

Basic functions

Functions

- **GrdHandle** **grdOpen**(uint32_t publicCode, uint32_t readCode, uint32_t writeCode)
- **GrdHandle** **grdOpenByFindMode** (uint32_t findFlags, const **GrdFindMode** *findMode, size_t findModeSize, uint32_t readCode, uint32_t writeCode)
- uint32_t **grdCodeRun** (**GrdHandle** handle, uint16_t algorithmName, uint32_t p1, const void *inBuffer, size_t inBufferSize, void *outBuffer, size_t outBufferSize, uint32_t *codeRet)
- uint32_t **grdCodeLoadFile** (**GrdHandle** handle, uint16_t algorithmName, const char *filePath)
- uint32_t **grdCodeLoad** (**GrdHandle** handle, uint16_t algorithmName, const void *buffer, size_t bufferSize)
- uint32_t **grdGetDongleInfo** (**GrdHandle** handle, **GrdDongleInfo** *dongleInfo, size_t dongleInfoSize)
- uint32_t **grdGetFindInfo** (**GrdHandle** handle, **GrdFindInfo** *findInfo, size_t findInfoSize)
- uint32_t **grdUpdateVendorInfo** (**GrdHandle** handle, const **GrdVendorInfo** *vendorInfo, size_t vendorInfoSize)
- uint32_t **grdClose** (**GrdHandle** handle)

Detailed Description

To interact with the dongle using a standard scenario

Function Documentation

```
GrdHandle grdOpen (uint32_tpublicCode, uint32_treadCode, uint32_twriteCode)
```

This function opens a handle to the dongle

Parameters:

publicCode - Public code

readCode - Read code

writeCode - Write code

Returns:

If the function succeeds, the return value is a handle to the dongle. If the function fails or fails to locate dongles from the search terms, the return value is `INVALID_HANDLE`

```
GrdHandle grdOpenByFindMode (uint32_tfindFlags, const GrdFindMode *findMode, size_tfindModeSize, uint32_treadCode, uint32_twriteCode)
```

This function opens a handle to the dongle that matches a specific search criteria

Parameters:

findFlags - Combination of GrdFM_xxx flags

findMode - A pointer to the GrdFindMode structure

findModeSize - Size of the GrdFindMode structure

readCode - Read code

writeCode - Write code

Returns:

If the function succeeds, the return value is a handle to the dongle. If the function fails or fails to locate dongles from the search terms, the return value is INVALID_HANDLE

```
uint32_t grdCodeRun (GrdHandlehandle, uint16_talgorithmName, uint32_tp1, const void *inBuffer,
size_tinBufferSize, void *outBuffer, size_toutBufferSize, uint32_t *codeRet)
```

Run user-defined loadable code

Parameters:

handle - A valid handle value

algorithmName - Algorithm numerical name

p1 - Parameter (subfunction code) for loadable code

inBuffer - A pointer to the buffer that contains the data to be sent into the user-defined loadable code

inBufferSize - The amount of data to be sent to the dongle

outBuffer - A pointer to the buffer that is to receive the data returned by the user-defined loadable code

outBufferSize - The amount of data to be received from the dongle

codeRet - Pointer to the return code returned by the user-defined loadable code

Returns:

Returns zero if successful, otherwise an error code is returned

```
uint32_t grdCodeLoadFile (GrdHandlehandle, uint16_talgorithmName, const char *filePath)
```

Load user-defined loadable code

Parameters:

handle - A valid handle value

algorithmName - Algorithm numerical name

filePath - A pointer to zero terminating string, which contains the full path to the GCExe-file.

Returns:

Returns zero if successful, otherwise an error code is returned

```
uint32_t grdCodeLoad (GrdHandlehandle, uint16_talgorithmName, const void *buffer, size_tbufferSize)
```

Load user-defined loadable code

Parameters:

handle - A valid handle value

algorithmName - Algorithm numerical name

buffer - A pointer to the buffer for GCExe-file

bufferSize - Buffer size for GCExe-file

Returns:

Returns zero if successful, otherwise an error code is returned

```
uint32_t grdGetDongleInfo (GrdHandlehandle, GrdDongleInfo *dongleInfo, size_tdongleInfoSize)
```

The function returns detailed information about the dongle, that was previously opened by **grdOpen** function

Parameters:

handle - A valid handle value

dongleInfo - A pointer to the **DongleInfo** structure

dongleInfoSize - Size of the **dongleInfo** buffer

Returns:

Returns zero if successful, otherwise an error code is returned

```
uint32_t grdGetFindInfo (GrdHandlehandle, GrdFindInfo *findInfo, size_tfindInfoSize)
```

The function returns information about finding dongle, that was previously opened by **grdOpen** function

Parameters:

handle - A valid handle value

findInfo - A pointer to the **FindInfo** structure

findInfoSize - Size of the **findInfo** buffer

Returns:

Returns zero if successful, otherwise an error code is returned

```
uint32_t grdUpdateVendorInfo (GrdHandlehandle, const GrdVendorInfo *vendorInfo, size_tvendorInfoSize)
```

Update vendor dongle fields

Parameters:

handle - A valid handle value

vendorInfo - A pointer to the **GrdVendorInfo** structure

vendorInfoSize - Size of the **GrdVendorInfo** structure

Returns:

Returns zero if successful, otherwise an error code is returned

```
uint32_t grdClose (GrdHandlehandle)
```

The **grdCloseHandle** function closes handles previously opened with **grdOpen** function

Parameters:

handle - A valid handle value

Returns:

Returns zero if successful, otherwise an error code is returned