



"CSV data parser"

1		1
2		1
3	CSV data parser	1
4		2
5		3
6		7
7		8
8		9

# 1

CSV

CSV

# 2

CSV data parser

: Windows 2000 SP4

32-x 64-x

5 MB

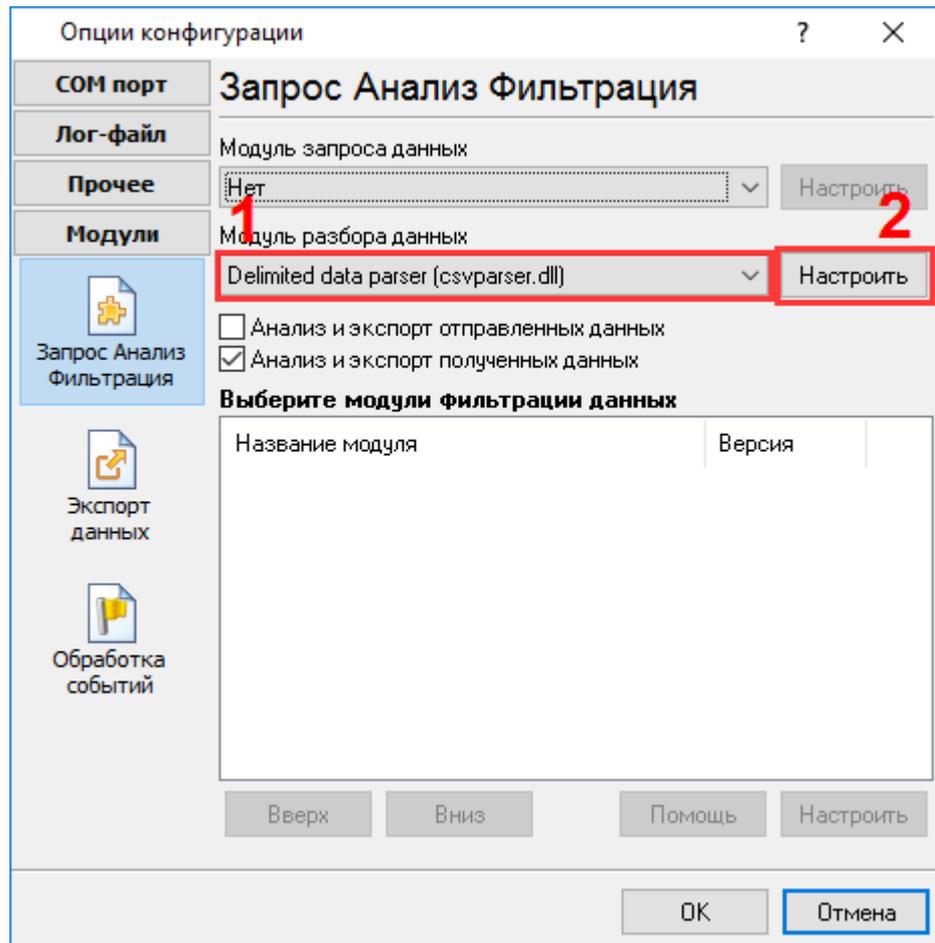
( ), Advanced Serial Data Logger.

# 3

## CSV data parser

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

. 1-2.



.1.

## 4

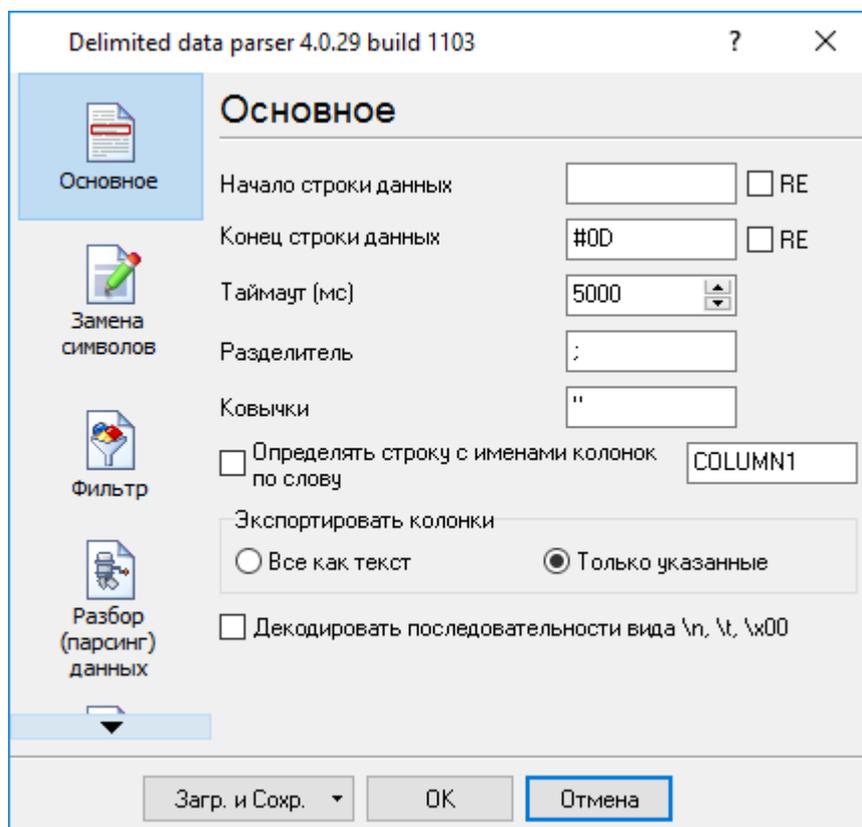
### Plug-in -

Advanced Serial Data Logger

## 5

. CSV data parser  
ASCII

" " ( .1)



.1.

, ASCII  
0x0D, 0x0A

< 0x20h

: #XX#XX ( , #0D#0A).

<0x20h,

- 
- 

, #02;  
, #0D#0A;

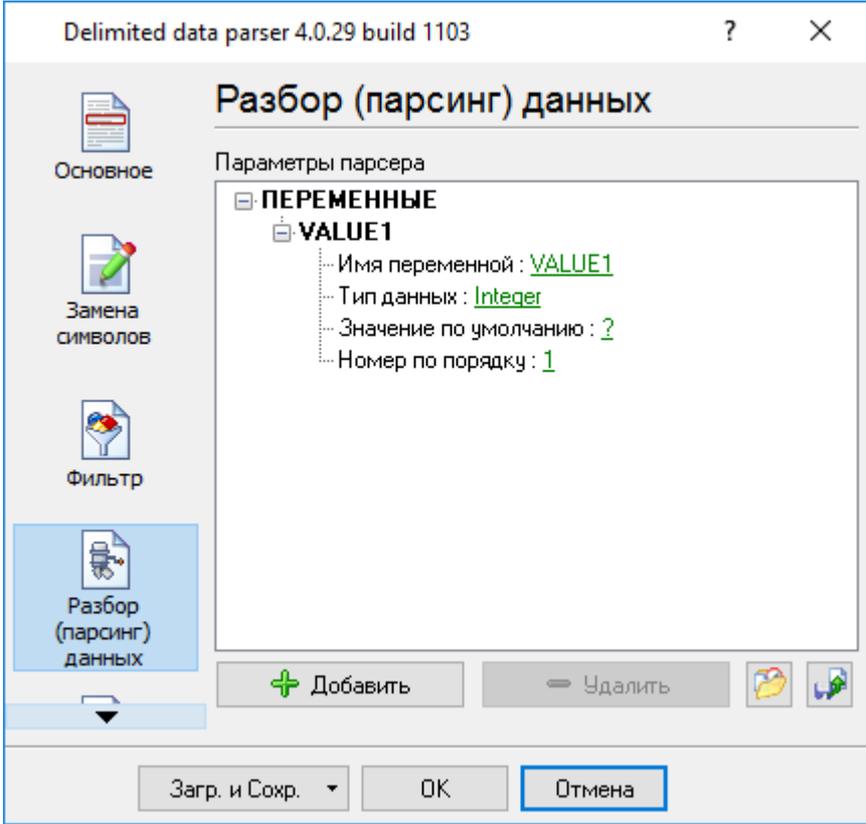
, 00:01:55,

\d{2}\:\d{2}\:\d{2}

RE

CSV

- #09.
- ASCII
- < 1> < 2> < N>
- "[]"
- \n, \t, \x00 - ASCII, \n -
- "String".
- "COLUMN"
- " (.2).



.2.

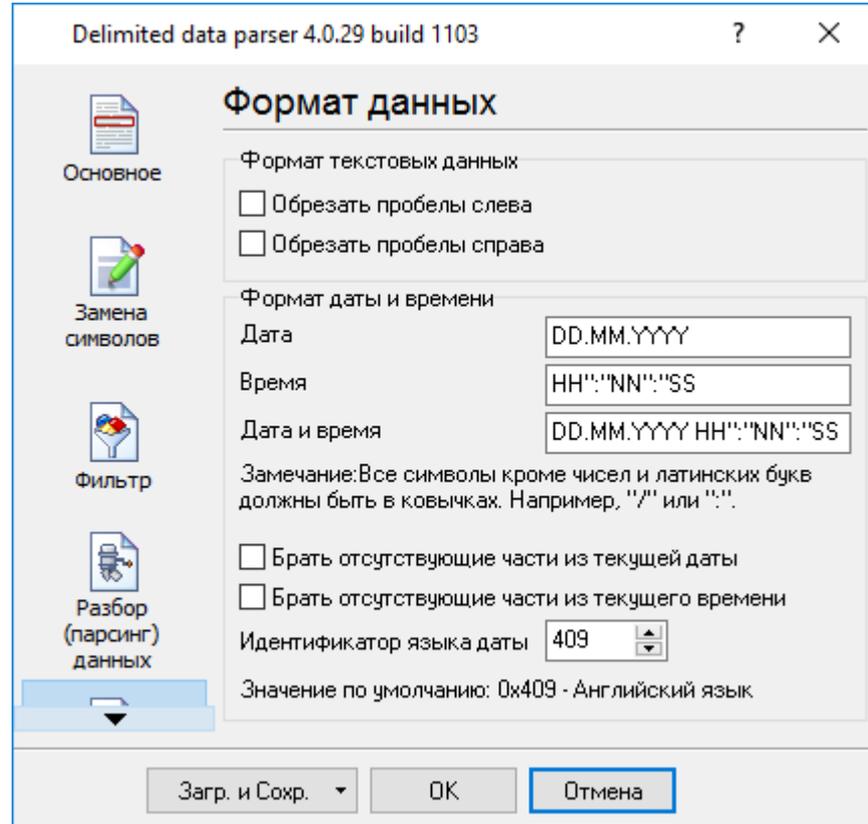
- 1. - ;
- 2. "string" ;
- 3. - ,
- 4. ;

: <https://www.aggsoft.ru/serial-data-logger/tutorials.htm>

```
:  
:  
223;741;09127;5:21:20;00:05:28;O;*****  
5;13134;013;15:53:30;0:05:28;O;*****
```

(1 ... 7),

( .3).



.3.

/ , String.

Data Logger).

"/" / ":"

( . .3).



## 7

**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.

## 8

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

"	" (-)	(	U)	.
g	(	)		
i				
m	.	:	^	,
s	,		,\$-	,
u			"	.(.)
U				
x				

UTF-8

()	,		
[]			
{a,b}		"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 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	4- ,
			- ,
			a

^[0-9]+

^

W- : 0 9 , \w  
lws

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

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

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

"helloworld.htm" title=" " , "

".\*?"

( ?) :

"helloworld.htm" " , "

.. -  
" ..  
" ..



, , \1 , "aaa123bbb.  
"aaa.

, Perl.  
i

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+)