



"JSON parser"

1		1
2		1
3	JSON parser	1
4		3
5		4
1	.....	4
2	JSON	5
3	.....	7
4	.....	8
5	.....	9
6	.....	14

1

JSON

JSON

- HTTP, Advanced TCP/IP Data Logger.
- MQTT, Data Logger Suite.

2

JSON parser

: Windows 2000 SP4

32-x 64-x

5 MB

(), Advanced Serial Data Logger.

Microsoft Vista

Program Files,

- 1.
- 2.
3. Windows Vista

Google.

3

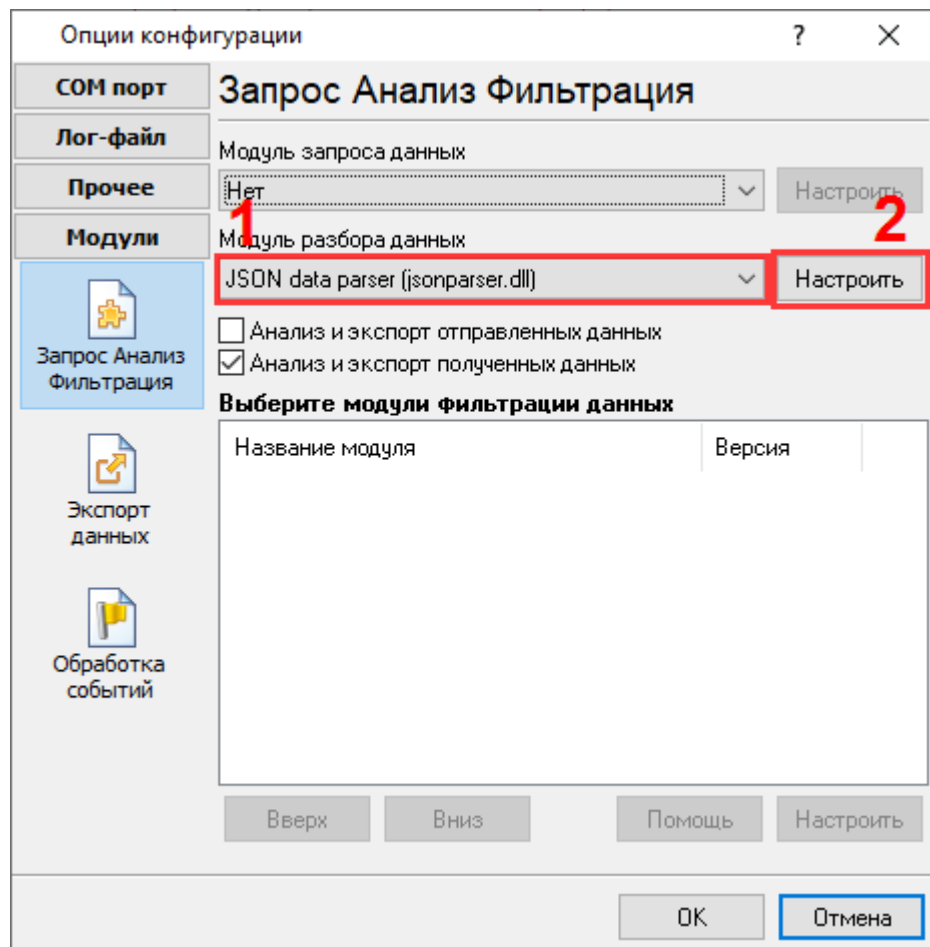
JSON parser

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

4.

5.

.1-2.



.1.

4

Plug-in -

Advanced Serial Data Logger

- ' . :

- . " " .

- ' . ' .

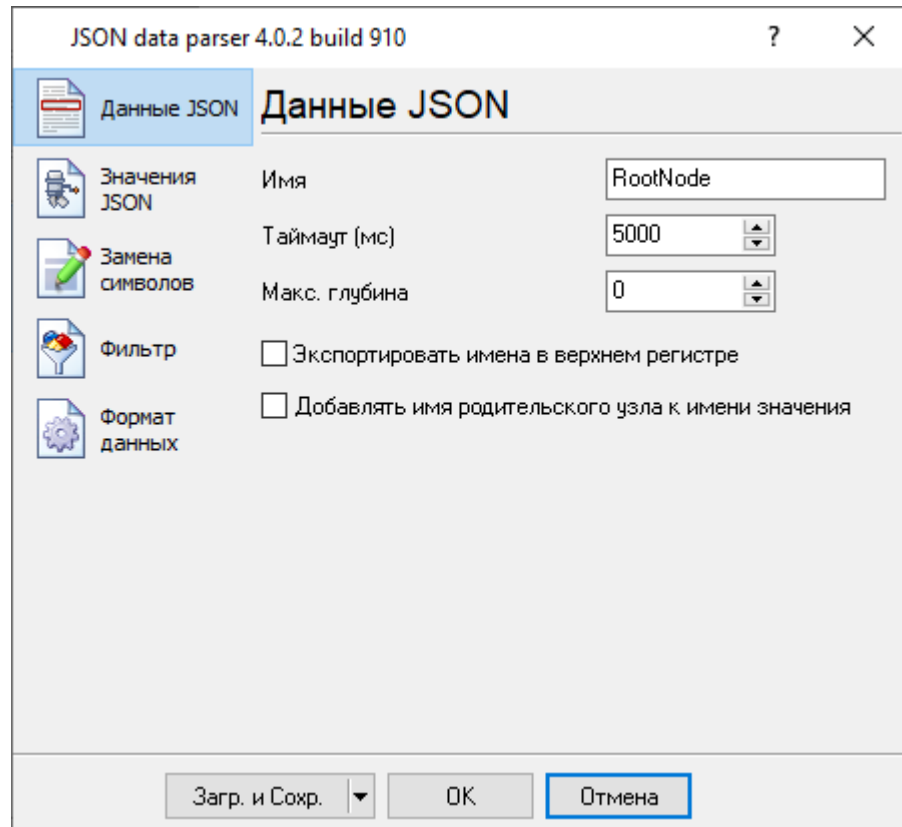
·

- . " " .

5

5.1

JSON" (.1).



.1. JSON.

), Response.

JSON :

```
{
  "root1":{
    "id":2,
    "int":123,
    "float":321.01,
  },
  "root2":{
    "id":2,
  }
}
```

```

    "{" "}"
    ,
    ,
    " " "root1", "root1"
    , "root2".
    - JSON
    - JSON,
    , id, int, float
    root1.id, root.float, root.int.
    ,
    -
    ,

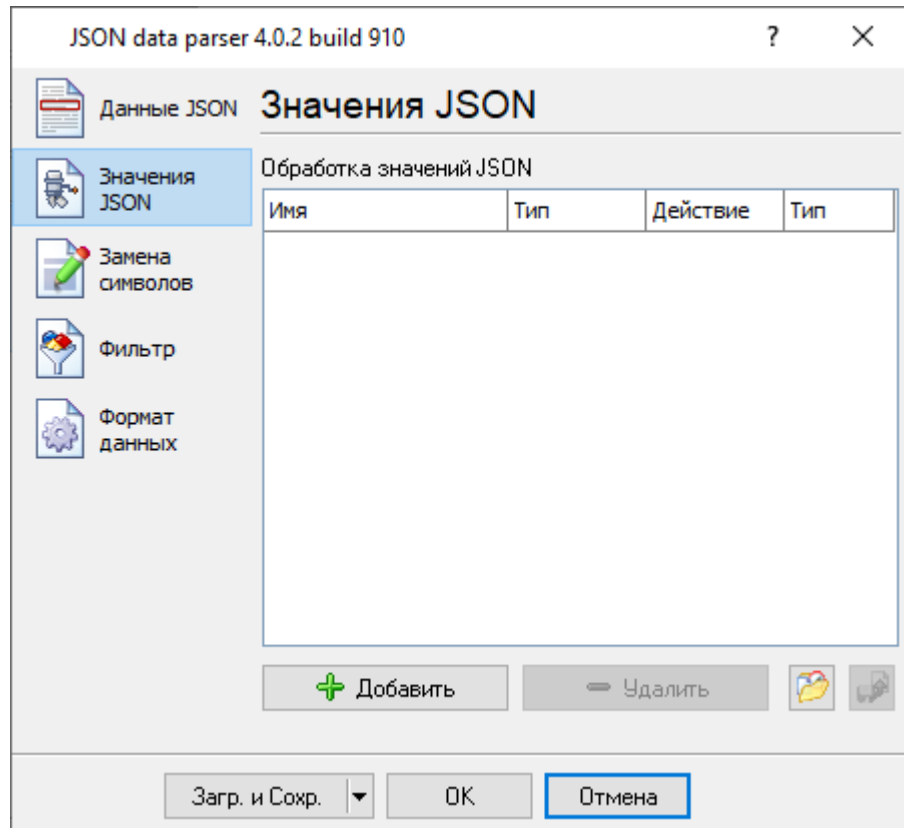
```

5.2 JSON

```

    " JSON" ( .2)
    " "

```



.2. JSON.

- ().

- JSON :

• - ;

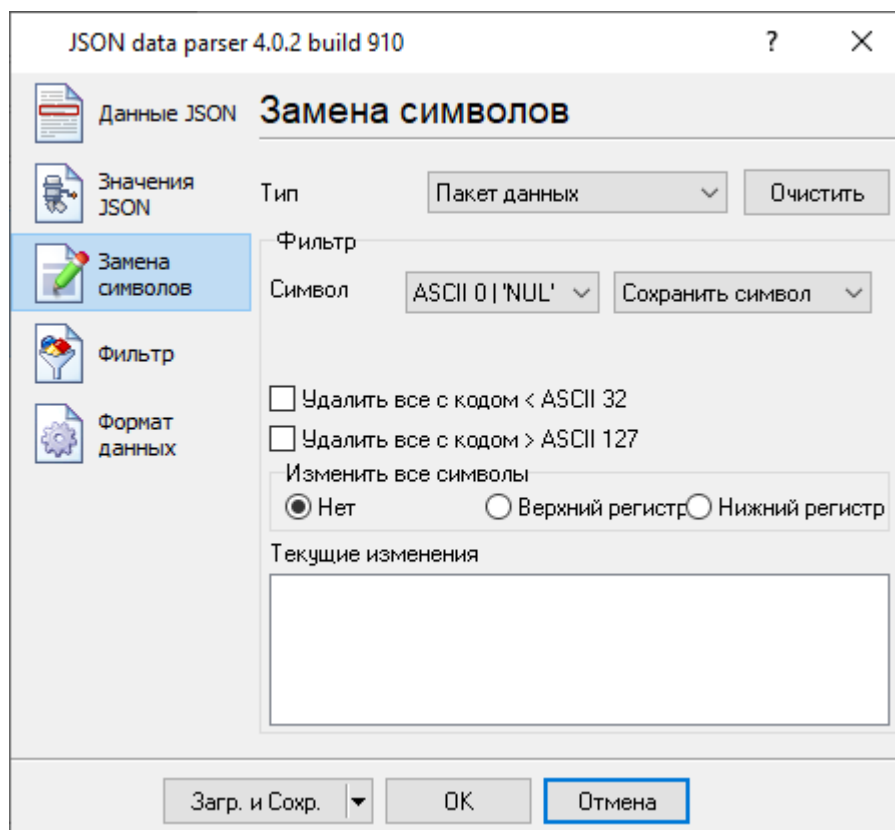
- JSON

- String - 1 65535 ;
- Memo - 1 2³² ;
- Bytes - ;
- Blob - Binary Large Object field ();
- Boolean - (True/False) - 0 1;
- Float - : -2.9 x 10⁻³⁹ .. 1.7 x 10³⁸
- 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  

.1

2

5.5

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

"	" (-)	(	U)	.
g	()		
i				
m	.	:	^	,
s	,		,\$-	,
u			"	.(.)
U		UTF-8		
x				

()	,		
[]			
{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]+

^

0 9 , \w
W -
:\br/>lws

10 20
"a.,
:\br/>a{10,20}

.. +, " ..
" *"
:\br/>" *"

 , "> ,
:\br/>"helloworld.htm" title=" " , "

:" *?"
:\br/>" *?"

(?)
:\br/>"helloworld.htm" " , "

.. -
" ..
:\br/>" ..

(" - .).

:

\.

,

,

,

\

!\$() * + . < > ? [\ | ^ { }

\Q

\E

,

,

,

,

,

(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.

, , \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"

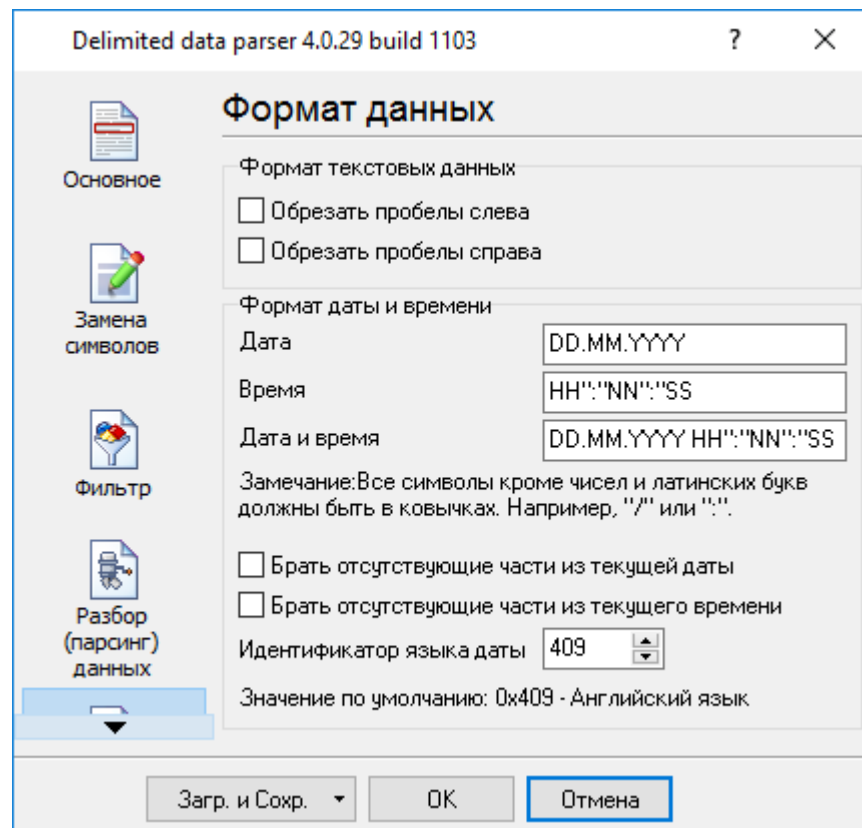
name=\"([^\"]+)

value : 1234

value\s*:\s*(\d+)

5.6

(. . .).



/ , - 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 2020")
,
(language ID),
" "