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Topic Title: create filter

Topic Summary: How to convert a string to a filter?

Created On: 10-Nov-2005 08:29

Status: Post and Reply

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This question was answered by **Reik Schroeder**, on **Tuesday, March 28, 2006 11:42 AM**

Answer:

Hi Paul,
you may be right.
So I've implemented a mainly new solution, which covers the changes made by Richard in a different way ...

I hope, it will work now correctly 😊

Greetings
Reik Schöder

10-Nov-2005 08:29



Jörg Werner Hello,

Posts: 24
Joined: 29-Jul-2005 is there any dxl function/script which can convert a string to a Filter?

E.g.:

```
Filter myfilter = str2filter("(ObjType == R) AND ((Project Relevancy includes ProjectABC) OR (Project Relevancy includes Product))")
```

Many thanks, Jörg

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10-Nov-2005 09:35



Reik Schroeder

Posts: 361
Joined: 28-Jul-2003 Hi Jörg,
a few month ago I've written such a filterparser.
It is able to retrieve a *Filter* from a *string*. The format of string is the same wich can be got from *stringOf (Filter, Module)*.

Please see attached include file ...

I hope, that is, what you need 😊

Greetings
Reik

[filterParser.inc](#) (7 KB)

 Evosoft GmbH
 for Siemens Industry Sector

Berlin, Germany

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 10-Nov-2005 10:44



Ken McGuffie

Posts: 63
 Joined: 3-Feb-2004

Hi Reik,

I cannot download the script. This seems to be a problem with these forums for a lot of people. Would you mind sending me a copy?

Regards

Kenny

kenny.mcguiffie@baesystems.com

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 10-Nov-2005 16:25



Jörg Werner

Posts: 24
 Joined: 29-Jul-2005

Hi Reik,

this sounds very promising. But I can not download the file.

Can you reply and add the file in a different format, e.g. zip. Or can you send it to joerg.werner@web.de.

Danke und schönen Gruß, Jörg

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 10-Nov-2005 17:37



Shawn Stepper

Posts: 96
 Joined: 6-Aug-2004

Me too please!

Thanks!

Shawn

 Shawn Stepper
 shawn.e.stepper@wellsfargo.com

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 11-Nov-2005 10:19



Reik Schroeder

Posts: 361
 Joined: 28-Jul-2003

Hi guys,

here iss the code directly - for copy and paste - I hope this will work well 😊

Greetings

Reik

 Evosoft GmbH
 for Siemens Industry Sector

Berlin, Germany

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 2-Dec-2005 15:10



Richard Good

Posts: 152
 Joined:
 22-Mar-2005

Hi Reik,

My compliments on a great idea - it saved me a lot of time, but (isn't there always a but) there were a few fairly major bugs in it. These are explained in the attached code. I hope you and others find the attached code useful.

 Regards,

Richard Good

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 6-Dec-2005 11:02



Reik Schroeder

Posts: 361
 Joined: 28-Jul-2003

Hi Richard,

sorry for some bugs and thanks for removing 😊

It was the first version of this tool and it can be enhanced somehow ...

One comment to your changes:

It is very nice, that the tool will now parse combinations of more than 2 Elements too. I've implemented it only with 2 parts, because the original Filters (returned by stringOf) are done in the same way. They are placing brackets around each two elements.

Your solution is more comfortable to the user 😊

TNX,
greetings
Reik

P.S.: The attached document contains the documentation of Filter syntax used by Doors and this tool.

 [Filters.doc](#) (77 KB)

Evosoft GmbH
for Siemens Industry Sector

Berlin, Germany

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 7-Dec-2005 10:55



Paul Worrall

Posts: 87
Joined:
30-Sep-2003

The parseFilter function does not seem to follow 'normal' operator precedence rules, for example: in DXL and other programming languages, the boolean expression "A and B or C and D" is evaluated as "(A and B) or (C and D)" whereas parseFilter parses the equivalent filter expression as "((A AND B) OR C) AND D"

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 7-Dec-2005 15:55



Reik Schroeder

Posts: 361
Joined: 28-Jul-2003

Hi Paul,
you may be right.
So I've implemented a mainly new solution, which covers the changes made by Richard in a different way ...

I hope, it will work now correctly 😊



Answer

Greetings
Reik Schöder

 [filterParser1.inc](#) (9 KB)

Evosoft GmbH
for Siemens Industry Sector

Berlin, Germany

Edited: 7-Dec-2005 at 16:08 by Reik Schroeder

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 8-Dec-2005 12:40



Richard Good

Posts: 152
Joined:
22-Mar-2005

Nice solution Reik!
This string represents all that's good about internet forums, my compliments to all involved.

Regards,

Richard Good

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 3-Jul-2006 13:29



Jörg Werner

Posts: 24
Joined: 29-Jul-2005

There seems to be another problem with the script:

The following filter does not work:

Release Contains 'E'

It seems that the column name is ignored and the filter

Contains 'E'

is applied.

A quick (and dirty?) fix is to replace

Regexp REcontainsFilter = regexp "(.*) (CONTAINS|Contains) '(.*)' (.*)"

by

Regexp REcontainsFilter = regexp "(.*) (CONTAINS|Contains) '(.*)' *(.*)"

cheers, Jörg

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10-Aug-2006 11:08



Richard Good

Posts: 152
Joined:
22-Mar-2005

I have some very complicated filters to deal with so have had reason to remove some of the limitations of the previous code (Reik gave me a very good starter for 10). I am adding the code here so others may benefit from it and so that any bugs can be reported (if you use this and find any please report them here I want this to be as bullet proof as possible, excepting that I haven't had time to error trap that conscientiously). The code now copes with NOTs in the middle of the code and brackets in attribute names and enumerations. Hopefully the attachments will work this time.

Regards,

Richard Good

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10-Aug-2006 20:14



Louie Landale

Posts: 2070
Joined:
12-Sep-2002

All of my filter scripts are done manually, something like the attached.

- Louie

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11-Aug-2006 08:32



Richard Good

Posts: 152
Joined:
22-Mar-2005

I also use the accept reject technique 😊, but it will not work for some circumstances. I use the attached for running a query (well my version of a query) on a number of doors modules using a filter for the select criteria. It also enables the user to tweak existing filters without having to reconstruct an enormous multi layered filter all over again. In one of my tools they can adjust the string and reapply in seconds.

Regards,

Richard Good

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13-Oct-2006 16:11



Heather Linsk

Posts: 50
Joined: 7-Mar-2006

Richard -

THANK YOU! THANK YOU! THANK YOU!

You have saved me untold hours of work.

Regards -

Heather Linsk.

Heather Linsk
Lead Engineer
General Dynamics AIS
413-494-7095

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6-Dec-2006 19:23



Richard Good

Posts: 152
Joined:
22-Mar-2005

There were a couple of bugs in the script concerning brackets in a string, a minor modification was needed. The corrected files are attached. I have edited a line to cope with Object Number.

[VBRegexps.inc](#) (6 KB)

[FilterParserNewStyle.inc](#) (15 KB)

Regards,

Richard Good

Edited: 22-Feb-2008 at 17:52 by Richard Good

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21-Nov-2007 18:10



Scott Covington

Posts: 17
Joined:
29-Nov-2004

Reik's dxi appears very useful.

I have seen a different dxi to modify or edit a filter that does not handle regular expressions. This one appears to handle regular expressions.

The posting appears to only be the core routines to make it work, but no GUI. Before I finish throwing a simple front end on it, has anyone already done it and is willing to share?

I also see that this posting is 2 years old. I'm interested to know if any improvements/fixes have been made in the last 2 years.

thanks,
Scott

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 17-Dec-2007 15:08



David Pechacek

Richard even your version cannot parse a filter that tries to see if an attribute is equal to, greater than, less than, etc. a value that has brackets in it.

Posts: 674

Joined: 5-Dec-2006

David Pechacek

[AAI Services Textron](#)

dpechacek@sc-aaicorp.com

David.Pechacek@gmail.com

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 14-Jan-2008 15:39



Richard Good

David,

Please send me the filter that you used to break the tool. The users I support have some fearsomely complicated filters with internal brackets etc all of which parse successfully. It's possible that I have missed some escape character or combination of escape chars that breaks the tool or that other people write filters in a different way to the users here. However, I don't propose to revisit this without an example that breaks it. I concede that almost all my filters are based on combinations of strings and enumerates and don't usually throw integers with greater than or less than and brackets in their names into the mix.

Regards,

Richard Good

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