

Post Configurator

Session 06 – Inspect Tool



Inspect Tool Overview

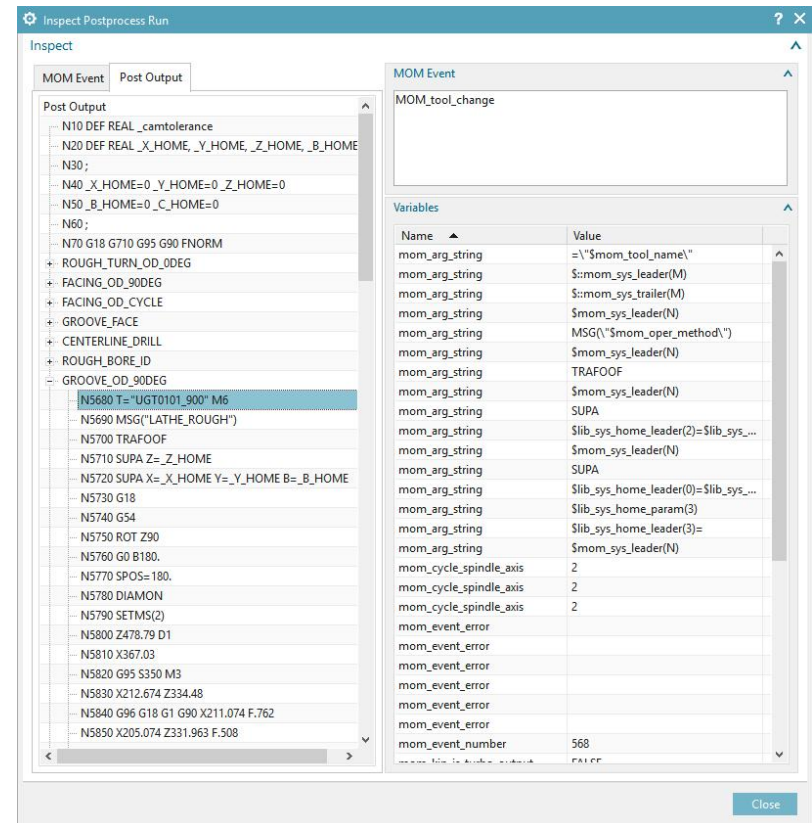


Capabilities

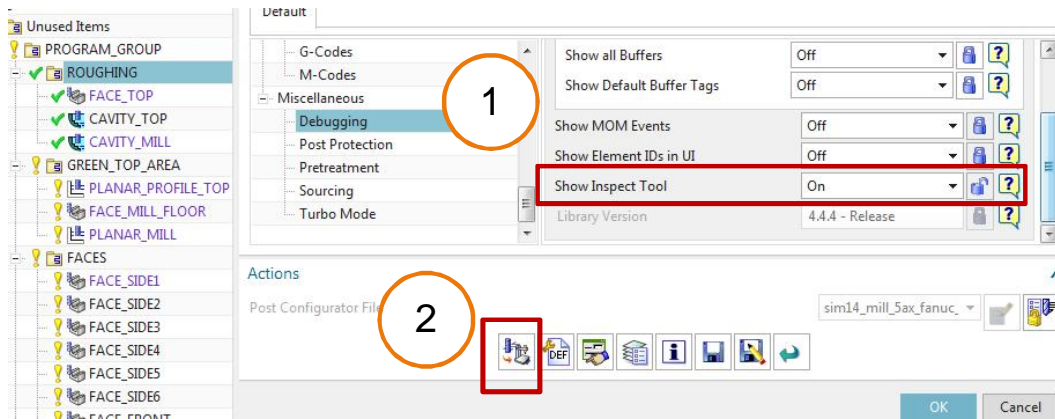
- Integrated debugging and inspect tool to understand the post processing run
- Listing of all relevant information, such as MOM events and variables and corresponding NC line
- Very fast loading times compared to old review tool

Customer Benefits

- Easy way to inspect and understand the data used by the post processor
- Make modifications on the post processor faster



Working with the Inspect Tool – NC Output View

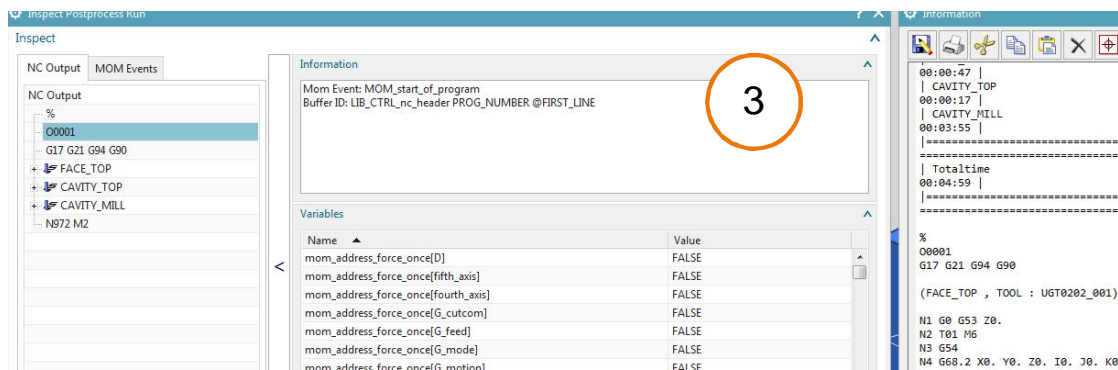


1. Activate Inspect Tool and select operation
2. Press Postprocess button
3. Inspect Tool is now visible. NC output will be done normally in the listing window.

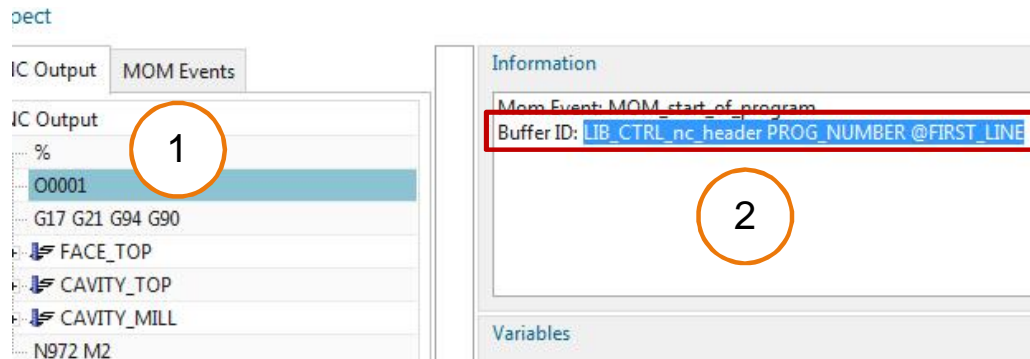
Additional background:

List contains all NC code items

Selecting an item will bring more information like mom-variables from the event and information about the buffer



Working with the Inspect Tool – NC Output View



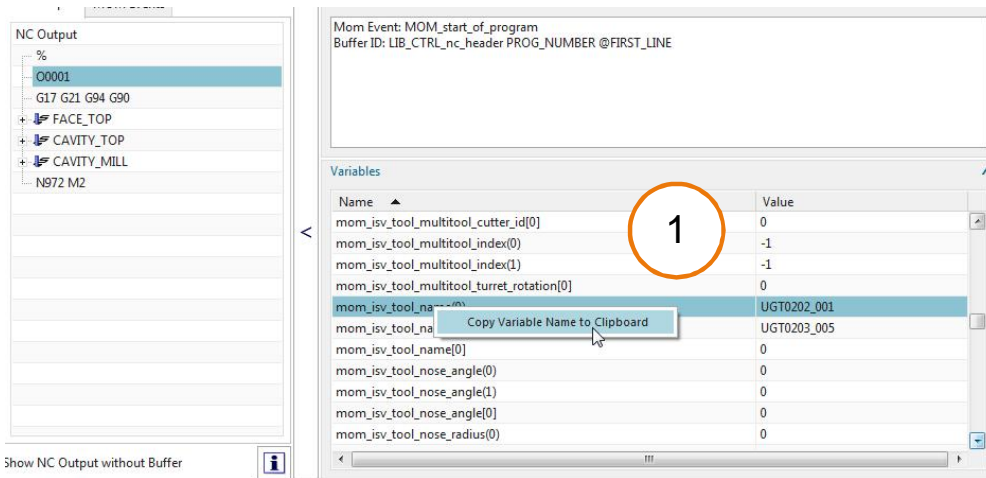
1. Select a NC line
2. Copy the Buffer ID to extend the output
3. Open the service file and add a Buffer command for append
4. Create a new procedure and append this to the existing buffer

```
LIB_GE_command_buffer_edit_append LIB_CTRL_nc_header PROG_NUMBER CustomToolList _myToolList

#-----
proc CustomToolList {} {
#-----
}


```

Working with the Inspect Tool – NC Output View



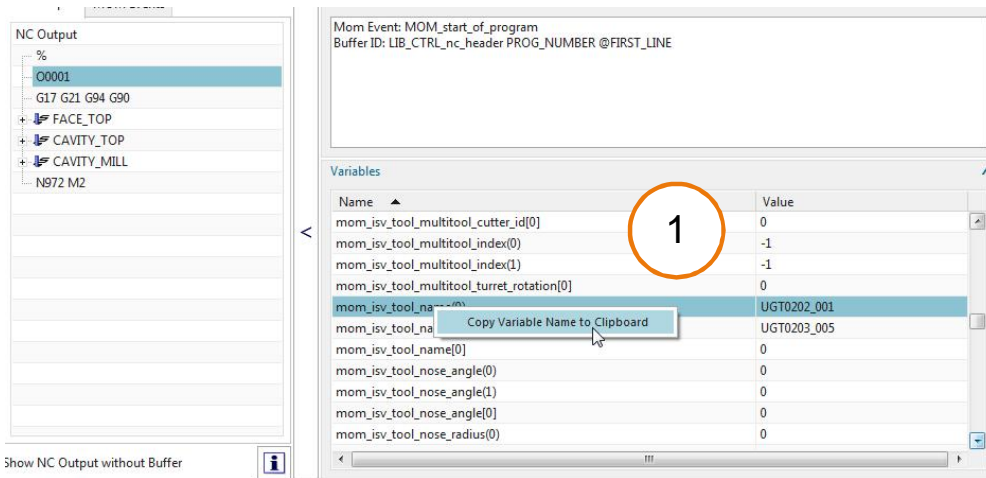
1. Search for the mom_isv_xx variables and copy the mom_isv_tool_name to Clipboard
2. Add the logic for output all used tools

LIB_GE_command_buffer_edit_append LIB_CTRL_nc_header PROG_NUMBER CustomToolList _myToolList

```

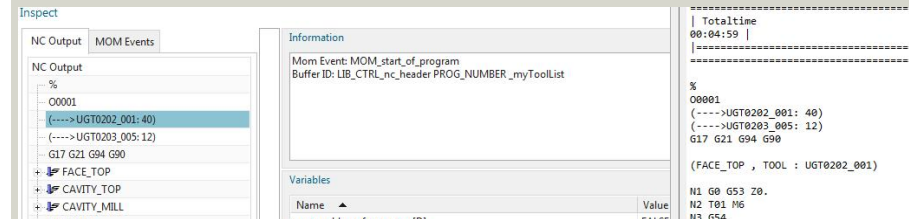
#-----
proc CustomToolList {} {
#-----
for {set i 0} {$i<::$mom_isv_tool_count} {incr i} {
    MOM_output_literal "(---->::$mom_isv_tool_name($i): $::mom_isv_tool_diameter($i)"
}
}
    
```


Working with the Inspect Tool – NC Output View



1. Search for the mom_isv_xx variables and copy the mom_isv_tool_name to Clipboard
2. Add the logic for output all used tools

Result:



LIB_GE_command_buffer_edit_append LIB_CTRL_nc_header PROG_NUMBER CustomToolList _myToolList

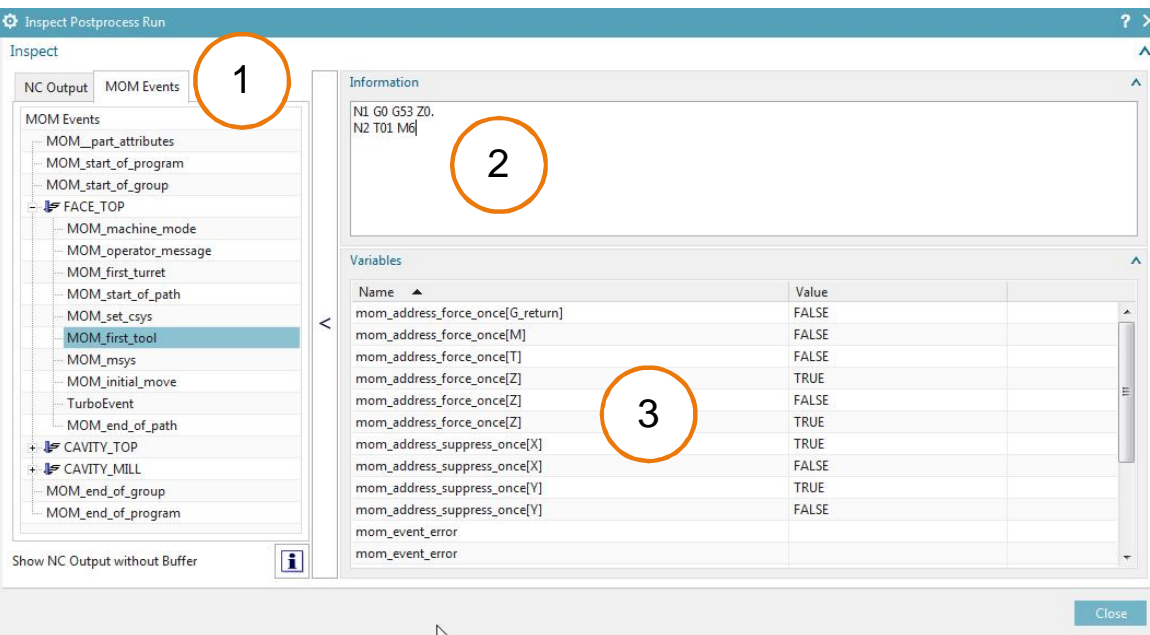
```

#-----
proc CustomToolList {} {
#-----
for {set i 0} {$i<::$mom_isv_tool_count} {incr i} {
    MOM_output_literal "(---->${::mom_isv_tool_name($i)}: ${::mom_isv_tool_diameter($i)}"
}
}
    
```



Working with the Inspect Tool – MOM Events View

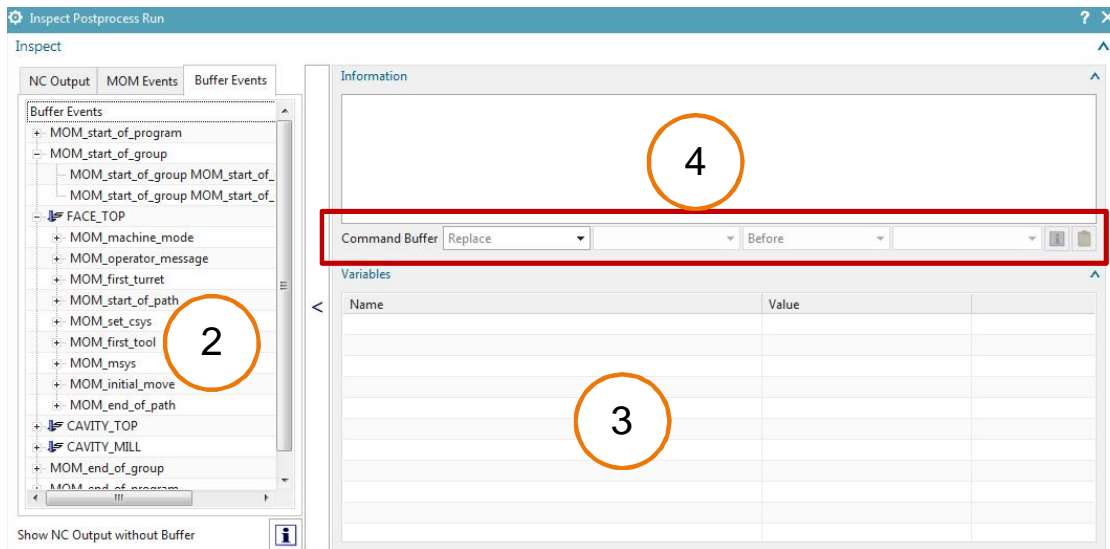
1. MOM events view is a visualization of the post structure
2. Selecting a MOM event will show the NC code which was generated in the Information
3. Similar to NC Output view all mom-variables will be shown which are used/available in the MOM event



Working with the Inspect Tool – Buffer View (ENV)

1

set UGII_CAM_POST_CONFIGURATOR_INSPECT_TOOL_PREVIEW=1



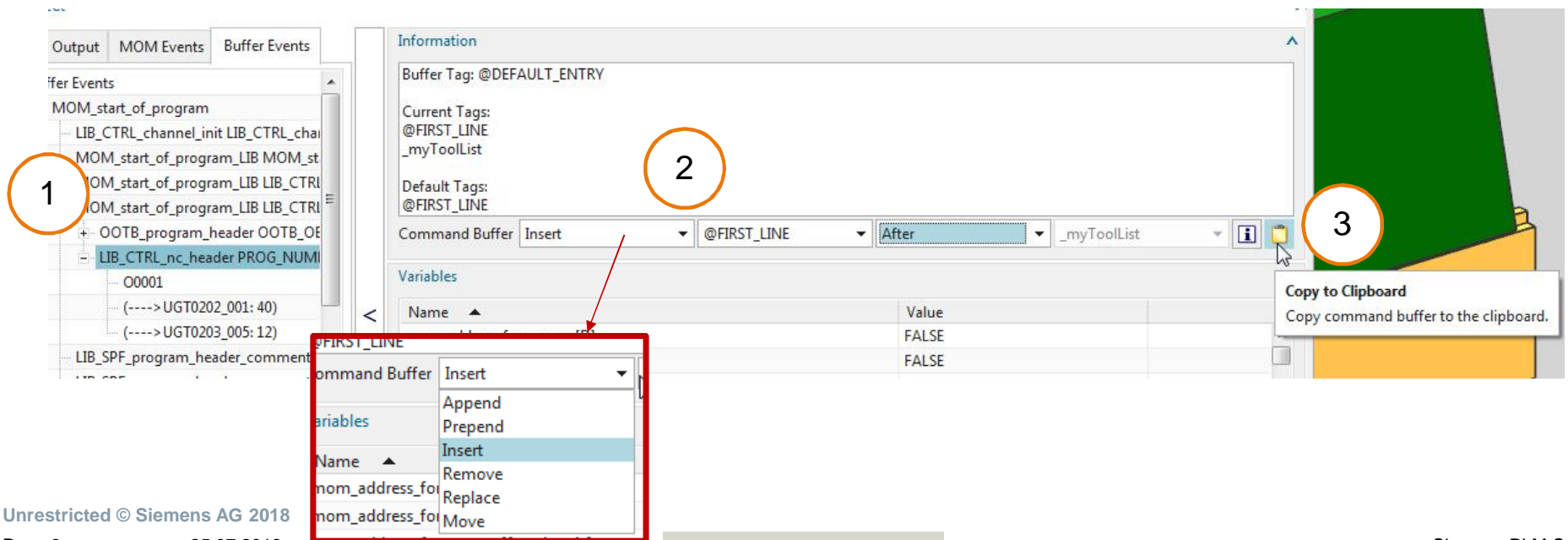
1. To use the new Buffer view use environment variable to activate
2. Buffer view contains all buffers which are called in MOM events
3. Similar to NC Output view all mom-variables will be shown which are used/available in the Buffer event
4. Snippet code functionality

Customer Benefits:

- **Modify easily buffers**
- **Visualization of commands in Post Configurator**

Working with the Inspect Tool – Buffer View (ENV)

1. Select a Buffer to add/ modify/ replace additional functionality
2. Select Buffer action, e.g. insert, point to position and select the Tag
3. Copy the created command to clipboard or show in listing window



Working with the Inspect Tool – Buffer View (ENV)

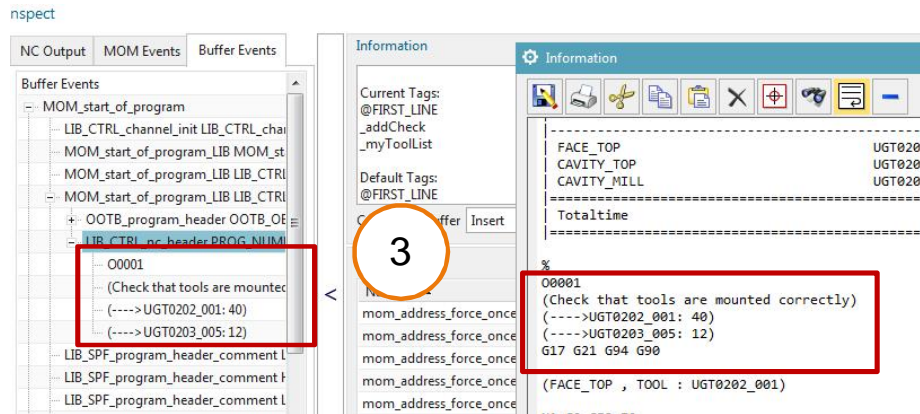
1

```
59
60 LIB_GE_command_buffer_edit_insert LIB_CTRL_nc_header PROG_NUMBER <code> <tag> after @FIRST_LINE
61
```

```
LIB_GE_command_buffer_edit_insert LIB_CTRL_nc_header PROG_NUMBER additional_output _addCheck after @FIRST_LINE
```

```
#-----
proc additional_output {
#-----
MOM_output_literal "(Check that tools are mounted correctly)"
}
```

2



1. Paste the command from Clipboard in the layer
2. Create procedure and call it, assign a unique Tag
3. Postprocess and get the changed output

Additional Background:

A Buffer can be changed in different layers. It's possible to change them dynamically, dependent of the use case.

Summary



Customer Benefits

- Easy way to inspect and understand the data used by the post processor
- Make modifications on the post processor faster
- Visualization of Postprocessor events
- Everything can change if necessary
- Output from Turbo Events will be shown



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