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## 2Program Development

### 2.1  Development environment

    Sdkprovided aDlland can support multiple languages. IncludingC++、c、Java、Delphi、C#And so on, specific development tools, as needed, do not do a detailed description.

## 3Data structure definition

### 3.1.1Device Communication Commands

Data type: macro

|  |  |  |
| --- | --- | --- |
| **Defined** | **Value** | **Describe** |
| Cmd\_none | 0x0 |  |
| Cmd\_hearbeat | 0x1 | Heartbeat |
| Cmd\_logon | 0x2 | Connection |
| Cmd\_message | 0x3 | News |
| Cmd\_close\_dev | 0x4 | Turn off the device |
| Cmd\_get\_system\_param | 0x5 | Get system parameters |
| Cmd\_set\_system\_param | 0x6 | Set System parameters |
| Cmd\_get\_ipc\_param | 0x7 | GetIpcParameters |
| Cmd\_get\_auto\_maintain | 0x8 | Get automatic restart Time |
| Cmd\_set\_auto\_maintain | 0x9 | Set auto Restart time |
| Cmd\_get\_device\_type | 0xA | Get device Type |
| Cmd\_facepicture\_opendoor | 0xB | Face picture Remote door open |
| Cmd\_get\_verify\_param | 0x10 | Get certified |
| Cmd\_set\_verify\_param | 0x11 | Set up authentication |
| Cmd\_get\_sound\_param | 0x12 | Get sound |
| Cmd\_set\_sound\_param | 0x13 | Set the Sound |
| Cmd\_get\_user\_param | 0x14 | Get the user |
| Cmd\_set\_user\_param | 0x15 | Set up users |
| Cmd\_get\_net\_param | 0x16 | Get the network |
| Cmd\_set\_net\_param | 0x17 | Set up your network |
| Cmd\_get\_ntp\_param | 0x18 | GetNtp |
| Cmd\_set\_ntp\_param | 0x19 | Set upNtp |
| Cmd\_get\_time | 0x1A | Get time |
| Cmd\_set\_time | 0x1B | Set the time |
| Cmd\_get\_center\_param | 0x1c | Get a central connection |
| Cmd\_set\_center\_param | 0x1d | Set up a central connection |
| Cmd\_resore\_default | 0x1E | Restore the Factory |
| Cmd\_reboot | 0x1F | Reboot |
| Cmd\_add\_person | 0x20 | Increase in personnel |
| Cmd\_del\_person | 0x21 | Deleting a person |
| Cmd\_modify\_person | 0x22 | Modify a person |
| Cmd\_import\_person | 0x23 | Import List |
| Cmd\_import\_end | 0x24 | End of import |
| Cmd\_import\_req\_count | 0x25 | Total number of request import lists |
| Cmd\_facelib\_import | 0x26 | Face Library Import |
| Cmd\_facelib\_export | 0x27 | Human Face Library Export |
| Cmd\_del\_person\_customize | 0x28 | Customize id Way to delete |
| Cmd\_batchdel\_person | 0x29 | DatabaseIdBulk deletion |
| Cmd\_batchdel\_person\_customize | 0x2a | User customizationIdBulk deletion |
| Cmd\_get\_listinfo\_byid | 0x2b | UnderIdGet user Information |
| Cmd\_get\_listinfo\_bycustomize | 0x2c | Based on user customizationIdGet user Information |
| Cmd\_remote\_opendoor | 0x2d | Remote Door Opening |
| Cmd\_search\_open | 0x30 | Search for information |
| Cmd\_search\_read | 0x31 | Read search information |
| Cmd\_search\_close | 0x32 | Turn off search |
| Cmd\_upgrade\_file | 0x40 | File upgrade |
| Cmd\_send\_file\_end | 0x41 | End of sending upgrade file |
| Cmd\_get\_worktype | 0x52 | Get types of jobs |
| Cmd\_getscale\_agegenderworktype | 0x59 | Obtain data on age and sex jobs |
| Cmd\_recplay\_start | 0x70 | Start playback, download |
| Cmd\_recplay\_ctrl | 0x71 | Playback, download control |
| Cmd\_recplay\_stop | 0x72 | Stop playback, download |
| Cmd\_recsearch\_start | 0x75 | Start searching |

### 3.1.2Communication return value

Data type: macro

|  |  |  |
| --- | --- | --- |
| **Defined** | **value** | **Describe** |
| Ret\_none | 0x0 |  |
| Ret\_success | 0x1 | Success |
| Ret\_error | 0x2 | Failed |
| Ret\_cmderr | 0x3 |  |
| Ret\_data\_toolong | 0x4 |  |
| Ret\_memalloc\_err | 0x5 |  |
| Ret\_datalen\_err | 0x6 |  |
| Ret\_write2disk\_err | 0x7 |  |
| Ret\_write2disk\_err2 | 0x8 |  |
| Ret\_noface\_err | 0x9 |  |
| ret\_customizeid\_exieted | 0x10 | Customize ID has been registered |
| Ret\_noresult | 0xA |  |
| Ret\_importing | 0xB | Bulk Import in progress |
| Ret\_person\_max | 0xC | The list of people has reached its maximum value |
| Ret\_play\_finished | 0x20 |  |
| Ret\_net\_time\_out | 0x1f4 | Timeout |

### 3.1.3Device authentication Information

Data type: Structural body

Data name:logon\_info\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Szdevicename | Char | Device Name |
| Szipaddr | Char | EquipmentIpAddress |
| Dwport | unsigned int | Device ports |
| szUserName | Char | Device User Name |
| Szpassword | Char | Device password |
| Dwdeviceid | Int | Equipment ID number |
| Ntype | unsigned char | Device Type:0 General all-in-one machinex86, 1:4Road capture ratio to server2:9Road capture ratio to server3.Second generationAll-in-one machine 4, Access control machine |
| Ndatabasetype | unsigned char | Database type0:The old database,1:The new database |

### 3.1.4 Real-time messages

Data type: Structural body

Data name:message\_info\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwmsgtype | Int | 0: Validation results 1: Capture pictures in real time |
| Strecorditem | xrecord\_item\_s | Verify Records |
| Stsnapitem | xsnap\_item\_s | Real-time capture records |

### 3.1.5 SearchType

Data type: macro

|  |  |  |
| --- | --- | --- |
| **Defined** | **值** | **Describe** |
| Search\_type\_person | 0x0 | List Record Search |
| Search\_type\_ipcam | 0x1 | Capture Record Search |
| Search\_type\_record | 0x2 | Control record Search |
| Search\_type\_log | 0x3 | Log Search |
| Search\_type\_person\_nopic | 0x4 | List Record Search, Without picture data |
| Search\_picture\_person | 0x5 | Search list records in diagrams |
| Search\_picture\_record | 0x6 | Search control records with diagrams |
| Search\_type\_record\_nopic | 0x7 | Control record search with no picture data |

### 3.1.6 Search criteria

Data type: Structural body

Data name:xsearch\_cond\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwsearchtype | Search\_type\_e | Search Type |
| Stbgntime | xtime\_s | Start time |
| Stendtime | xtime\_s | End time |
| Btimedown | Int | 0: Ascending 1: Descending |
| Dwpersontype | Int | List management: 0: White List  1: Blacklist 2: All |
| Dwopendoor | Int | Control records: 0: All  1: Open the door 2: Refused |
| Dwlogtype | Int | Log: 0: All 1: Parameter settings  2: Add a list 3: Delete a list |
| szname | Char | Name |
| Dwgender | Int | Gender 0: male 1: female 2: All |
| Dwagemin | Int | Age Range: Minimum |
| Dwagemax | Int | Age Range: Biggest Need to pass greater than0The value of the |
| Dwmjcardno | Int | Access Card number: 0 The condition is invalid |
| Szidcard | Char | ID number: 0 The condition is invalid |
| Sztel | Char | Phone |
| Szaaddr | Char | Address |
| Dwchn | Int | Access channels |
| Maxsimilarity | Float | Use with graph search, maximum similarity |
| Piclen | Int | Use with diagrams, length of pictures |

### 3.1.7 Search results

Data type: Structural body

Data name:xsearch\_result\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwsearchtype | Search\_type\_e | Search Type |
| Dwsessionid | Int | The search generates aId |
| Dwtotalcount | Int | Total number of records found |

### 3.1.8 Read search Data results

Data type: Structural body

Data name:xsearch\_read\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwsearchtype | Search\_type\_e | Search Type |
| Dwsessionid | Int | The search generates aId |
| Dwbeginno | Int | Start numbering |
| Dwreqcount | Int | Read how many bars |

### 3.1.9 Personnel information

Data type: Structural body

Data name:xperson\_item\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwid | unsigned int | The ID number of the person in the database |
| Dwpersontype | Int | 0: White List 1: Blacklist |
| szname | Char | Name |
| Dwgender | Int | Gender |
| Dwnation | Int | National |
| Dwcardtype | Int | 0:Id |
| Szidcard | Char | ID Card number |
| Stbirthday | xdate\_s | Birthday |
| SzTelNum1 | Char | Phone number1 |
| SzTelNum2 | Char | Phone number2 |
| Sznative | Char | Origin |
| Szaddress | Char | Address |
| Dwmjcardfrom | Int | Wigan protocol< 0: Public card number 1: Auto Generate  2: Manual input> |
| Dwmjcardno | unsigned int | Access Card number |
| Dwimagelen | unsigned int | The length of the picture data that follows |
| Busevalidlist | Int | Whether it's a provisional list0:Permanent List 1:Provisional list2:Provisional list2 3:Provisional list3 |
| Dwcustomizeid | unsigned int | IdAssigned by the upper layer, the upper layer guarantees uniqueness, adding, modifying, and deleting all use thisId |
| Validbegintime | xtime\_s | Valid start time of the provisional list |
| Validendtime | xtime\_s | Effective termination time of the provisional list |
| Stcreatetime | xtime\_s | Creation time<Read-only> |
| Ballchannelenable | Int | List channel permissions:All channels, 1: Select Channels |
| Dwchn | Int | Jurisdiction permissions, different access channels |
| Dweffectnumber | unsigned int | Number of valid provisional lists |

### 3.2.0 CaptureInformation

Data type: Structural body

Data name:xsnap\_item\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwid | unsigned int | ID number in the database |
| Stcreatetime | xtime\_s | Creation time |
| Dwimagetype | Int | Bmp |
| Dwimagesize | Int | Image data Size: Pictures of the scene |
| Facepicturetype | unsigned int | Compare the results0: Black and white list comparison failed,1: Compared to success is the Blacklist,2: Compared to success is the white list,3: ID Card+Face than right to fail,4: ID Card+Face comparison to success,5: ID Card+List+Face comparison to success |

### 3.2.1 Compare toInformation

Data type: Structural body

Data name:xrecord\_item\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwid | unsigned int | ID number in the database |
| Stcreatetime | xtime\_s | Creation time |
| FSimilarity1 | Float | Similar degree1 Black and white list contrast similarity |
| FSimilarity2 | Float | Similar degree2 ID ratio to similarity |
| Dwstatus | Int | 0: No 1: Open the door 2: Reject |
| Dwverfytype | Int | validation type  ID Card Verification: Vt\_idcard  Black and white list verification: Vt\_dbperson  Id + Black and white list: Vt\_idcard\_dbperson |
| Stpersoninfo | xperson\_item\_s | Personnel information |
| DwImageSize1 | Int | Image data Size: Pictures of the scene |
| DwImageSize2 | Int | Image data Size: Register a picture |

### 3.2.2 LogRecording

Data type: Structural body

Data name:xlog\_item\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwid | unsigned int | ID number In the database |
| Stcreatetime | xtime\_s | Creation time |
| Dwlogtype | unsigned int | Log type |
| Szinfo | Char | Log contents |

### 3.2.3 Human Face library Import Export returnsType

Data type: macro

|  |  |  |
| --- | --- | --- |
| **Defined** | **值** | **Describe** |
| Msg\_person\_data\_error1 | 100 | Error1 |
| Msg\_person\_data\_error2 | 101 | Error2 |
| Msg\_person\_file\_error | 102 | File error |
| Msg\_person\_success | 103 | Success |
| Msg\_recv\_data\_error | 104 | Receive data errors |
| Msg\_conncet\_error | 105 | Connection error |
| Msg\_conncet\_pwd\_error | 106 | Connection Password Error |
| Msg\_import\_maxover | 107 | Import file is too large |
| Msg\_file\_path\_error | 108 | File path Error |

### 3.2.4 Validation criteria

Data type: Structural body

Data name:xverify\_param\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwdbfacethreshold | Int | Black and white list than door limit |
| Dwidcardthreshold | Int | Id than the door limit. |
| Dwverifymode | Int | 1: White List Verification  2: ID Card Verification  3: White List + ID  4: White List or ID |
| Dwwiegand | Int | Wigan protocol 0:26 bit 1:34 bit |
| Dwpublicmjcardno | unsigned int | Public Access Card number |
| Dwautomjcardbgnno | unsigned int | Automatically generate the start card number of the access card number |
| Dwautomjcardendno | unsigned int | Automatically generate the end card number of the access card number |
| Dwcontroltype | Int | Wigan interface |
| Dwiotype | Int | 0:Closed; 1:Disconnect |
| Dwiostaytime | Int | Hold the time(Ms) |
| Dwopendoorway | Int | Open Door Mode0:The way the face opens,1:Remote Door opening method,2:Remote door opening or face mode |

### 3.2.5 Sound Switches

Data type: Structural body

Data name:xsound\_param\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Bverifysuccaudio | Int | Verify that the sound is playing successfully |
| Bverifyfailaudio | Int | Validation failed to play sound |
| Dwvolume | Int | Volume 0 ~ 100 |

### 3.2.6 Device usersPassword

Data type: Structural body

Data name:xuser\_param\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwlevel | Int | User Level |
| szUserName | Char | Username |
| Szpassword | Char | User password |

### 3.2.7 Network parameters

Data type: Structural body

Data name:xnet\_param\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| szname | Char | Native name |
| Szipaddr | Char | IpAddress |
| Szsubmask | Char | Subnet mask |
| Szgateway | Char | Gateway |
| Dwmylistenport | Int | Listening ports |
| Dwmywebport | Int | WebserverPort |
| Dwdeviceid | Int | EquipmentId |
| Szversion | Char | Device Version number |

Data type: Structural body

Data name:xnetcard2\_param\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Szipaddr | Char | Card2IPAddress |
| Szsubmask | Char | Card2Subnet mask |
| Szgateway | Char | Card2Gateway |

### 3.2.8 Center Connection parameters

Data type: Structural body

Data name:xcenter\_param\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Bconnectcenter | Int | Connection Center: Switch |
| Szcenterurl | Char | Server address |
| Dwcenterport | Int | Server ports |
| Szcenteruser | Char | Username |
| Szcenterpass | Char | Password |
| Bsendsnapimage | Int | Send Live pictures |
| Bsendverifyresult | Int | Send authentication Results |

### 3.2.9 TimeNtpParameters

Data type: Structural body

Data name:xntp\_param\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Bntpenable | Int | is enabled,NTP 1.Enable0.Shut down |
| Szntpurl | Char | Server address |
| Dwntpport | Int | Server ports |
| Dwntptimezone | unsigned int | Time |
| Dwntpinterval | unsigned int | NtpAt school intervals, in units of hours |

### 3.3.0 Time parameters

Data type: Structural body

Data name:xtime\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Year | unsigned short | Year |
| Month | unsigned char | month |
| Day | unsigned char | Day |
| Week | unsigned char | Week |
| Hour | unsigned char | Hour |
| Minute | unsigned char | minute |
| second | unsigned char | second |

### 3.3.1 Date parameters

Data type: Structural body

Data name:xdate\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Year | unsigned short | Year |
| Month | unsigned char | Month |
| Day | unsigned char | Day |

### 3.3.2 RecoveryFactory settings

Data type: Structural body

Data name:xfactorydefault\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Bdefaltdoorset | unsigned char | Opening conditions |
| Bdefaltsoundset | unsigned char | Prompt sound |
| Bdefaltnetdef | unsigned char | Network parameters |
| Bdefaltxcenter | unsigned char | Central Connection |
| Bdefaltcapture | unsigned char | Capture record+Control records |
| Bdefaltlog | unsigned char | Diary |
| Bdefaltperson | unsigned char | List registration records+Control records |
| Bdefaltrecord | unsigned char | Control records |
| Bmaintenancetime | unsigned char | System Maintenance Time |
| Bsystemsettings | unsigned char | System parameters:system language; ID card reader type; whether to record snaps, ID cards, certification records |
| Benteripc | unsigned char | Face Analysis Server, Access camera parameters |
| Bserverbasicpara | unsigned char | Face Analysis Server, basic parameter configuration:Information release; channel selection; whether to empty interface snaps and compare information |
| Bworktype | unsigned char | Face Analysis Server, people type parameters |

### 3.3.3 System parameters

Data type: Structural body

Data name:sys\_basic\_param\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwlanguage | Int | System language0: English1:Chinese Simplified 2: Chinese Traditional |
| Bdbenable | Int | Whether to turn on record snaps+Certification+ID |
| Nidcardtype | Int | ID card reader Type,0: ZKteco, Tengresearch, Chinavision;1: Jing Lun |
| Bliveenable | Int | Whether to turn on live detection |
| Dwlivethreshold | Double | Living detection threshold |
| Nliveframenum | Int | Number of consecutive frames detected in vivo |
| Dwscreensavertype | Int | Screensaver type0: Never1: Full-day support,2:Support by time period |
| Dwscreensavertimebeg | Int | Screensaver startup time period, Number of seconds to start calculating at the point of the day |
| Dwscreensavertimeend | Int | Screensaver End time period, Number of seconds to start calculating at the point of the day |
| Dwscreensaveronmin | Int | How many minutes to start the screensaver after not grabbing a human face |
| Dwledtype | Int | White Light Opening type0: Never1: Support by time period |
| Dwledtimebeg | Int | White Light startup time point, Number of seconds to start calculating at the point of the day |
| Dwledtimeend | Int | White Light End time point, Number of seconds to start calculating at the point of the day |
| Dwledbrightness | Int | White Light Brightness |
| Dwcardreadertype | Int | Card reader Type |
| Bdisplayfaceframe | Int | Whether to display a human face frame |

### 3.3.4 Automatic Maintenance parameters

Data type: Structural body

Data name:Automaintain\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwautorebootday | Int | Auto Restart Set Date "Never” “Everyday”, “Sunday”, “Monday”, “Tuesday”, “Wednesday”, “Thursday”, “Friday”, “Saturday” |
| Dwautoreboothour | Int | Restart the whole point time [0, 23] |

### 3.3.5 The video is back down and loaded.

Data type: Structural body

Data name:xrecplay\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwchn | Int | Channel number0 ~ 15（General channels2Storing videos） |
| Dwplaymode | Int | 0: Normal (callback by frame), 1: Direct Download (callback by block mode) |
| Dwlistenport | Int | PcEnd video playback, download listening port |
| Dwtmp | Int |  |
| Stbgntime | xtime\_s | Start time |
| Stendtime | xtime\_s | Termination time |

### 3.3.6 Video File Search

Data type: Structural body

Data name:xsearch\_recfile\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Dwchn | Int | Channel number0 ~ 15（General channels2Storing videos） |
| Dwrectype | unsigned int | Video type or file type (video image) |
| Stbgntime | xtime\_s | Start time |
| Stendtime | xtime\_s | Termination time |

### 3.3.7 Video recording

Data type: Structural body

Data name:xrecfile\_info\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Stdate | xdate\_s | Time |
| Crecordbitmap | unsigned char | Video recording Hiring720A byte to represent the day's 1440 Minutes |

### 3.3.8 Playback action

Data type: Shared body

Data name:Sdk\_play\_action

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Playback\_pause |  | Pause Playback |
| Playback\_resume |  | Continue playback |
| Playback\_seek |  | Playback positioning Time s For units Parameters: from 0 The number of seconds at which the point begins |
| Playback\_fast |  | Accelerate playback Parameters:  Playback speed:  0: Normal,  2: Fast2X,  4:fast 4X,  8: fast 8X  16: Play only I frame |
| Playback\_slow |  | Slow down playback parameters:  Play speed:  0: Normal,  2: Slow 2X,  4: Slow 4X,  8: Slow 8X  16: Play only I frames |
| Playback\_seek\_percent |  | Playback positioning percent Parameters: 0 ~ 100 |

### 3.3.9 IPCParameters

Data type: Structural body

Data name:accessipc\_param\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Sipc\_url | Char | IpcAddress |
| Dwipc\_port | Int | IpcPort |
| Sipc\_username | Char | Username |
| Sipc\_password | Char | Password |

### 3.4.0 Type of job configuration parameters

Data type: Structural body

Data name:xworktype\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Bworktypeenable | Int | The type of job to enable |
| Sworktype | Char | Types of jobs |
| Dwnum | Int | Number of types of job list |
| Szres | Char | Note |

### 3.4.1 Gender parameters

Data type: Structural body

Data name:genderscale\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Nmannum | Int | Number of males |
| Nwomennum | Int | Number of females |

### 3.4.2 Age Segment Parameters

Data type: Structural body

Data name:agescale\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Zerototen | Int | 0-9 |
| Tentonineteen | Int | 10-19 |
| Twentytotwentynine | Int | 20-29 |
| Thirtytothirtynine | Int | 30-39 |
| Fortytofortynine | Int | 40-49 |
| Fiftytofiftynine | Int | 50-59 |
| Sixtytosixtynine | Int | 60-69 |
| Seventytoseventynine | Int | 70-79 |

### 3.4.3 Proportional parameters of the type of job

Data type: Structural body

Data name:worktypescale\_s

|  |  |  |
| --- | --- | --- |
| **Members** | **Type** | **Describe** |
| Worktype | Int | Types of jobs |

## 4.callback function definition

### 4.1Device online Information callback

typedef INT (\*Logonaccept\_CBK)(Int Bonline, HANDLE Hhandle, logon\_info\_s \*Pstlogoninfo);

Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter name** | **Describe** | **Input/Output** | **Global/Local** |
| Bonline | 0.Line 1.Online | Output | - |
| Hhandle | Unique identification of the device after validation | Output | - |
| Pstlogoninfo | Identify the result structure information | Output | - |

### 4.2Real-time message callback after device online

typedef INT (\*Message\_CBK)(HANDLE Hhandle, message\_info\_s \*Pmsghead,Char \*pdataInt Len);

Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter name** | **Describe** | **Input/Output** | **Global/Local** |
| Hhandle | After verification, the device is uniquely identified and the online callback is given | Output | - |
| Pmsghead | Real-time Message data structure | Output | - |
| pdata | Picture data | Output |  |
| Len | Data length | Output |  |

### 4.3Search Device Data callbacks

typedef INT (\*Searchdata\_CBK)(HANDLE Hhandle,search\_type\_e SearchType, char \*pdata, int Len);

Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter name** | **Describe** | **Input/Output** | **Global/Local** |
| Hhandle | After verification, the device is uniquely identified and the online callback is given | Output | - |
| SearchType | Search return Data types | Output | - |
| pdata | Searching for data | Output | - |
| Len | Data length | Output | - |

### 4.4Human Face library import and export data callback

typedef INT (\*Fileproc\_CBK)(HANDLE Hhandle,int FileType, DWORD Dwcount, DWORD Dwprolen);Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter name** | **Describe** | **Input/Output** | **Global/Local** |
| Hhandle | After verification, the device is uniquely identified and the online callback is given | Output | - |
| FileType | Import Export result type | Output | - |
| Dwcount | All data size | Output | - |
| Dwprolen | Exported data size has been imported | Output | - |

### 4.5Search for online device callbacks

typedef voidWINAPI \*Callbackserverfind) (int Ndevicetype,char \*Pdevicename,char \*Pip,byte Macaddr[6],word Wportweb,word Wportlisten,char \*Psubmask,char \*Pgateway,char \*Pmultiaddr,char \*Pdnsaddr,word Wmultiport,int Nchannelnum,int Nfindcount,dword DwdeviceiD);

Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter name** | **Describe** | **Input/Output** | **Global/Local** |
| Ndevicetype |  | Output | - |
| Pdevicename | Device Name | Output | - |
| Pip | IpAddress | Output | - |
| Macaddr | MacAddress | Output | - |
| Wportweb |  |  |  |
| Wportlisten |  |  |  |
| Psubmask |  |  |  |
| Pgateway |  |  |  |
| Pmultiaddr |  |  |  |
| Pdnsaddr |  |  |  |
| Wmultiport |  |  |  |
| Nchannelnum |  |  |  |
| Nfindcount |  |  |  |
| Dwdeviceid |  |  |  |

### 4.6Video back drop load data callback

typedef INT (\*Recfiledata\_CBK)(HANDLE Hhandle, void \*Precfile, unsigned int Dwclientid);

Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter name** | **Describe** | | **Input/Output** | **Global/Local** |
| Hhandle | After verification, the device is uniquely identified and the online callback is given | | Output | - |
| Precfile | | Video files | Output | - |
| Dwclientid | EquipmentId | | Output | - |

### 4.7Video Search Data callback

typedef int (\*Searchrecfile\_CBK)(HANDLE Hhandle, xrecfile\_info\_s \*PrecfileinfoInt Dwdaycount, unsigned int Dwclientid);

Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter name** | **Describe** | **Input/Output** | **Global/Local** |
| Hhandle | After verification, the device is uniquely identified and the online callback is given | Output | - |
| Precfileinfo | Video Info | Output | - |
| Dwdaycount | Days (orxrecfile\_info\_sNumber of structural bodies） | Output | - |
| Dwclientid | EquipmentId | Output | - |

## 5Interface definition

### 5.1.1Initialization

|  |  |
| --- | --- |
| **Interface description** | InitializationSdk<Passive> |
| **Interface** | Face\_gate\_Init(Word Wlistenport,  Logonaccept\_cbk Plogonacceptcallback, Message\_cbk Pmessagecallback, char \*Plocaladdr = NULL) |
| **Parameter description** | [In] Wlistenport Initialize Port  [In] Plogonacceptcallback Device Online Callback Notification  [In] Pmessagecallback Real-Time Message callback  [In] Plocaladdr Enable service address, default to NULL |
| **return value** | none |
| **Constraints** | none |

### 

### 5.1.2Release

|  |  |
| --- | --- |
| **Interface description** | ReleaseSdk<Passive> |
| **Interface** | Face\_gate\_uninit |
| **Parameter description** | none |
| **return value** | none |
| **Constraints** | none |

### 

### 5.1.3Log on to the device

|  |  |
| --- | --- |
| **Interface description** | Log on to the device<Active> |
| **Interface** | Face\_gate\_LogonServer(char \*PserveripWord Wserverport,char \*Pusername,char \*Puserpassword, HANDLE &Hlogonserver); |
| **Parameter description** | [In]Pserverip EquipmentIpAddress  [In]Wserverport Device ports  [In]Pusername Username  [In]Puserpassword Password  [out] Hserver Unique identification of the device after validation |
| **return value** | 1.Success |
| **Constraints** | After the connection is successful, thisHservercan only operate activeInterface. |

### 5.1.4Logoff devices

|  |  |
| --- | --- |
| **Interface description** | Logoff devices<Active> |
| **Interface** | Face\_gate\_Logoffserver(HANDLE Hserver) |
| **Parameter description** | [In ] Hserver Unique identification of the device after validation |
| **return value** | 1.Success |
| **Constraints** | Logoff devicesFace\_gate\_logonserver Accessory Use |

### 5.1.5Set up search data callbacks

|  |  |
| --- | --- |
| **Interface description** | Search Device Information Callback<Active+Passive> |
| **Interface** | Face\_gate\_Setsearchcallbak(Searchdata\_cbk Psearchcallback); |
| **Parameter description** | [In] Psearchcallback Registering a search data callback |
| **return value** |  |
| **Constraints** | none |

### 

### 5.1.6Searching for device data

|  |  |
| --- | --- |
| **Interface description** | Searching for device data<Active+Passive> |
| **Interface** | Face\_gate\_Searchall(HANDLE Hserver, xsearch\_cond\_s \*Psearchcond, xsearch\_result\_s \*Presult); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Psearchcond Search for content definitions  [out] Presult Search results returned |
| **return value** | 1.Success |
| **Constraints** | none |

### 5.1.7Read search data

|  |  |
| --- | --- |
| **Interface description** | Read search data<Active+Passive> |
| **Interface** | Face\_gate\_Readdataitem(HANDLE Hserver, xsearch\_read\_s \*Preadinfo); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Preadinfo Read search data information |
| **return value** |  |
| **Constraints** | none |

### 5.1.8Stop searching

|  |  |
| --- | --- |
| **Interface description** | Stop searching for data<Active+Passive> |
| **Interface** | Face\_gate\_StopSearch(HANDLE HserverInt Dwsessionid); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Dwsessionid Searching for data Id |
| **return value** |  |
| **Constraints** | none |

### 5.1.9Get user Information

|  |  |
| --- | --- |
| **Interface description** | PassIdGet user Information<Active> |
| **Interface** | Face\_gate\_Getuserinfobyid(HANDLE Hserver,int dwuserid,xperson\_item\_s\* personinfo,unsigned char\* Pdata,int Idtype=0); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Dwuserid, Database Id or user-defined Id  [out] Personinfo User Info  [out] pdata People picture data  [In] Idtype IdType0:DatabaseID 1:User customization Id |
| **return value** | 1.Success |
| **Constraints** | none |

### 5.2.0Increase in personnel

|  |  |
| --- | --- |
| **Interface description** | Increase in personnel<Active+Passive> |
| **Interface** | Face\_gate\_Addperson(HANDLE Hserver, xperson\_item\_s \*Pstpersonitem,char \*Pimagedata); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Pstpersonitem Personnel information  [In] Pimagedata People picture data |
| **return value** | 1.Success |
| **Constraints** | none |

### 5.2.1Editorial Staff

|  |  |
| --- | --- |
| **Interface description** | Editorial Staff<Active+Passive> |
| **Interface** | Face\_gate\_Editperson(HANDLE Hserver, xperson\_item\_s \*Pstpersonitem,char \*Pimagedata); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Pstpersonitem Personnel information  [In] Pimagedata People picture data |
| **return value** | 1.Success |
| **Constraints** | none |

### 5.2.2Deleting a person

|  |  |
| --- | --- |
| **Interface description** | Deleting a person<Active+Passive> |
| **Interface** | Face\_gate\_Delperson(HANDLE Hserver, unsigned int Dwpersonid，Int Nidtype=0) |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Dwpersonid Deleting a personId  [In] Nidtype IdType0:DatabaseID 1:User customization Id |
| **return value** | 1.Success |
| **Constraints** | none |

### 5.2.3Bulk deletion of personnel

|  |  |
| --- | --- |
| **Interface description** | Bulk deletion of personnel<Active+Passive> |
| **Interface** | Face\_gate\_Batchdelperson(HANDLE Hserver,char\* Strid,int Nidtype=0); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Strid Id Composed of strings, multipleIdSeparated by commas  [In]Nidtype IdType0:DatabaseID 1:User customization Id |
| **return value** | 1.Success |
| **Constraints** | none |

### 5.2.4Number of list of requesting devices to import

|  |  |
| --- | --- |
| **Interface description** | Number of list of requesting devices to import<Active+Passive> |
| **Interface** | Face\_gate\_Importreqcount(HANDLE Hserver, DWORD \*Pdwcount); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [out] Pdwcount Number of list can be imported on the device side |
| **return value** | 1.Success |
| **Constraints** | none |

### 5.2.5Bulk Import Personnel

|  |  |
| --- | --- |
| **Interface description** | Bulk Import Personnel<Active+Passive> |
| **Interface** | Face\_gate\_Importperson(HANDLE Hserver, xperson\_item\_s \*Pstpersonitem,char \*Pimagedata); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Pstpersonitem Personnel information  [In]Pimagedata People picture data |
| **return value** | 1.Success |
| **Constraints** | none |

### 5.2.6Bulk Import End

|  |  |
| --- | --- |
| **Interface description** | Bulk Import End<Active+Passive> |
| **Interface** | Face\_gate\_Importend(HANDLE Hserver); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation |
| **return value** | 1.Success |
| **Constraints** | none |

### 5.2.7Set up a face library import and export callback

|  |  |
| --- | --- |
| **Interface description** | Set up a face library import and export callback<Active> |
| **Interface** | Face\_gate\_Filemsgcallback(Fileproc\_cbk Filecbk); |
| **Parameter description** | [In] Filecbk Registrant Face Library Import Export callback |
| **return value** |  |
| **Constraints** | none |

### 5.2.8Face Library Import

|  |  |
| --- | --- |
| **Interface description** | Face Library Import<Active> |
| **Interface** | Face\_gate\_Personlistimport(HANDLE Hserver, char \*Pstrfilename); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Pstrfilename Import file path |
| **return value** |  |
| **Constraints** | none |

### 5.2.9Human Face Library Export

|  |  |
| --- | --- |
| **Interface description** | Human Face Library Export<Active> |
| **Interface** | Face\_gate\_Personlistexport(HANDLE Hserver, Char \*Pstrfilename); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Pstrfilename Export File path |
| **return value** |  |
| **Constraints** | none |

### 5.3.0Search for online devices

|  |  |
| --- | --- |
| **Interface description** | Search for online devices<Passive> |
| **Interface** | Face\_gate\_Searchallserver(UINT Ntimewait, void (WINAPI \*Callbackserverfind) (int Ndevicetype,char \*Pdevicename,char \*Pip,byte Macaddr[6],word Wportweb,word Wportlisten,char \*Psubmask, char \*Pgateway,char \*Pmultiaddr,char \*Pdnsaddr,word Wmultiport,int Nchannelnum,int Nfindcount,dword Dwdeviceid)); |
| **Parameter description** | [In] Ntimewait Waiting time  [In] Callbackserverfind callback function |
| **return value** |  |
| **Constraints** | none |

### 5.3.1Get Device parameters

|  |  |
| --- | --- |
| **Interface description** | Get Device parameters<Active> |
| **Interface** | Face\_gate\_Getserverconfig(HANDLE Hserver,cmd\_type\_e Nconfigcommand,char \*Pconfigbuf,uint &Nconfigbufsize); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Nconfigcommand Command Code reference definitionCmd\_type\_e  [out] Pconfigbuf Get Data memoryBuffer  [out] Nconfigbufsize Get Data size |
| **return value** | 1.Success |
| **Constraints** | none |

### 5.3.2Set Device parameters

|  |  |
| --- | --- |
| **Interface description** | Set Device parameters<Active> |
| **Interface** | Face\_gate\_Setserverconfig(HANDLE Hserver,cmd\_type\_e Nconfigcommand,char \*Pconfigbuf,uint Nconfigbufsize); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Nconfigcommand Command Code reference definitionCmd\_type\_e  [In] Pconfigbuf Set up data memoryBuffer  [In] Nconfigbufsize Set Data size |
| **return value** | 1.Success |
| **Constraints** | none |

**5.3.3File upgrade**

|  |  |
| --- | --- |
| **Interface description** | File upgrade<Active> |
| **Interface** | Face\_gate\_Fileupgrade(HANDLE HserverInt Ntype, Char \*Pstrfilename); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Ntype Markers that do not be processed  [In] Pstrfilename File path |
| **return value** | 1.Success |
| **Constraints** | none |

**5.3.4Set the video back to drop the load callback**

|  |  |
| --- | --- |
| **Interface description** | Set the video back to drop the load callback<Passive> |
| **Interface** | Face\_gate\_Setrecfilehdatacallbak(Recfiledata\_cbk Precdatacallback); |
| **Parameter description** | [In] Precdatacallback Registration video back Drop load callback |
| **return value** |  |
| **Constraints** | Suitable for access control machines only |

**5.3.5Set up a video search callback**

|  |  |
| --- | --- |
| **Interface description** | Set up a video search callback<Passive> |
| **Interface** | Face\_gate\_Setrecfilehseacrhcallbak(Searchrecfile\_cbk Psearchcallback); |
| **Parameter description** | [In] Psearchcallback Sign up for a video search callback |
| **return value** |  |
| **Constraints** | Suitable for access control machines only |

**5.3.6The video is back down and loaded.**

|  |  |
| --- | --- |
| **Interface description** | The video is back down and loaded.<Passive> |
| **Interface** | Face\_gate\_Playbackbytime(HANDLE Hserver, xrecplay\_s \*Pstcond, unsigned int Dwclientid); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Pstcond Video back down load conditions  [In] Dwclientid EquipmentId |
| **return value** | 1.Success |
| **Constraints** | Suitable for access control machines only |

**5.3.7Video Back Drop load control**

|  |  |
| --- | --- |
| **Interface description** | Video Back Drop load control<Passive> |
| **Interface** | Face\_gate\_Playbackcontrol(HANDLE Hserver, sdk\_play\_action EplayactionInt Dwctrlvalue); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Eplayaction Control operations  [In] Dwctrlvalue Controlling Operation Values |
| **return value** | 1.Success |
| **Constraints** | Suitable for access control machines only |

**5.3.8Video Back down load stop**

|  |  |
| --- | --- |
| **Interface description** | Video Back down load stop<Passive> |
| **Interface** | Face\_gate\_Playbackstop(HANDLE Hserver); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation |
| **return value** | 1.Success |
| **Constraints** | Suitable for access control machines only |

**5.3.9Video File Search**

|  |  |
| --- | --- |
| **Interface description** | Video File Search<Passive> |
| **Interface** | Face\_gate\_Searchrecfile(HANDLE Hserver, xsearch\_recfile\_s \*Pstcond, unsigned int Dwclientid); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Pstcond Search criteria  [In] Dwclientid EquipmentId |
| **return value** | 1.Success |
| **Constraints** | Suitable for access control machines only |

**5.4.0Remote Door Opening**

|  |  |
| --- | --- |
| **Interface description** | Remote Door Opening<Passive> |
| **Interface** | Face\_gate\_OpenDoor(HANDLE HserverInt Channelvalue) |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Channelvalue Channel valuesConventional0, Multi-channel:0-Maximum routes-1】 |
| **return value** | 1.Success |
| **Constraints** | none |

**5.4.1GetIpcParameters**

|  |  |
| --- | --- |
| **Interface description** | GetIpcParameters<Passive> |
| **Interface** | Face\_gate\_Getipcparam(HANDLE hserver,accessipc\_param\_s\* Pipcparam); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [out] Pipcparam IpcParameters |
| **return value** | 1.Success |
| **Constraints** | none |

**5.4.2Set wait and Heartbeat time**

|  |  |
| --- | --- |
| **Interface description** | Set wait and Heartbeat time<Passive> |
| **Interface** | Face\_gate\_Setwaittimeandheartbeattime(HANDLE Hserver,int Waittime,int Heartbeattime); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Waittime Waiting Time (SendWait afterRecvof time)  [In] Heartbeattime Send Heartbeat data time |
| **return value** | 1.Success |
| **Constraints** | none |

**5.4.3Get device Type**

|  |  |
| --- | --- |
| **Interface description** | Get device Type<Active> |
| **Interface** | Face\_gate\_Getdevicetype(HANDLE Hserver, int\*DeviceType); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] DeviceType Device type 0：General all-in-one machine 1:4Road capture ratio to server 2:9Road capture ratio to server 3.Second generationAll-in-one machine 4, Access control machine |
| **return value** | 1.Success |
| **Constraints** | none |

**5.4.4Update device user name and password**

|  |  |
| --- | --- |
| **Interface description** | Update the device username password, modify the account password after calling<Active> |
| **Interface** | Face\_gate\_Updatedeviceusernameandpwd(HANDLE Hserver, Char\* Username,char\* Password); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] Username Device User Name  [In] Password Device password |
| **return value** | 1.Success |
| **Constraints** | none |

**5.4.5Obtain the proportion of age and sex jobs**

|  |  |
| --- | --- |
| **Interface description** | Obtain the proportion of age and sex jobs<Passive> |
| **Interface** | Face\_gate\_Getagegenderworktype(HANDLE Hserver, Char\* pdata); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] pdata genderscale\_s+agescale\_s+worktypescale\_sComposition of the data, types of jobs may change, while usingCmd\_get\_worktypeSynchronous |
| **return value** | 1.Success |
| **Constraints** | Applies only to Servers |

**5.4.6Face picture Remote door open**

|  |  |
| --- | --- |
| **Interface description** | Face picture Remote door open<Active+Passive> |
| **Interface** | Face\_gate\_Facepictureopendoor(HANDLE Hserver,char\* Pdata,int NdaTalen); |
| **Parameter description** | [In] Hserver Unique identification of the device after validation  [In] pdata Picture data  [In] Ndatalen Picture length |
|  |  |
| **return value** | 1.Success |
| **Constraints** | None |