

Metric Explicit

Overview

The **Metric Explicit** command creates a metric signal explicitly. This allows for the creation of a new signal without input or reference data, unlike other metric commands. Previous versions of Visual3D labeled this command Explicit_Metric.

Pipeline Command

The pipeline code for this command is as follows, it can be found in the **Pipeline Workshop** under **Metric**.

```
Metric_Explicit  
/RESULT_METRIC_NAME=  
! /RESULT_METRIC_FOLDER=  
/METRIC_VALUE=
```

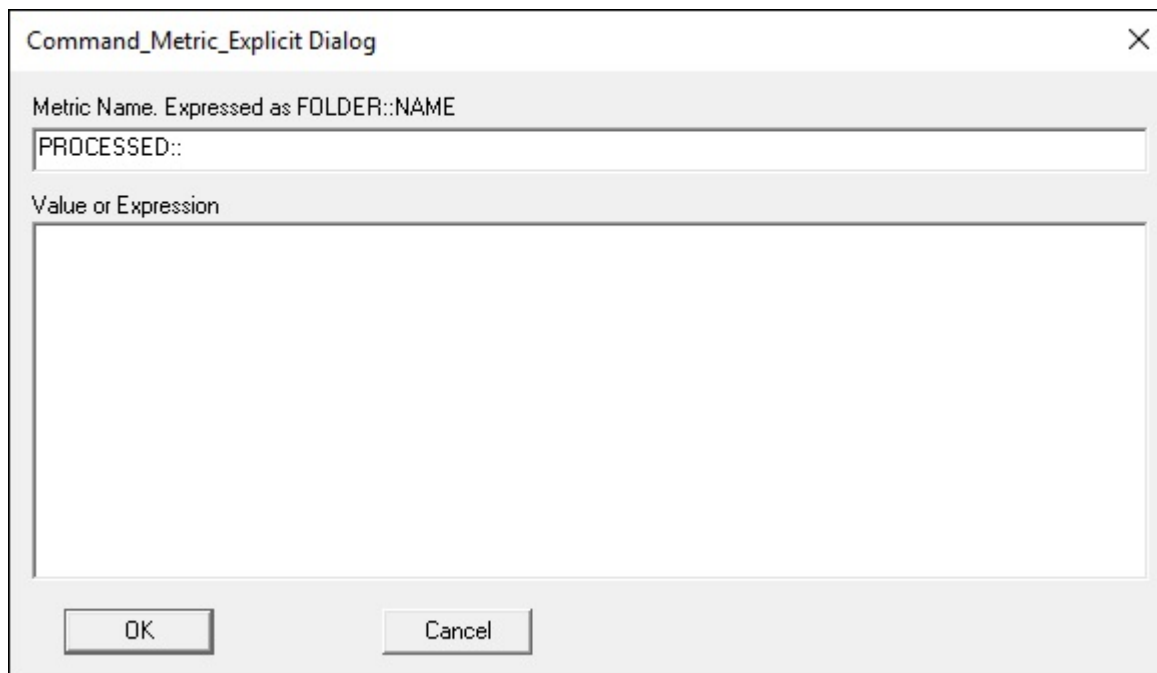
Command Parameters

The following table shows the command parameters seen above and their descriptions:

RESULT_METRIC_NAME	The name of the result signal
RESULT_METRIC_FOLDER	The name of the result signal folder
METRIC_VALUE	Value of signal components

Dialog

The command can be edited in a text editor or in a dialog form. To edit in the dialog pop up form either click on the **Edit** button in the pipeline workshop or double-click on the pipeline command. The dialog is shown below.

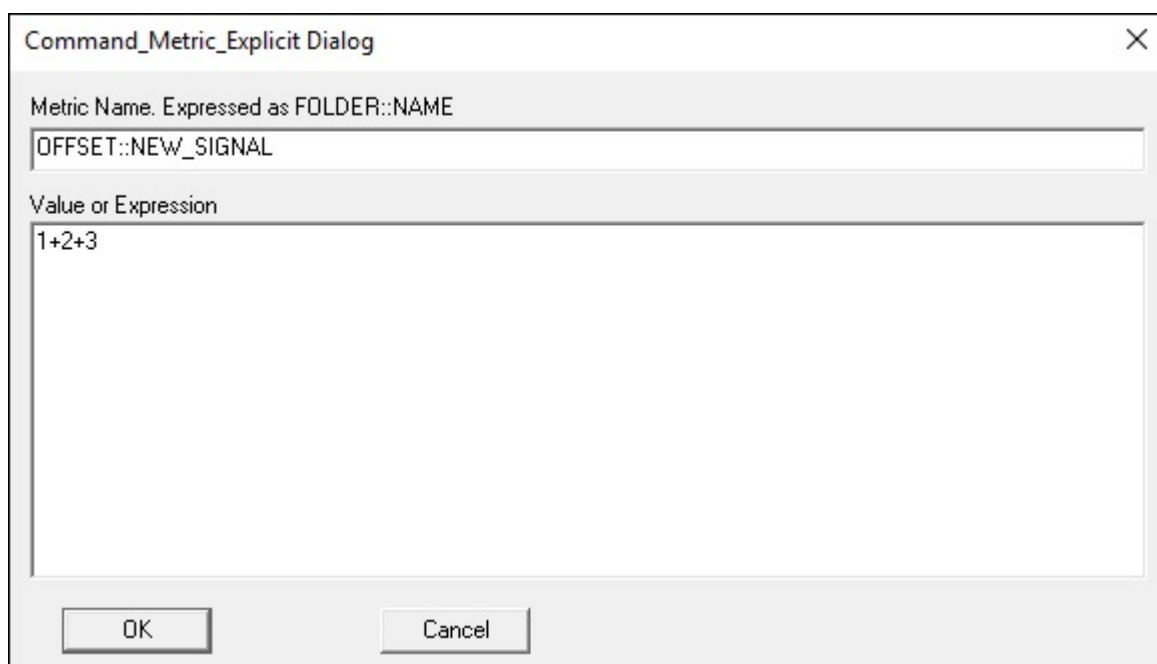


The dialog box allows you to assign values to the command parameters outlined above.

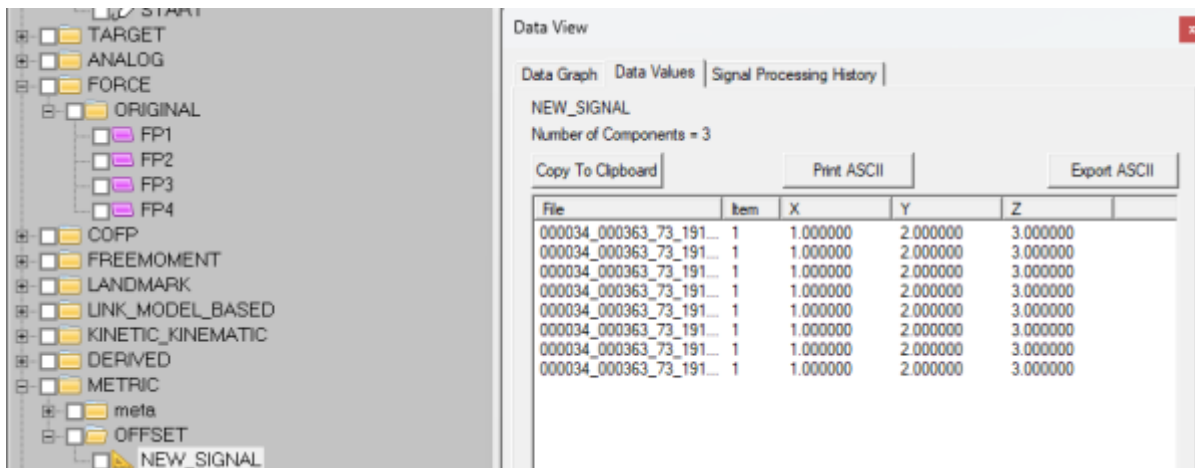
Example

This example will create a metric signal with 3 component values of 1, 2, 3. The resulting signal will be named **NEW_SIGNAL** and be located in the **OFFSET** folder.

```
Metric_Explicit
/RESULT_METRIC_NAME= NEW_SIGNAL
/RESULT_METRIC_FOLDER= OFFSET
/METRIC_VALUE= 1+2+3;
```



Result



File	Item	X	Y	Z
000034_000363_73_191...	1	1.000000	2.000000	3.000000
000034_000363_73_191...	1	1.000000	2.000000	3.000000
000034_000363_73_191...	1	1.000000	2.000000	3.000000
000034_000363_73_191...	1	1.000000	2.000000	3.000000
000034_000363_73_191...	1	1.000000	2.000000	3.000000
000034_000363_73_191...	1	1.000000	2.000000	3.000000
000034_000363_73_191...	1	1.000000	2.000000	3.000000
000034_000363_73_191...	1	1.000000	2.000000	3.000000

Expressions

In early implementations of this command the values in Metric_Value were a list of components you wanted the metric explicitly set to (see example above), and expressions were not allowed.

In version 6 Metric_Value can be an expression, but this may lead to some confusion.

For example,

```
Metric_Explicit
! /RESULT_METRIC_FOLDER=PROCESSED
/RESULT_METRIC_NAME=X
/METRIC_VALUE=1
;
```

```
Metric_Explicit
! /RESULT_METRIC_FOLDER=PROCESSED
/RESULT_METRIC_NAME=TEST
/METRIC_VALUE=METRIC::PROCESSED::X+1
;
```

The processing results for the second command are:

```
Metric Name : METRIC::PROCESSED::TEST
Metric Expression : VECTOR(METRIC::PROCESSED::X,1)
Metric Value : 1.000000 ;
```

The second command be re-written as follows:

```
Metric_Explicit\\
! /RESULT_METRIC_FOLDER=PROCESSED\\
/RESULT_METRIC_NAME=TEST\\
/METRIC_VALUE=
[[Visual3D:Documentation:Pipeline:Expressions:Expressions_Overview#Pipeline_
```

```
parameters_using_.2B_as_delimiter|Add]] (METRIC::PROCESSED::X,1)\  
;\
```

The processing results for the third command are:

Metric Name : METRIC::PROCESSED::TEST

Metric Expression : Add(METRIC::PROCESSED::X,1)

Metric Value : 2.000000 ;

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