV_ADK_INFO](#) SDI_CT_CheckSupportedAID (const [EMV_CT_APPLI_TYPE](#) * *aid*,
unsigned char *ASI*,
const unsigned char * *defaultLabel*,
[EMV_CT_CandListType](#) * *pCandList*,
unsigned char *MaxCand*,
unsigned char * *pCandidateCount*,
unsigned short * *sw12*,
const unsigned char * *adtCardTagList*
)

? SDI_CT_CLIENT_GetVersion()

const char* SDI_CT_CLIENT_GetVersion (void)

? SDI_CT_ContinueOffline()

[EMV_ADK_INFO](#) SDI_CT_ContinueOffline ([EMV_CT_TRANSAC_TYPE](#) * *pxTransactionInput*,
[EMV_CT_TRANSRES_TYPE](#) * *pxTransRes*,
[EMV_SDI_CT_TRANSRES_TYPE](#) * *pxSdiTransRes*
)

? SDI_CT_ContinueOnline()

[EMV_ADK_INFO](#) SDI_CT_ContinueOnline ([EMV_CT_HOST_TYPE](#) * *pxOnlineInput*,
[EMV_CT_TRANSRES_TYPE](#) * *pxTransRes*,
[EMV_SDI_CT_TRANSRES_TYPE](#) * *pxSdiTransRes*
)

? SDI_CT_EndTransaction()

[EMV_ADK_INFO](#) SDI_CT_EndTransaction (unsigned long *options*)

? SDI_CT_Exit_Framework()

void SDI_CT_Exit_Framework (void)

? SDI_CT_Exit_Framework_extended()

void SDI_CT_Exit_Framework_extended (unsigned char *options*)

? SDI_CT_FRAMEWORK_GetVersion()

const char* SDI_CT_FRAMEWORK_GetVersion (void)

? SDI_CT_GetAppliData()

[EMV_ADK_INFO](#) SDI_CT_GetAppliData ([EMV_ADK_READAPPLI_TYPE](#) *eReadAppliType*,

[EMV_CT_APPLI_TYPE](#) * *pxAID*,
[EMV_CT_APPLIDATA_TYPE](#) * *pxAppliData*
)

? [SDI_CT_GetCandidateData\(\)](#)

[EMV_ADK_INFO](#) [SDI_CT_GetCandidateData](#) ([EMV_CT_CANDIDATE_DATA_TYPE](#) * *candidateData*)

? [SDI_CT_GetCAPKeyInfo\(\)](#)

[EMV_ADK_INFO](#) [SDI_CT_GetCAPKeyInfo](#) ([EMV_CT_CAPREAD_TYPE](#) * *pxKeyInfo*,
unsigned *capacity*,
unsigned *offset*,
unsigned * *received*,
unsigned * *configured*
)

? [SDI_CT_GetTermData\(\)](#)

[EMV_ADK_INFO](#) [SDI_CT_GetTermData](#) ([EMV_CT_TERMDATA_TYPE](#) * *pxTermData*)

? [SDI_CT_Init_Framework_Client\(\)](#)

[EMV_ADK_INFO](#) [SDI_CT_Init_Framework_Client](#) (const char * *version*,
unsigned char *numberOfAIDs*,
[EMV_CT_CALLBACK_FnT](#) *EMV_Callback*,
void * *externalData*,
unsigned long *options*
)

? [SDI_CT_LED\(\)](#)

unsigned char [SDI_CT_LED](#) (unsigned char *ucLedId*,
unsigned char *ucLedState*,
unsigned char *ucLedColor*,
unsigned long *ulTimeoutMs*
)

? SDI_CT_MapVirtualTerminal()

[EMV_ADK_INFO](#) SDI_CT_MapVirtualTerminal ([EMV_ADK_VIRTUALTERMMAP_TYPE](#) *VirtualTermMapType*,
unsigned char * *TLVSwitchValue*,
unsigned int *TLVBufLen*,
unsigned char *VirtualTerminal*
)

? SDI_CT_ReadCAPKeys()

[EMV_ADK_INFO](#) SDI_CT_ReadCAPKeys ([EMV_CT_CAPREAD_TYPE](#) * *pxKeyData*,
unsigned char * *pucMaxnum*
)

? SDI_CT_Send_PIN_Offline()

unsigned char SDI_CT_Send_PIN_Offline (unsigned char * *pucPINResultData*)

? SDI_CT_SER_CheckSupportedAID()

[EMV_ADK_INFO](#) SDI_CT_SER_CheckSupportedAID (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CT_SER_ContinueOffline()

[EMV_ADK_INFO](#) SDI_CT_SER_ContinueOffline (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CT_SER_ContinueOnline()

[EMV_ADK_INFO](#) SDI_CT_SER_ContinueOnline (const unsigned char * *dataIn*,
unsigned short *dataInLen*,

```
        unsigned char *    dataOut,
        unsigned short *   dataOutLen
    )
```

? SDI_CT_SER_EndTransaction()

```
EMV\_ADK\_INFO SDI_CT_SER_EndTransaction ( const unsigned char * dataIn,
        unsigned short    dataInLen,
        unsigned char *    dataOut,
        unsigned short *   dataOutLen
    )
```

? SDI_CT_SER_Exit_Framework()

```
void SDI_CT_SER_Exit_Framework ( const unsigned char * dataIn,
        unsigned short    dataInLen,
        unsigned char *    dataOut,
        unsigned short *   dataOutLen
    )
```

? SDI_CT_SER_GetAppliData()

```
EMV\_ADK\_INFO SDI_CT_SER_GetAppliData ( const unsigned char * dataIn,
        unsigned short    dataInLen,
        unsigned char *    dataOut,
        unsigned short *   dataOutLen
    )
```

? SDI_CT_SER_GetCandidateData()

```
EMV\_ADK\_INFO SDI_CT_SER_GetCandidateData ( const unsigned char * dataIn,
        unsigned short    dataInLen,
        unsigned char *    dataOut,
        unsigned short *   dataOutLen
    )
```

? SDI_CT_SER_GetTermData()

```
EMV\_ADK\_INFO SDI_CT_SER_GetTermData ( const unsigned char * dataIn,
```



```
unsigned char SDI_CT_SER_SmartPowerOff ( const unsigned char * dataIn,
                                         unsigned short      dataInLen,
                                         unsigned char *     dataOut,
                                         unsigned short *     dataOutLen
                                         )
```

? SDI_CT_SER_SmartReset()

```
unsigned char SDI_CT_SER_SmartReset ( const unsigned char * dataIn,
                                       unsigned short      dataInLen,
                                       unsigned char *     dataOut,
                                       unsigned short *     dataOutLen
                                       )
```

? SDI_CT_SER_StartTransaction()

```
EMV\_ADK\_INFO SDI_CT_SER_StartTransaction ( const unsigned char * dataIn,
                                             unsigned short      dataInLen,
                                             unsigned char *     dataOut,
                                             unsigned short *     dataOutLen
                                             )
```

? SDI_CT_SER_StoreCAPKey()

```
EMV\_ADK\_INFO SDI_CT_SER_StoreCAPKey ( const unsigned char * dataIn,
                                        unsigned short      dataInLen,
                                        unsigned char *     dataOut,
                                        unsigned short *     dataOutLen
                                        )
```

? SDI_CT_SER_updateTxnTags()

```
EMV\_ADK\_INFO SDI_CT_SER_updateTxnTags ( const unsigned char * dataIn,
                                           unsigned short      dataInLen,
                                           unsigned char *     dataOut,
                                           unsigned short *     dataOutLen
                                           )
```

? SDI_CT_SetAppliData()

[EMV_ADK_INFO](#) SDI_CT_SetAppliData ([EMV_ADK_HANDLE_RECORD_TYPE](#) *eHandleAppliType*,
[EMV_CT_APPLI_TYPE](#) * *pxAID*,
[EMV_CT_APPLIDATA_TYPE](#) * *pxAppliData*
)

? [SDI_CT_SetTermData\(\)](#)

[EMV_ADK_INFO](#) SDI_CT_SetTermData ([EMV_CT_TERMDATA_TYPE](#) * *pxTermData*)

? [SDI_CT_SmartDetect\(\)](#)

unsigned char SDI_CT_SmartDetect (unsigned char *ucOptions*)

? [SDI_CT_SmartISO\(\)](#)

unsigned char SDI_CT_SmartISO (unsigned char *ucOptions*,
unsigned short *usInDataLen*,
unsigned char * *pucDataIn*,
unsigned short * *pusOutDataLen*,
unsigned char * *pucDataOut*,
unsigned short *usOutBufferLength*
)

? [SDI_CT_SmartPowerOff\(\)](#)

unsigned char SDI_CT_SmartPowerOff (unsigned char *ucOptions*)

? [SDI_CT_SmartReset\(\)](#)

unsigned char SDI_CT_SmartReset (unsigned char *ucOptions*,
unsigned char * *pucATR*,
unsigned long * *pnATRLength*
)

? [SDI_CT_StartTransaction\(\)](#)

[EMV_ADK_INFO](#) SDI_CT_StartTransaction ([EMV_CT_SELECT_TYPE](#) * *pxSelectInput*,
[EMV_CT_SELECTRES_TYPE](#) * *pxSelectRes*

)

? SDI_CT_StoreCAPKey()

EMV_ADK_INFO SDI_CT_StoreCAPKey (EMV_ADK_HANDLE_RECORD_TYPE *eHandleCAPKeyType*,
const EMV_CT_CAPKEY_TYPE * *pxKeyData*)

? SDI_CT_updateTxnTags()

EMV_ADK_INFO SDI_CT_updateTxnTags (unsigned long *options*,
unsigned char * *tlvBuffer*,
unsigned short *bufferLength*)

? SDI_CTLs_ApplyConfiguration()

EMV_ADK_INFO SDI_CTLs_ApplyConfiguration (unsigned long *options*)

? SDI_CTLs_Break()

unsigned char SDI_CTLs_Break (void)

? SDI_CTLs_CardRemoval()

unsigned char SDI_CTLs_CardRemoval (long *timeoutMillis*)

? SDI_CTLs_CLIENT_GetVersion()

const char* SDI_CTLs_CLIENT_GetVersion (void)

? SDI_CTLs_ContinueOffline()

EMV_ADK_INFO SDI_CTLs_ContinueOffline (EMV_CTLs_TRANSRES_TYPE * *pxTransRes*,
EMV_SDI_CTLs_TRANSRES_TYPE * *pxSdiTransRes*)

? SDI_CTL5_ContinueOfflineExt()

[EMV_ADK_INFO](#)
SDI_CTL5_ContinueOfflineExt ([EMV_CTL5_CONT_OFFL_TYPE](#) * *pxContOfflInput* ,
[EMV_CTL5_TRANSRES_TYPE](#) * *pxTransRes* ,
[EMV_SDI_CTL5_TRANSRES_TYPE](#) * *pxSdiTransRes*)

? SDI_CTL5_ContinueOnline()

[EMV_ADK_INFO](#) SDI_CTL5_ContinueOnline ([EMV_CTL5_HOST_TYPE](#) * *pxOnlineInput* ,
[EMV_CTL5_TRANSRES_TYPE](#) * *pxTransRes* ,
[EMV_SDI_CTL5_TRANSRES_TYPE](#) * *pxSdiTransRes*)

? SDI_CTL5_EndTransaction()

[EMV_ADK_INFO](#) SDI_CTL5_EndTransaction (unsigned long *options*)

? SDI_CTL5_Exit_Framework()

void SDI_CTL5_Exit_Framework (void)

? SDI_CTL5_Exit_Framework_extended()

void SDI_CTL5_Exit_Framework_extended (unsigned char *options*)

? SDI_CTL5_FRAMEWORK_GetVersion()

const char* SDI_CTL5_FRAMEWORK_GetVersion (void)

? SDI_CTL5_GetAppliDataSchemeSpecific()

[EMV_ADK_INFO](#)
SDI_CTL5_GetAppliDataSchemeSpecific ([EMV_ADK_READAPPLI_TYPE](#) *eReadAppliType* ,
[EMV_CTL5_APPLI_KERNEL_TYPE](#) * *pxAID* ,
[EMV_CTL5_APPLIDATA_SCHEME_SPECIFIC_TYPE](#) * *pxAppliData*)

)

? SDI_CTLS_GetCandidateData()

[EMV_ADK_INFO](#) SDI_CTLS_GetCandidateData ([EMV_CTL](#)S_CANDIDATE_DATA_TYPE * candidateData)

? SDI_CTLS_GetCAPKeyInfo()

[EMV_ADK_INFO](#) SDI_CTLS_GetCAPKeyInfo ([EMV_CTL](#)S_CAPREAD_TYPE * pxKeyInfo,
unsigned capacity,
unsigned offset,
unsigned * received,
unsigned * configured
)

? SDI_CTLS_GetTermData()

[EMV_ADK_INFO](#) SDI_CTLS_GetTermData ([EMV_CTL](#)S_TERMDATA_TYPE * pxTermData)

? SDI_CTLS_Init_Framework_Client()

[EMV_ADK_INFO](#) SDI_CTLS_Init_Framework_Client (const char * version,
unsigned char numberOfAIDs,
[EMV_CTL](#)S_CALLBACK_FnT EMV_Callback,
void * externalData,
unsigned long options,
unsigned long * ulResult
)

? SDI_CTLS_LED()

unsigned char SDI_CTLS_LED (unsigned char ucLedId,
unsigned char ucLedState
)

? SDI_CTLS_LED_SetMode()

unsigned char SDI_CTLS_LED_SetMode (unsigned char ucLedMode)

? SDI_CTL5_MapVirtualTerminal()

[EMV_ADK_INFO](#) SDI_CTL5_MapVirtualTerminal ([EMV_ADK_VIRTUALTERMMAP_TYPE](#) *VirtualTermMapType*,
unsigned char * *TLVSwitchValue*,
unsigned int *TLVBufLen*,
unsigned char * *VirtualTerminal*)

? SDI_CTL5_ReadCAPKeys()

[EMV_ADK_INFO](#) SDI_CTL5_ReadCAPKeys ([EMV_CTL5_CAPREAD_TYPE](#) * *pxKeyData*,
unsigned char * *pucMaxnum*)

? SDI_CTL5_SER_Break()

unsigned char SDI_CTL5_SER_Break (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*)

? SDI_CTL5_SER_CardRemoval()

unsigned char SDI_CTL5_SER_CardRemoval (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*)

? SDI_CTL5_SER_ContinueOffline()

[EMV_ADK_INFO](#) SDI_CTL5_SER_ContinueOffline (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*)

? SDI_CTL5_SER_ContinueOnline()

[EMV_ADK_INFO](#) SDI_CTL5_SER_ContinueOnline (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_EndTransaction()

[EMV_ADK_INFO](#) SDI_CTL5_SER_EndTransaction (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_Exit_Framework()

void SDI_CTL5_SER_Exit_Framework (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_GetAppliDataSchemeSpecific()

[EMV_ADK_INFO](#) SDI_CTL5_SER_GetAppliDataSchemeSpecific (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_GetCandidateData()

[EMV_ADK_INFO](#) SDI_CTL5_SER_GetCandidateData (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_GetTermData()

[EMV_ADK_INFO](#) SDI_CTL5_SER_GetTermData (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_Init_Framework()

[EMV_ADK_INFO](#) SDI_CTL5_SER_Init_Framework (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_LED()

unsigned char SDI_CTL5_SER_LED (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_LED_SetMode()

unsigned char SDI_CTL5_SER_LED_SetMode (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_MapVirtualTerminal()

[EMV_ADK_INFO](#) SDI_CTL5_SER_MapVirtualTerminal (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_ReadCAPKeys()

[EMV_ADK_INFO](#) SDI_CTL5_SER_ReadCAPKeys (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_SetAppliDataSchemeSpecific()

[EMV_ADK_INFO](#) SDI_CTL5_SER_SetAppliDataSchemeSpecific (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_SetTermData()

[EMV_ADK_INFO](#) SDI_CTL5_SER_SetTermData (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_SetupTransaction()

[EMV_ADK_INFO](#) SDI_CTL5_SER_SetupTransaction (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_SmartISO()

unsigned char SDI_CTL5_SER_SmartISO (const unsigned char * *dataIn*,
unsigned short *dataInLen*,
unsigned char * *dataOut*,
unsigned short * *dataOutLen*
)

? SDI_CTL5_SER_SmartPowerOff()

```
unsigned char SDI_CTL5_SER_SmartPowerOff ( const unsigned char * dataIn,
                                           unsigned short      dataInLen,
                                           unsigned char *      dataOut,
                                           unsigned short *      dataOutLen
                                           )
```

? SDI_CTL5_SER_SmartReset()

```
unsigned char SDI_CTL5_SER_SmartReset ( const unsigned char * dataIn,
                                         unsigned short      dataInLen,
                                         unsigned char *      dataOut,
                                         unsigned short *      dataOutLen
                                         )
```

? SDI_CTL5_SER_StoreCAPKey()

```
EMV\_ADK\_INFO SDI_CTL5_SER_StoreCAPKey ( const unsigned char * dataIn,
                                         unsigned short      dataInLen,
                                         unsigned char *      dataOut,
                                         unsigned short *      dataOutLen
                                         )
```

? SDI_CTL5_SetAppliDataSchemeSpecific()

```
EMV\_ADK\_INFO SDI_CTL5_SetAppliDataSchemeSpecific ( EMV\_ADK\_HANDLE\_RECORD\_TYPE eHandleAppliTy,
                                                    ,
                                                    EMV\_CTL5\_APPLI\_KERNEL\_TYPE * pxAID,
                                                    EMV\_CTL5\_APPLIDATA\_SCHEME\_SPECIFIC\_TYPE * pxAppliData
                                                    )
```

? SDI_CTL5_SetTermData()

```
EMV\_ADK\_INFO SDI_CTL5_SetTermData ( EMV\_CTL5\_TERMDATA\_TYPE * pxTermData )
```

? SDI_CTL5_SetupTransaction()

[EMV_ADK_INFO](#) SDI_CTL5_SetupTransaction ([EMV_CTL5_START_TYPE](#) * *pxStartInput*,
[EMV_CTL5_STARTRES_TYPE](#) * *pxStartRes*
)

? [SDI_CTL5_SmartISO\(\)](#)

unsigned char SDI_CTL5_SmartISO (unsigned char *ucOptions*,
unsigned short *usInDataLen*,
unsigned char * *pucDataIn*,
unsigned short * *pusOutDataLen*,
unsigned char * *pucDataOut*,
unsigned short *usOutBufferLength*
)

? [SDI_CTL5_SmartPowerOff\(\)](#)

unsigned char SDI_CTL5_SmartPowerOff (unsigned char *ucOptions*)

? [SDI_CTL5_SmartReset\(\)](#)

unsigned char SDI_CTL5_SmartReset (unsigned char *ucOptions*,
unsigned char * *pucCardInfo*,
unsigned long * *pnInfoLength*
)

? [SDI_CTL5_StoreCAPKey\(\)](#)

[EMV_ADK_INFO](#)
SDI_CTL5_StoreCAPKey ([EMV_ADK_HANDLE_RECORD_TYPE](#) *eHandleCAPKeyType*
,
const [EMV_CTL5_CAPKEY_TYPE](#) * *pxKeyData*
)