



"Plugin proxy"

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1

"Plugin proxy" ,
 API, API "Python plugin",
 DLL API
 Visual C++ 2015,

2

Plugin proxy :
 : Windows 2000 SP4 , 32-x 64-x
 - : 5 MB
 :
 (), Advanced Serial Data Logger.
Microsoft Vista :
 Program Files,
 :
 1. ,
 2. ;
 3. Windows Vista .
 - Google.

3

Plugin proxy

1. (, Advanced Serial Data Logger), ;
2. ;
3. Windows;

4.

" " ;

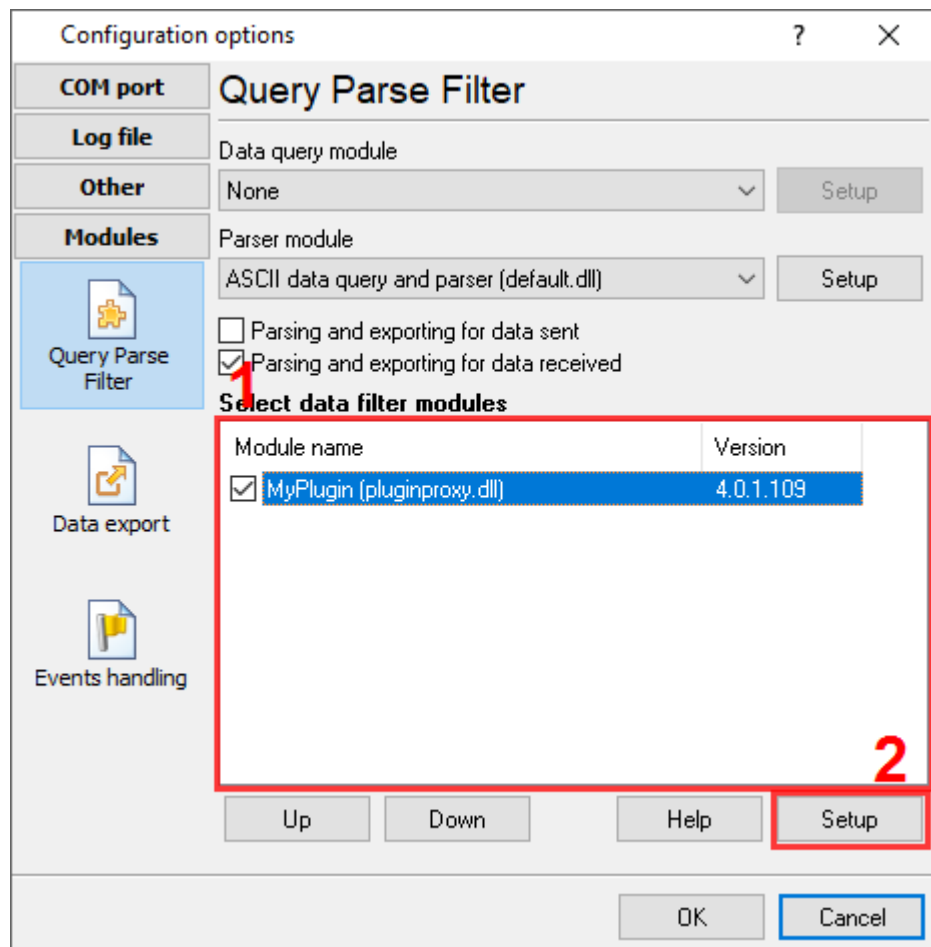
5.

, " "

.1-2.

" " "

" " " - " "



.1.

4

Plug-in -

Advanced Serial Data Logger

5

```
"Plugin proxy"
, API
:
1. DLL
2. pluginproxy.dll (
   \plugins\pluginproxy).
```

6 **API**

```
Visual C++ 2015,
:
1. API
   ( aggPluginShowOptionsDialog).
2. DLL
3. DLL.
   try ... catch.
```

aggPluginCreate

void __stdcall aggPluginCreate(_di_IaggPluginW Sender)

Sender - _____ API.
API.

1. _____
 2. _____, _____ DLL.
- (_____).

aggPluginLoad.

aggPluginLoad

void __stdcall aggPluginLoad(_di_IaggPluginW Sender, const PPluginCallRec pCallRec, int &Result)

pCallRec - _____

Result -
mrtSuccess,

aggPluginUnload

void __stdcall aggPluginUnload(_di_IaggPluginW Sender, const PPluginCallRec pCallRec, int &Result)

Result -

aggPluginDestroy

void __stdcall aggPluginDestroy(_di_IaggPluginW Sender)

DLL

aggPluginLoadSettingsNow

void __stdcall aggPluginLoadSettingsNow(_di_IaggPluginW Sender)

1. aggPluginShowOptionsDialog
- 2.

aggPluginSaveSettingsNow

void __stdcall aggPluginSaveSettingsNow(_di_IaggPluginW Sender)

(INI).

aggPluginShowOptionsDialog

void __stdcall aggPluginShowOptionsDialog(_di_IaggPluginW Sender, const PPluginCallRec pCallRec, bool &

" "

Success - TRUE,
aggPluginLoadSettingsNow

aggPluginEvent

void __stdcall aggPluginEvent(_di_IaggPluginW Sender, const PWideChar Event, const PPluginCallRec pCall

Event - "PORT-CLOSE".

```

Result -                                     ,                                     mrtSuccess.
                                     ,                                     " _____ "
                                     ,
                                     .

```

aggPluginExecuteCustomCommand

```
void __stdcall aggPluginExecuteCustomCommand(_di_IaggPluginW Sender, const PWideChar Command)
```

```
Command -                                     "MY-COMMAND".
```

```
Result -                                     ,                                     mrtSuccess.
```

aggPluginSetParserItems

```
void __stdcall aggPluginSetParserItems(_di_IaggPluginW Sender)
```

```

                                     ,
                                     .
                                     "                                     aggPluginShowOptionsDialog,
                                     " (mttFilter), "                                     " (mttDataExport),
"                                     " (mttEventsHandling).

```

aggPluginProcessData

```
void __stdcall aggPluginProcessData(_di_IaggPluginW Sender, const PPluginCallRec pCallRec, int &Result)
```

```

                                     ,
                                     .
                                     "
" (mttDataQuery), "                                     " (mttDataParser) "                                     " (mttFilter), "
" (mttDataExport), "                                     " (mttEventsHandling).
                                     "                                     "
                                     ,                                     _____ pCallRec
                                     .
                                     _____

```

```
Result -                                     ,                                     mrtSuccess.
```

aggPluginGetData

```
void __stdcall aggPluginGetData(_di_IaggPluginW Sender, const PPluginCallRec pCallRec, int &Result)
```


aggPluginStateChanged

void __stdcall aggPluginStateChanged(_di_IaggPluginW Sender, const DWORD ModuleTypes)

ModuleTypes -

ModuleEnabled",

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API

mrtSuccess = 0.
 mrtInvalidParameter = -1.
 mrtNotSupported = -2.
 mrtException = -3.
 mrtNotInitialized = -4.
 mrtError = -5.

"aggPluginModule.h".

8 API

"aggPluginModule.h"
 ++

API

"CaggPlugin"

mttDataQuery = 0x01.
 mttDataParser = 0x02.
 mttDataExport = 0x04.
 mttEventsHandling = 0x08.
 mttLogging = 0x10.
 mttFilter = 0x20.
 mttDeviceLayer = 0x40.
 mttMenuExt = 0x80.
).

()

Data Logger Suite.

API.

(

```

:

TDataRecType : unsigned char {
    pdtNone, //
    pdtParamList, // pParams.
    pdtBuffer, // pData.
    pdtObject, // pObject ( API).
    pdtString, // ANSI ASCII, pStr.
    pdtDWORD, // dwData.
    pdtCommand, // dwData ( ).

    pdtNotify, // dwData ( ).

    pdtParamListObj // ( ).
};

:

pdtCommand_ClientConnect = 0x0101; // ( IP => ).
pdtCommand_ClientDisconnect = 0x0102; // ( )
( IP <=> ).
pdtCommand_TryRestoreConnection = 0x0103; // ( <=
).
pdtCommand_ClientBlock = 0x0104; // ( IP <= ).
pdtCommand_BufferCleanupEnable = $0105; // ( <=
- ).
pdtCommand_BufferCleanupDisable = $0106; // ( <= -
).
pdtCommand_GetQueueSize = $0201; // ( => ).

struct TDataRec
{
    DWORD dwTag; //
    DWORD dwDataSize; //
    pdtBuffer pdtString.

    TDataRecType bDataType;
    union
    {
        struct
        {
            DWORD dwData;
        };
        struct
        {
            char *pStr;
        };
    };
};

```

```

    };
    struct
    {
        void* pObject;
    };
    struct
    {
        TaggParamsList* pParamsObj;
    };
    struct
    {
        void *pData;
    };
    struct
    {
        _di_laggParamsListA* pParams;
    };
};
};

```

API

```

struct TPluginCallRec
{
    DWORD dwSize; // TPluginCallRec
    Byte bVersion; //
    DWORD dwModuleHandle; //
    DWORD dwModuleIndex; //
    DWORD dwDataSource; //
    DWORD dwClientID; //
    , dwDataSource dwClientID
    TModuleTypes aCallModuleType; //
    API.
    TaggParamsList* aParameters_; //
    TDataRec aDataIn; //
    TDataRec aDataOut; //
    unsigned char aClientName[50]; // dwClientID.
    \_di\_laggParamsListA aParameters; //
};

typedef TPluginCallRec* PPluginCallRec;

```

API

0 (S_OK).

HRESULT __stdcall Log(const byte Level, const BSTR str)

str . Level : 0 - , 1
- , 2 - .

HRESULT __stdcall GetModuleParameter(const BSTR AName, OleVariant* AResult)

AName.

HRESULT __stdcall SetModuleParameter(const BSTR AName, const OleVariant &Value, bool* AResult)

AName Value.

HRESULT __stdcall NewData(_di_IaggParamsListW* List)

mttDataParser mttFilter.

HRESULT __stdcall PluginStorageAdd(const BSTR AId, const PVOID AData)

HRESULT __stdcall PluginStorageGet(const BSTR AId, PVOID* AData)

HRESULT __stdcall PluginStorageDel(const BSTR AId, PVOID* AData)

API.

AId -

AData -

HRESULT __stdcall GetParserItems(OleVariant* AResult)

(BSTR),

CR+LF

:

DESCRIPTION | NAME | DATA_TYPE | DEFAULT_VALUE

DESCRIPTION -

NAME - (, A-Z,

).

DATA_TYPE - : String, Memo, Bytes, Blob, Boolean, Float, Smallint, Word, Integer, Date, Time, DateTime, DWord, Byte, Shortint, Int64, Currency.
 DFAULT_VALUE -

HRESULT __stdcall GetConfigs(OleVariant* AResult)

(BSTR),
 CR+LF
 :
 NAME<TAB>DATA_SOURCE_ID
 NAME -
 <TAB> - ASCII (0x09).
 DATA_SOURCE_ID - HEX.
 DWORD

HRESULT __stdcall SendData(const PPluginCallRec pCallRec, const PBYTE AData, const int ASize, int* AResult)

pCallRec - NULL.
 AData -
 ASize -
 AResult -
 >= 0 -
 -1 -
 -2 -
 -3 -
 -4 -
 -5 -
 -6 - (, . .)
 -7 - ()
 -8 - ()
 -9 -
 -10 -
 -11 -
 -12 - ()
 -13 - (, . .)

-14 -

HRESULT __stdcall GetArgs(const _di_IaggParamsListW* AArgs)

HRESULT __stdcall SendEvent(const BSTR AEventId, const _di_IaggParamsListW AArgs)

AEventId **AArgs**
 NULL. GetArgs. AArgs
 "_____".

HRESULT __stdcall LoadSaveConfig(const bool ASave, const _di_IaggParamsListW AArgs)

ASave, **AArgs.** **GetArgs**
 "_____".

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API.
 "[w]",
ModulePath - (string)
ModuleName - (string)
ApplicationFullName - (string)
ModuleRegistryRoot1 - (dword)
 HKEY_LOCAL_MACHINE HKEY_CURRENT_USER
ModuleRegistryRoot2 - (dword)
ModuleRegistryPath - (string)
INIFile - (string) INI
INISectionPrefix - (string)
 INI
DisplayFullVersion - (string)

IsTemporaryLoad - (bool)

LogTitle - (string) [w]

Description - (string) [w]

EventsSupported - (string) [w]

LOG-MESSAGE -
NEW-LOG-FILE -
LOG-FILE-DELETE -
NEW-DATA-PACKET -
ERROR-WRITE-FILE -
PORT-OPEN -
PORT-CLOSE -
CONFIG-CHANGE -

USER-LOGOFF, USER-LOGON -

STOP-SERVICE -

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, API
65
API aggPluginProcessData,

"fifobuffer.h".
["CaggPlugin"](#):

CFifoBuffer GetDataSourceBuffer(const PPluginCallRec pCallRec)

CFifoBuffer

Size -

Data -

void Clear() -

void Shift(const int ASize) - "ASize" ().

```
int Find(const PBYTE ASign, const byte ASignSize, const unsigned int Offset = 0)
```

```

    "ASign"      "ASignSize"
Offset.         "-1".

```

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```

"aggParamLst.h"      "CaggParamsList"
    ++
    .
    .
    .
"$NEW_ROW$".
    "CaggParamsList"

Clear() -
Delete(index) -          index
CopyFrom(object [, start_index = 0[, end_index = -1]]) -
    object.              start_index  end_index
                        .              end_index      -1,

ItemByName(name) -          name (    ).
ItemIndexByName(name) -          name.
ItemValueByName(name) -          name.
                                ,          Null.

ItemValueByNameDef(name, default) -
name.                          ,          default.

InsertItem(index, name, value) -          name          value
    ,          index.

SetItem(name, value[, canadd = False]) -          name
    value.          canadd      True,

AddItem(name, value) -          name          value
    .

AddItemCopy(item) -          item
    .

```



```
FindRow(item, start_idx, is_row_end_sign) -  
start_idx. True ( ,  
start_idx). end_idx - ,  
is_row_end_sign - ,  
True, end_idx -
```

```
:  
  
int nStartIdx = 0;  
int nEndIdx = 0;  
bool bEndRowSign = false;  
while (aData.FindRow(nStartIdx, nEndIdx, bEndRowSign))  
{  
    //  
    // your code here  
    //  
  
    nStartIdx = nEndIdx + 1;  
}
```

```
NewRow() - .  
Count - , .  
Items[index] - , .
```

```
:  
Name - ( ).  
Value - , "Null".
```