



"

"

1		1
2		1
3		1
4		4
5		5
1	5
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22

8

23

1

1

ASCII Data Parser,
"Python plugin" "Proxy plugin".

XML

XML

XML

2

: Windows 2000 SP4

32-x 64-x

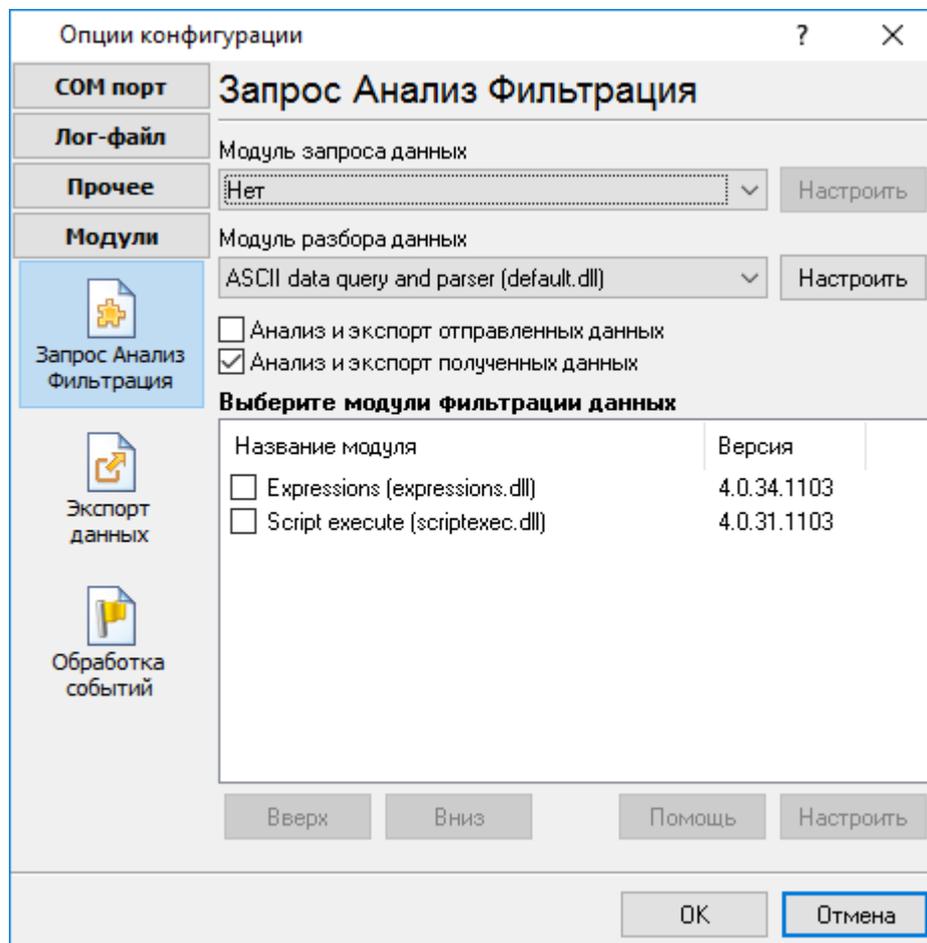
5 MB

(), Advanced Serial Data Logger.

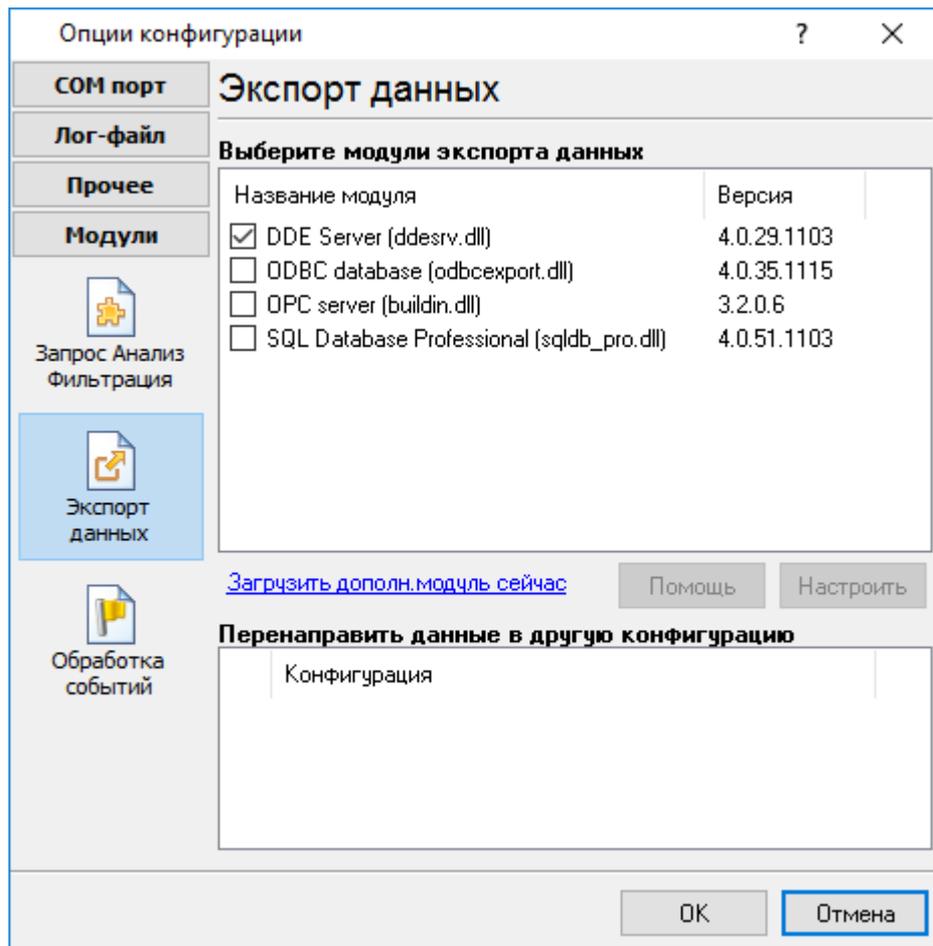
3

1. (, Advanced Serial Data Logger),
2. ;
3. ;
4. Windows;
5. " " ;

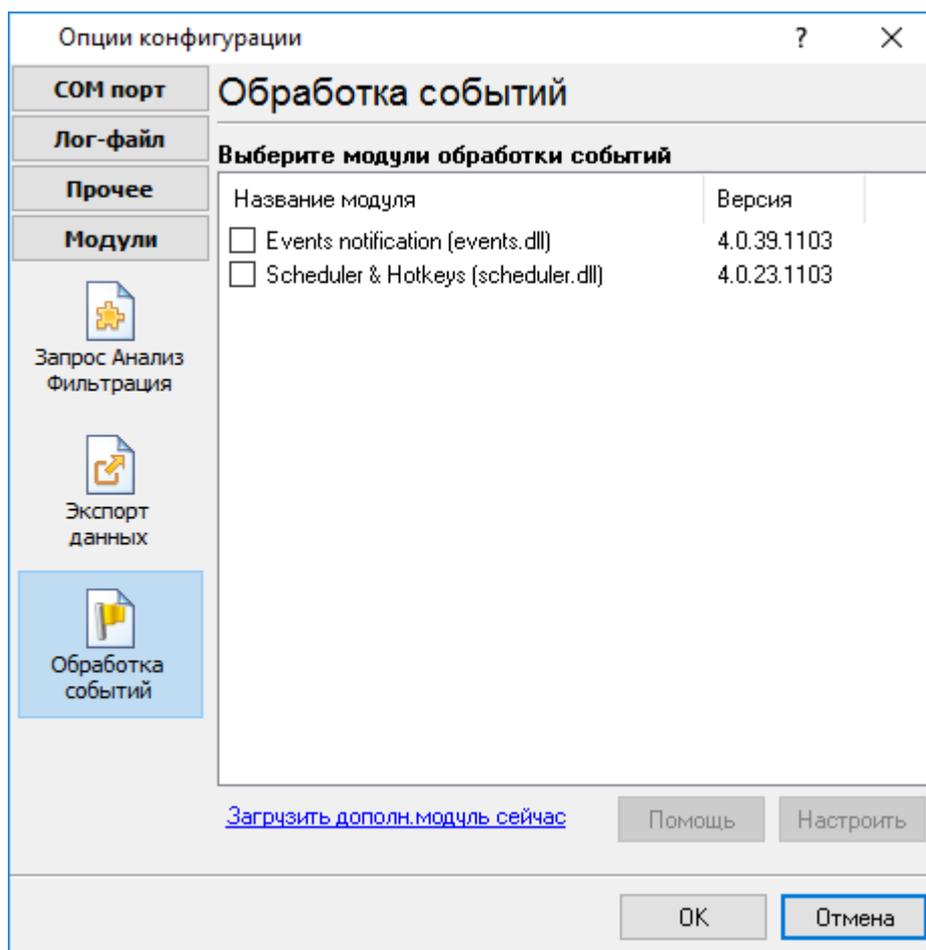
. 1-2.



. 1.



. 2.



. 3.

4

Plug-in -

Advanced Serial Data Logger

5

5.1

"xml" "Configs",
"uniparser.dll".

:

```
uniparser
|--Configs
|  |--config.xml
|--uniparser.dll
```

XML [XML](#).

1. ("true" "false") , :
 - o 0 - false.
 - o 1 - true.

2. [d],
 - o 0 [d].
 - o value - ([d] 0).

3. , false,

4. XML HTML XML
 - o < <
 - o > >
 - o & &
 - o " () "

5. , .

```
logtitle="value" -
logtitle='value' -
logtitle='value1 "value2"-value1' -
value2
```

```
logtitle='value" -
```

```
logtitle=value -
```

logtitle="value1 & value2" -

5.2

XML 1.0

XML

:

```
<?xml version="1.0" encoding="windows-1251"?>
```

```
<?xml version="1.0" encoding="utf-8"?>
```

1252 . ., ANSI UTF-8. Windows: Windows 1250, Windows 1251, Windows

Windows 1252.

5.3

XML

XML

:

```
<Config name="MyPlugin [Custom Format 0]" logtitle="MyPlugin">
```

Config -

name, logtitle -

5.4

XML

5.4.1

```
<!-- ... --> -
```

5.4.2 Config

XML

name -

logtitle -

5.4.2.1 Devices

: [Config](#)

name -

caption -

5.4.2.1.1 Includes

: [Devices](#), [Device](#)

5.4.2.1.1.1 IncludeItem

: [Includes](#)

name - ["Include"](#).

:

```
<IncludeItem name="decode_gps_fix">
  <Item value="1" name="No fix" />
  <Item value="2" name="2D" />
  <Item value="3" name="3D" />
  <Item value="" name="Unknown" default="1" />
</IncludeItem>
```

5.4.2.1.2 Include

["IncludeItem"](#).

:

:

name - .

:

```
<Include name="decode_gps_fix" />
```

5.4.2.1.3 Device

: [Devices](#)

:

name - .

caption - .

5.4.2.1.3.1 SetVar

```
( , , ).
( ) .
```

: [Device](#)

```

"
"
:
name -
value - ( ).
type - ([d]). "const",
:
<SetVar name="UNIQUE_ID" value="" />

```

5.4.2.1.3.2 Options

```

,
"OK"
: Device, Command
:
:
: Options
:
name -
caption -
hint -
type -
• integer -
• string - [d].
• uppercase -
• mixedcase -
• lowercase -
• password -
• hex - A-F 0-9.
• alphanumeric -

```

- validchars - "validchars".
- combodropdown - "comboitems" "combovalues", "ComboItems". (Text)
- combosimple -
- combodropdownlist -
- combodropdownvalueslist - "combovalues" "value" "ComboItems",

- color - RGB.
- extended -
- checkbox - "check box",
 - o 0 - [d].
 - o 2 -
 - o 4 - (check box).

default -

min, max -

validchars -

comboitems - "~", , comboitem1~ comboitem2~ comboitem3.

combovalues - "~", , value1~ value2~ value3. comboitems.

checktype - "check box".

- o 1 - check box c [d].
- o 2 - check box c
- o 3 - radio button.

:

```
<Option name="DATAFORMAT" caption="Data format" type="combodropdownvalueslist" default
  <ComboItems>
    <Item name="Engineering unit" value="0" />
    <Item name="Perecent of FSR (full scale range)" value="1" />
    <Item name="2s complement hexadecimal" value="2" />
    <Item name="Ohms" value="3" />
  </ComboItems>
</Option>
```

"

"

"combobox".

: [Option](#)

:

Item

: Comboltems

:

name -

value -

5.4.2.1.3.3 Request

[Item, Items.](#)

: [Device](#)

:

5.4.2.2 **Commands**

(),

: [Device](#)

:

5.4.2.2.1 Command

().

:

-
-
-

: [Commands](#)

:

name -

caption -

5.4.2.2.1.1 Responses

()

: [Command](#)

:

: [Responses](#)

:

begin - ()

begintype.

begin="+RGA".

begintype -

- o 0 - [\[d\]](#).
- o 1 -

beginbuff - ([d] 0)

1.

end - ([d]) ()

endtype. : end="#0D#0A"

endtype -

- o 0 - [\[d\]](#)

: end="#0D#0A".

ASCII

CR LF

0x0Dh 0x0Ah

- o 1 -
- o 2 -
- o 3 -

len.

timeout.

- o 4 - 3, 0.
- o 5 - 3, 1.
- o 6 - timeout.

[Responses.](#)

endbuff - ([d] 0)

beginbuff.

len -

maxpacketize -
16384.

override - ([d] 0)

override

"1", **endtype**
Response,

"3",

Responses.

endtype begintype 0 1.

validatesize - ([d] 0)

1,

timeout - ([d] 500)

()

endtype).

parse -

: "b,p,e",

o b -

o p -

o e -

: parse="bp".

if).

: [Response](#)

[Item.](#)

```

case - ([d] )
      "true".
      if

```

: [Responses, Items](#)

[parse.](#)

- type -**
- o **break -**
 - o **goto -**

```

      id,
      expr.
      expr.

```
 - o **log -**

```

      value.

```
 - o **push -**

```

      name,
      value,

```
 - o **pop -**

```

      name,
      value,
      value,
      name.
      value,
      pop
      datatype,

```
 - o **reset -**

```

      name,

```
 - o **const -**

```

      name.
      value,
      name.
      : <Item
      type="const" pos="1" value="*NULL*" />

```
 - o **format -** [format](#)

```

      name.

```
 - o **filter -**

```

      name,
      filtertype.

```
 - o **decode -**

```

      value
      name,
      name
      default="1".

```

```

<Item type="decode" pos="1" size="1" value="{CALL_TYPE}" name="DIRECTION" export="1"
  <Item value="0" name="INT" />
  <Item value="1" name="OUT" />
  <Item value="2" name="IN" />
  <Item value="" name="INT" default="1" />
</Item>

```

```

      "CALL_TYPE"      "1",
"DIRECTION"          "OUT".
"CALL_TYPE"          "10",      "DIRECTION"
      "INT".

```

o **var** -

```

<Item type="var" pos="1" size="-1" value="{CALL_TYPE}" name="DIRECTION" export="1"
      "CALL_TYPE"
"DIRECTION".

```

o **hex** -

```

<Item type="hex" pos="1" size="-1" value="#0D#0A" name="VALUE" export="1">

```

o **fix** - size, pos, value.

```

o delimit - ordernum, delimiter, ordernum "1".
ordernum
value: _____

```

: 123,321;456;789;012

```

<Item type="delimit" pos="1" size="-1" ordernum="1" delimiter=";" name="FLAG1" d
      "123,321"      "FLAG1".

```

```

<Item type="delimit" pos="1" size="-1" ordernum="2" delimiter="," name="FLAG2" v
      "321"      "FLAG2".

```

o **regexp** -

```

      expr.      ordernum      ordernum.
      _____      1. ordernum
      match      (1, 2
      . .).      value.      :

```

CALL_TYPE = 123456I

<Item type="regexp" size="-1" name="_DIRECTION" expr="(I|O)" value="{CALL_TYPE}" datatype="string" />
"I"
"_DIRECTION".

<Item type="regexp" size="-1" name="_BEGIN" expr="^(.{5})" datatype="string" />
"_BEGIN".

- o **expr** - , **expr**,
name :

<Item type="expr" size="-1" expr="'IN'+'{DIRECTION}'" name="CALL_TYPE" datatype="string" />
"DIRECTION" '12345', "CALL_TYPE"
'IN12345'.

- o **pascal** - Pascal- ,
:

<Item size="-1" type="pascal"><![CDATA[begin SendByte(\$06); end.]]></Item>

UniParser_ScriptTest.exe "[Script Execute](#)".

- o **crc_AAA** - , AAA - _____.

pos size .
:

<Item type="crc_crc8-sum" pos="0" size="10" name="CRC" />

name - ().

value - ([d])
fix, expr, regexp :

- o . ,
- o . ,

pos - ([d] 0) . "{VAR}+1",
{VAR} ,
"VAR". "-1",

size - ([d] -1)

validatesize,**default - ([d])**

-
-
-

format -

: format="trim;uppercase".

caption - ([d])**datatype - ([d] string)**

: string, boolean, float,

smallInt, integer, word, dword, date, time, datetime, unknown.

export -

○ 0 [d] -

○ 1 -

○ 2 -

○ 3 -

).

○ 4 -

).

: name="_TEMP".

count - ([d] 1)**count****caption:**

○ ITEM_COUNT -

1 count.

○ ITEM_COUNT_Z -

0 count-1.

```
<Item name="NAME{ITEM_COUNT_Z}" count="{_COUNT1}" caption="Name{ITEM_COUNT_Z}" e
```

```
"_COUNT1",
```


reqtype - (. .).
respitems - .
dataquery - ,
command - ,
unique - (bool, [d] 0). "1",
device - (bool, [d] 0). "1",

5.4.2.3.1 QUERYXML

XML

: [Predefine](#)

```

<Predefine tree="1" unique="0" device="0" command="0" reqtype="0" respitems="0"
  <QUERYXML>
    <Request caption="My Request" expanded="1">
      <DeviceType>DEF</DeviceType>
      <ReqType>DEF</ReqType>
      <ItemType>B</ItemType>
      <RequestMethod>
        <Timeout>2000</Timeout>
        <MethodPoll check="2">
          <PollInterval>5</PollInterval>
          <PollIntervalUnits>1</PollIntervalUnits>
        </MethodPoll>
      </RequestMethod>
    </Request>
  </QUERYXML>
</Predefine>
  
```

```

      : QUERYXML
      :
      caption - ([d] )
      expanded - (bool, [d] 0). "1",
      /
      ,
      name Device.
      : QUERYXML => Request
      :
      ,
      name Command.
      : QUERYXML => Request
      :
      :
      :
      • D -
      • B -
      • R -
      • S -
      :
      : QUERYXML => Request
      :
      :
      ( , . .).
      : QUERYXML => Request

```

" "

:

: [QUERYXML](#) => [Request](#) => [RequestMethod](#)

:

: [QUERYXML](#) => [Request](#) => [RequestMethod](#)

:

check - 2,

. [MethodOnce](#).

: [QUERYXML](#) => [Request](#) => [RequestMethod](#) => [MethodPoll](#)

:

:

- 0 -
- 1 -
- 2 -
- 3 -

: [QUERYXML](#) => [Request](#) => [RequestMethod](#) => [MethodPoll](#)

:

leadspace - , .
 hi - .
 lo- .
 trim - .
 trunc - , .
 trimleft - .
 trimright - .
 uppercase - .
 utf8decode, utf8encode - UTF-8.
 lowercase - .
 delete(X, Y) - Y X X, Y - .
 substr(X, Y) - Y X . X, Y - .
 div(X) - X, X .
 mul(X) - X, X .
 sub(X) - X , X .
 add(X) - X , X .

"@" ,

8

crc8-sum
 crc8
 crc8-darc
 crc8-i-code
 crc8-itu
 crc8-maxim
 crc8-rohc
 crc8-wcdma

crc16-sum
crc16
crc16-buypass
crc16-dds-110
crc16-dect
crc16-dnp
crc16-en-13757
crc16-genibus
crc16-maxim
crc16-mcrf4xx
crc16-riello
crc16-t10-dif
crc16-teledisk
crc16-usb
crc16-ccitt-1D0F
crc16-ccitt-FFFF
x25
xmodem
modbus
kermit

crc24
crc24-flexray-a
crc24-flexray-b

crc32
crc32-bzip2
crc32c
crc32d
crc32-mpeg
posix
crc32q
jamcrc
xfer