CApi.h Description document

- 1. All encoding for strings is UTF-8
- 2. The reading and writing of network sessions are multithreaded safe, and their security depends on the event core Note: Only reading and writing is multithreaded safe

Event Core Construction and Functional Description

```
///< Building is building an event core
HEventCore * CreateEventCore();

///< This releases the event core and automatically cancels the blocking state of the event loop internally .

void FreeEventCore(const HEventCore *core);

///< Block the current process and convert it into an event process .

HBool Exec(const HEventCore *core);

///< No blocking, an internal thread will be opened as an event thread .

HBool Run(const HEventCore *core);

///< Notify Exit Event Loop .

void Quit(const HEventCore *core);</pre>
```

Network Session Construction and Function Description

```
///< Create a network session with the core as the event core and the protocol as the protocol
enumeration. Please refer to the header file enumeration for details. When the protocol enumeration
is a non-existent value, SDK 2.0 will be built by default
HSession * CreateNetSession(const HEventCore *core, eNetProtocol protocol);

///< Release the protocol session, which will internally release the memory of the protocol
void FreeNetSession(HSession *session);

///< Set protocol session function
HBool SetNetSession(HSession *session, int type, void *data);</pre>
```

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Description of Network Session Function Settings

```
///< Universal callback, triggered by all network session protocols

///< Network status callback, which will be triggered when the network is connected or disconnected
///< CurrSession is the current network session
///< Status is the current status of the network session, as detailed in the header
file enumeration
///< UserData is the data passed by the user themselves
typedef void (*NetStatusCallBack)(HSession *currSession, eNetStatus status, void
*userData);

///< Tcp callback, only those of type TCP will trigger this callback
///< Data read callback, which will be triggered after the protocol processes the data
///< Data is the data read
///< Len is the length of the read data</pre>
```

```
typedef void (*ReadyReadCallBack)(HSession *currSession, const char *data,
huint32 len, void *userData);
///< Upload file callback, which will be triggered during file upload
///< FileName is the file name of the uploaded file
///< SendSize is the size of the current sent data
///< FileSize is the size of the file
///\!< Status is the current status of the uploaded file. Please refer to the header file enumeration for details
typedef void (*UploadFileProgressCallBack)(HSession *currSession, const char
*fileName, hint64 sendSize, hint64 fileSize, eUploadFileStatus status, void
*userData);
///< Error message callback, which will be triggered upon receiving the error code
///< Status is the error code value specified in the document
typedef void (*ErrorCodeCallBack)(HSession *currSession, int status, void
*userData);
///< Tcp server callback
///< CurrSession The current session of the service
///< The client session connected to new
Session still needs to call the release interface when it is not needed
typedef void (*NewConnect)(HSession *currSession, HSession *newSession, void
*userData);
///< Udp callback
///< After setting the detection device, this callback will be triggered. There will be
ID, IP, and raw read data
typedef void (*DeviceInfoCallBack)(HSession *currSession, const char *id,
huint32 idLen, const char *ip, huint32 ipLen, const char *readData, huint32
dataLen, void *userData);
```

```
Nétwork operation interface onnected state HB001 Isconnect (const HSession *session);
 ///< Connect Session
 HBool Connect(HSession *session, const char *ip, int port);
 ///< Disconnect
 void Disconnect(HSession *session);
 ///< Send data interface, SDK can directly send XML data Internal data processing will be carried out
 HBool SendSDK(HSession *session, const char *data, huint32 len);
 enum eFileType {
      kImageFile
                            = 0.
                                      ///< Image
                                      ///< Video
                            = 1,
      kVideoFile
                                      ///< typeface
                            = 2.
      kFont
                                      ///< Firmware
                            = 3.
      kFireware
                                      ///< Under normal circumstances, it
                            = 4,
      kFPGAConfig
                                      is not necessary to use
                            = 5,
      kSettingCofnig
                            = 6,
                                      ///< Under normal circumstances, it
      KProjectResources
                                      is not necessary to use
                             = 7,
      kData
                                      ///< resource file , Under normal
                             = 8,
      kTemp
                                      circumstances, it is not necessary to
                            = 128,
      kTempImageFile
                             = 129,
      kTempVideoFile
                                      ///< Under normal circumstances, it is
 };
                                      not necessary to use
                                      ///< Under normal circumstances, it is
                                      not necessary to use
                                      ///< Temporary image file
                                      ///< Temporary video file
```

```
///< Send file interface, input file path and file type
HBool SendFile(HSession *session, const char *filePath, int type);</pre>
```