



CHAPTER 5

Parsing Operators/Rules

These topics describe the predefined text manipulation operators available for parsing raw device input and turning each into a soft property that is available in the Add/Edit Parsing Rule dialog box. The chapter includes the name, description, expected input, validation rules, and any unique fields displayed in the dialog box for each operator and provides an example, as well.

Topics include:

- [Header and Footer, page 5-1](#)
- [Remove Lines, page 5-3](#)
- [Select Lines, page 5-4](#)
- [Replace, page 5-5](#)
- [Match, page 5-6](#)
- [Set, page 5-7](#)
- [Substring, page 5-8](#)
- [Parse Integer, page 5-9](#)

For more information about the Add/Edit Parsing Rule dialog box, see [Defining the Soft Property Parsing Parameters, page 3-9](#).

Header and Footer

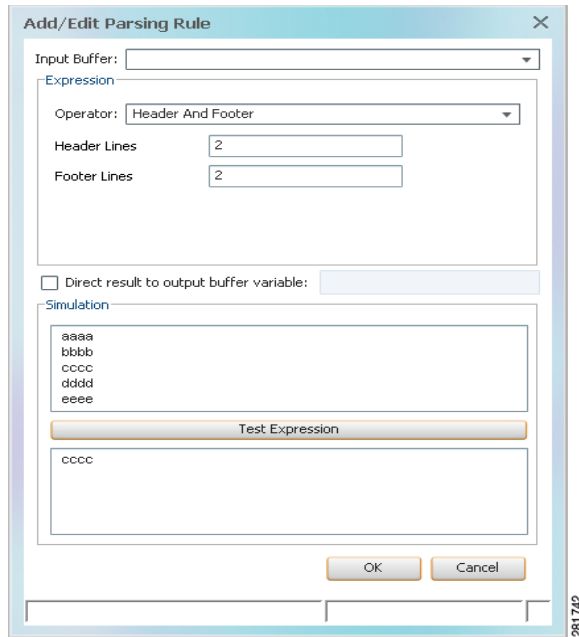
Description

Removes a specified number of lines from the header and footer of the input text.

Dialog Box

[Figure 5-1](#) shows the Add/Edit Parsing Rule dialog box that is displayed when the Header And Footer operator is selected. In addition, the dialog box displays an example using the Header And Footer operator.

Figure 5-1 Header and Footer Operator



Parameters

Parameter	Description	Validation Rule
Header lines	The number of header lines to be removed.	Integers only. Mandatory.
Footer lines	The number of footer lines to be removed.	Integers only. Mandatory.

Remove Lines

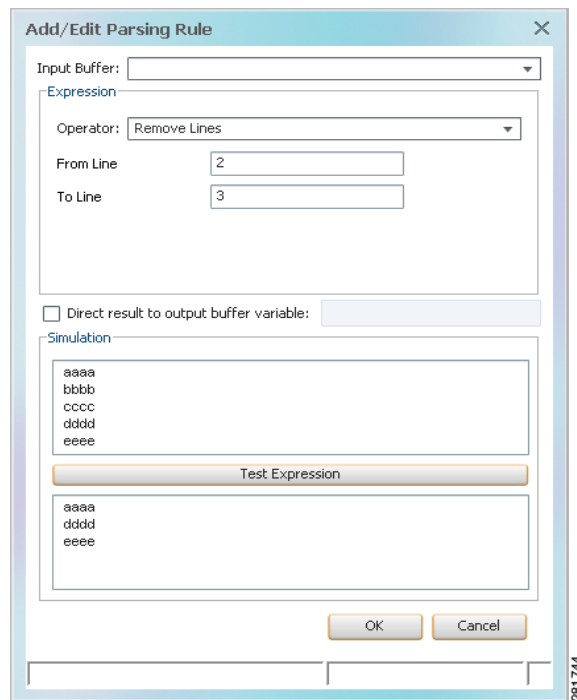
Description

Removes a range of lines from the specified starting row to the specified end row of the input text.

Dialog Box

Figure 5-2 shows the Add/Edit Parsing Rule dialog box that is displayed when the Remove Lines operator is selected. In addition, the dialog box displays an example using the Remove Lines operator.

Figure 5-2 Remove Lines Operator



Parameters

Parameter	Description	Validation Rule
From line	Index of first row to begin removal, inclusive.	Integer only. Mandatory.
To line	Index of last row to be removed, inclusive.	Integer only. Equal to or greater than From line. Mandatory.

Select Lines

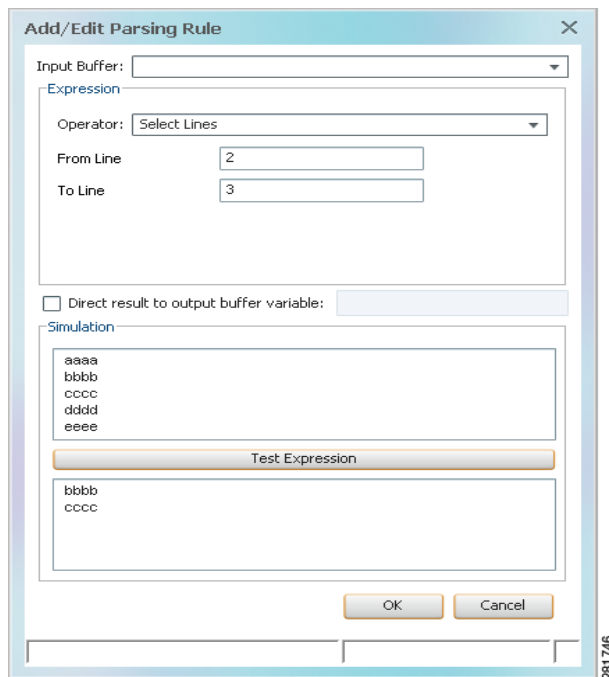
Description

Extracts a range of lines from the specified starting row to the specified end row of the input text.

Dialog Box

Figure 5-3 shows the Add/Edit Parsing Rule dialog box that is displayed when the Select Lines operator is selected. In addition, the dialog box displays an example using the Select Lines operator.

Figure 5-3 Select Lines Operator



Parameters

Parameter	Description	Validation Rule
From line	Index of first row to begin selection, inclusive.	Integer only. Mandatory.
To line	Index of last row to be selected, inclusive.	Integer only. Equal to or greater than From line. Mandatory.

Replace

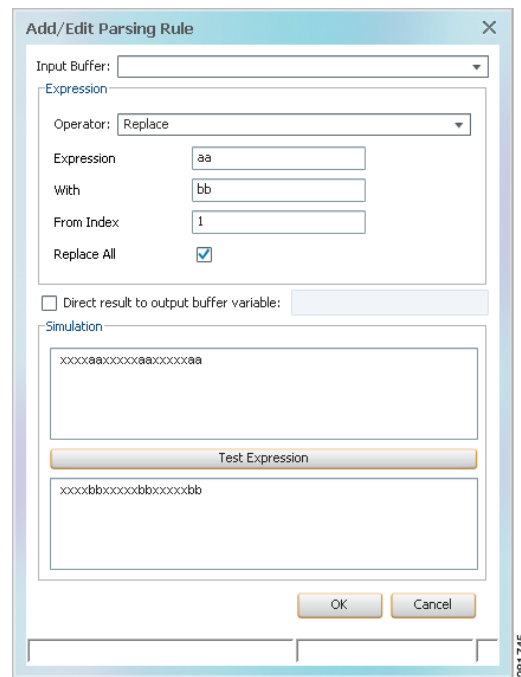
Description

Finds one substring or all occurrences of a substring that matches a specified regular expression, and replaces it with a specified value.

Dialog Box

Figure 5-4 shows the Add/Edit Parsing Rule dialog box that is displayed when the Replace operator is selected. In addition, the dialog box displays an example using the Replace operator.

Figure 5-4 Replace Operator



Parameters

Parameter	Description	Validation Rule
Expression	Search for value or regular expression.	Text. Mandatory.
With	Replace string with value or regular expression.	Text. Mandatory.
From Index	Starting index.	Integer. Mandatory. Note The value entered in this field must be 1 or higher.
Replace All	Check box. Select this option to replace all occurrences of the matching substrings, otherwise only the first instance is replaced.	Default is unchecked.

Match

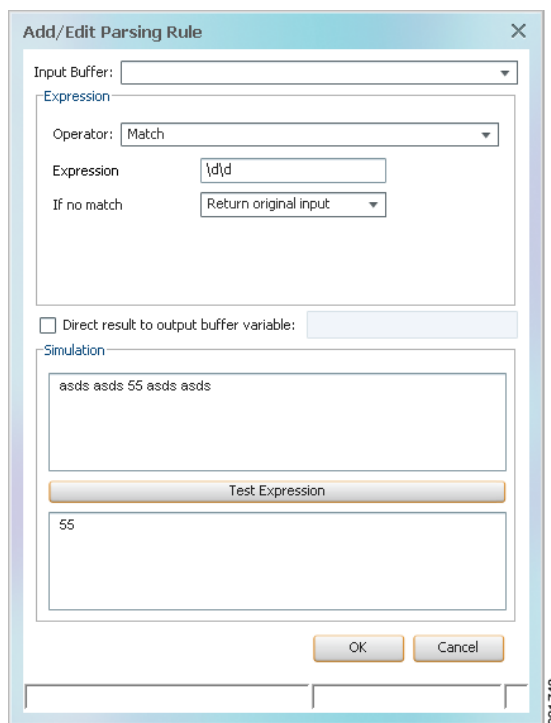
Description

Finds and extracts a substring that matches a specified regular expression. If no match can be found, the output buffer receives an empty string or receives the original input, based on what you choose in the If no match drop down list.

Dialog Box

Figure 5-5 shows the Add/Edit Parsing Rule dialog box that is displayed when the Match operator is selected. In addition, the dialog box displays an example using the Match operator.

Figure 5-5 Match Operator



Parameters

Parameter	Description	Validation Rule
Expression	Search for value or regular expression.	Text. Mandatory.
If no match	Returns the original input or an empty string, based on your choice.	

Set

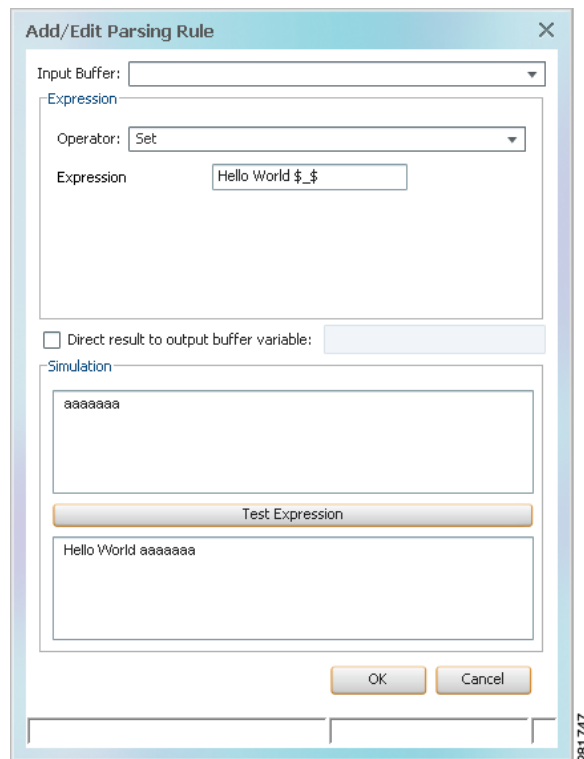
Description

Prints the results of the input and output buffers.

Dialog Box

Figure 5-6 shows the Add/Edit Parsing Rule dialog box that is displayed when the Set operator is selected. In addition, the dialog box displays an example using the Set operator.

Figure 5-6 Set Operator



Parameters

Parameter	Description	Validation Rule
Expression	Regular expression template to use for formatting. \$_\$ specifies the main output buffer.	Text. Mandatory.

Substring

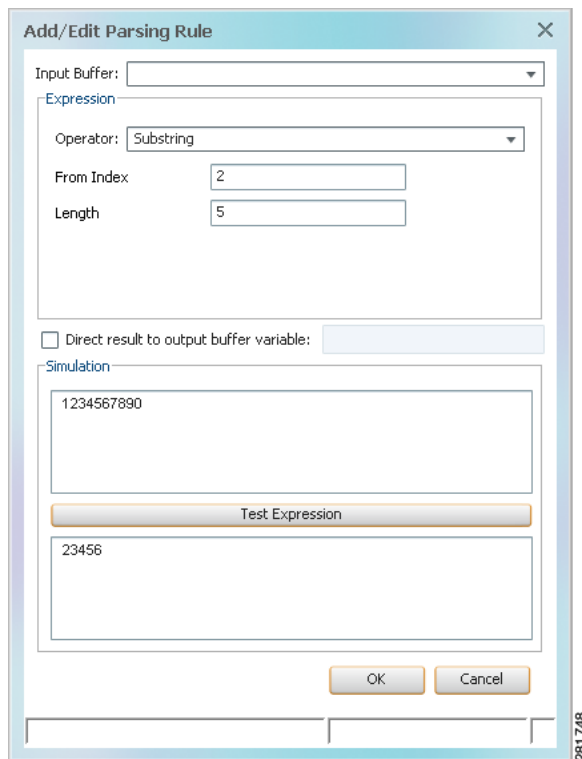
Description

Extracts a substring of a specified length from a specified starting point.

Dialog Box

Figure 5-7 shows the Add/Edit Parsing Rule dialog box that is displayed when the Substring operator is selected. In addition, the dialog box displays an example using the Substring operator.

Figure 5-7 Substring Operator



Parameters

Parameter	Description	Validation Rule
From Index	Begin index to select.	Integer. Mandatory. Note The value entered in this field must be 1 or higher.
Length	How many characters to select.	Integer. Mandatory.

Parse Integer

Description

Uses the substring rule, and when a result is received with the substring it is converted into an integer value.



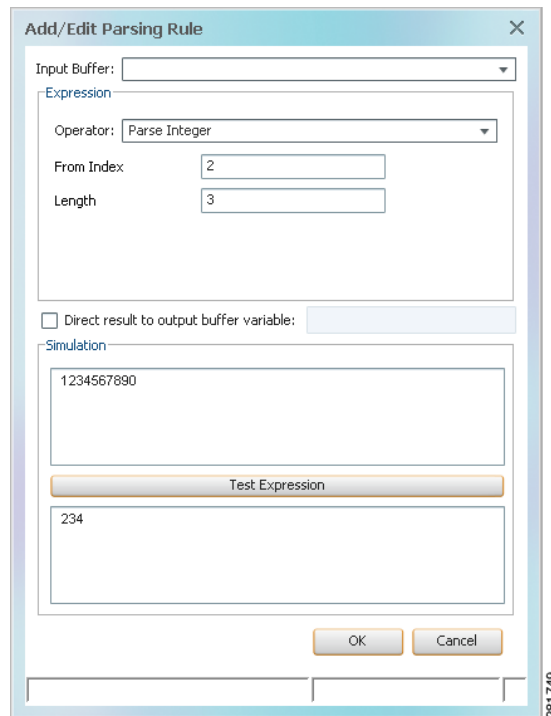
Note

If the substring operator contains any characters, the parsing integer operator fails.

Dialog Box

Figure 5-8 shows the Add/Edit Parsing Rule dialog box that is displayed when the Parse Integer operator is selected. In addition, the dialog box displays an example using the Parse Integer operator.

Figure 5-8 Parse Integer Operator



Parameters

Parameter	Description	Validation Rule
From Index	Starting index to select.	Integer. Mandatory. Note The value entered in this field must be 1 or higher.
To Index	Ending index to select.	Integer. Mandatory.

