New SDK API

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Logs Changed

Date Changed	User	Description	Version	
2018-01-19	HU	Create	0.0.0.1	
2018-03-28	Dai	Add client connunication mode and 2.24--2.38 I/O	0.0.0.14	
2018-04-03	Dai	Improve 2.37 ,2.38I/O 2.35change data format	0.0.0.15	
2018-05-18	Dai	Add Face device I/O,	0.0.0.16	
2018-05-25	Dai	Add 2.39--2.58 I/O	0.0.0.17	
2018-06-07	Dai	Add 2.59--2.60 I/O	0.0.0.18	
2018-07-09	Dai	Add customize function and improve demo	0.0.0.19	
2018-07-23	Dai	Add 2.61--2.77 I/O	0.0.0.21	
2018-08-23	Dai	Increase The Customize function	0.0.0.23	
2018-09-20	Dai	Update the function for automatic add setup port of the server	0.0.0.25	
2018-11-29	Dai	Update the user ID up to 8 digit	0.0.0.26	
2019-01-18	Dai	Add the Log manage	0.0.0.28	

Content

1 Overview

1.1 Introduction

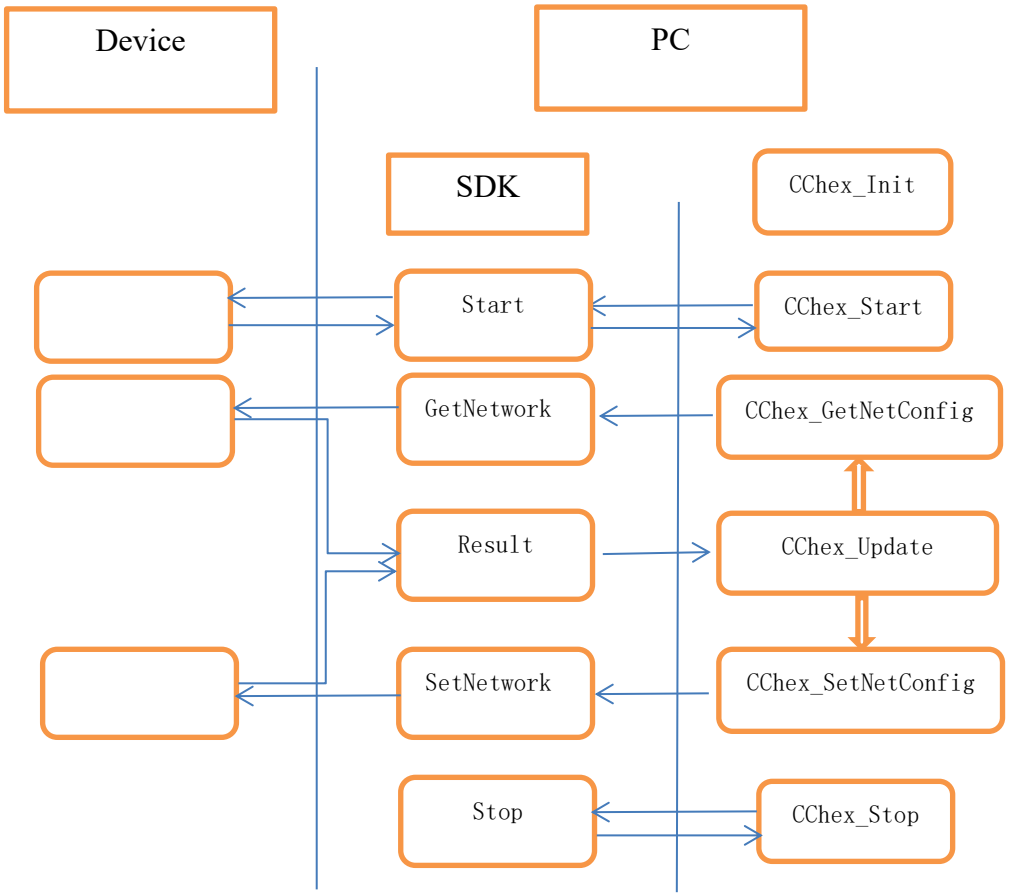
This API document mainly defines the development interface of the Anviz SDK, which provides reference for developers to connect and operate related devices.

This document is mainly related to the software development engineers, software testing engineers and project managers.

1.2 Overview of functions

This API document mainly provides some interfaces of the client/server to the PC end, getting the parameters of the time attendance/access control, and setting the configuration and parameters of the time attendance/access control device. In order to support multiple devices, the interfaces between queries and settings exist asynchronously. SDK is compiled into the form of a dynamic library.

1.3 System logic structure



1.4 Brief introduction of interface functions

```
uint CChex_Version();

void CChex_Init();

IntPtr CChex_Start();

void CChex_Stop(IntPtr CchexHandle);

int CChex_Update(IntPtr CchexHandle, int[] DevIdx, int[] Type, IntPtr Buff, int Len);


int CChex_GetNetConfig(IntPtr CchexHandle, int DevIdx);

int CChex_SetNetConfig(IntPtr CchexHandle, int DevIdx, ref CCHEX_NETCFG_INFO_STRU Config);
```

```
int CChex_MsgGetByIdx(IntPtr CchexHandle, int DevIdx, byte Idx);

int CChex_MsgDelByIdx(IntPtr CchexHandle, int DevIdx, byte Idx);

int CChex_MsgAddNew(IntPtr CchexHandle, int DevIdx, byte[] Data, int Len);

int CChex_MsgGetAllHead(IntPtr CchexHandle, int DevIdx);


int CChex_RebootDevice(IntPtr CchexHandle, int DevIdx);

int CChex_SetTime(IntPtr CchexHandle, int DevIdx, int Year, int Month, int Day, int Hour, int Min, int Sec);

int CChex_GetSNConfig(IntPtr CchexHandle, int DevIdx);


int CChex_DownloadAllRecords(IntPtr CchexHandle, int DevIdx);

int CChex_DeleteRecordInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_DEL_RECORD_INFO_STRU Config);


int CChex_GetBasicConfigInfo(IntPtr CchexHandle, int DevIdx);

int CChex_SetBasicConfigInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_SET_BASIC_CFG_INFO_STRU Config);


int CChex_ListPersonInfo(IntPtr CchexHandle, int DevIdx);

int CChex_ModifyPersonInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_RET_PERSON_INFO_STRU personlist, byte person_num);

int CChex_DeletePersonInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_DEL_PERSON_INFO_STRU Config);


int CChex_DownloadFingerPrint(IntPtr CchexHandle, int DevIdx, byte[] EmployeeId, byte FingerIdx);

int CChex_UploadFingerPrint(IntPtr CchexHandle, int DevIdx, byte[] EmployeeId, byte FingerIdx,
```

```
byte[] FingerData, int DataLen);


        int CChex_GetTime(IntPtr CchexHandle, int DevIdx);//(24)


        int CChex_InitUserArea(IntPtr CchexHandle, int DevIdx);

        int CChex_InitSystem(IntPtr CchexHandle, int DevIdx);


        int CChex_GetBasicConfigInfo2(IntPtr CchexHandle, int DevIdx);

        int CChex_SetBasicConfigInfo2(IntPtr CchexHandle, int DevIdx, ref
CCHEX_GET_BASIC_CFG_INFO2_STRU_EXT_INF config);


        int CChex_GetPeriodTime(IntPtr CchexHandle, int DevIdx, byte SerialNumbe);

        int CChex_SetPeriodTime(IntPtr CchexHandle, int DevIdx, ref
CCHEX_SET_PERIOD_TIME_STRU_EXT_INF config);


        int CChex_GetTeamInfo(IntPtr CchexHandle, int DevIdx, byte TeamNumbe);

        int CChex_SetTeamInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_SET_TEAM_INFO_STRU_EXT_INF
config);


        int CCHex_AddFingerprintOnline(IntPtr CchexHandle, int DevIdx, ref
CCHEX_ADD_FINGERPRINT_ONLINE_STRU_EXT_INF Param);


        int CCHex_ForcedUnlock(IntPtr CchexHandle, int DevIdx, ref CCHEX_FORCED_UNLOCK_STRU_EXT_INF
Param);


        int CCHex_Udp_Search_Dev(IntPtr CchexHandle);
```

```
int CCHex_Udp_Set_Dev_Config(IntPtr CchexHandle, ref CCHEX_UDP_SET_DEV_CONFIG_STRU_EXT_INF config);


int CCHex_ClientConnect(IntPtr CchexHandle, byte[] Ip, int Port);
int CCHex_ClientDisconnect(IntPtr CchexHandle, int DevIdx);
```

1.5 Message Type

```
CChex_Update(anviz_handle, dev_idx, Type, pBuff, len);
```

You need to loop the query to see if there is an asynchronous return, and if you have a different Type of data parsing, get the data you want.public enum MsgType:int

```
{
    CCHEX_RET_RECORD_INFO_TYPE = 1
    , CCHEX_RET_DEV_LOGIN_TYPE
    , CCHEX_RET_DEV_LOGOUT_TYPE
    , CCHEX_RET_DLFINGERPRT_TYPE = 4
    , CCHEX_RET_ULFINGERPRT_TYPE
    , CCHEX_RET_MODIFY_PERSON_INFO_TYPE = 8
    , CCHEX_RET_LIST_PERSON_INFO_TYPE
    , CCHEX_RET_MSGGETBYIDX_INFO_TYPE = 12
    , CCHEX_RET_MSGGETBYIDX_UNICODE_INFO_TYPE
    , CCHEX_RET_MSGADDNEW_INFO_TYPE
    , CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE
    , CCHEX_RET_MSGDELBYIDX_INFO_TYPE // 15
    , CCHEX_RET_MSGGETALLHEAD_INFO_TYPE
    , CCHEX_RET_REBOOT_TYPE
    , CCHEX_RET_DEV_STATUS_TYPE
```

```
, CCHEX_RET_MSGGETALLHEADUNICODE_INFO_TYPE
, CCHEX_RET_SETTIME_TYPE // 20
, CCHEX_RET_UPLOADFILE_TYPE
, CCHEX_RET_GETNETCFG_TYPE
, CCHEX_RET_SETNETCFG_TYPE
, CCHEX_RET_GET_SN_TYPE  //24
, CCHEX_RET_GET_BASIC_CFG_TYPE = 29
, CCHEX_RET_SET_BASIC_CFG_TYPE
, CCHEX_RET_DEL_PERSON_INFO_TYPE = 31
, CCHEX_RET_DEL_RECORD_OR_FLAG_INFO_TYPE = 33

 ,CCHEX_RET_GET_BASIC_CFG2_TYPE = 37
 ,CCHEX_RET_SET_BASIC_CFG2_TYPE = 38
 ,CCHEX_RET_GETTIME_TYPE = 39
 ,CCHEX_RET_INIT_USER_AREA_TYPE = 40
 ,CCHEX_RET_INIT_SYSTEM_TYPE = 41
 ,CCHEX_RET_GET_PERIOD_TIME_TYPE = 42
 ,CCHEX_RET_SET_PERIOD_TIME_TYPE = 43
 ,CCHEX_RET_GET_TEAM_INFO_TYPE = 44
 ,CCHEX_RET_SET_TEAM_INFO_TYPE = 45
 ,CCHEX_RET_ADD_FINGERPRINT_ONLINE_TYPE = 46
 ,CCHEX_RET_FORCED_UNLOCK_TYPE = 47
 ,CCHEX_RET_UDP_SEARCH_DEV_TYPE = 48
 ,CCHEX_RET_UDP_SET_DEV_CONFIG_TYPE = 49
```

```
,CCHEX_RET_GET_INFOMATION_CODE_TYPE = 50

,CCHEX_RET_SET_INFOMATION_CODE_TYPE = 51

,CCHEX_RET_GET_BELL_INFO_TYPE = 52

,CCHEX_RET_SET_BELL_INFO_TYPE = 53

,CCHEX_RET_LIVE_SEND_ATTENDANCE_TYPE = 54

,CCHEX_RET_GET_USER_ATTENDANCE_STATUS_TYPE = 55

,CCHEX_RET_SET_USER_ATTENDANCE_STATUS_TYPE = 56

,CCHEX_RET_CLEAR_ADMINISTRAT_FLAG_TYPE = 57

,CCHEX_RET_GET_SPECIAL_STATUS_TYPE = 58

,CCHEX_RET_GET_ADMIN_CARD_PWD_TYPE = 59

,CCHEX_RET_SET_ADMIN_CARD_PWD_TYPE = 60

,CCHEX_RET_GET_DST_PARAM_TYPE = 61

,CCHEX_RET_SET_DST_PARAM_TYPE = 62

,CCHEX_RET_GET_DEV_EXT_INFO_TYPE = 63

,CCHEX_RET_SET_DEV_EXT_INFO_TYPE = 64

,CCHEX_RET_GET_BASIC_CFG3_TYPE = 65

,CCHEX_RET_SET_BASIC_CFG3_TYPE = 66

,CCHEX_RET_CONNECTION_AUTHENTICATION_TYPE = 67

,CCHEX_RET_GET_RECORD_NUMBER_TYPE = 68

,CCHEX_RET_GET_RECORD_BY_EMPLOYEE_TIME_TYPE = 69

,CCHEX_RET_GET_RECORD_INFO_STATUS_TYPE = 70

,CCHEX_RET_GET_NEW_RECORD_INFO_TYPE = 71


,CCHEX_RET_ULEMPLOYEE2W2_INFO_TYPE           = 72,

CCHEX_RET_GET_BASIC_CFG5_TYPE               = 73,
```

```
        CCHEX_RET_SET_BASIC_CFG5_TYPE                = 74,
        CCHEX_RET_GET_CARD_ID_TYPE                   = 75,
        CCHEX_RET_SET_DEV_CURRENT_STATUS_TYPE        = 76,
        CCHEX_RET_GET_URL_TYPE                       = 77,
        CCHEX_RET_SET_URL_TYPE                       = 78,
        CCHEX_RET_GET_STATUS_SWITCH_TYPE             = 79,
        CCHEX_RET_SET_STATUS_SWITCH_TYPE             = 80,
        CCHEX_RET_GET_STATUS_SWITCH_EXT_TYPE         = 81,
        CCHEX_RET_SET_STATUS_SWITCH_EXT_TYPE         = 82,
        CCHEX_RET_UPDATEFILE_STATUS_TYPE             = 83,

        ,CCHEX_RET_CLINECT_CONNECT_TYPE = 200
        ,CCHEX_RET_CLINECT_DISCONNECT_TYPE = 201
    };
```

1.6 Setup label and print setup Description

Generic version:

Default Setup: After download new records mark as:0(NO) Print LOG:0(NO)

W2 Version：

Default Setup: After download new records mark as:1(Yes) Print LOG:0(NO)

Customize(S) Version：

Default Setup: After download new records mark as:1(Yes) Print LOG:0(NO)

Customize（F）Version：：

Default Setup: After download new records mark as:0(NO) Print LOG:0(NO)

Change Configuration path:

1：Defining the configuration file：tc-b_new_sdk.ini

[LogFile]

LogFile = 1 1：yes 0：no

[SetRecordFlag]

SetRecordFlag = 1 1：yes 0：no

[Debug]

Debug = 0

2:Call the function interface：void CChex_SetSdkConfig(void *CchexHandle,int SetRecordflag,int SetLogFile);

Parameter：

int SetRecordflag 1：yes 0：no

int SetLogFile 1：yes 0：no

Priority level:

High： Call the function interface

High： Defining the configuration file

Low： Defining Setup

Notice：When without any “Call the function interface” and “Defining the configuration file as “Defining Setup”

2 Description interface

2.1 CChex_Version

2.1.1 Description functions

【Function】Query SDK Version.

2.1.2 Request

【Mode】`uint CChex_Version()`

【Parameter】None

2.1.3 Response

【Return value】Get SDK version, Returns the version number of an integer number.

2.1.4 Sample

```
int sdk_ver = CChex_Version();
```

2.1.5 Notice

2.2 CChex_Init

2.2.1 Description functions

【Function】 The SDK function initializes and initializes the socket application interface.

2.2.2 Request

【Mode】`void CChex_Init()`

【Parameter】None

2.2.3 Response

【Return value】None

2.2.4 Sample

```
CChex_Init();
```

2.2.5 Notice

None

2.3 CChex_Start

2.3.1 Description functions

【Function】 Start the SDK, allocate space, and establish communication with the Anviz device.

2.3.2 Request

【Mode】`IntPtr CChex_Start()`

【Parameter】None

2.3.3 Response

【Return value】Return the handle of SDK.

2.3.4 Sample

```
IntPtr sdk_handle = CChex_Start();
```

```
if (sdk_handle != null)
{
    MessageBox.Show("Startup OK");
} else
{
     MessageBox.Show("Startup errors,Please restart the program.");
}
```

2.3.5 Notice

1. Make sure that CChex_Init is initialized before run.

2.4 CChex_Stop

2.4.1 Description functions

【Function】Stop the SDK, release the space, close the socket chain and so on.

2.4.2 Request

【Mode】`void CChex_Stop(IntPtr CchexHandle)`

【Parameter】CchexHandle,CChex_Start successfully create the handle

2.4.3 Response

【Return value】None

2.4.4 Sample

```
CChex_stop();
```

2.4.5 Notice

1. Make sure that CChex_Start has been started successfully before run.

2.5 CChex_Update

2.5.1 Description functions

【Function】The Return value get or set asynchronously.。

2.5.2 Request

【Mode】int CChex_Update(IntPtr CchexHandle, int[] DevIdx, int[] Type, IntPtr Buff, int Len);

【Parameter】CchexHandle,CChex_Start successfully create the handle, Input[Parameter];

DevIdx,Device index returned asynchronously,Output[Parameter];

Buff,Returned data section,Output [Parameter];

Len,Returns the length of the data section,Input[Parameter];

2.5.3 Response

【Return value】> 0：Successful asynchronous ; Return value == 0：Invalid Return value；

< 0：buffer space is not enough，based on Return value, then re-apply the space.

2.5.4 Sample

```
int ret = CChex_Update(anviz_handle, dev_idx, Type, pBuff, len);
if (ret > 0)
{
    switch(Type)
    {
    case CCHEX_RET_DEV_LOGIN_TYPE: // Connect the Anviz device successfully and return the Device ID, Device IP address, Software version, Device type and software version, etc.
```

```
            break;
        case CCHEX_RET_GET_BASIC_CFG_TYPE: // Some basic information about the Anviz device, such as administrator password, firmware version, volume, etc.
            break;
        case CCHEX_RET_DEV_STATUS_TYPE: // Total number of employees, total number of fingerprints, total number of passwords, total number of cards, total attendance records, total new attendance record.
        default:
            break;
        }
    }else if (ret == 0)
    {
        // invalid data
    }else
    {
        // Buff is not enough,
    }
```

2.5.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.6 CChex_GetNetConfig

2.6.1 Description functions

【Function】Query Anviz device's network Configuration

2.6.2 Request

【Mode】 int CChex_GetNetConfig(IntPtr CchexHandle, int DevIdx);

【Parameter】 CChex_Start successfully create the handle, Input[Parameter];

DevIdx,search the device Input[Parameter];

2.6.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】 CChex_Update, Type return CCHEX_RET_GETNETCFG_TYPE

Data Part：

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
byte [4]IpAddr;// IP address
byte [4]IpMask;// Mask
byte [6]MacAddr;// MAC
byte [4]GwAddr;// Gateway
byte [4]ServAddr;// Sever IP address
byte RemoteEnable;//Standby
byte [2]Port;// Port
byte Mode;// Mode：0: Server, 1:Client
byte DhcpEnable;// DHCP, 0:Disable, 1:Enable
```

2.6.4 Sample

```
int ret  =CChex_GetNetConfig();
```

2.6.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.7 CChex_SetNetConfig

2.7.1 Description functions

【Function】Set the network configuration of the Anviz device.

2.7.2 Request

【Mode】 int CChex_SetNetConfig(IntPtr CchexHandle, int DevIdx, ref CCHEX_NETCFG_INFO_STRU Config);

【Parameter】CchexHandle：,CChex_Start successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Config:

byte [4]IpAddr;// IP Address

byte [4]IpMask;// Mask

byte [6]MacAddr;// MAC address

byte [4]GwAddr;// Gateway

byte [4]ServAddr;// Server IP

byte RemoteEnable;//Standby

byte [2]Port;// Port

byte Mode;// Mode：0:Server, 1:Client

byte DhcpEnable;// DHCP, 0:Disable, 1:Enable

2.7.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update,Type return CCHEX_RET_SETNETCFG_TYPE

```
Data part:
   uint MachineId;        // Device ID
   int Result;            // 0:OK, -1:error
```

2.7.4 Sample

```
int ret = (anviz_handle, dev_idx, ref dev_info);
```

2.7.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.8 CChex_MsgGetByIdx

2.8.1 Description functions

【Function】Reads the designated short message's start date, end date, and message content .

2.8.2 Request

【Mode】int CChex_MsgGetByIdx(IntPtr CchexHandle, int DevIdx, byte Idx);

【Parameter】CchexHandle: ,CChex_Start successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Idx,Read the short message, Input[Parameter];

2.8.3 Response

【Return value】1: The command was executed successfully.; Minus: Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGGETBYIDX_UNICODE_INFO_TYPE

```
Data part:
   uint MachineId;        // Device ID
   int Result;            // 0:OK, -1:error
   int Len;               // The length of the following data
   byte[5] EmployeeId;    // User ID, 0 means public short message
   byte StartYear;        // Start time Year
   byte StartMonth;       // Start time Month
   byte StartDay;         // Start time Day
   byte EndYear;          // End time Year
   byte EndMonth;         // End time Month
   byte EndDay;           // End time Day
   byte [48*2]content     // Content of short message,UNICODE
```

2.8.4 Sample

int ret = CChex_MsgGetByIdx(anviz_handle, dev_idx, msg_idx);

2.8.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.9 CChex_MsgDelByIdx

2.9.1 Description functions

【Function】Delete the designated short message

2.9.2 Request

【Mode】 int CChex_MsgDelByIdx(IntPtr CchexHandle, int DevIdx, byte Idx);

【Parameter】 CChex_Start, successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Idx,Delete the designed short message,Input[Parameter]

2.9.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】 CChex_Update, Type return CCHEX_RET_MSGDELBYIDX_INFO_TYPE

Data Part：

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
```

2.9.4 Sample

int ret =CChex_MsgDelByIdx(anviz_handle, dev_idx, msg_idx);

2.9.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.10 CChex_MsgAddNew

2.10.1 Description functions

【Function】 Add short message.

2.10.2 Request

【Mode】 int CChex_MsgAddNew(IntPtr CchexHandle, int DevIdx, byte[] Data, int Len);

【Parameter】 CChex_Start, successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Data,Short message, Input[Parameter];

```
byte[5] EmployeeId;   // User ID, 0 means public short message
byte StartYear;       // Start time Year
byte StartMonth;      // Start time Month
byte StartDay;        // Start time Day
byte EndYear;         // End time Year
byte EndMonth;        // End time Month
byte EndDay;          // End time Day
byte [48*2]content    // Content of short message,UNICODE
```

Len,the length of short message, Input[Parameter];

2.10.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】 CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part：

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
```

2.10.4 Sample

```
int ret = CChex_MsgAddNew(anviz_handle, dev_idx, send_buff, send_len);
```

2.10.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.11 CChex_MsgGetAllHead

2.11.1 Description functions

【Function】Read all short message headers.

2.11.2 Request

【Mode】`int CChex_MsgGetAllHead(IntPtr CchexHandle, int DevIdx);`

【Parameter】CchexHandle：,successfully create the handle，Input[Parameter]；

DevIdx: Index of device，Input[Parameter]；

2.11.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part：
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
int Len;              // All 50 SMS users, start and end time.
byte[5] EmployeeId;   // User ID，0 means public SMS
```

```
byte StartYear;       // Start time Year
byte StartMonth;      // Start time Month
byte StartDay;        // Start time Day
byte EndYear;         // End time Year
byte EndMonth;        // End time Month
byte EndDay;          // End time Day
  ...Total 50 records
```

2.11.4 Sample

int ret =CChex_MsgGetAllHead(anviz_handle, dev_idx);

2.11.5 Notice

1.Make sure that CChex_Start has been started successfully before run.已经成功启动；

2.12 CChex_RebootDevice

2.12.1 Description functions

【Function】Restart the Anviz device

2.12.2 Request

【Mode】int CChex_RebootDevice(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.12.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part：

```
uint MachineId;        // Device ID
int Result;            // 0:OK, -1:error
```

2.12.4 Sample

```
int ret = CChex_RebootDevice(anviz_handle, dev_idx);
```

2.12.5 Notice

1.Make sure that CChex_Start has been started successfully before run.已经成功启动；

2.13 CChex_SetTime

2.13.1 Description functions

【Function】Set date/time of the Anviz device

2.13.2 Request

【Mode】`int CChex_SetTime(IntPtr CchexHandle, int DevIdx, int Year, int Month, int Day, int Hour, int Min, int Sec);`

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Year、Month、Day、Hour、 Min、 Sec，Input[Parameter]

2.13.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part:
   uint MachineId;       // Device ID
   int Result;           // 0:OK, -1:error
```

2.13.4 Sample

```
int ret = CChex_SetTime(anviz_handle, dev_idx, 2018, 1, 25, 10, 10, 10);
```

2.13.5 Notice

1.Make sure that CChex_Start has been started successfully before run.已经成功启动；

2.14 CChex_GetSNConfig

2.14.1 Description functions

【Function】Get the SN of the Anviz device

2.14.2 Request

【Mode】int CChex_GetSNConfig(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle:,successfully create the handle，Input[Parameter]句柄，Input[Parameter]；

DevIdx: Index of device, Input[Parameter]；

2.14.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part：

uint MachineId;        // Device ID

int Result;            // 0:OK, -1:error

byte[16] sn;           // SN, Each number, and it needs to convert into characters
```

2.14.4 Sample

```
int ret = CChex_GetSNConfig(anviz_handle, dev_idx);
```

2.14.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.15 CChex_DownloadAllRecords

2.15.1 Description functions

【Function】Download all attendance records.

2.15.2 Request

【Mode】`int CChex_DownloadAllRecords(IntPtr CchexHandle, int DevIdx);`

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.15.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command

failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part:

```
uint MachineId;       // Device ID
byte NewRecordFlag;   // New or not record?
byte[5] EmployeeId;   // User ID,
byte[4] Date;         // date/time, The number of seconds apart from 2000.
byte BackId;          // Backup ID, the 3 digits; Card, the 2 digits; Password, the 1~0; 11, 7~4 digits; 10 Fingerprints (1~10) digits
byte RecordType       // Record type, 7 digits; 1: open the door , 0: can't open the door ; 3~0 digits attendance status
byte[3] WorkType;     // Workcode
byte Rsv              // Reserved
```

2.15.4 Sample

```
int ret = CChex_DownloadAllRecords(anviz_handle, dev_idx);
```

2.15.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.16 CChex_DeleteRecordInfo

2.16.1 Description functions

【Function】Delete all records, or clear all/ some new records flag.

2.16.2 Request

【Mode】int CChex_DeleteRecordInfo(IntPtr CchexHandle, int DevIdx, ref

CCHEX_DEL_RECORD_INFO_STRU Config);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Config,Input[Parameter];

byte del_type; // 0:Delete all records; 1：Clear all new record flag; 2：Clear some records flag, and the deleted number based on del_count

uint del_count; // del_type =2 时, assigned clear new records number

2.16.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part：

uint MachineId; // Device ID

int Result; // 0:OK, -1:error

uint deleted_count; // How many records or new records flag be deleted?

2.16.4 Sample

int ret = CChex_DeleteRecordInfo(anviz_handle, dev_idx, ref delete_record);

2.16.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.17 CChex_GetBasicConfigInfo

2.17.1 Description functions

【Function】Get the basic configuration of the Anviz device

2.17.2 Request

【Mode】int CChex_GetBasicConfigInfo(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.17.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part:

```
uint MachineId;        // Device ID
int Result;            // 0:OK, -1:error
CCHEX_GET_BASIC_CFG_INFO_STRU Cfg;
    byte[8] software_version; // firmware version,
    uint password;            // Password, longest support 6 digits
    byte delay_for_sleep;     // Delay sleep time, 0~250 Mins, 0 don't sleep
    byte volume;              // Volume, 0~5, 0: mute, 5: Max
    byte language;            //Language, 0: Simplified Chinese, 1: Traditional Chinese, 2: English, 3.French, 4: Spanish, 5: Portuguese
    byte date_format;         // Date format, 0:Chinese, 1: UK, 2: USA
    byte time_format;         // Time format, 0: 24Houes, 1: 12Hours
    byte machine_status;      // Attendance Status, 0~15
```

```
byte modify_language;      // Modify Language, 0x10 You can modify the
language of the device.
byte cmd_version;          // Instruction version
```

2.17.4 Sample

```
int ret = CChex_GetBasicConfigInfo(anviz_handle, dev_idx);
```

2.17.5 Notice

1. 1.Make sure that CChex_Start has been started successfully before run.;

2.18 CChex_SetBasicConfigInfo

2.18.1 Description functions

【Function】Set the basic configuration of the Anviz device

2.18.2 Request

【Mode】`int CChex_SetBasicConfigInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_SET_BASIC_CFG_INFO_STRU Config);`

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Config,Input[Parameter]; Unmodified fields, 0xFF

```
uint password;             // Password, String convert into number
byte pwd_len;              // Password length
byte delay_for_sleep;      // Delay sleep time, 0~250 Mins, 0 don't sleep
byte volume;               // Volume, 0~5, 0: mute, 5: Max
byte language;             // Language, 0: Simplified Chinese, 1: Traditional
```

```
Chinese, 2: English, 3.French, 4: Spanish, 5: Portuguese
                    byte date_format;          // Date format, 0:Chinese, 1: UK, 2: USA
                    byte time_format;          // Time format, 0: 24Houes, 1: 12Hours
                    byte machine_status;       // Attendance Status, 0~15
                    byte modify_language;      // Modify Language, 0x10 You can modify the
language of the device.
                    byte rsv;                  // Reserved
```

2.18.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part:
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
```

2.18.4 Sample

```
int ret = CChex_SetBasicConfigInfo(anviz_handle, dev_idx, ref set_basic_cfg);
```

2.18.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.19 CChex_ListPersonInfo

2.19.1 Description functions

【Function】Get all user information.

2.19.2 Request

【Mode】int CChex_ListPersonInfo(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.19.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part：

```
uint MachineId;       // Device ID
int CurIdx;           // Current index number
int TotalCnt;         // The total number of users
byte [5]EmployeeId;   // User ID, 5 bytes,Longest 12digits
byte password_len;    // Password length
byte max_password;    // Maximum length of password,= 6, unchangeable
int password;         // Password
byte max_card_id;     // The maximum length of the card number, = 6 (3bytes) or 10 (4bytes), unchangeable
uint card_id;         // Card number
byte max_EmployeeName;     // The maximum length of a user's name, = 10、20 、64 and160,unchangeable; =160 ,The user name is stored in EmployeeName2.
byte[64] EmployeeName;     // User name
```

```
byte DepartmentId;          // Department ID
byte GroupId;               // Group ID
byte Mode;                  // Attendance mode
uint  Fp_Status;            // Fingerprint register status, 0~9:fp; 10:face;
11:iris1; 12:iris2
byte Rserved1;              // for 22
byte Rserved2;              // for 72 and 22
byte Special;               // Special information

// DR info
byte[160] EmployeeName2;    // Employee Name2
byte[13] RFC;               // RFC Information
byte[18] CURP;              // CURP Information
```

2.19.4 Sample

int ret = CChex_ListPersonInfo(anviz_handle, dev_idx);

2.19.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.20 CChex_ModifyPersonInfo

2.20.1 Description functions

【Function】Modify the relevant user's information.

2.20.2 Request

【Mode】 int CChex_ModifyPersonInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_RET_PERSON_INFO_STRU personlist, byte person_num);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

person_num, How many users were changed, Input[Parameter];

Personlist, user details information, Input[Parameter];

```
uint MachineId;       // Device ID
int CurIdx;           // Current index number
int TotalCnt;         // The total number of users
byte [5]EmployeeId;   // User ID, 5 bytes,Longest 12digits
byte password_len;    // Password length
byte max_password;    // Maximum length of password,= 6, unchangeable
int password;         // Password
byte max_card_id;     // The maximum length of the card number, = 6 (3bytes) or 10 (4bytes), unchangeable
uint card_id;         // Card number
byte max_EmployeeName;    // The maximum length of a user's name, = 10、20 、64 and160,unchangeable; =160 ,The user name is stored in EmployeeName2.
byte[64] EmployeeName;    // User name
byte DepartmentId;        // Department ID
byte GroupId;             // Group
byte Mode;                // Attendance mode
uint  Fp_Status;          // Fingerprint register status, 0~9:fp; 10:face; 11:iris1; 12:iris2
byte Rserved1;            // for 22
byte Rserved2;            // for 72 and 22
```

```
byte Special;              // Special information


// DR info
byte[160] EmployeeName2;   // User name 2
byte[13] RFC;              // RFC Information
byte[18] CURP;             // CURP Information
```

2.20.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part:
 uint MachineId;       // Device ID
 int Result;           // 0:OK, -1:error
```

2.20.4 Sample

```
int ret = CChex_ModifyPersonInfo(anviz_handle, dev_idx, ref item, 1);
```

2.20.5 Notice

1.Make sure that CChex_Start has been started successfully before run;

2.21 CChex_DeletePersonInfo

2.21.1 Description functions

【Function】Deletes the assigned person’s information.

2.21.2 Request

【Mode】int CChex_DeletePersonInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_DEL_PERSON_INFO_STRU Config);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Config,Input[Parameter];

byte []EmployeeId; // User ID

byte operation; // Which information be deleted ? The 3 digits: Card; The 2 digits: Password; The 1~0 digits: 1~0 digits ： 11; 7~4 digits：10 Fingerprints（1~10）; 0xFF: Delete all user’s information .

2.21.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part:

uint MachineId; // Device ID

int Result; // 0:OK, -1:error

2.21.4 Sample

int ret = CChex_DeletePersonInfo(anviz_handle, dev_idx, ref delete_item);

2.21.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.22 CChex_DeletePersonInfo_VER_4_NEWID

2.22.1 Description functions

【Function】Delete the user's information

(Version:User ID for Chat DevTypeFlag & 0XFF ==DEV_TYPE_VER_4_NEWID)

2.22.2 Request

【Mode】int CChex_DeletePersonInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_DEL_EMPLOYEE_INFO_STRU_EXT_INF_ID_VER_4_NEWID Config);

【Parameter】CchexHandle：successfully create by CChex_Start the handle，Input[Parameter]；；

DevIdx: Index of device，Input[Parameter]；

Config: Input[Parameter]；

byte [28]EmployeeId; // User ID for the String

byte operation; // Delete user Information the 3 bit is card, The 2 bit is Password ,The 0~1 byte is 11 and the 7~14 bit is number of the fingerprints(1~10)； 0xFF，delete all user information

2.22.3 Response

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_DEL_EMPLOYEE_INFO_TYPE

Data Part：

uint MachineId; // Device ID

int Result; // 0:OK, -1:error

byte [28] EmployeeId; // User ID for the String

2.22.4 Sample

```
int ret = CChex_DeletePersonInfo(anviz_handle, dev_idx, ref delete_item);
```

2.22.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.23 CChex_DownloadFingerPrint

2.23.1 Description functions

【Function】Download fingerprint template from Anviz device

2.23.2 Request

【Mode】`int CChex_DownloadFingerPrint(IntPtr CchexHandle, int DevIdx, byte[] EmployeeId, byte FingerIdx);`

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx,Search the device, Input[Parameter];

EmployeeId, User ID, Input[Parameter];

FingerIdx,Fingerprint Indexing,1~10：means fingerprint number 1~10,Input[Parameter];

2.23.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part：

```
uint MachineId;        // Device ID
int Result;            // 0:OK, -1:error
byte []EmployeeId;     // User ID
byte FpIdx;            // Fingerprint indexing,1~10:means fingerprint number 1~10
uint fp_data_len;      // The length of the fingerprint data.
byte []Data;           // fingerprint data
```

2.23.4 Sample

```
int ret = CChex_DownloadFingerPrint(anviz_handle, dev_idx, EmployeeID, FpIdx);
```

2.23.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.24 CChex_DownloadFingerPrint_VER_4_NEWID

2.24.1 Function

【Function】Download the fingerprint information from the device

(Version:device version DevTypeFlag & 0XFF ==DEV_TYPE_VER_4_NEWID)

2.24.2 Request

【Mode】`int CChex_DownloadFingerPrint_VER_4_NEWID(IntPtr CchexHandle, int DevIdx, byte[] EmployeeId, byte FingerIdx);`

【Parameter】CchexHandle: successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

EmployeeId: byte[28]User ID, Input[Parameter]; User ID for the String

FingerIdx: Fingerprint indexing,1~10:means fingerprint number 1~10,Input[Parameter];

2.24.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_DLFINGERPRT_TYPE

Data Part：

```
uint MachineId;        // Device ID
int Result;            // 0:OK, -1:error
byte [28]EmployeeId;   // User ID //User ID for the String ID byte[28]
byte FpIdx;            // Fingerprint indexing,1~10:means fingerprint number 1~10
uint fp_data_len;      // The length of the fingerprint data.
byte []Data;           // fingerprint data
```

2.24.4 Sample

```
int ret = CChex_DownloadFingerPrint_VER_4_NEWID(anviz_handle, dev_idx, EmployeeID, FpIdx);
```

2.24.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.25 CChex_UploadFingerPrint

2.25.1 Description functions

【Function】Upload fingerprint template to Anviz device

2.25.2 Request

【Mode】int CChex_UploadFingerPrint(IntPtr CchexHandle, int DevIdx, byte[] EmployeeId, byte FingerIdx, byte[] FingerData, int DataLen);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

EmployeeId, User ID, Input[Parameter];

FingerId; Fingerprint indexing, 1~10: means fingerprint number 1~10, Input[Parameter];

FingerData, fingerprint data, Input[Parameter];

DataLen, The length of the fingerprint data, Input[Parameter];

2.25.3 Response

【Return value】1: The command was executed successfully.; Minus: Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part:

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
```

2.25.4 Sample

int ret = CChex_DownloadFingerPrint(anviz_handle, dev_idx, EmployeeID, FpIdx);

2.25.5 Notice

1. 1.Make sure that CChex_Start has been started successfully before run.

2.26 CChex_UploadFingerPrint_VER_4_NEWID

2.26.1 Function

【Function】Upload the fingerprint template to device (Device Type:"FACEPASS7" For :FaceTemplate download)

(Version:Device Version Model DevTypeFlag & 0XFF ==DEV_TYPE_VER_4_NEWID)

2.26.2 Request

【Mode】`int CChex_UploadFingerPrint_VER_4_NEWID(IntPtr CchexHandle, int DevIdx, byte[] EmployeeId, byte FingerIdx, byte[] FingerData, int DataLen);`

【Parameter】CchexHandle: successfully create the handle, Input[Parameter]; ;

DevIdx: Index of device, Input[Parameter];

EmployeeId: User ID, Input[Parameter]; //User ID for the String ID byte[28]

FingerIdx: Fingerprint indexing, 1~10: means fingerprint number 1~10, Input[Parameter];

FingerData, fingerprint data, Input[Parameter];

DataLen, The length of the fingerprint data, Input[Parameter];

2.26.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update Type return CCHEX_RET_ULFINGERPRT_TYPE

Data Part:

```
uint MachineId;        // Device ID
int Result;            // 0:OK, -1:error
byte []EmployeeId;     // /User ID for the String ID byte[28]
```

```
byte FpIdx;          // Fingerprint indexing, 1~10: means fingerprint number
1~10, Input[Parameter];
uint fp_data_len;    // The length of the fingerprint data
byte []Data;         // Fingerprint Data
```

2.26.4 Sample

```
int ret = CChex_DownloadFingerPrint_VER_4_NEWID(anviz_handle, dev_idx, EmployeeID, FpIdx);
```

2.26.5 Notice

1. Make sure that CChex_Start has been started successfully before run.

2.27 CChex_GetTime

2.27.1 Description functions

【Function】Get the date/time of the Anviz device.

2.27.2 Request

【Mode】`int CChex_GetTime(IntPtr CchexHandle, int DevIdx);`

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.27.3 Response

【Return value】1: The command was executed successfully.; Minus: Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part:
 uint MachineId;        // Device ID
 int Result;            // 0:OK, -1:error
 CCHEX_MSG_GETTIME_STRU Cfg;
     uint Year;             //Year
     uint Month;            //Month
     uint Day;              //Day
     uint Hour;             //Hour
     uint Min;              //Minute
     uint Sec;              //Second
```

2.27.4 Sample

int ret = CChex_GetTime(anviz_handle, dev_idx);

2.27.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.28 CChex_InitUserArea

2.28.1 Description functions

【Function】Initial user area

Initialize all user data areas，Clear all user data, fingerprint data, password/card data.

2.28.2 Request

【Mode】int CChex_InitUserArea(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.28.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part：

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
```

2.28.4 Sample

int ret = CChex_InitUserArea(anviz_handle, dev_idx);

2.28.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.29 CChex_InitSystem

2.29.1 Description functions

【Function】initial device

initialize the Anviz device to restore factory Default.

2.29.2 Request

【Mode】 int CChex_InitSystem(IntPtr CchexHandle, int DevIdx);

【Parameter】 CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.29.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】 CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part：

```
uint MachineId;        // Device ID
int Result;            // 0:OK, -1:error
```

2.29.4 Sample

int ret = CChex_InitSystem(anviz_handle, dev_idx);

2.29.5 Notice

1. 1.Make sure that CChex_Start has been started successfully before run.

2.30 CChex_GetBasicConfigInfo2

2.30.1 Description functions

【Function】Get the Anviz device's configuration2

Get device's identification precision, fixed wiegand head, wiegand mode, workcode, real-time attendance records , schedule bell , lock control delay, record overflow warning, repeated attendance record time , door sensor delay, schedule bell delay.

2.30.2 Request

【Mode】int CChex_GetBasicConfigInfo2(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.30.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part:
 uint MachineId;        // Device ID
 int Result;            // 0:OK, -1:error
 CCHEX_GET_BASIC_CFG_INFO2_STRU_EXT_INF Param;
            byte compare_level;         //identification precision
            byte wiegand_range;         //fixed wiegand head
            byte wiegand_type;          //wiegand mode
            byte work_code;             //Workcode function, enable or disable?
            byte real_time_send;        //Realtime function ,enable or disable?
            byte auto_update;           //Auto-update function, enable or
disable?
            byte bell_lock;             //Schedule bell function, enable or
disable?
            byte lock_delay;            //Lock time delay
            uint record_over_alarm;     //Record overflow alarm
```

```
byte re_attendance_delay;   //Repeat attendance time delay
byte door_sensor_alarm;     //Door sensor time delay
byte bell_delay;            //Schedule bell time delay
byte correct_time;          //Time calibration
```

2.30.4 Sample

int ret = CChex_GetBasicConfigInfo2(anviz_handle, dev_idx);

2.30.5 Notice

1. 1.Make sure that CChex_Start has been started successfully before run.

2.31 CChex_SetBasicConfigInfo2

2.31.1 Description functions

【Function】Set up the Anviz device's configuration information2

2.31.2 Request

【Mode】int CChex_SetBasicConfigInfo2(IntPtr CchexHandle, int DevIdx, ref CCHEX_GET_BASIC_CFG_INFO2_STRU_EXT_INF config);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

config: Input[Parameter];

```
byte compare_level;         //identification precision
byte wiegand_range;         //fixed wiegand head
byte wiegand_type;          //wiegand mode
```

```
byte work_code;                //Workcode function, enable or disable?
byte real_time_send;           //Realtime function ,enable or disable?
byte auto_update;          //Auto-update function, enable or disable?
byte bell_lock;                //Schedule bell function, enable or disable?
byte lock_delay;               //Lock time delay
uint record_over_alarm;        //Record overflow alarm
byte re_attendance_delay;      //Repeat attendance time delay
byte door_sensor_alarm;        //Door sensor time delay
byte bell_delay;               //Schedule bell time delay
byte correct_time;             //Time calibration
```

2.31.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part：

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
```

2.31.4 Sample

```
int ret = CChex_SetBasicConfigInfo2(anviz_handle, dev_idx,ref config);
```

2.31.5 Notice

1. 1.Make sure that CChex_Start has been started successfully before run.

2.32 CChex_GetPeriodTime

2.32.1 Description functions

【Function】Get time zone from device

Read the timezone information， Total 32 timezones。

2.32.2 Request

【Mode】`int CChex_GetPeriodTime(IntPtr CchexHandle, int DevIdx, byte SerialNumbe);`

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

SerialNumbe,timezone number, Input[Parameter];

2.32.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part:
 uint MachineId;        // Device ID
 int Result;            // 0:OK, -1:error
 CCHEX_GET_PERIOD_TIME_ONE_STRU_EXT_INF day[7]; //One week 7 days,28Byte
            byte StartHour;    //Start hour
            byte StartMin;     //Start mins
```

byte EndHour; //End hour

byte EndMin; //End mins

2.32.4 Sample

int ret = CChex_GetPeriodTime(anviz_handle, dev_idx,SerialNumbe);

2.32.5 Notice

1. 1.Make sure that CChex_Start has been started successfully before run.

2.33 CChex_SetPeriodTime

2.33.1 Description functions

【Function】Set timezone

Total 32 timezones。

2.33.2 Request

【Mode】int CChex_SetPeriodTime(IntPtr CchexHandle, int DevIdx, ref CCHEX_SET_PERIOD_TIME_STRU_EXT_INF config);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Config: Input[Parameter];

byte SerialNumbe;

CCHEX_GET_PERIOD_TIME_ONE_STRU_EXT_INF day[7]; //one week with 7 days,so should be have 7 groups,28Byte

byte StartHour; //Start Hour

```
byte StartMin;      //Start Mins
byte EndHour;       //End Hours
byte EndMin;        //End Mins
```

2.33.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part:
 uint MachineId;        // Device ID
 int Result;            // 0:OK, -1:error
```

2.33.4 Sample

```
int ret = CChex_SetPeriodTime(anviz_handle, dev_idx,ref config);
```

2.33.5 Notice

1. 1.Make sure that CChex_Start has been started successfully before run；

2.34 CChex_GetTeamInfo

2.34.1 Description functions

【Function】Get Group information

Read one group information, group number 0-16, group0 = normal close; group1=normal open. Only read group2 - group16.

2.34.2 Request

【Mode】 int CChex_GetTeamInfo(IntPtr CchexHandle, int DevIdx, byte TeamNumbe);

【Parameter】 CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

TeamNumbe:Group number,Input[Parameter];

2.34.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】 CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part:

```
uint MachineId;            // Device ID
int Result;                // 0:OK, -1:error
byte[4]   PeriodTimeNumber;//4Group timezone number(refer to 2.29)
```

2.34.4 Sample

int ret = CChex_GetTeamInfo(anviz_handle, dev_idx,TeamNumbe);

2.34.5 Notice

2. 1.Make sure that CChex_Start has been started successfully before run.

2.35 CChex_SetTeamInfo

2.35.1 Description functions

【Function】Setup group

Setup one group, group number 0- 16, group 0= normal close; group1= normal open, only setup group2 -group16.

2.35.2 Request

【Mode】`int CChex_SetTeamInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_SET_TEAM_INFO_STRU_EXT_INF config);`

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Config: Input[Parameter];

```
byte     TeamNumbe;            //Group Number
byte[4]   PeriodTimeNumber;    //4Group ,timezone
```

2.35.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part:

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
```

2.35.4 Sample

```
int ret = CChex_SetTeamInfo(anviz_handle, dev_idx,ref config);
```

2.35.5 Notice

1. 1.Make sure that CChex_Start has been started successfully before run.

2.36 CCHex_AddFingerprintOnline

2.36.1 Description functions

【Function】Register fingerprint online

2.36.2 Request

【Mode】int CCHex_AddFingerprintOnline(IntPtr CchexHandle, int DevIdx, ref CCHEX_ADD_FINGERPRINT_ONLINE_STRU_EXT_INF Param);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Param: Input[Parameter];

byte[5] EmployeeId; //User ID

byte BackupNum; //Backup number

2.36.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part:

uint MachineId; // Device ID

```
int Result;            // 0:OK, -1:error
```

2.36.4 Sample

int ret = CCHex_AddFingerprintOnline(anviz_handle, dev_idx,ref Param);

2.36.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2. After the recall, the device will register the fingerprint twice, timeout is 10 seconds, the registration error (timeout, operation failure, the user already exists, the fingerprint exists) returned -1, and successfully returns 0.

2.37 CCHex_ForcedUnlock

2.37.1 Description functions

【Function】Open the door by software (Force open the lock)

2.37.2 Request

【Mode】int CCHex_ForcedUnlock(IntPtr CchexHandle, int DevIdx, ref CCHEX_FORCED_UNLOCK_STRU_EXT_INF Param);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Param: Input[Parameter]; (Param =IntPtr.Zerohe ; default null pointer , Malaysia panasonic project customization needs to enter Param);

```
byte     LockCmd;          //Lock command
byte[5]   EmployeeId;      //User ID
```

2.37.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part:
 uint MachineId;        // Device ID
 int Result;            // 0:OK, -1:error
```

2.37.4 Sample

```
int ret = CCHex_ForcedUnlock(anviz_handle, DevIdx,IntPtr.Zero);
```

2.37.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;
2. If Not Malaysia Panasonic project customization, Param none pointer..

2.38 CCHex_Udp_Search_Dev

2.38.1 Description functions

【Function】UDP Research the Anviz device

2.38.2 Request

【Mode】`int CCHex_Udp_Search_Dev(IntPtr CchexHandle);`

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

2.38.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part: (Data length =sizeof(int)+DevNum*sizeof(CCHEX_UDP_SEARCH_STRU_EXT_INF))
    int DevNum;                              // quantity of device, ( =0, No
device,data length =4)
    CCHEX_UDP_SEARCH_STRU_EXT_INF[] dev_net_info;        //Device Data(Single
180Byte)
            uint        MachineId;       //Device ID
            int         Result;          //0: ok -1: fail
            int         DevHardwareType; //device type(0:Normal device;1:support
DNS;2:support wifi)
            byte[167]   Data;            //Data(Convert based on device type)
            Byte        Padding;         //Data alignment, padding
    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
byte[167] Data: Data type definition
Device type = 0 :Normal device
    CCHEX_UDP_SEARCH_STRU BasicSearchInfo;          //normal device 63Byte
        byte[10]   DevType;          //device type
        byte[16]   DevSerialNum;     //device serial numebr
        byte[4]    IpAddr;           //IP Address
        byte[4]    IpMask;           //MASK
        byte[4]    GwAddr;           //Gateway
        byte[6]    MacAddr;          //MAC
        byte[4]    ServAddr;         //Server IP
        byte[2]    Port;             //Port
```

byte NetMode; //network mode

byte[8] Version; //Firmware version

byte[4] Reserved; //Reserved

Device type = 1 :Support DNS firmware

CCHEX_UDP_SEARCH_WITH_DNS_STRU DnsSearchInfo; //Support DNS firmware 167Byte

CCHEX_UDP_SEARCH_STRU BasicSearchInfo; //device type 0:normal device 63Byte structure

byte[4] Dns; //DNS

byte[100] Url; //URL

Device type = 2 : Support wifi

CCHEX_UDP_SEARCH_TWO_CARD_STRU TwocardSearchInfo; \\ support wifi 102Byte

byte[10] DevType; //Device type

byte[16] DevSerialNum; //Device serial number

byte[4] ServAddr; //Server IP

byte[2] Port; //Port

byte NetMode; //Network mode

byte[8] Version; //Firmware version

byte[4] Reserved; //Reserved

byte CardNumber; //Network card number

CCHEX_UDP_SEARCH_CARD_STRU CardInfo[2]; //2group network card information: single network card information = 28Byte

byte[10] CardName; //Network card name

byte[4] IpAddr; //IP Address

byte[4] IpMask; //MASK

byte[4] GwAddr; //Gateway

```
byte[6]    MacAddr;          //MAC Address
```

~~~~~~

2.38.4 Sample

int ret = CCHex_Udp_Search_Dev(anviz_handle);

2.38.5 Notice

1. Make sure that CChex_Start has been started successfully before run.

2.39 CCHex_Udp_Set_Dev_Config

2.39.1 Description functions

【Function】UDP setting device configuration

2.39.2 Request

【Mode】int CCHex_Udp_Set_Dev_Config(IntPtr CchexHandle, ref CCHEX_UDP_SET_DEV_CONFIG_STRU_EXT_INF config);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

```
Config:       Input[Parameter];
    byte[4]    IpAddr;              //IP Address
    byte[4]    IpMask;              //MASK
    byte[4]    GwAddr;              //Gateway
    byte[6]    MacAddr;             //MAC address
    byte[4]    ServAddr;            //Server IP
    byte[2]    Port;                //Port
    byte       NetMode;             //Network mode
```
~~~~~~

```
byte[3]   Padding;            //structure alignment,padding 3byte
uint     NewMachineId;        //New Device ID
byte[4]   Reserved;           //Reserved
byte[12]   DevUserName;       //User name
byte[12]   DevPassWord;       //Password
int        DevHardwareType;   //Device type 0:Normal device ;1:support DNS
device
byte[4]   Dns;                //DNS    device type = 0 Dns , unchangeable
byte[100]   Url;              //URL    device type = 0 Url,unchangeable
```

2.39.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part:
 uint MachineId;       // Device ID
 int Result;           // 0:OK, -1:error
```

2.39.4 Sample

```
int ret = CCHex_Udp_Set_Dev_Config(anviz_handle,ref config);
```

2.39.5 Notice

1. 1.Make sure that CChex_Start has been started successfully before run.

2.40 CCHex_ClientConnect

2.40.1 Description functions

【Function】The client actively connects to the server.

2.40.2 Request

【Mode】int CCHex_ClientConnect(IntPtr CchexHandle, byte[] Ip, int Port);

【Parameter】CchexHandle：successfully create the handle，Input[Parameter];

Ip: Server IP address，Input[Parameter];

Port: Server Port, Input[Parameter];

2.40.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】Failure:CChex_Update,Type return CCHEX_RET_CLINECT_CONNECT_TYPE;

Data Part：

int Result; //-1 err

byte[24] Addr; //IP:Port 如(192.168.100.100:5010)

Successful:CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part：

int DevIdx; //

uint MachineId; //Device ID

byte[24] Addr; //IP:Port For example(192.168.100.100:5010)

byte[8] Version; //Version Number

byte[8] DevType; //Device type

```
int DevTypeFlag;        //Type flag
```

2.40.4 Sample

int ret = CCHex_ClientConnect(anviz_handle,Ip,Port);

2.40.5 Notice

1. 1.Make sure that CChex_Start has been started successfully before run.

2.41 CCHex_ClientDisconnect

2.41.1 Description functions

【Function】The client actively disconnects the server.

2.41.2 Request

【Mode】int CCHex_ClientDisconnect(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.41.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】Failure:CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

Data Part:

```
int Result;          // -1:error
int DevIdx;          //
```

Successful:CChex_Update, Type return CCHEX_RET_MSGADDNEW_UNICODE_INFO_TYPE

```
Data Part:
int DevIdx;              //Index of device, Input[Parameter];
uint MachineId;          //Device ID
uint Live;               //
byte[24] Addr;           //ip:Port   如(192.168.100.100:5010)
byte[8] Version;         //Version number
byte[8] DevType;         //Device type
```

2.41.4 Sample

int ret = CCHex_ClientDisconnect(anviz_handle,DevIdx);

2.41.5 Notice

1.Make sure that CChex_Start has been started successfully before run.

2.42 CChex_GetInfomationCode

2.42.1 Description function

【Function】Gets the factory information

Read the factory information ANSI version data:10Byte,UNICODE version data:20Byte

2.42.2 Request

【Mode】 int CChex_GetInfomationCode(IntPtr CchexHandle, int DevIdx);

【Parameter】 CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.40.3 Response

【Return value】1: The command was executed successfully.; Minus: Execute command failure

【Actual Data】 CChex_Update, Type return CCHEX_RET_GET_INFOMATION_CODE_TYPE

```
Data Part:
   uint MachineId;       // Device ID
   int Result;           // 0:OK, -1:error
   int fp_len;       //ANSI VERSION:fp_len == 10   UNICODE VERSION:fp_len == 20
   byte[20] data;    //
```

2.42.4 Sample

```
int ret = CChex_GetInfomationCode(anviz_handle, dev_idx);
```

2.42.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.43 CChex_SetInfomationCode

2.43.1 Description function

【Function】Modify the factory information

Modify the factory information ANSI version data:10Byte ,UNICODE version data:20Byte

2.43.2 Request

【Mode】int CChex_SetInfomationCode(IntPtr CchexHandle, int DevIdx ,byte[] Data, int DataLen);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Data: Byte[10] or Byte[20] parameter, Input[Parameter];

DataLen: Write the parameters based on the version, , ANSI version = 10,UNICODE version = 20, Input[Parameter];

2.43.3Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_SET_INFOMATION_CODE_TYPE

Data Part:

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
```

2.43.4 Sample

int ret = CChex_SetInfomationCode(anviz_handle, dev_idx,Data,DataLen);

2.43.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.44 CChex_GetBellInfo

2.44.1 Description function

【Function】Get the Schedule bell information

Read all time of schedule bell， totally 30.

2.44.2 Request

【Mode】int CChex_GetBellInfo(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.44.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_BELL_INFO_TYPE

```
Data Part:
   uint MachineId;       // Device ID
   int Result;           // 0:OK, -1:error
   CCHEX_RET_GET_BELL_TIME_POINT time_point[30];
            byte  hour;
            byte  minute;
           byte  flag_week; //Week mark/flag(Binary 0000000 means: Sat Fri Thu Wed
```

Tue Mon Sun)

Byte[2] padding; //data structure alignment , invalid data

2.44.4 Sample

int ret = CChex_GetBellInfo(anviz_handle, dev_idx);

2.44.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.45 CChex_SetBellInfo

2.45.1 Description function

【Function】Setup the schedule bell information

Setup the time of schedule bell

2.45.2 Request

【Mode】int CChex_SetBellInfo(IntPtr CchexHandle, int DevIdx ,byte BellTimeNum,byte Hour,byte Min,byte FlagWeek);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

BellTimeNum: The time to ring the bell, Input[Parameter];

Hour: Hour, Input[Parameter];

Min: Minute, Input[Parameter];

FlagWeek: Week mark/flag(Binary 0000000means: Sat Fri Thu Wed Tue Mon Sun), Input[Parameter];

2.45.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_SET_BELL_INFO_TYPE

```
Data Part:
   uint MachineId;       // Device ID
   int Result;           // 0:OK, -1:error
```

2.45.4 Sample

```
int ret = CChex_SetBellInfo(CchexHandle,DevIdx ,BellTimeNum,Hour,Min,FlagWeek);
```

2.45.5 Notice

1. Make sure that CChex_Start has been started successfully before run.；

2.46 CChex_GetUserAttendanceStatusInfo

2.46.1 Description function

【Function】Gets the self-defining attendance status table

Read the information of self-defining attendance status.

2.46.2 Request

【Mode】int CChex_GetUserAttendanceStatusInfo(IntPtr CchexHandle,int DevIdx);

【Parameter】CchexHandle:,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.46.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_USER_ATTENDANCE_STATUS_TYPE

```
Data Part:
    uint MachineId;       // Device ID
    int Result;           // 0:OK, -1:error
    int fp_len;    //ANSI VERSION: fp_len == 80  UNICODE VERSION   fp_len == 160
    Byte atten_status_number;   //Number of attendance status == 8 default
    Byte[160] data_info;              //data format:  ANSI VERSION: unsigned char
[8][10]  UNICODE VERSION: unsigned char[8][20] 。
    Byte[3] padding;          //data structure alignment, invalid data
```

2.46.4 Sample

int ret = CChex_GetUserAttendanceStatusInfo(anviz_handle, dev_idx);

2.46.5 Notice

1. Make sure that CChex_Start has been started successfully before run.；

2.47 CChex_SetUserAttendanceStatusInfo

2.47.1 Description function

【Function】Setup the self-defining attendance status

Setup the self-defining attendance status.

2.47.2 Request

【 Mode 】 int CChex_SetUserAttendanceStatusInfo(IntPtr CchexHandle, int DevIdx,ref CCHEX_SET_USER_ATTENDANCE_STATUS_STRU Param);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Param：8 groups self-defining status,Input[Parameter];

```
uint fp_len;//ANSI VERSION   fp_len = 80  UNICODE VERSION   fp_len = 160
Byte atten_status_number;            //Number of attendance status 8 default
Byte[160] data_info;//ANSI VERSION:8][10], UNICODE VERSION:[8][20]
Byte[3] padding;                     //alignment, invalid data
```

2.47.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_SET_USER_ATTENDANCE_STATUS_TYPE

Data Part：

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
```

2.47.4 Sample

```
int ret = CChex_SetUserAttendanceStatusInfo(CchexHandle,DevIdx ,ref Param);
```

2.47.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.48 CChex_ClearAdministratFlag

2.48.1 Description function

【Function】Clear the administrator flag

Clear all administrator flag.

2.48.2 Request

【Mode】int CChex_ClearAdministratFlag(IntPtr CchexHandle,int DevIdx);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.48.3 Response

【Return value】1: The command was executed successfully.; Minus: Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_CLEAR_ADMINISTRAT_FLAG_TYPE

```
Data Part:
    uint MachineId;       // Device ID
    int Result;           // 0:OK, -1:error
```

2.48.4 Sample

int ret = CChex_ClearAdministratFlag(anviz_handle, dev_idx);

2.48.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.49 CChex_GetSpecialStatus

2.49.1 Description function

【Function】Get the special status

Get the current special status. Only for VF30/VP30/T60+

2.49.2 Request

【Mode】int CChex_GetSpecialStatus(IntPtr CchexHandle,int DevIdx);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.49.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_SPECIAL_STATUS_TYPE

Data Part:

uint MachineId; // Device ID

int Result; // 0:OK, -1:error

Byte status; //Byte1: Door alarm status 0-normal ,status 1-alarm status; Byte5: Door status 0-close , 1-open; Byte6: Door sensor status 0-close, 1-open; Byte7: Lock status 0-close, 1-open

Byte[7] reserved; //reserved useless in the temporary

2.49.4 Sample

```
int ret = CChex_GetSpecialStatus(anviz_handle, dev_idx);
```

2.49.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.50 CChex_GetAdminCardnumberPassword

2.50.1 Description function

【Function】Read administrator card number or password. Only for T5/M5/T50m

Get administrator card number or password.

2.50.2 Request

【Mode】`int CChex_GetAdminCardnumberPassword(IntPtr CchexHandle,int DevIdx);`

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.50.3 Response

【Return value】1: The command was executed successfully.; Minus: Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_ADMIN_CARD_PWD_TYPE

```
Data Part:
   uint MachineId;        // Device ID
   int Result;            // 0:OK, -1:error
```

```
Byte[13] data;        //device type : T5A,T50

 * Parameter :data[13]  : if the device type is T5A, so:

 DATA    Add card ;delete card ;stress/duress card; special information  Byte
 1-4     5-8        9-12          13

The special information define as below:

  Byte 0: Add card

  Byte 1: Delete card

  Byte 2: Stress/duress

  If the device type is T50, so:

 DATA        Password length+ passwod       Reserved

 Byte           1-3                    4-13

 Password length = Byte(1) >> 4

Byte[3] padding;      //data structure alignment, invalid data
```

2.50.4 Sample

```
int ret = CChex_GetAdminCardnumberPassword(anviz_handle, dev_idx);
```

2.50.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.51 CChex_SetAdminCardnumberPassword

2.51.1 Description function

【Function】Setup administrator card or password. Only for T5/M5/T50M

Setup T5A/M5A admin card and T50M admin password.

2.51.2 Request

【Mode】int CChex_SetAdminCardnumberPassword(IntPtr CchexHandle, int DevIdx,byte[] Data, int DataLen);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Data[13]: Parameter refer to 2.47 :data[13] description , Input[Parameter];

DataLen： length = 13, Input[Parameter];

2.51.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_SET_ADMIN_CARD_PWD_TYPE

Data Part:

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
```

2.51.4 Sample

int ret = CChex_SetAdminCardnumberPassword(CchexHandle,DevIdx,Data,DataLen);

2.51.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.52 CChex_GetDSTParam

2.52.1 Description function

【Function】Read the daylight saving time parameters

Read the flag of daylight saving time and time zone .

2.52.2Request

【Mode】int CChex_GetDSTParam(IntPtr CchexHandle,int DevIdx);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.52.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_DST_PARAM_TYPE

```
Data Part:
   uint MachineId;       // Device ID
   int Result;           // 0:OK, -1:error
   CCCHEX_SET_DST_PARAM_STRU param;  //16byte
       byte enabled;        //0-Disable      1-enable;
      byte ate_week_type;   //1-Date format    2-week format;
      GET_DST_PARAM_TIME start_time;  //7 byte
          byte  month;
          byte  day;
          byte  week_num; //Weekly definition: 0x01-0x04:  First 1-4 week
      0x81-0x82: Last1-2 week
          byte flag_week;      //Week flag: flag_week 0-6:(Binary 0000000 means:
      Sat Fri Thu Wed Tue Mon Sun)
```

```
        byte  hour;
        byte  minute;
        byte  sec;
    GET_DST_PARAM_TIME special_time;  //7 byte
```

2.52.4 Sample

int ret = CChex_GetDSTParam(anviz_handle, dev_idx);

2.52.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.53 CChex_SetDSTParam

2.53.1 Description function

【Function】Setup daylight saving time

Setup daylight saving time flag and time zone

2.53.2 Request

【Mode】int CChex_SetDSTParam(IntPtr CchexHandle, int DevIdx,ref CCHEX_SET_DST_PARAM_STRU Param);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Param: 16byte, Input[Parameter];

```
        byte enabled;        //0-disable      1-enable;
        byte ate_week_type;   //1-Date format   2-week format;
```

```
GET_DST_PARAM_TIME start_time;  //7 byte
    byte  month;
    byte  day;
    byte  week_num; //Weekly definition：0x01-0x04： First 1-4 week
0x81-0x82：Last1-2 week
    byte flag_week;      //Week flag: flag_week 0-6:(Binary 0000000 means：
Sat Fri Thu Wed Tue Mon Sun)
    byte  hour;
    byte  minute;
    byte  sec;
GET_DST_PARAM_TIME special_time;  //7 byte
```

2.53.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_SET_DST_PARAM_TYPE

```
Data Part：
  uint MachineId;       // Device ID
  int Result;           // 0:OK, -1:error
```

2.53.4 Sample

```
int ret = CChex_SetDSTParam(CchexHandle,DevIdx,ref Param);
```

2.53.5 Notice

1. Make sure that CChex_Start has been started successfully before run.；

2.54 CChex_GetDevExtInfo

2.54.1 Description function

【Function】Gets the device extension information code

Read the factory name/Tax number/factory Address

2.54.2 Request

【Mode】int CChex_GetDevExtInfo(IntPtr CchexHandle,int DevIdx);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.54.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_DEV_EXT_INFO_TYPE

```
Data Part:
   uint MachineId;       // Device ID
   int Result;           // 0:OK, -1:error
   CCHEX_SET_DEV_EXT_INFO_STRU param;  //320byte
       Byte[50]  manufacturer_name;        //Factory name
       Byte[100] manufacturer_addr;        //Address
       Byte[15]  duty_paragraph;           //Tax number
       Byte[155] reserved;                 //Reserved
```

2.54.4 Sample

int ret = CChex_GetDevExtInfo(CchexHandle,DevIdx);

2.54.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.55 CChex_SetDevExtInfo

2.55.1 Description function

【Function】Modify the device extension information code

Modify the factory name/Tax number/factory Address

2.55.2 Request

【Mode】int CChex_SetDevExtInfo(IntPtr CchexHandle, int DevIdx,ref CCHEX_SET_DEV_EXT_INFO_STRU Param);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Param：320byte, Input[Parameter];

```
Byte[50]  manufacturer_name;        //factory name
Byte[100] manufacturer_addr;        //factory address
Byte[15]  duty_paragraph;           //Tax number
Byte[155] reserved;                 //Reserved
```

2.55.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_SET_DEV_EXT_INFO_TYPE

```
Data Part:
    uint MachineId;        // Device ID
    int Result;            // 0:OK, -1:error
```

2.55.4 Sample

```
int ret = CChex_SetDevExtInfo(CchexHandle,DevIdx,ref Param);
```

2.55.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.56 CChex_GetBasicConfigInfo3

2.56.1Description function

【Function】Get the device configuration information3

Read Wiegand mode。

2.56.2 Request

【Mode】`int CChex_GetBasicConfigInfo3(IntPtr CchexHandle,int DevIdx);`

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.56.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_BASIC_CFG3_TYPE

Data Part：

```
uint MachineId;       // Device ID
int Result;           // 0:OK, -1:error
CCHEX_SET_BASIC_CFG_INFO3_STRU param;  //15 byte
    Byte wiegand_type;         //wiegand mode
    Byte online_mode;          //online mode
    Byte collect_level;        //Acquisition threshold
    Byte pwd_status;           //communication password status  =0 ,connect don’t need the communication password by TCP/IP; communication password status  =1, send 0x04 command, verify the communication password by TCP/IP
    Byte sensor_status;           //=0  don’t report the door sensor status; =1 activate report the door sensor status（the device will activate send the response of 0x2F command ）
    Byte[8]  reserved;         //Reserved
    Byte  independent_time;    //User independent time limit
    Byte  m5_t5_status;         //= 0  disable;  = 1 enable; Out =2, disable In  =4  disable, out =5  disable, In
Byte padding;     //alignment  invalid data
```

2.56.4 Sample

int ret = CChex_GetBasicConfigInfo3(CchexHandle,DevIdx);

2.56.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.57 CChex_SetBasicConfigInfo3

2.57.1 Description function

【Function】Setup the device configuration information3

Read Wiegand mode

2.57.2 Request

【 Mode 】 int CChex_SetBasicConfigInfo3(IntPtr CchexHandle, int DevIdx,ref CCHEX_SET_BASIC_CFG_INFO3_STRU Config);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Config：15byte, Input[Parameter];

```
Byte wiegand_type;          //wiegand mode

Byte online_mode;           //Online mode

Byte collect_level;         //Acquisition threshold

Byte pwd_status;            //communication password status  =0 ,connect don’t need the communication password by TCP/IP; communication password status  =1, send 0x04 command, verify the communication password by TCP/IP

Byte sensor_status;           //=0  don’t report the door sensor status; =1 activate report the door sensor status（the device will activate send the response of 0x2F command )

Byte[8]  reserved;          //Reserved

Byte  independent_time;     //User independent time limit

Byte  m5_t5_status;          //= 0  disable;  = 1 enable; Out =2, disable In  =4  disable, out =5  disable, In
```

2.57.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_SET_BASIC_CFG3_TYPE

Data Part:

```
uint MachineId;        // Device ID
int Result;            // 0:OK, -1:error
```

2.57.4 Sample

```
int ret = CChex_SetBasicConfigInfo3(CchexHandle,DevIdx,ref Config);
```

2.57.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.58 CChex_ConnectionAuthentication

2.58.1 Description function

【Function】connection identification

connection identification, identification successful, then response the other command; if the identification successful and no data transfer in 5 mins , recover to dis-identification mode

2.58.2 Request

【 Mode 】 int CChex_ConnectionAuthentication(IntPtr CchexHandle, int DevIdx,ref CCHEX_CONNECTION_AUTHENTICATION_STRU Param);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Param: 24byte, Input[Parameter];

```
Byte[12] username;

Byte[12] password;

//Iris user name “admin”, password “admin”,

//Other devices, don’t identify user name, only identify communication password.
```

2.58.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_CONNECTION_AUTHENTICATION_TYPE

```
Data Part:

  uint MachineId;       // Device ID

  int Result;           // 0:OK, -1:error
```

2.58.4 Sample

```
int ret = CChex_ConnectionAuthentication(CchexHandle,DevIdx,ref Param);
```

2.58.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.59 CChex_GetRecordNumByEmployeeIdAndTime

2.59.1 Description function

【Function】Get the record quantity by user ID and time. Only support A20/972 hardware platform devices.

Get the record quantity by user ID and time.

2.59.2 Request

【 Mode 】 int CChex_GetRecordNumByEmployeeIdAndTime(IntPtr CchexHandle, int DevIdx,ref CCHEX_GET_RECORD_INFO_BY_TIME Param);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Param：13byte, Input[Parameter];

Byte[5] EmployeeId; //User ID

Byte[4] start_date; //The number of seconds after 2000.1.2

Byte[4] end_date; //The number of seconds after 2000.1.2

User ID = 0xFF means all users

Start date = 0xFF, means unlimit the start date

End date = 0xFF, means unlimit the end date

2.59.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_RECORD_NUMBER_TYPE

Data Part：

uint MachineId; // Device ID

int Result; // 0:OK, -1:error

int record_num; // record quantity

2.59.4 Sample

int ret = CChex_GetRecordNumByEmployeeIdAndTime(CchexHandle,DevIdx,ref Param);

2.59.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.60 CChex_DownloadRecordByEmployeeIdAndTime

2.60.1 Description function

【Function】Get the record by user ID and time. Only support A20/972 hardware platform devices.

Get the record by user ID and time。

2.60.2 Request

【 Mode 】 int CChex_DownloadRecordByEmployeeIdAndTime(IntPtr CchexHandle, int DevIdx,ref CCHEX_GET_RECORD_INFO_BY_TIME Param);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Param：13byte, Input[Parameter];

```
Byte[12] EmployeeId;       //user ID
Byte[4] start_date;        //The number of seconds after 2000.1.2
Byte[4] end_date;          //The number of seconds after 2000.1.2
```

User ID = 0xFF means all users

Start date = 0xFF, means unlimit the start date

End date = 0xFF, means unlimit the end date

2.60.3Response

【Return value】1：The command was executed successfully.; Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_RECORD_BY_EMPLOYEE_TIME_TYPE

Data Part：

```
uint MachineId;            // Device ID
int Result;                // 0:OK, -1:error
Byte[5]  EmployeeId;       //User ID
Byte[4]  char date;        //date time
Byte     char back_id;     //back ID
Byte     ecord_type;       //record type
Byte[3]  work_type;    //work code
Byte[2]  padding;      //alignment invalid data
```

Note: The number of times this type of data is returned based on the number of records recorded during the output download time

2.60.4 Sample

```
int ret = CChex_DownloadRecordByEmployeeIdAndTime(CchexHandle,DevIdx,ref Param);
```

2.60.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.61 Send attendance records in real time

2.61.1 Description function

【Function】Send the records in real time

After verification, the attendance information will be output automatically, and only the response information will be available.

2.61.2 Request

【Mode】

【Parameter】

2.61.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_LIVE_SEND_ATTENDANCE_TYPE

Data Part：

```
uint MachineId;           // Device ID
int Result;               // 0:OK, -1:error
byte[5]  EmployeeId;      //user ID
byte[4]  timestamp;       //The number of seconds after 2000.1.2
Byte     backup;          //backup ID
byte     record_type;     //record type
byte[3]  work_type[3];    //workcode
byte[2]  padding[2];
```

2.61.4Sample

2.61.5 Notice

1. Make sure that CChex_Start has been started successfully before run.；
2. Set whether the device configuration information 2 is sent in real time

2.62 CChex_GetRecordInfo

2.62.1 Description function

【Function】Get the record information

Get the record information, contains already register user quantity, already register FP quantity, already register password quantity, all record quantity and new record quantity

2.62.2 Request

【Mode】 int CChex_GetRecordInfoStatus(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

2.62.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_RECORD_INFO_STATUS_TYPE

Data Part:

```
uint MachineId;          // Device ID
uint EmployeeNum;        //User quantity
uint FingerPrtNum;       //FP quantity
uint PasswdNum;
uint CardNum;
uint TotalRecNum;
uint NewRecNum;
```

2.62.4 Sample

int ret = CChex_GetRecordInfoStatus(CchexHandle,DevIdx);

2.62.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.63 CChex_DownloadAllNewRecords

2.63.1 Description function

【Function】Download all record

2.63.2Request

【Mode】int CChex_DownloadAllNewRecords(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle: ,successfully create the handle, Input[Parameter];

DevIdx: Search the device, Input[Parameter]

2.63.3 Response

【Return value】1: The command was executed successfully.; Minus: Execute command failure

【Actual Data】CChex_Update, Type return CCHEX_RET_GET_NEW_RECORD_INFO_TYPE

Data Part:

```
uint MachineId;       // Device ID
byte NewRecordFlag;   // new record or no
byte[5] EmployeeId;   // User ID,
byte[4] Date;         // Time, The number of seconds after 2000.1.2
byte BackId;          // Backup ID, 3 digits: Card, 2 digits: , 1~0: 11, digits
```

7~4：10 FP templates（1~10）

byte RecordType // Record type，7 digits：1：open the door，0：can’t open the door；3~0 digits attendance status

byte[3] WorkType; // workcode

byte Rsv // reserved

2.63.4 Sample

int ret = CChex_DownloadAllNewRecords(anviz_handle, dev_idx);

2.63.5 Notice

1. Make sure that CChex_Start has been started successfully before run.;

2.64 Upload user information

【Function】upload user information

2.64.2 Request

【Mode】call the universal interface **2.20** CChex_ModifyPersonInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_RET_PERSON_INFO_STRU personlist, byte person_num);

Call by the device type：dev->DevTypeFlag & 0xff

Universal 1：dev->DevTypeFlag & 0xff == 0x01

CChex_UploadEmployeeInfo(IntPtr *CchexHandle, int DevIdx, ref CCHEX_EMPLOYEE_INFO_STRU EmployeeList, byte EmployeeNum);

ASCII universal：dev->DevTypeFlag & 0xff == 0x02

CChex_UploadEmployee2Info(IntPtr *CchexHandle, int DevIdx, ref CCHEX_EMPLOYEE2_INFO_STRU

EmployeeList, byte EmployeeNum);

UNICODE universal：dev->DevTypeFlag & 0xff == 0x04

CChex_UploadEmployeeInfo(IntPtr *CchexHandle, int DevIdx, ref CCHEX_EMPLOYEE2UNICODE_INFO_STRU

EmployeeList, byte EmployeeNum);

UNICODE_W2 universal：dev->DevTypeFlag & 0xff == 0x20

CChex_UploadEmployeeInfo(IntPtr *CchexHandle, int DevIdx, ref CCHEX_EMPLOYEE2W2_INFO_STRU

EmployeeList, byte EmployeeNum);

【Parameter】CchexHandle：,successfully create the handle, Input[Parameter];

DevIdx: Search the device, Input[Parameter]

EmployeeNum：Increase the number of employees (8 or 12 per upload per device type and customization)

Universal 1：dev->DevTypeFlag & 0xff == 0x01

```
CCHEX_EMPLOYEE_INFO_STRU                //28byte
        byte[5] EmployeeId;             //user id  only one mark
        byte[3] Passwd;                 //password
        byte[3] CardId;                 //card ID
        byte[10] EmployeeName;          //name
        byte DepartmentId;              //department ID
        byte GroupId;                   //Group ID
        byte Mode;                      //Attendance mode
        byte[2] FpStatus;               //FP registration status
        byte Special;                   //Count of the in formations
        byte Padding;                   //Invalid structure alignment
```

ASCII Universal：dev->DevTypeFlag & 0xff == 0x02

```
CCHEX_EMPLOYEE2_INFO_STRU               //32byte
        byte[5] EmployeeId;         //user id  only one mark
        byte[3] Passwd;             //Password
        byte[4] CardId;             //Card Number
        byte[10] EmployeeName;      //Name
        byte DepartmentId;          //Department ID
        byte GroupId;               //Group ID
        byte Mode;                  //Time attendance mode
        byte[2] FpStatus;           //Fingerprint Status
        byte PwdH8bit;              //password high 8 bits
        byte Rserved;               //Save
        byte Special;               //Count of the in formations
        Byte[2] Padding;            //Invalid structure alignment
```

UNICODE Universal：dev->DevTypeFlag & 0xff == 0x04

```
CCHEX_EMPLOYEE2UNICODE_INFO_STRU        //40byte
        byte[5] EmployeeId;         //user id  only one mark
        byte[3] Passwd;             //Password
        byte[4] CardId;             //Card Number
        byte[20] EmployeeName;      //Name
        byte DepartmentId;          //Department ID
        byte GroupId;               //Group ID
        byte Mode;                  //Time attendance mode
```

```
byte[2] FpStatus;          //Fingerprint Status

byte PwdH8bit;             //Password high 8 bits

byte Rserved;              //Save

byte Special;              //Count of the in formations
```

UNICODE_W2 Universal：dev->DevTypeFlag & 0xff == 0x20

CCHEX_EMPLOYEE2W2_INFO_STRU

```
CCHEX_EMPLOYEE2UNICODE_INFO_STRU        //40byte

byte[5] EmployeeId;        //user id  only one mark

byte[3] Passwd;            //Password

byte[4] CardId;            //Card Number

byte[20] EmployeeName;     //Name

byte DepartmentId;         //Department ID

byte GroupId;              //Group ID

byte Mode;                 //Time attendance mode

byte[2] FpStatus;          //Fingerprint Status

byte PwdH8bit;             //Password high 8 bits

byte Rserved;              //Save

byte Special;              //Count of the in formations

    byte[4]  start_date        //Employee starting time, The number of seconds after
2000.1.2


    byte[4]  end_date          //Employee ending time, The number of seconds after
2000.1.2
```

2.64.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update, Type return

Universal 1：dev->DevTypeFlag & 0xff == 0x01

CCHEX_RET_ULEMPLOYEE_INFO_TYPE

ASCII Universal ：dev->DevTypeFlag & 0xff == 0x02

CCHEX_RET_ULEMPLOYEE2_INFO_TYPE

UNICODE Universal：dev->DevTypeFlag & 0xff == 0x04

CCHEX_RET_ULEMPLOYEE2UNICODE_INFO_TYPE

UNICODE_W2 Universal：dev->DevTypeFlag & 0xff == 0x20

CCHEX_RET_ULEMPLOYEE2W2_INFO_TYPE

Data Part：

```
uint MachineId;        // Device ID
int Result;            // 0:OK, -1:error
```

2.64.4 Sample

int ret = CChex_UploadEmployeeInfo(anviz_handle, dev_idx, EmployeeList, 1);

2.64.5 Notice

1. Make sure that CChex_Start has been started successfully before run.；

2.65 Chex_GetBasicConfigInfo5

2.65.1 Function

【Function】获取考勤机配置信息 5（Bolid 定制）

2.65.2 Request

【Mode】int CChex_GetBasicConfigInfo5(IntPtr CchexHandle, int DevIdx);

【Parameter】CchexHandle：successfully create the handle，Input[Parameter]；

DevIdx: Index of device，Input[Parameter]；参；

2.65.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_GET_BASIC_CFG5_TYPE

Data Part：

```
uint     MachineId;        // Device ID
Int      Result;           // 0:Succes  -1：Failure
byte     fail_alarm_time;  // 勤失败报警次数: 0: 不报警 1~10 N 次失败报警
byte     tamper_alarm;     // 防拆报警: 0: 关闭 1: 开启
byte[94] reserved;         // reserved
```

2.65.4 Sample

int ret = CChex_GetBasicConfigInfo5(anviz_handle, dev_idx);

2.65.5 Notice

1. Make sure that CChex_Start has been started successfully before run.

2.66 CChex_SetBasicConfigInfo 5

2.66.1 Function

【Function】Setup Time attendance device information 5（Bolid Customize）

2.66.2 Request

【Mode】int CChex_SetBasicConfigInfo5(IntPtr CchexHandle, int DevIdx,ref CCHEX_SET_BASIC_CFG_INFO5_STRU Param);

【Parameter】CchexHandle：successfully create the handle，Input[Parameter];

DevIdx: Index of device，Input[Parameter];

Param: //96 byte （0xFF means do not setup）

```
byte     fail_alarm_time;  // Times of Attendance Fail Alarm: 0: Do not alarm out 1~10 times of alarm out
byte     tamper_alarm;     // Tamper alarm: 0: Close1: Active
byte[94] reserved;         // reserved
```

2.66.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_SET_BASIC_CFG5_TYPE

Data Part：

```
uint     MachineId;        // Device ID
Int      Result;           // 0:Succes  -1：Failure
```

2.66.4 Sample

```
int ret = CChex_SetBasicConfigInfo5(anviz_handle, dev_idx,ref Param);
```

2.66.5 Notice

1. Make sure that CChex_Start has been started successfully before run.

Function

2.67 CChex_GetCardNo

2.67.1 Function

【Function】Query T5S swipe card information（Bolid Customize）

Notice: 1：The first time call the function ： Setting the device as swipe card mode

2：Swipe card over time > 5sec；

3：The second time call the function ： Return the last Card number before called the function.

2.67.2 Request

【Mode】`int Chex_GetCardNo(IntPtr CchexHandle, int DevIdx);`

【Parameter】`CchexHandle: successfully create the handle, Input[Parameter];`

`DevIdx: Index of device, Input[Parameter];`

2.67.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】`CChex_Update Type Return CCHEX_RET_GET_CARD_ID_TYPE`

```
Data Part:
   uint     MachineId;        // Device ID
   Int      Result;           // 0:Succes  -1: Failure
   Uint    card_id;           //Card Number
```

2.67.4 Sample

int ret = Chex_GetCardNo(anviz_handle, dev_idx);

2.67.5 Notice

1. Make sure that CChex_Start has been started successfully before run.

2.68 CChex_SetDevCurrentStatus

2.68.1 Function

【Function】User to modify the device status by temporary（Bolid Customize）

2.68.2 Request

【Mode】int CChex_SetDevCurrentStatus(IntPtr CchexHandle, int DevIdx,ref CCHEX_SET_DEV_CURRENT_STATUS_STRU Param);

【Parameter】CchexHandle：successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Param: //96 byte （0xFF means do not setup）

```
byte     alarm_stop;       //Disable the Alarm except 0XFF
byte     door_status       //0: Setting the access control as normal 1: Setting the access control as normal Open   2: Setting the access control as normal Close
byte[94] reserved;         // reserved
```

2.68.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_SET_DEV_CURRENT_STATUS_TYPE

```
Data Part:
    uint     MachineId;        // Device ID
    Int      Result;           // 0:Succes  -1: Failure
```

2.68.4 Sample

```
int ret = CChex_SetDevCurrentStatus(anviz_handle, dev_idx,ref Param);
```

2.68.5 Notice

1. Make sure that CChex_Start has been started successfully before run.

2.69 CChex_GetServiceURL

2.69.1 Function

【Function】Get the server's URL

2.69.2 Request

【Mode】`int CChex_GetServiceURL(IntPtr CchexHandle, int DevIdx);`

【Parameter】CchexHandle: successfully create the handle, Input[Parameter];

DevIdx: Search the device, Input[Parameter]

2.69.3 Response

【Return value】1: The command was executed successfully.; Minus: Execute command failure

【Actual Data】CChex_Update return CCHEX_RET_GET_URL_TYPE

```
Data Part:
    uint        MachineId;      // device ID
    Int         Result;         // 0:Success  -1: Fail
    Byte[4]     Dns             //dns address
    byte[100]   Url;        //URL address
```

2.69.4 Sample

int ret = CChex_GetServiceURL(anviz_handle, dev_idx);

2.69.5 Notice

1. Make sure the CChex_Start already active before running

2.70 CChex_SetServiceURL

2.70.1 Function

【Function】Setuphe server's URL

2.70.2 Request

【Mode】int CChex_SetServiceURL(IntPtr CchexHandle, int DevIdx,ref CCHEX_SET_URL_STRU Param);

【Parameter】CchexHandle: successfully create the handle, Input[Parameter];

```
DevIdx: Search the  device, Input[Parameter]
Param:   //104 byte
    Byte[4]     Dns         //dns Address
    byte[100]   Url;        //URL Address
```

2.70.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update Type return CCHEX_RET_SET_URL_TYPE

```
Data Part:
   uint         MachineId;        // Device ID
   Int          Result;           // 0:Success  -1: Fail
```

2.70.4 Sample

```
int ret = CChex_SetServiceURL(anviz_handle, dev_idx,ref Param);
```

2.70.15 Notice

1.Make sure the CChex_Start already active before running

2.71 CChex_UploadFile

2.71.1 Function

【Function】Update firmware, Image and Voice

2.71.2 Request

【Mode】int CChex_UploadFile(IntPtr CchexHandle, int DevIdx, byte FileType, byte[] FileName, byte[] Buff, int Len);

【Parameter】CchexHandle：successfully create the handle，Input[Parameter]；

DevIdx: Search the device，Input[Parameter]

FileType: = 0 Firmware，= 1 Image，= 2 Voice，= 3 Language

FileName: The name update to the device（MAX_len = 10)；

Buff: The uploaded file is read as a string;

Len: The length of the string of the uploaded file.

2.71.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update Type return CCHEX_RET_UPLOADFILE_TYPE

Data Part:

```
uint        MachineId;      // Device ID
int         Result;         // 0:Success  -1: Fail
uint        TotalBytes;     // Total length of the uploaded string
uint        SendBytes;      // Length already uploaded
```

Notice：Every 32K of data is uploaded will return the type once SendBytes == TotalBytes，the upload is completed.

2.71.4 Sample

```
int ret = CChex_UploadFile(CchexHandle,DevIdx,FileType,FileName,Buff,Len);
```

2.71.5 Notice

1. Make sure the CChex_Start already active before running

2.72 CChex_UpdateDevStatus

2.72.1 Function

【Function】ask device the status of the firmware updating

Notice: After the upgrade package is uploaded, it is called multiple times. When the result is: 1: Check completion 2: The verification is successful. You can restart the upgrade

2.72.2 Request

【Mode】`int CChex_UpdateDevStatus(IntPtr CchexHandle, int DevIdx);`

【Parameter】CchexHandle：successfully create the handle，Input[Parameter]；

DevIdx: Search the device，Input[Parameter]

2.72.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update Type return CCHEX_RET_UPDATEFILE_STATUS_TYPE

Data Part：

```
uint        MachineId;       // Device ID
Int         Result;          // 0:Success  -1：Fail
int         verify_status;   // 0:verifying ;1: Verify Success
int         verify_ret;      // 0:Verify Success;1:Verify Fail
```

2.72.4 Sample

int ret = CChex_UpdateDevStatus(anviz_handle, dev_idx);

2.72.5 Notice

1. Make sure the CChex_Start already active before running

2.73 CChex_GetStatusSwitch

2.73.1 Function

【Function】Get status switch information, total with 16 status

Notice：Device TypeDevTypeFlag & 0x200000 = = 1 can be called

2.73.2 Request

【Mode】int CChex_GetStatusSwitch(IntPtr CchexHandle, int DevIdx,byte GroupId);

【Parameter】CchexHandle：successfully create the handle，Input[Parameter];

DevIdx: Search the device，Input[Parameter]

GroupId：Edit Group ID

2.73.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_GET_STATUS_SWITCH_TYPE

Data Part：

uint MachineId; // Device IDInt Result; // 0:Success -1：Fail

```
byte          group_id;          //get the group number
CCHEX_GET_PERIOD_TIME_ONE_STRU_EXT_INF day_week[7]; //7 groups as 7day for one
                                                    week. One  group
                                                    with 28Byte

        byte StartHour;     //Starting Hour
        byte StartMin;      //Starting Mins
        byte EndHour;       //Ending Hour
        byte EndMin;        //Ending Mins
byte          status_id;         //Setup status number
Byte[2]       padding;           //Invalid data, fill in the structure
```

2.73.4 Sample

```
int ret = CChex_GetStatusSwitch(anviz_handle, dev_idx,GroupId);
```

2.73.5 Notice

1. Make sure the CChex_Start already active before running

2.74 CChex_SetStatusSwitch

2.74.1 Function

【Function】Setup status switch information, total with 16 status

Notice：Device Type DevTypeFlag & 0x200000 = = 1 can be called

2.74.2 Request

【Mode】 int CChex_SetStatusSwitch(IntPtr CchexHandle, int DevIdx, ref

CCHEX_SET_STATUS_SWITCH_STRU Param);

【Parameter】CchexHandle：successfully create the handle，Input[Parameter]；

DevIdx: Search the device，Input[Parameter]

Param： // 32 byte

byte group_id; //get the group number

CCHEX_GET_PERIOD_TIME_ONE_STRU_EXT_INF day_week[7]; // 7 groups as 7day for one week. One group with 28Byte

byte StartHour; //Starting Hour

byte StartMin; //Starting Mins

byte EndHour; //Ending Hour

byte EndMin; //Ending Mins

byte status_id; //Setup status number

Byte[2] padding; //Invalid data, fill in the structure

2.74.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_SET_STATUS_SWITCH_TYPE

Data Part：

uint MachineId; // Device IDInt Result; // 0:Success -1：Fail

2.74.4 Sample

int ret = CChex_SetStatusSwitch(anviz_handle, dev_idx,ref Param);

2.74.5 Notice

1. Make sure the CChex_Start already active before running

2.75 CChex_GetStatusSwitch_EXT

2.75.1 Function

【Function】Get status switch information

Notice：Device TypeDev TypeFlag & 0x100000 = = 1 can be called

2.75.2 Request

【Mode】`int CChex_GetStatusSwitch_ext(IntPtr CchexHandle, int DevIdx,byte FlagWeek);`

【Parameter】CchexHandle：successfully create the handle，Input[Parameter]；

DevIdx: Search the device，Input[Parameter]

FlagWeek：Week day as 0-6，to represent Sun. to Sat.，Such as Monday ：00000010

2.75.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update Type return CCHEX_RET_GET_STATUS_SWITCH_EXT_TYPE

```
Data Part:
    uint        MachineId;      // Device IDInt          Result;         //
0:Success  -1: Fail
    byte        flag_week;      //get the group number
    CCHEX_ONE_TIMER_STATUS one_time[8]; //8 time zone 40Byte
```

```
byte StartHour;     //Starting Hour
byte StartMin;      //Starting Mins
byte EndHour;       //Ending Hour
byte EndMin;        //Ending Mins
byte status_id;     //Setup status number
Byte[3]      padding;          //Invalid data, fill in the structure
```

2.75.4 Sample

int ret = CChex_GetStatusSwitch_EXT(anviz_handle, dev_idx,flag_week);

2.75.5 Notice

2. Make sure the CChex_Start already active before running

2.76 CChex_SetStatusSwitch_EXT

2.76.1 Function

【Function】Setup time attendance status information

Notic：Device type DevTypeFlag & 0x100000 = = 1 can be call

2.76.2 Request

【Mode】int CChex_SetStatusSwitch_EXT(IntPtr CchexHandle, int DevIdx, ref CCHEX_SET_STATUS_SWITCH_STRU_EXT Param);

【Parameter】CchexHandle：successfully create the handle，Input[Parameter]；

DevIdx: Search the device，Input[Parameter]

Param: // 44 byte

```
byte          flag_week;        //get the group number
CCHEX_ONE_TIMER_STATUS one_time[8]; //8 timezone  40Byte
            byte StartHour;     //Starting Hour
            byte StartMin;      //Starting Mins
            byte EndHour;       //Ending Hour
            byte EndMin;        //Ending Mins
            byte status_id;     //Setup status number
Byte[3]       padding;          //Invalid data, fill in the structure
```

2.76.3 Response

【Return value】1：The command was executed successfully.；Minus：Execute command failure

【Actual Data】CChex_Update Type return CCHEX_RET_SET_STATUS_SWITCH_EXT_TYPE

```
Data Part:
   uint          MachineId;        // Device IDInt           Result;          //
0:Success  -1: Fail
```

2.76.4 Sample

```
int ret = CChex_SetStatusSwitch_EXT(anviz_handle, dev_idx,ref Param);
```

2.76.5 Notice

1. Make sure the CChex_Start already active before running

2.77 CChex_Get_Service_Port

2.77.1 Function

【Function】Setup the current server port

2.77.2 Request

【Mode】`int CChex_Get_Service_Port(IntPtr CchexHandle);`

【Parameter】`CchexHandle: successfully create the handle, Input[Parameter];`

2.77.3 Sample

int ret = `CChex_Get_Service_Port(CchexHandle);`

【Return value】Return`ret as server port`

2.78 CChex_SetSdkConfig

2.78.1 Function

【Function】Monitor the records status, the new record will automatic download and after download new records automatic to make a flag and SDK will print out to the LOG folder.

* after CChex_Start();

* para :

* SetRecordflag = 1 set recordflag after download new record;else = 0

* SetLogFile = 1 set some info log to file for find problem ;else = 0

* if do not set "CChex_SetSdkConfig(void *CchexHandle, int SetAutoDownload,int SetRecordflag,int SetLogFile)", config is default

* ANVIZ_DEFAULT:

* W2 : SetRecordflag = 1,SetLogFile = 0,SetAutodownload = 1;

* SEATS : SetRecordflag = 1,SetLogFile = 0,SetAutodownload = 1;

* DR : SetRecordflag = 0,SetLogFile = 0,SetAutodownload = 1;

```
*                                   COMMON : SetRecordflag = 0,SetLogFile = 0,SetAutodownload = 1;
*                                   Bolid      : SetRecordflag = 1,SetLogFile = 0,SetAutodownload = 1;
```

2.78.2 Request

【Mode】void CChex_SetSdkConfig(IntPtr CchexHandle, int SetAutoDownload,int SetRecordflag, int SetLogFile);

【Parameter】SetAutodownload: = 1: Monitor records status , when get new records automatic download record,others do not download automatic

SetRecordflag: = 1:After download new records automatic to make a flag.

SetLogFile: = 1:SDK Print out to Log file

2.78.3 Sample

```
int ret = CChex_SetSdkConfig(CchexHandle,1,1,0);
;
```

2.79 CChex_UploadRecord

2.79.1 Function

【Function】Upload Time Attendance Records

2.79.2 Request

【Mode】int CChex_UploadRecord(IntPtr CchexHandle, int DevIdx, ref CCHEX_UPLOAD_RECORD_INFO_STRU Param);

【Parameter】CchexHandle：successfully create the handle，Input[Parameter];

DevIdx: Index of device，Input[Parameter];

Param： //

```
    Byte[5]  EmployeeId;       //Employee Id
    Byte[4]  char date;        //Date
```

```
Byte      char back_id;      //Backup ID
Byte      ecord_type;        //Record Type
Byte[3]   work_type;    //Work Code
```

2.79.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_UPLOAD_RECORD_TYPE   //87

```
Data Part:
   uint          MachineId;        // Device ID
   Int           Result;           // 0:Succes  -1: Failure
   Byte[5]       EmployeeId;            // digital of Employee Id
   Byte[3]       padding;          // 无效数据结构对齐
```

2.79.4 Sample

```
int ret = CChex_UploadRecord(anviz_handle, dev_idx,ref Param);
```

2.79.5 Notice

2. Make sure that CChex_Start has been started successfully before run.

2.80 CChex_UploadRecord_VER_4_NEWID

2.80.1 Function

【Function】Upload Time Attendance Records

(Version: Device Type DevTypeFlag & 0XFF ==DEV_TYPE_VER_4_NEWID)

2.80.2 Request

【Mode】int CChex_UploadRecord_VER_4_NEWID(IntPtr CchexHandle, int DevIdx, ref CCHEX_UPLOAD_RECORD_INFO_STRU_VER_4_NEWID Param);

【Parameter】CchexHandle: successfully create the handle, Input[Parameter];

DevIdx: Index of device, Input[Parameter];

Param: //

```
Byte[28]  EmployeeId;      // String of Employee Id
Byte[4]   date;            //Date
Byte      back_id;         //Backup ID
Byte      ecord_type;      //Record Type
Byte[3]   work_type;       //Work Code
```

2.80.3 Respond

【Return value】1: The command was executed successfully; Minus: Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_UPLOAD_RECORD_TYPE //87

Data Part:

```
uint         MachineId;        // Device ID
Int          Result;           // 0:Succes  -1: Failure
Byte[28]     EmployeeId;           // String of Employee Id
```

2.80.4 Sample

```
int ret = CChex_UploadRecord_VER_4_NEWID(anviz_handle, dev_idx,ref Param);
```

2.80.5 Notice

3. Make sure that CChex_Start has been started successfully before run.

2.81 CChex_GetOnePersonInfo

(Version :digital of Employee Id)

CChex_GetOnePersonInfo_VER_4_NEWID

(Version:

String of Employee Id DevTypeFlag & 0XFF ==DEV_TYPE_VER_4_NEWID)

2.81.1 Function

【Function】According to employee Id to get user information

2.81.2 Request

【Mode】`int CChex_GetOnePersonInfo(IntPtr CchexHandle, int DevIdx, ref CCHEX_GET_ONE_EMPLOYEE_INFO_STRU Param);`

【Parameter】CchexHandle：successfully create the handle，Input[Parameter];

DevIdx: Index of device，Input[Parameter];

Param： //

Byte[5] EmployeeId; //digital of Employee Id

【Mode】`int CChex_GetOnePersonInfo_VER_4_NEWID(IntPtr CchexHandle, int DevIdx, ref CCHEX_GET_ONE_EMPLOYEE_INFO_STRU_VER_4_NEWID Param);`

(Version :Device Version DevTypeFlag & 0XFF ==DEV_TYPE_VER_4_NEWID)

【Parameter】CchexHandle：successfully create the handle，Input[Parameter];

DevIdx: Index of device，Input[Parameter];

Param: //

Byte[28] EmployeeId; //String of Employee Id

2.81.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_GET_ONE_EMPLOYEE_INFO_TYPE //88

Data Part:

digital of Employee Id ,Without employee valid time:

```
uint MachineId;       // Device ID
int CurIdx;           // Current index ID
int TotalCnt;         // Total number of User
byte [5]EmployeeId;   // User ID 5 bytes
byte password_len;    // Length of the Password
byte max_password;    // Max length of the Password, the value is 6  Can not modify
int password;         // Password
byte max_card_id;     // Max length of the Card Number, the value is 6(3 byte) or 10(3 byte) Can not modify
uint card_id;         // Card Number
byte max_EmployeeName;    // Max length of the User Name, the value is 10,20,64 or 64(3 byte) When the value is 160 the user name store in the EmployeeName2
byte[64] EmployeeName;    // User Name
byte DepartmentId;        // Department ID
byte GroupId;             // Group ID
byte Mode;                // Time Attendance Mode
```

```
                uint  Fp_Status;          // The status of FP enroll, 0~9:fp; 10:face; 11:iris1;
12:iris2

                byte Rserved1;            // for 22

                byte Rserved2;            // for 72 and 22

                byte Special;             // Special information


                // DR info

                byte[160] EmployeeName2;  // User Name2

                byte[13] RFC;             // RFC Information

                byte[18] CURP;            // CURP Information
```

digital of Employee Id ,With employee valid time:

```
                uint MachineId;       // Device ID

                int CurIdx;           // Current index ID

                int TotalCnt;         // Total number of User

                byte [5]EmployeeId;   // User ID 5 bytes

                byte password_len;    // Length of the Password

                byte max_password;    // Max length of the Password, the value is 6  Can not modify

                int password;         // Password

                byte max_card_id;     // Max length of the Card Number, the value is 6(3 byte)
or 10(3 byte) Can not modify

                uint card_id;         // Card Number

                byte max_EmployeeName;     // Max length of the User Name, the value is 10,20,64
or 64(3 byte) When the value is 160 the user name store in the EmployeeName2

                byte[64] EmployeeName;     // User Name

                byte DepartmentId;        // Department ID

                byte GroupId;             // Group ID
```

```
byte Mode;                // Time Attendance Mode
uint  Fp_Status;          // The status of FP enroll, 0~9:fp; 10:face; 11:iris1; 12:iris2
byte Rserved1;            // for 22
byte Rserved2;            // for 72 and 22
byte Special;             // Special information

// DR info
byte[160] EmployeeName2;  // User Name2
byte[13] RFC;             // RFC Information
byte[18] CURP;            // CURP Information
byte[4] start_date;                // RFC Information
byte[4] end_date;         // CURP Information
```

String of Employee Id , with employee valid time:

```
uint MachineId;       // Device ID
int CurIdx;           // Current index ID
int TotalCnt;         // Total number of User
byte [28]EmployeeId;  // Enployee ID,28bytes
byte password_len;    // Length of the Password
byte max_password;    //Max length of the Password, the value is 6  Can not modify
int password;         // Password
byte max_card_id;     // Max length of the Card Number, the value is 6(3 byte) or 10(3 byte) Can not modify
uint card_id;         // Card Number
byte max_EmployeeName;     // Max length of the User Name, the value is 10,20,64 or 64(3 byte) When the value is 160 the user name store in the EmployeeName2
```

```
byte[64] EmployeeName;     // User Name
byte DepartmentId;         // Department ID
byte GroupId;              // Group ID
byte Mode;                 // Time Attendance Mode
uint  Fp_Status;           // The status of FP enroll, 0~9:fp; 10:face; 11:iris1;
12:iris2
byte Rserved1;             // for 22
byte Rserved2;             // for 72 and 22
byte Special;              // Special information

// DR info
byte[160] EmployeeName2;   // User Name2
byte[13] RFC;              // RFC Information
byte[18] CURP;             // CURP Information
byte[4] start_date;                // RFC Information
byte[4] end_date;          // CURP Information
```

2.81.4 Sample

```
int ret = CChex_UploadRecord(anviz_handle, dev_idx,ref Param);
int ret = CChex_UploadRecord_VER_4_NEWID(anviz_handle, dev_idx,ref Param);
```

2.81.5 Notice

4. Make sure that CChex_Start has been started successfully before run.

2.82 CChex_GetMachineId

2.82.1 Function

【Function】Read the device communication device ID

2.82.2 Request

【Mode】`int CChex_GetMachineId(IntPtr CchexHandle, int DevIdx);`

【Parameter】CchexHandle：successfully create the handle，Input[Parameter]；

DevIdx: Index of device，Input[Parameter]；

2.82.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_GET_MACHINE_ID_TYPE //84

Data Part：

```
uint        MachineId;       // Device ID
Int         Result;          // 0:Succes  -1：Failure
uint    cur_machineid;           //Communicatrion device ID
```

2.82.4 Sample

int ret = `CChex_GetMachineId(anviz_handle, dev_idx);`

2.82.5 Notice

1. Make sure that CChex_Start has been started successfully before run.

2.83 CChex_SetMachineId

2.83.1 Function

【Function】Setting device Communication device ID

2.83.2 Request

【Mode】int CChex_SetMachineId(IntPtr CchexHandle, int DevIdx,uint MachineId);

【Parameter】CchexHandle：successfully create the handle，Input[Parameter];

DevIdx: Index of device，Input[Parameter];

MachineId: device Communication device ID;

2.83.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_SET_MACHINE_ID_TYPE //85

Data Part：

```
uint        MachineId;       // Device ID
Int         Result;          // 0:Succes  -1：Failure
uint    cur_machineid;           //New Communicatrion device ID
uint    old_machineid;           //Old Communicatrion device ID
```

2.83.4 Sample

```
int ret = CChex_SetMachineId(anviz_handle, dev_idx,MachineId);
```

2.83.5 Notice

1. Make sure that CChex_Start has been started successfully before run.

2.84 CChex_ManageLogRecord

2.84.1 Function

【Function】Setting device Communication device ID

2.84.2 Request

【Mode】int CChex_ManageLogRecord(IntPtr CchexHandle, int DevIdx, ref CCHEX_MANAGE_LOG_RECORD Param);

【Parameter】CchexHandle：successfully create the handle，Input[Parameter];

DevIdx: Index of device，Input[Parameter];

Param： //

Byte[4] start_date; // The second since of after 2000 years, 2000.1.2

Byte[4] end_date; //The second since of after 2000 years, 2000.1.2

Byte CmdType; //Extended command ： 0x00 Get the total number of current time periods

0x01 Download the current time period log record

0x02 delete all records in the current time period

0x03 Set real-time report log record

0x04 Get the status of real-time reporting records

Byte AutoFlag; //0:Close real-time report log record 1: Enable real-time report log record

2.84.3 Respond

【Return value】1：The command was executed successfully；Minus：Execute command failure

【Actual Data】CChex_Update Type Return CCHEX_RET_MANAGE_LOG_RECORD_TYPE //90

```
Data Part:
    uint        MachineId;      // Device ID
    uint        CmdType;        // Extended command
                                   0x00 :Result judge success,TotalNum is Total number of the log
                                   0x02 :Result is valid Delete success or not
                                   0x03 Set real-time report log record
                                   0x04 Get the status of real-time reporting records
                                   0x05 Real-time reporting record
    Int         Result;         // 0:Succes  -1：Failure
    uint        IsAuto;         // Auto-tagging
    uint        TotalNum;       // Total number of the log
                                   CmdType == 0x00:Result==0  Total number of the log
                                   CmdType == 0x01:Result==0 Total download number of the log
    uint        CurNum;         //  The log id of the current logByte[5] EmployeeId;      //Employee Id
    Byte[4]     Date;           //Event date The second since of  after 2000 years, 2000.1.2
    Byte[2]     LogType;        //Log Type 0x0001 open door 0x0002 close door
```

0x0003 door sensor 0x0004 Tamper alarm

0x0005 Exit button 0x0006 burst open the door

```
Byte[2]      LogLen;          //Log content length
Byte[3]      padding;         //Fill alignment invalid data
```

2.84.4 Sample

```
int ret = CChex_ManageLogRecord(anviz_handle, dev_idx,ref Param);
```

2.84.5 Notice

1. Make sure that CChex_Start has been started successfully before run.

3 Return value

1：Success；

-1：Parameter Error；

-2：Lack of device resources；

-3：Unknown Error；