



"XML parser"

<b>1</b>		<b>1</b>
<b>2</b>		<b>1</b>
<b>3</b>	<b>XML parser</b>	<b>1</b>
<b>4</b>		<b>2</b>
<b>5</b>		<b>3</b>
1	.....	3
2	XML .....	4
3	.....	6
4	.....	7
5	.....	8
6	.....	13
<b>6</b>	<b>?</b>	<b>14</b>
1	.....	14

# 1

XML

# 2

XML parser

: Windows 2000 SP4

32-x 64-x

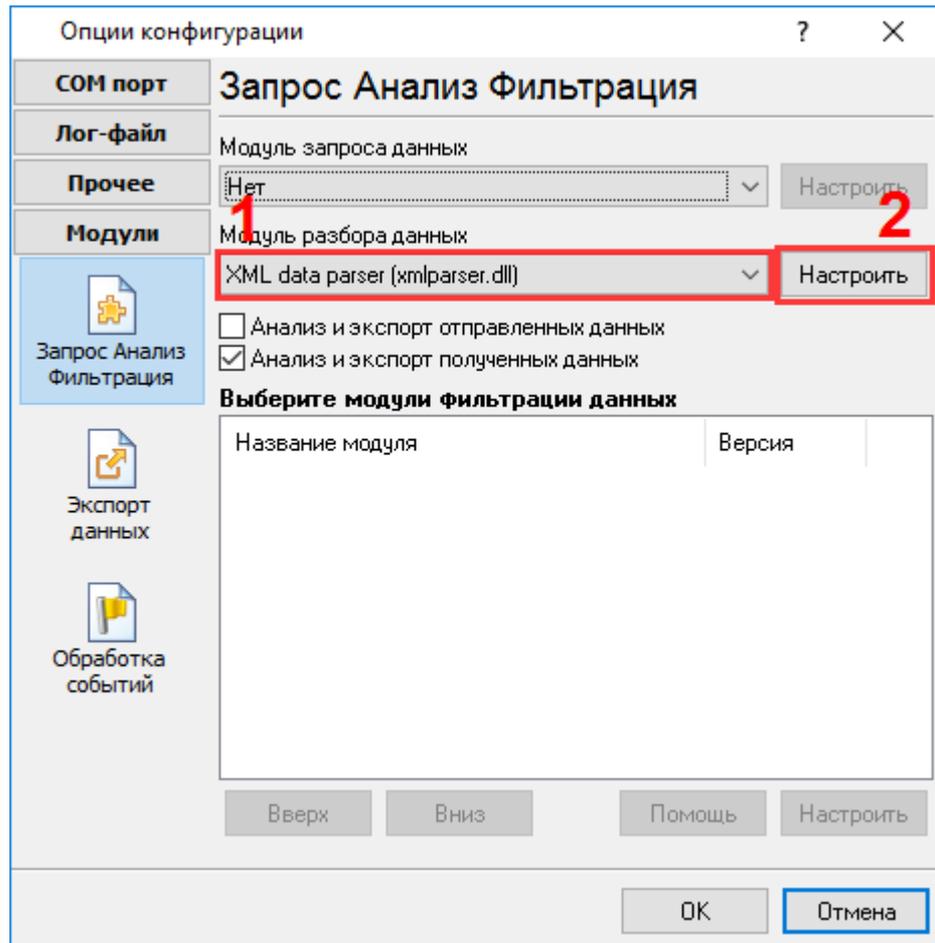
5 MB

( ), Advanced Serial Data Logger.

# 3

## XML parser

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



.1.

## 4

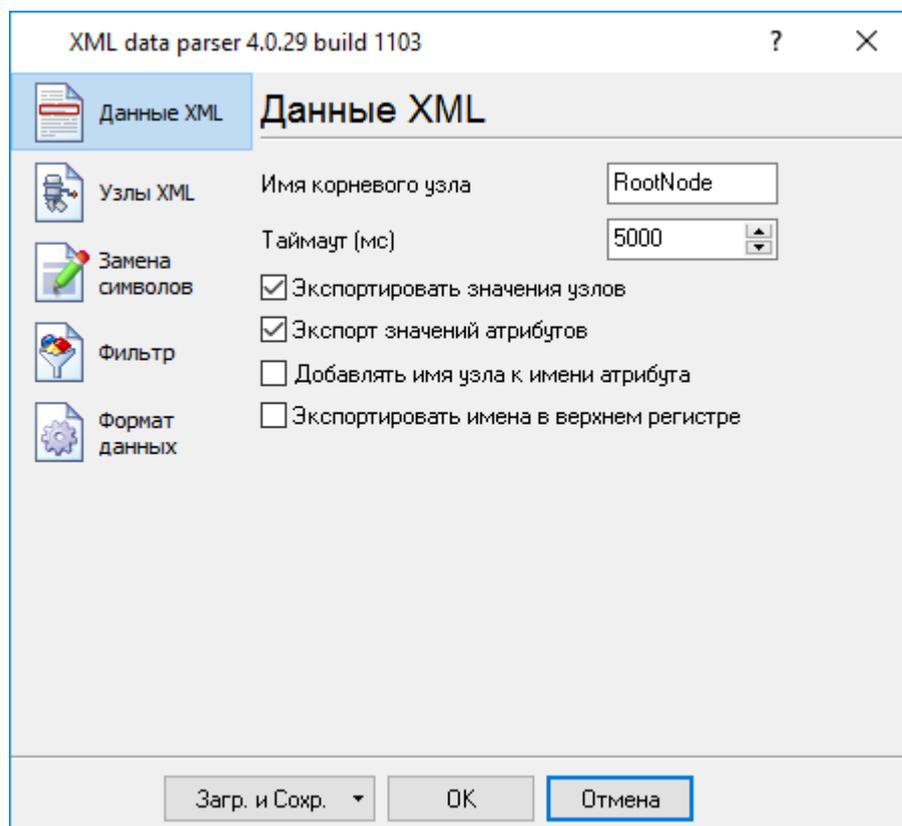
### Plug-in -

Advanced Serial Data Logger

## 5

## 5.1

" XML" ( .1).



.1. XML.

– XML ( ),  
, Response.

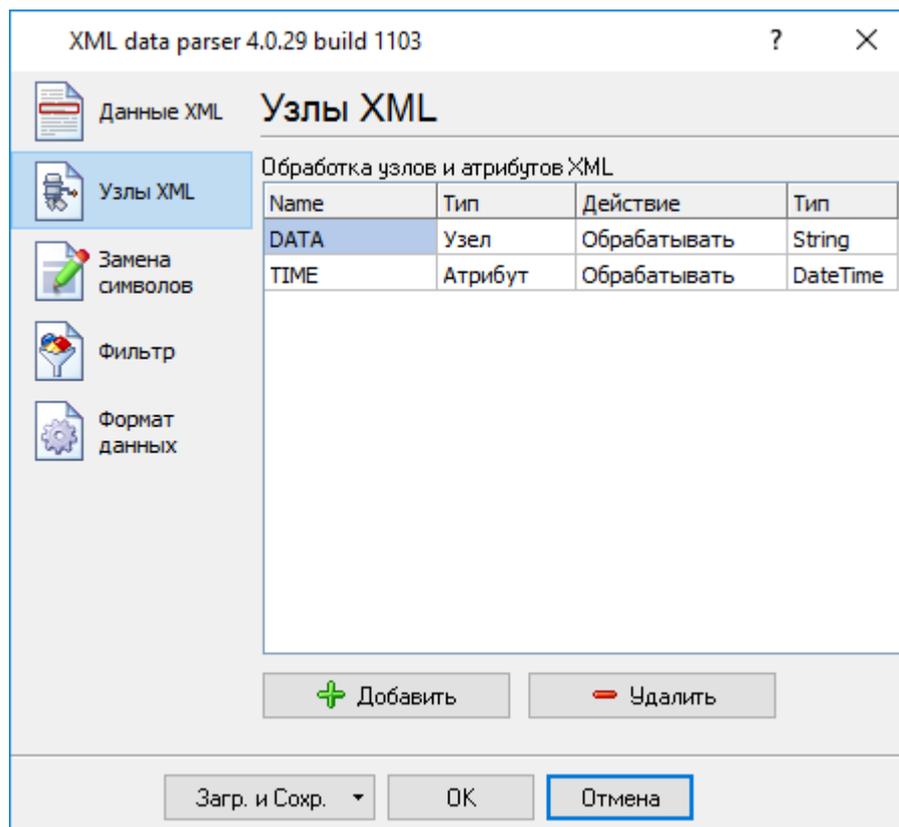
:

```
<Response end="#0A" parse="bp" timeout="500" validatesize="0">
  <Item type="filter" size="-1" filtertype="1" exprtype="1" expr="----" />
  <Item type="filter" size="-1" filtertype="2" exprtype="2" expr="^\d{2}\\/\d{2} " />
</Response>
```

<Response> </Response> ,

<Response>





.2. XML.

- ( ).

- XML : ,

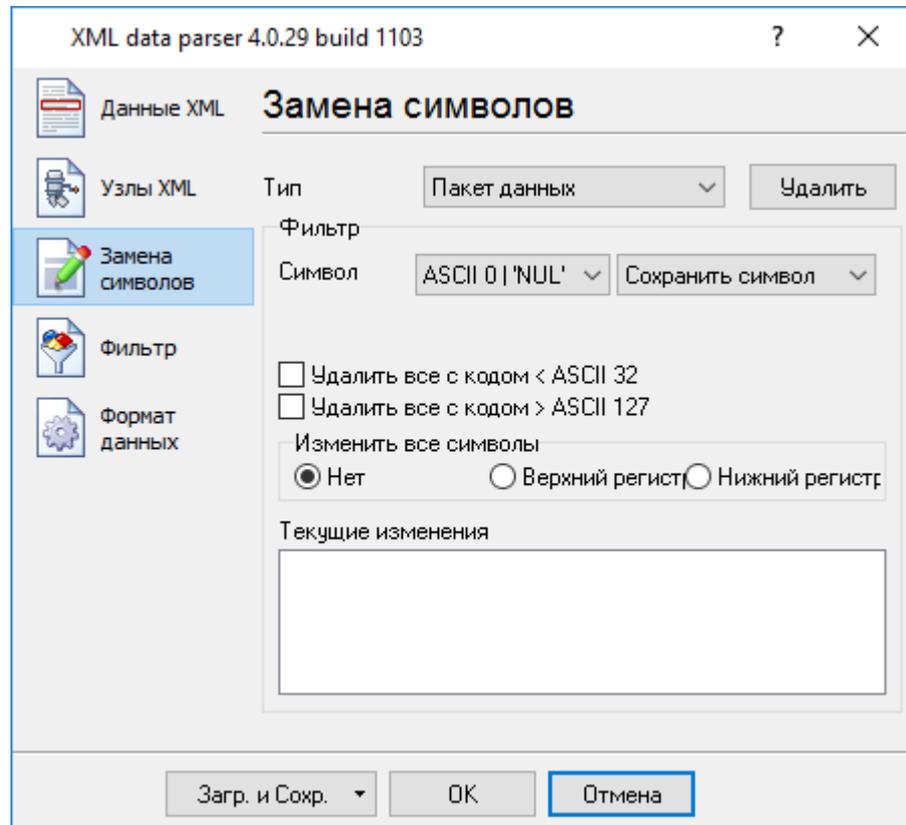
- - ;
- - ;

- String - 1 65535 ;
- Memo - 1 2^32 ;
- Bytes - ;
- Blob - Binary Large Object field ( );
- Boolean - (True/False) - 0 1;
- Float - : -2.9 x 10^39 .. 1.7 x 10^38
- Smallint - : 32768..32767;
- Word - : 0..65535;
- Integer - : -2147483648..2147483647;
- Date - ;
- Time - ;
- DateTime - .

## 5.3

( .3)

ASCII.



.3

## 5.4

**Фильтр**

Правила фильтра (на уровне пакетов данных)

Состояние	Тип	Выражение	Действие
Содержит	Текст	Data	Игнориров
Содержит	Текст	data	Игнориров

Минимальный интервал между пакетами (мс)

 Добавить  Удалить  

. 2.

## 5.5

?	{0,1}	a?	" .
+	{1,}	a+	" .
*	{0,}	a*	" .

" " (-) ( U) .

g ( )

i

m

s

u

U

x

UTF-8

()

[]

{a,b}

|

\

.

\d

[0-9]

\D

[^d]

\f

( )

\n

\pL

UTF-8

\r

u

\s [ \t\r\n\f]  
 \S [^s]  
 \t  
 \w [0-9a-z\_]  
 \W [^\w]  
 \v

^ [^da] , "d. "a.  
 - [a-z] , "a. "z.

^ ^a aaa aaa  
 \$ a\$ aaa aaa  
 \A \Aa aaa aaa  
 \Z a\z aaa aaa  
 aaa aaa

\b a\b aaa aaa  
 \ba aaa aaa

\B \Ba\B aaa aaa

\G \Ga aaa aaa

\[0-9]+

^

. , \d 0 9 , \w  
 , \W - ,  
 \w\s

( ) ' "a., : 10 20  
 a{10,20}

- " .. +, " ,  
 ( " .),  
 :  
 ".\*"

: , ,

<a href="helloworld.htm" title=" " > , </a>

:

"helloworld.htm" title=" " , "

, , .

".\*?"

( ?) :

"helloworld.htm" " " , "

' , ' , " , ' ,  
 " .. - , ,  
 " .. , ,  
 , , ,

(" - .).

:

\.

. , ' , ,  
, . , ,

\ , ' !\$()\*+.<>?[\^{}]

\Q , \E  
\E , \Q

- . , ,

( 0 9 A F),

:

[A-Fa-f0-9]

' , 0 9 A F:

[^A-Fa-f0-9]

' ; " . ;  
" . : "ab. "bc.:

(ab|bc)

\n, \n "aaa. "bbb., \1.  
, , :

(aaa|bbb)[0-9]+\1

"aaa. "bbb.,  
([0-9]+), \1.

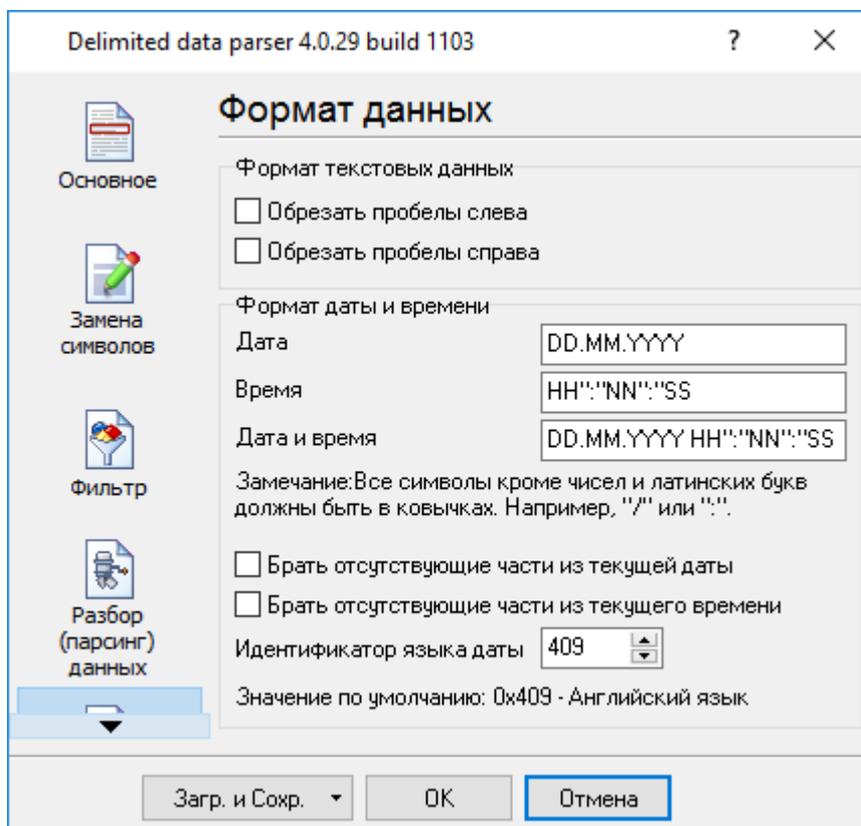
```

, "aaa123bbb.
"aaa.
\1
Perl.
Perl
(
"/.),
:
(?i)pattern
-
,
,
:
\
\#[a-fA-F][0-9]{3, 6}
0x00-0xFF
0x[a-fA-F0-9]{2}
0.0000
([0-9]+(\.[0-9]{2})?)
JSON "name": "1234"
"name":\s*"([\^"]+)"
XML HTML name="1234"
name=([\^"]+)
value : 1234
value\s*:\s*(\d+)

```

## 5.6

( . . . ).



. 3.

/

String.

Data Logger).

:

"/" / ":"

( , Advanced Serial ( . . . ).

d - , (1 - 31);  
 dd - , (01 - 31);  
 ddd - ( - )

```

;
dddd - ( - )
;
m - , (1 - 12);
mm - , (01 - 12);
mmm - ( - ) ,
;
mmmm - ( - ) ,
;
yy - (00 - 99);
yyyy - (0000 - 9999);
h - , (0 - 23);
hh - , (00 - 23);
n - , (0 - 59);
nn - , (00 - 59);
s - , (0 - 59);
ss - , (00-59).

- ( , )
:
.
:
.
( "Jan, 10 2024")
,
" (language ID),
"
```

## 6

## ?

### 6.1

```

" - "
"Plugins"
,
.
( )-
: , ,
,
%s [%s] -
,
(%s) -
,
```

%s. (%s) –

%s. (%s) –

( , )).

[support@aggsoft.ru](mailto:support@aggsoft.ru).

:"%s"