

NetSDK Manual for VDP

I. SDK Introduction

Network SDK is kit developed for NVR, NVS, network camera, speed dome and etc. This manual describes function, port and call among functions in each development kit with example.

This manual mainly introduces alarm host related function, support the following models:

DeviceType	DeviceName
VTO XXX	VideoTalkOutDoor
VTH XXX	VideoTalkHome

Device SDK under Windows

Functional Module	File	Note
Function Library	avglobal.h	head file
	dhassistant.h	head file
	dhnetsdk.h	head file
	dhnetsdk.lib	Lib file
	dhnetsdk.dll	Dll file
	avnetsdk.dll	Dll file
Config Library	dhconfigsdk.h	Config head file
	dhconfigsdk.lib	Config Lib file
	dhconfigsdk.dll	Config Dll file
avnetsdk.dll Aux Library	Infra.dll	function aux library
	Json.dll	function aux library
	Stream.dll	function aux library
	NetFramework.dll	function aux library
	StreamSvr.dll	function aux library

Device SDK under Linux

Functional Module	File	Note
Function Library 1	avglobal.h	head file
	dhassistant.h	head file
	dhnetsdk.h	head file
	libdhdvr.so	basic network library
	libdhnetsdk.so	function library 1
Function Library 2	libavnetsdk.so	function library 2
Config Library	dhconfigsdk.h	head file
	libdhconfigsdk.so	Config library
libavnetsdk.so Aux Library	libInfra.so	function aux library
	libJson.so	function aux library
	libStream.so	function aux library
	libNetFramework.so	function aux library

This SDK Function Library and config library are mandatory. If contain avnetsdk.dll, aux library 2 is mandatory too. If no other encoding tool, take play library and its aux library.

Function Library is main body of device network SDK, used mainly in communication among network client and products and is responsible to control, search, config, get and process stream data.

Config library is to pack and analyze structure of config function.

Aux library is mandatory library of avnetsdk. Without these files will influence usage of avnetsdk.

II. Terminology

Forced Card:

One of A&C card, used to unlock door when cardholder is threatened by someone. A&C system will identify forced card and alarm, activate other operations.

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1. Function Call Sequence

- 1) SDK initialization(**CLIENT_Init()**), login(**CLIENT_Login()**)and etc.
- 2) Configure device(**CLIENT_GetNewDevConfig()**, **CLIENT_SetNewDevConfig()** and etc.)
- 3) Monitor (**CLIENT_RealPlayEx()**、 **CLIENT_StopRealPlay()**)
- 4) Configure device(**CLIENT_GetNewDevConfig()**, **CLIENT_SetNewDevConfig()** and etc.)
- 5) Control device, listen events, query recordsets, query log(**CLIENT_ControlDevice()**,
CLIENT_SetDVRMessCallBack(),**CLIENT_StartListenEx()**, **CLIENT_StopListen()**,
CLIENT_FindRecord(),**CLIENT_FindNextRecord()**,**CLIENT_QueryRecordCount()**,
CLIENT_FindRecordClose() , **CLIENT_QueryDeviceLog()**,**CLIENT_QueryDevLogCount()**)
- 6) Talk(**CLIENT_StartTalkEx()**、 **CLIENT_StopTalkEx()**)
- 7) Logout, SDK anti-initialization(**CLIENT_Logout()**, **CLIENT_Cleanup()**)

2. Universal functions

1). Set network param

void **CLIENT_SetNetworkParam**(NET_PARAM* *pNetParam*);

Note: Set login network port. Call port before login is recommended. If not call, SDK uses default value.

Parameter:

[in] *pNetParam* network parameter structure indicator, please refer to NET_PARAM

Return value: N/A

NET_PARAM structure:

```
// Set login parameter
typedef struct
{
    int            nWaittime;                // and etc. overtime waiting(unit is ms), as 0
default 5000ms
    int            nConnectTime;            // overtime connection(unit is ms), as 0 default
1500ms
    int            nConnectTryNum;          // connection attempts, as 0 default 1 time
    int            nSubConnectSpaceTime;    // sum of sub connection waiting time(unit is
ms), as 0 default 10ms
    int            nGetDevInfoTime;         // get device information overtime, as 0 default
1000ms
    int            nConnectBufSize;         // each connection receiving data buffer
size(unit is byte), as 0 default 250*1024
    int            nGetConnInfoTime;        // get sub connection information overtime(unit is
ms), as 0 default 1000ms
    int            nSearchRecordTime;       // by time search record file overtime(unit is
ms),as 0 default is 3000ms
    int            nsubDisconnetTime;       // detect sub connection offline waiting time
sum(unit is ms), as 0 default is 60000ms
    BYTE          byNetType;               // network type, 0-LAN, 1-WAN
}
```

```

    BYTE        byPlaybackBufSize;        // playback data receiving buffer size (unit is M),
as 0 default is 4M
    BYTE        byReserved1[2];          // Align
    Int         nPicBufSize;              // real time picture receiving buffer size (unit is
byte ), as 0 default 2*1024*1024
    BYTE        bReserved[4];            // reserved text
} NET_PARAM;

```

3. Device Basic Information

3.1 Device Type

```

LONG CLIENT_Login(char *pchDVRIP, WORD wDVRPort, char *pchUserName, char
*pchPassword, LPNET_DEVICEINFO lpDeviceInfo, int *error = 0);

```

Parameter:

[in] pchDVRIP	Device IP
[in] wDVRPort	Device Port
[in] pchUserName	Username
[in] pchPassword	Password
[out] lpDeviceInfo	Device Info
[out] error	If port failed, return error code

// Device Info

typedef struct

```

{
    BYTE        sSerialNumber[DH_SERIALNO_LEN];    // SN
    BYTE        byAlarmInPortNum;                  // DVR alarm input no.
    BYTE        byAlarmOutPortNum;                  // DVR alarm output no.
    BYTE        byDiskNum;                          // DVR HDD quantity
    BYTE        byDVRType;                          // DVR type, see NET_DEVICE_TYPE
    BYTE        byChanNum;                          // DVR channel quantity
} NET_DEVICEINFO, *LPNET_DEVICEINFO;

```

3.2 Software Version

```

BOOL CLIENT_QueryDevState(LONG lLoginID, int nType, char *pBuf, int nBufLen, int
*pRetLen, int waittime);

```

Parameter:

[in] lLoginID	CLIENT_Login() return value
[in] nType	DH_DEVSTATE_SOFTWARE
[in] pBuf	Corresponding structure
	DHDEV_VERSION_INFO
[in] nBufLen	Structure Size
[in] pRetLen	Return structure size
[in] waittime	Overtime, unit is ms

```

typedef struct
{
    char        szDevSerialNo[DH_DEV_SERIALNO_LEN];    // SN
    char        byDevType;                            // Device Type, see NET_DEVICE_TYPE
    char        szDevType[DH_DEV_TYPE_LEN];           // Device detailed model, string format,
may be null
    int         nProtocolVer;                        // Protocol Version
    char        szSoftWareVersion[DH_MAX_URL_LEN];
    DWORD       dwSoftwareBuildDate;
    char        szDspSoftwareVersion[DH_MAX_URL_LEN];
    DWORD       dwDspSoftwareBuildDate;
    char        szPanelVersion[DH_MAX_URL_LEN];
    DWORD       dwPanelSoftwareBuildDate;
    char        szHardwareVersion[DH_MAX_URL_LEN];
    DWORD       dwHardwareDate;
    char        szWebVersion[DH_MAX_URL_LEN];
    DWORD       dwWebBuildDate;
    char        reserved[256];
} DHDEV_VERSION_INFO;

```

3.3 Date Setup/Get

BOOL **CLIENT_QueryDeviceTime**(LLONG *ILoginID*, LPNET_TIME *pDeviceTime*, int *waittime=1000*);

Note: Apply to get current front-end device time for sync time

Parameter:

[in] ILoginID CLIENT_Login() return value, when it is 0, it means abnormal login
[out] pDeviceTime Receiving device time indicator, see LPNET_TIME
[in] waittime and waiting overtime, default 1000ms

Return value: successfully return TRUE, failed to return FALSE. Port failed to return please call CLIENT_GetLastError() to get error code, find cause of error via error code.

BOOL **CLIENT_SetupDeviceTime**(LLONG *ILoginID*, LPNET_TIME *pDeviceTime*);

Note: Apply to sync current front-end device time with this device time.

Parameter:

[in] ILoginID CLIENT_Login()return value, when it is 0, it means abnormal login
[in] pDeviceTime Set device time indicator, see LPNET_TIME

Return value: successfully return TRUE, failed return to FALSE. Port failed to return please callCLIENT_GetLastError()to get error code, find error cause via error code.

LPNET_TIME Structure:

```

// Time
typedef struct
{

```



```

    DWORD    dwYear;           // Year
    DWORD    dwMonth;         // Month
    DWORD    dwDay;           // Day
    DWORD    dwHour;          // Hour
    DWORD    dwMinute;        // Minute
    DWORD    dwSecond;        // Second
} NET_TIME, *LPNET_TIME;

```

3.4 MAC

BOOL **CLIENT_QueryDevState**(LONG *lLoginID*, int *nType*, char **pBuf*, int *nBufLen*, int **pRetLen*, int *waittime*);

Parameter:

[in] lLoginID	CLIENT_Login() return value	
[in] nType	DH_DEVSTATE_NETINTERFACE	
[in] pBuf	Corresponding	structure
	DHDEV_NETINTERFACE_INFO	
[in] nBufLen	Structure size	
[in] pRetLen	Return structure size	
[in] waittime	Overtime, unit is ms	

typedef struct tagDHDEV_NETINTERFACE_INFO

```

{
    int            dwSize;
    BOOL           bValid;      // Valid or not
    BOOL           bVirtual;    // Virtual network card
    int            nSpeed;      // Network card theoretical speed(Mbps)
    int            nDHCPState;  // 0-not enabled, 1-getting, 2-successfully got
    char           szName[DH_NETINTERFACE_NAME_LEN]; // Network Name
    char           szType[DH_NETINTERFACE_TYPE_LEN]; // Network Type
    char           szMAC[DH_MACADDR_LEN]; // MAC address
    char           szSSID[DH_MAX_SSID_LEN]; // SSID, only valid for wireless network(szType
== "Wireless")
    char           szConnStatus[DH_MAX_CONNECT_STATUS_LEN]; // Wifi, 3G connection
status , "Inexistence" : network inexistence "Down" : off "Disconn" : not connected
"Connecting": connecting "Connected": connected
    int            nSupportedModeNum; // Actual 3G supported network mode number
    char           szSupportedModes[DH_MAX_MODE_NUM][DH_MAX_MODE_LEN]; // 3G
supported network mode "TD-SCDMA", "WCDMA", "CDMA1x", "EDGE", "EVDO"
} DHDEV_NETINTERFACE_INFO;

```

4. Listen to Event

0).Set call function to get event info

void **CLIENT_SetDVRMessCallBack**(fMessCallBack *cbMessage*, LDWORD *dwUser*);

Note: set call function to listen to event

Parameter:

[in] *cbMessage* message call function, may call device status, if alarm status can get via this call; when setup is 0, it means no call allowed.

```
typedef BOOL (CALLBACK *fMessageCallBack)(
    LONG lCommand,    Call type, see "supported event"
    LLONG lLoginID,    CLIENT_Login return value
    Char *pBuf,        Receive alarm data buffer, and correspond to lCommand value,
                        see "supported event"
    DWORD dwBufLen,    pBuf length(unit is byte)
    Char *pchDVRIP,    Device ip
    LONG nDVRPort,    Port
    LDWORD dwUser     User custom data
);
```

[in] *dwUser* User custom data

Return value: N/A

1).Enable listening to event

BOOL **CLIENT_StartListenEx**(LLONG *lLoginID*);

Note: enable listening to event

Parameter:

[in] *lLoginID* CLIENT_Login() return value

Return value: TRUE is successful, FALSE is failed

2).Stop listening to event

BOOL **CLIENT_StopListen**(LLONG *lLoginID*);

Note: stop listening to event

Parameter:

[in] *lLoginID* CLIENT_Login() return value

Return value: TRUE is successful, FALSE is failed

3). Supported Event

Event Name	Command Type	Info(usually as structure)
A&C event	DH_ALARM_ACCESS_CTL_EVENT	ALARM_ACCESS_CTL_EVENT_INFO
Intrusion event info	DH_ALARM_CHASSISINTRUDED	ALARM_CHASSISINTRUDED_INFO
Local alarm event	DH_ALARM_ALARM_EX2	ALARM_ALARM_INFO_EX2

5. Config Functions

a) BOOL **CLIENT_GetNewDevConfig**(LLONG *lLoginID*, char* *szCommand*, int *nChannelID*, char* *szOutBuffer*, DWORD *dwOutBufferSize*, int **error*, int *waittime*);

Note: get config, follow string format, each string included info is analyzed by CLIENT_ParseData.

Parameter:

[in]	lLoginID	CLIENT_Login() return value, when it is 0, it means abnormal login
[in]	szCommand	Command parameter, see following CLIENT_ParseData command parameter note
[in]	nChannelID	Channel no.
[out]	szOutBuffer	Output buffer
[out]	dwOutBufferSize	Output buffer size
[out]	error	Error code

0	Successful
1	Failed
2	Invalid data
3	Temporarily cannot set
4	No right

[in]	waittime	waiting overtime
------	----------	------------------

- b) BOOL **CLIENT_ParseData**(char* *szCommand*, char* *szInBuffer*, LPVOID *lpOutBuffer*, DWORD *dwOutBufferSize*, void* *pReserved*);

Note: This port is used with CLIENT_GetNewDevConfig(), after using CLIENT_GetNewDevConfig() to get string config info, use this port get info from config info.

Parameter:

[in]	szCommand	command parameter
------	-----------	-------------------

命令参数	相应结构体
CFG_CMD_BUILDING	VTO Building(CFG_BUILDING_INFO)
CFG_CMD_BUILDING_EXTERN AL	VTO Building External(CFG_BUILDING_EXTERNAL_INFO)
CFG_CMD_DIALRULE	Dialrule(CFG_DIALRULE_INFO)
CFG_CMD_NASEX	NAS(CFG_NAS_INFO_EX)
CFG_CMD_VTNOANSWER_FOR WARD	VT no answer forward(CFG_VT_NOANSWER_FORWARD_IN FO)
CFG_CMD_VTO_CALL	VTO Call(CFG_VTO_CALL_INFO)

[in]	szInBuffer	Input buffer, string config buffer
[out]	lpOutBuffer	Output buffer, corresponding to szCommand structure type
[out]	dwOutBufferSize	Output buffer size
[out]	pReserved	Return data length

- c) **BOOL CLIENT_PacketData**(char* *szCommand*, LPVOID *lpInBuffer*, DWORD *dwInBufferSize*, char* *szOutBuffer*, DWORD *dwOutBufferSize*);

Note : This port is used with CLIENT_SetNewDevConfig(). After using CLIENT_PacketData(), set packed string info via CLIENT_SetNewDevConfig() to device.

Parameter:

[in]	szCommand	Command parameter, see above CLIENT_ParseData chart
[in]	lpInBuffer	Input buffer, structure see CLIENT_ParseData chart
[in]	dwInBufferSize	Input buffer size
[out]	szOutBuffer	Output buffer
[out]	dwOutBufferSize	Output buffer size

- d) **BOOL CLIENT_SetNewDevConfig**(LLONG *lLoginID*, char* *szCommand*, int *nChannelID*, char* *szInBuffer*, DWORD *dwInBufferSize*, int* *error*, int* *restart*, int *waittime*=500);

Note: Set config, by string format, each string pack info is formed by CLIENT_PacketData.

Parameter:

[in]	lLoginID	CLIENT_Login() return value, when it is 0, it means abnormal login
[in]	szCommand	Please refer to CLIENT_ParseData note
[in]	nChannelID	Channel No.
[in]	szInBuffer	Input buffer
[in]	dwInBufferSize	Input buffer size
[out]	error	Error code

0	Successful
1	Failed
2	Data invalid
3	Temporarily cannot set
4	No right

[out] restart After config, you shall reboot device, 1 means reboot, 0 means no reboot

[in] waittime and waiting overtime

6. Control Function

BOOL CLIENT_ControlDevice(LLONG *lLoginID*, CtrlType *type*, void * *param*, int *waittime* = 1000);

Note: device control port function

Parameter:

[in] lLoginID CLIENT_Login() return value, when it is 0, it means abnormal login

- [in] type Control type, see following chart CtrlType
- [in] param During control, input parameter structure, matching type

Control Type	Corresponding Structure
DH_CTRL_ACCESS_OPEN	A&C –unlock (corresponding structure NET_CTRL_ACCESS_OPEN)

- [in] waittime and waiting overtime, default 1000ms

Return value: successful return TRUE, failed return FALSE. Port return please call CLIENT_GetLastError() to get error code, find error cause via error code.

7. RecordSets Control Function

BOOL CLIENT_ControlDevice(LLONG *ILoginID*, CtrlType *type*, void * *param*, int *waittime* = 1000);

Note: Device control port function

Parameter:

- [in] ILoginID CLIENT_Login() return value, when it is 0, it means abnormal login
- [in] type Control type, see following chart CtrlType
- [in] param During control, input parameter structure info, marching type

Control Type	Corresponding Structure
DH_CTRL_RECORDSET_INSERT	Add record, get record set no.(corresponding NET_CTRL_RECORDSET_INSERT_PARAM)
DH_CTRL_RECORDSET_UPDATE	Update come record no.(corresponding NET_CTRL_RECORDSET_PARAM)
DH_CTRL_RECORDSET_REMOVE	According to record set no., delete record(corresponding NET_CTRL_RECORDSET_PARAM)
DH_CTRL_RECORDSET_CLEAR	Clear all record set info(corresponding NET_CTRL_RECORDSET_PARAM)

- [in] waittime and waiting overtime, default 1000ms

Return value: successfully return TRUE, failed return FALSE. Port return failed please call CLIENT_GetLastError() to get error code, find error cause via error code..

BOOL CLIENT_QueryDevState(LLONG *ILoginID*, int *nType*, char* *pBuf*, int *nBufLen*, int* *pRetLen*, int *waittime*=1000);

Note: search device status port

Parameter:

- [in] ILoginID CLIENT_Login()return value, when it is 0, it means abnormal login
- [in] nType Search info type
- [out] pBuf Output parameter, used to get search return data buffer. According to search type, return data structures are different, see

Search Info Type	Corresponding Structure
------------------	-------------------------

DH_DEVSTATE_DEV_RECORDSET

Search device record info(corresponding
NET_CTRL_RECORDSET_PARAM)

[in] nBufLen Buffer length, unit is byte

[out] pRetLen Output parameter, actual return data length, unit is byte

[in] waittime Search status and waiting time, default 1000ms

Return value: successful return TRUE, failed return FALSE. Port return please call
CLIENT_GetLastError() to get error code, find error cause via error code..

RecordSet Type	Corresponding Structure
NET_RECORD_ACCESSCTLCARD	AccessControl Card Info(NET_RECORDSET_ACCESS_CTL_CARD)
NET_RECORD_ACCESSCTLCARDREC_EX	AccessControl Card Record(swiping info)(NET_RECORDSET_ACCESS_CTL_CARDREC)
NET_RECORD_ANNOUNCEMENT	Announcement Info(NET_RECORD_ANNOUNCEMENT_INFO)
NET_RECORD_ALARMRECORD	Alarm Event Info(NET_RECORD_ALARMRECORD_INFO)

8. RecordSet Search

```
BOOL CLIENT_QueryNewSystemInfo (LLONG lLoginID, char* szCommand, int  
nChannelID, char* szOutBuffer, DWORD dwOutBufferSize, int *error, int  
waittime=1000);
```

Note: get record search capacity.

Parameter:

[in]	lLoginID	CLIENT_Login()return value, when it is 0, it means abnormal login
[in]	szCommand	Command parameter, CFG_CAP_CMD_RECORDFINDER
[in]	nChannelID	Channel no.
[out]	szOutBuffer	Output buffer, see following CFG_CAP_RECORDFINDER_INFO
[in]	dwOutBufferSize	Output buffer size
[out]	error	Error Code
[in]	waittime	Overtime

```
typedef struct tagCFG_CAP_RECORDFINDER_INFO  
{  
    int nMaxPageSize; // Max page size  
}CFG_CAP_RECORDFINDER_INFO;
```

```
BOOL CLIENT_FindRecord(LLONG lLoginID, NET_IN_FIND_RECORD_PARAM* pInParam,  
NET_OUT_FIND_RECORD_PARAM* pOutParam, int waittime=1000);
```

Note: Search record by filter, generate search handle.

Parameter:

[in] lLoginID	CLIENT_Login()return value
[in] pInParam	Search record parameter, see NET_IN_FIND_RECORD_PARAM
[out] pOutParam	Return search handle, see NET_OUT_FIND_RECORD_PARAM
[in] waittime	waiting overtime

Return value: successful return TRUE, failed return FALSE. Port return please call CLIENT_GetLastError() to get error code, find error cause via error code..

Input parameter:

```
typedef struct _NET_IN_FIND_RECORD_PARAM
{
    DWORD                dwSize;
    EM_NET_RECORD_TYPE  emType;           // Record type to search
    void*                pQueryCondition; // Search type corresponding filter
} NET_IN_FIND_RECORD_PARAM;
```

Output parameter:

```
typedef struct _NET_OUT_FIND_RECORD_PARAM
{
    DWORD                dwSize;
    LLONG                lFindHandle;     // Search record handle, SN search
} NET_OUT_FIND_RECORD_PARAM;
```

BOOL **CLIENT_FindNextRecord**(NET_IN_FIND_NEXT_RECORD_PARAM* *pInParam*,
NET_OUT_FIND_NEXT_RECORD_PARAM * *pOutParam*, int *waittime=1000*);

Note: get record, search handle as CLIENT_FindRecord port to get.

Parameter:

[in] lLoginID	CLIENT_Login()return value, when it is 0, it means abnormal login
[in] pInParam	Search record parameter, see NET_IN_FIND_NEXT_RECORD_PARAM
[out] pOutParam	Return record, see NET_OUT_FIND_NEXT_RECORD_PARAM
[in] waittime	and waiting overtime

Return value: successful return TRUE, failed return FALSE. Port return please call CLIENT_GetLastError() to get error code, find error cause via error code..

Input parameter:

```
typedef struct _NET_IN_FIND_NEXT_RECORD_PARAM
{
    DWORD                dwSize;
    LLONG                lFindHandle;     // Search handle
    int                  nFileCount;      // Current search record item number
} NET_IN_FIND_NEXT_RECORD_PARAM;
```

Output parameter:

```
typedef struct _NET_OUT_FIND_NEXT_RECORD_PARAM
```

```

{
    DWORD                dwSize;
    void*                pRecordList;    // Record parameter, user allocate
memory
    int                  nMaxRecordNum;  // List record number
    int                  nRetRecordNum;  // Searched record item, when searched item
is less then designated item quantity, search ends
} NET_OUT_FIND_NEXT_RECORD_PARAM;

```

BOOL **CLIENT_QueryRecordCount**(NET_IN_QUEYT_RECORD_COUNT_PARAM* *pInParam*,
NET_OUT_QUEYT_RECORD_COUNT_PARAM* *pOutParam*, int *waittime=1000*);

Note: get record number, search handle as CLIENT_FindRecord port to get.

Parameter:

[in] lLoginID CLIENT_Login()return value, when it is 0, it means abnormal login
[in] pInParam Search record parameter, see NET_IN_QUEYT_RECORD_COUNT_PARAM
[out] pOutParam Retuen record number, see NET_OUT_QUEYT_RECORD_COUNT_PARAM
[in] waittime and waiting overtime

Return value: successful return TRUE, failed return FALSE. Port return please call
CLIENT_GetLastError() to get error code, find error cause via error code..

Input parameter:

```

typedef struct _NET_IN_QUEYT_RECORD_COUNT_PARAM
{
    DWORD                dwSize;
    LLONG                lFindeHandle;    // Search handle
} NET_IN_QUEYT_RECORD_COUNT_PARAM;

```

Output parameter:

```

typedef struct _NET_OUT_QUEYT_RECORD_COUNT_PARAM
{
    DWORD                dwSize;
    int                  nRecordCount;    //Device return record item
} NET_OUT_QUEYT_RECORD_COUNT_PARAM;

```

BOOL **CLIENT_FindRecordClose**(LLONG *lFindHandle*);

Note: end search.

Parameter:

[in] lFindHandle CLIENT_FindRecord () return value

Return value: successful return TRUE, failed return FALSE. Port return please call
CLIENT_GetLastError() to get error code, find error cause via error code..

9. Device Actively Report IP(under equivalent network)

1. Enable listening

LLONG **CLIENT_ListenServer** (char* *ip*, WORD *port*, int *nTimeout*, fServiceCallBack *cbListen*, LDWORD *dwUserData*);

[in] *ip* It intends to start service ip, if only one card, then fill the machine ip often listen

[in] *port* Port Number intends to start service

[in] *nTimeout* This parameter is invalid, be random value

[in] *cbListen* Listening call function

[in] *dwUserData* Call function parameter

Return Value: Successful returns TRUE, otherwise returns FALSE. Interface returns failed call CLIENT_GetLastError () to get the error code, determine the cause of error by the error code.

typedef int(CALLBACK fServiceCallBack)(

LLONG *lHandle*, server handle

char **ip*, Device end IP connected to server

WORD *port*, Connected to the device side port services

LONG *lCommand*, Device request command, here is NET_DEV_NOTIFY_IP_RETURN

void **pParam*, Device request command parameter, device SN

DWORD *dwParamLen*, pParam valid length, unit byte

LDWORD *dwUserData* Call custom parameter

);

Note: Field *lCommand* reported to NET_DEV_NOTIFY_IP_RETURN, ip for the device now can be found at the address, pParam identify the device serial number. Get ip can be found in the usual type of procedure.

2. Turn off listening

BOOL **CLIENT_StopListenServer** (LLONG *lServerHandle*);

10. Audio Talk(Call or Called)

0. Note: must integrate VTHStack library

1. Register

LLONG **CLIENT_VT_RegisterVto** (const char **pszIp*, int *nPort*, int *nWaitTime*);

Note: register to VTO where VTH locates

Parameter:

[in] *pszIp* VTO IP where VTH locates

[in] *nPort* VTO port

[in] *nWaitTime* Max overtime to wait for VTO response , unit is ms

Return Value: Returns a non-zero success, failed to return to zero.

2. Set talk parameter

BOOL **CLIENT_SetDeviceMode** (LLONG *lLoginID*, EM_USEDEV_MODE *emType*, void*

pValue) ;

Note: specific talk mode, certain audio encode mode, talk parameter and other to audio talk.

Parameter:

[in] ILoginID CLIENT_Login() return value, when it is 0, means abnormal login

[in] emType Enumeration value, here is DH_TALK_VT_PARAM type

Enumeration Value	Definiton
DH_TALK_VT_PARAM	Set video intercom related parameters (corresponding to NET_VT_TALK_PARAM)

[in] pValue Here is emType corresponding structure, is NET_VT_TALK_PARAM

Return Value: Successful returns TRUE, otherwise returns FALSE. Interface returns failed call CLIENT_GetLastError () to get the error code, determine the cause of error by the error code.

3. Enable talk

LLONG **CLIENT_StartTalkEx**(LLONG ILoginID, pfAudioDataCallBack pfcB, LDWORD dwUser) ;

Note: send audio talk request to device.

Parameter:

[in] ILoginID CLIENT_Login() return value, when it is 0, means abnormal login

[in] pfcB

(typedef void (**CALLBACK *pfAudioDataCallBack**)(

LLONG ITalkHandle, // handle returned by the local interface;

char* pDataBuf, // for the content of the audio data,

DWORD dwBufSize, // for the length of the audio data (unit: byte),

BYTE byAudioFlag, // audio data ownership flag

LDWORD dwUser);) // user-defined data

Label	Date Type
0	Indicates that the local audio data recording library collection
1	Device indicates the received audio data sent by device

[in] dwUser User define info, return to user via call function

Return Value: Successful returns nonzero, speaking for the device handle, else return 0.

4. Turn on the local recording (only in client mode, the NetSDK call PlaySDK achieve encoding and decoding audio collection)

BOOL **CLIENT_RecordStartEx**(LLONG ILoginID) ;

Note: Start a local recording function, recording audio data collected by CLIENT_StartTalkEx out callback function callback to the user, the corresponding action is CLIENT_RecordStopEx (LLONG ILoginID).

Parameter:

[in] ILoginID login return device handle

Return Value: Successful returns TRUE, otherwise returns FALSE. Interface returns failed call CLIENT_GetLastError () to get the error code, determine the cause of error by the error code.

5. Turn off local recording

BOOL **CLIENT_RecordStopEx**(LLONG **ILoginID**);

Note: stop local recording, corresponding operation is LIENT_RecordStartEx(LLONG ILoginID)。

Parameter:

[in] ILoginID login return device handle

Return Value: Successful returns TRUE, otherwise returns FALSE. Interface returns failed call CLIENT_GetLastError () to get the error code, determine the cause of error by the error code.

6. Turn off talk

BOOL **CLIENT_StopTalkEx**(LLONG lTalkHandle);

Port note: stop audio talk.

Parameter note:

[in] lTalkHandle Audio talk handle, CLIENT_StartTalkEx return

Return Value: Successful returns TRUE, otherwise returns FALSE. Interface returns failed call CLIENT_GetLastError () to get the error code, determine the cause of error by the error code.

7. Unregister

BOOL **CLIENT_VT_UnRegisterVto**(LLONG **ILoginID**);

Note: logout from VTO.

Parameter:

[in] ILoginID CLIENT_VT_RegisterVto return registration handle

Return Value: Successful returns TRUE, otherwise returns FALSE. Interface returns failed call CLIENT_GetLastError () to get the error code, determine the cause of error by the error code.

11. To do