



"

"

1		1
2		1
3		2
4		4
5		5
1	.....	5
2	.....	6
3	XML	6
4	XML	6
	.....	6
Config	.....	7
Devices	.....	7
Includes	.....	7
IncludItem	7	
Include	.....	8
Device	.....	8
SetVar	.....	8
Options	.....	9
Option	.....	9
CombItems	11	
Request	.....	11
Commands	11	
Command	.....	11
Responses	12	
Response	12	
Items	.....	13
Item	.....	14
Predefine	.....	18
QUERYXML	19	
Request	.....	20
DeviceType	20	
ReqType	.....	20
ItemType	.....	20
RequestMethod	20	
Timeout	.....	21
MethodOnce	21	
MethodPoll	21	
PollInterval	21	
PollIntervalUnits	21	
6		22

7

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.

Microsoft Vista

Program Files,

- 1.
- 2.
3. Windows Vista

Google.

3

1. (, Advanced Serial Data Logger),

2. ;

3. ;

4. Windows;

5. " " ,

4. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

5. " " ,

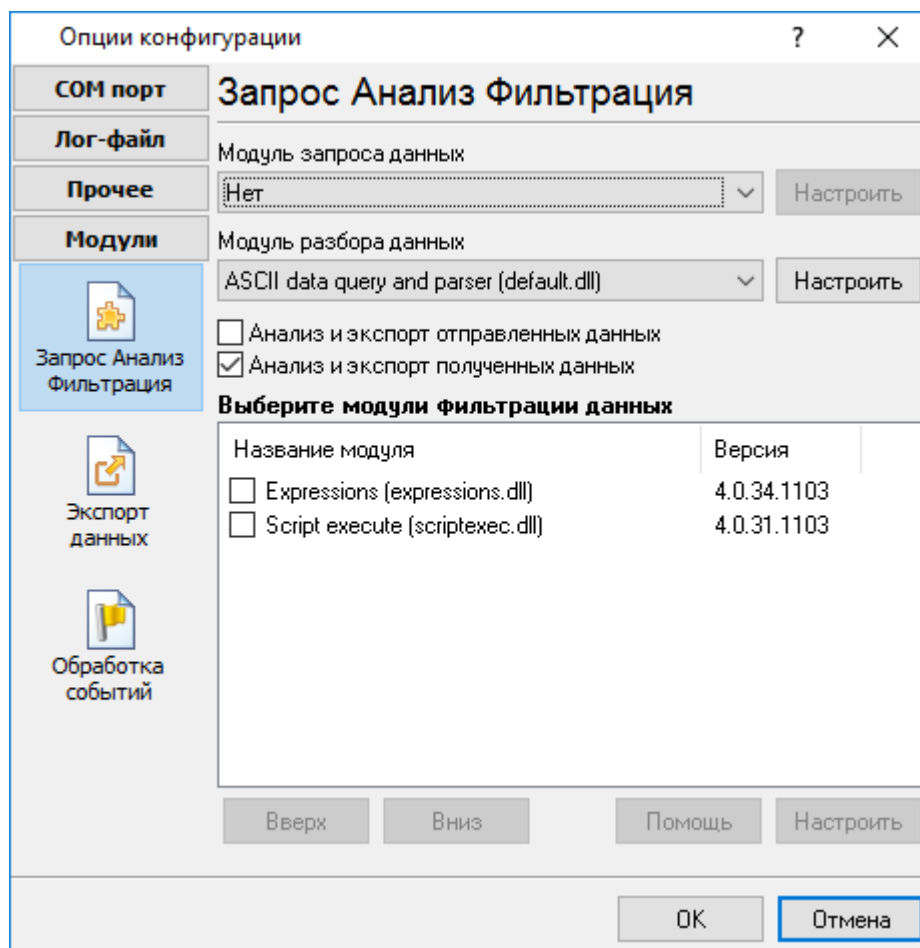
5. " " ,

5. " " ,

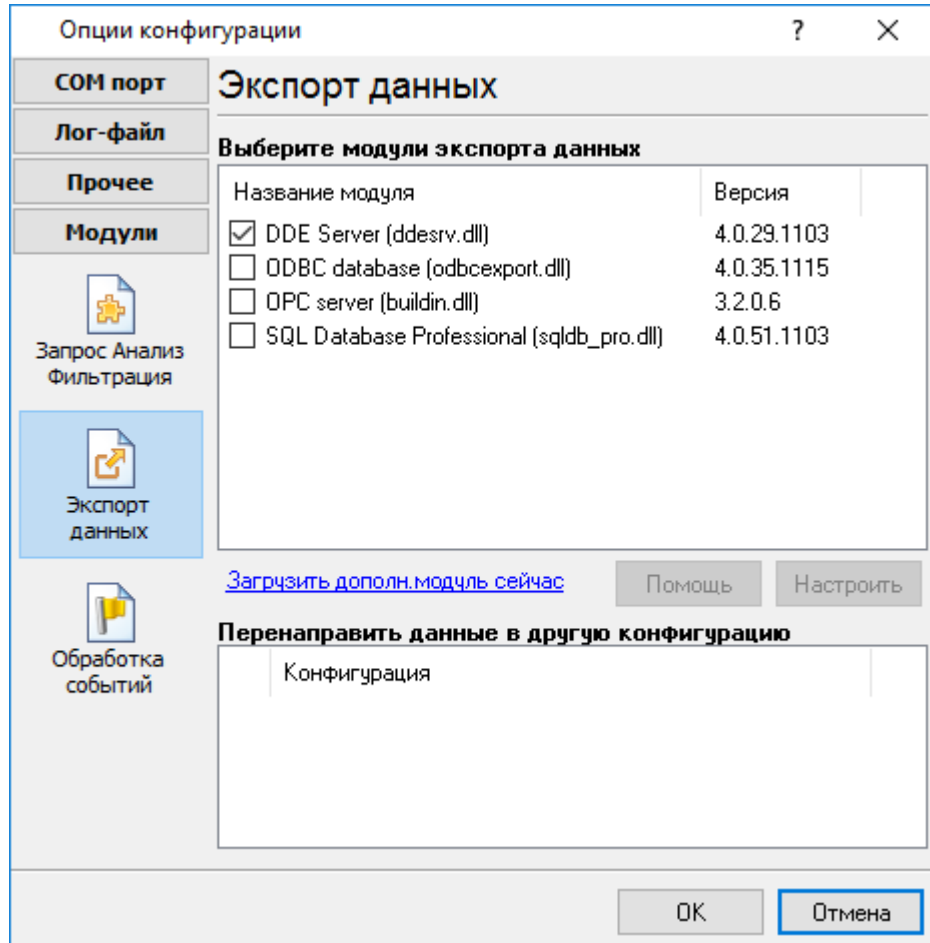
5. " " ,

5. " " ,

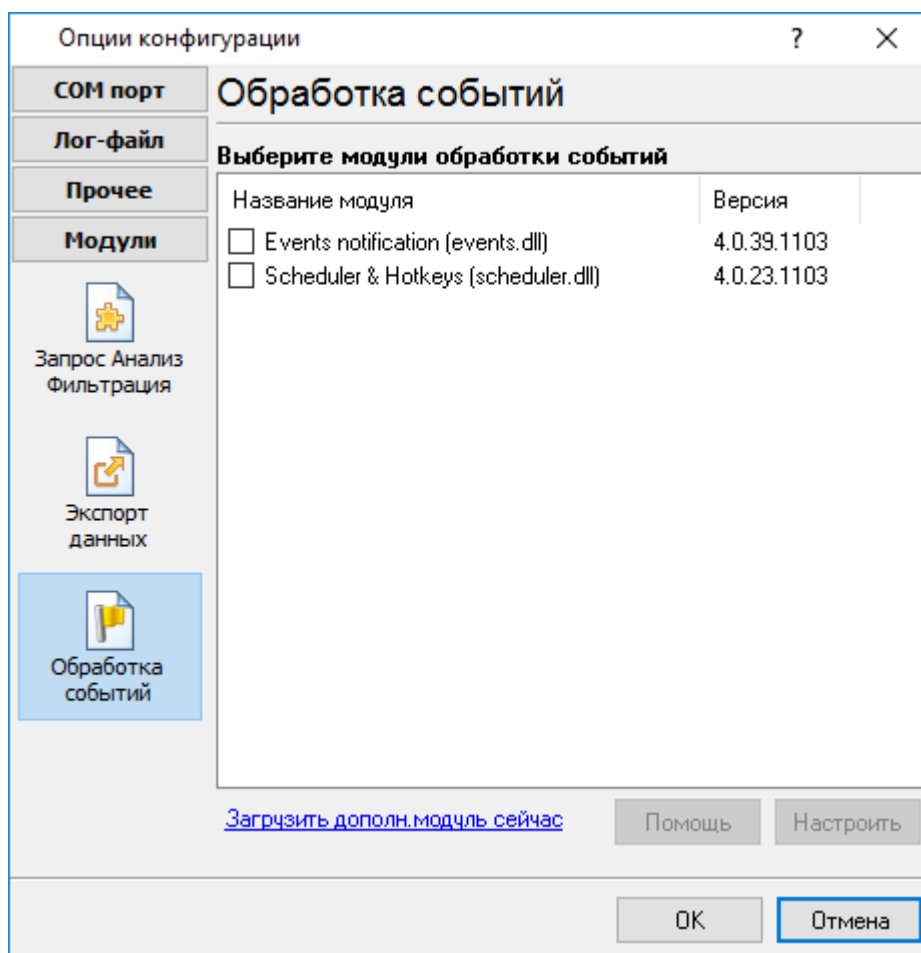
.1-2.



.1.



.1.



.1.

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,
 - o 0,

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

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
:
:
:
:
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 -

override - ([d] 0)

override

"1", endtype

"3",

Response,

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]) , , if
"true".

: Responses, Items

parse.

type -

- o break -
- o goto -

id, expr.
expr.

- o log -
- o push -

value.
name,
value,

- o pop -

name,
value,
value, pop
datatype,

- o reset -
- o const -

name,
value,
name.

type="const" pos="1" value="*NULL*" />

- o format -

format

name.

- o filter -

filtertype.

name,

- 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="
    "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}"

```


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

-
-
-

format -

: format="trim;uppercase".

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

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

: string, boolean, float,

export -

○ 0 [d] -

○ 1 -

○ 2 -

○ 3 -

○ 4 -

NULL.

NULL,

NULL,

(

false (

: 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",
    : NAME0, NAME1, NAME2 . . .
```

```

filtertype - "filter".
(
    name,
    0 -
    1 [d] -
    2 -
    3 -
    4 -
    5 -
    6 -
    7 -
    8 -
    9 -
    format.
    ( . exprtype),
    expr.
    expr.
    0x20h.
    0x7Fh.
    target.

```

```

expr -
exprtype - filtertype 1 2:
    0 [d] -
    1 -
    2 -

```

```

if - ([d] ) , "false",
:

```

```

... if="LENGTH('{FLAG3}')&lt;=5" />
FLAG3.

```

5.4.2.3 Predefine

```

: Config
:
"bool" "0".
"1".

```

tree -

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