# Changes to Commands and Properties

## Command Changes

|  |  |
| --- | --- |
| **Command Name** | **Comment** |
| set\_ivc\_ovc\_mapping | New command to set the mapping between an input VC at a router port and an output port on the same router. |
| reset\_ivc\_ovc\_mapping | New command to reset the mapping between an input VC at a router port and an output port |
| list\_ivc\_ovc\_mapping | New command to to list the input VC to output VC mapping on a router. |
| set\_max\_outstanding\_counter\_limit | New command to update the max outstanding limit of a previously created max outstanding counter. |
| create\_max\_outstanding\_counter | New command to create a max outstanding counter that can be assigned to nsip interfaces. |
| del\_max\_outstanding\_counter | New command to delete a max outstanding counter. |
| list\_max\_outstanding\_counters | New command to list the max outstanding counters created. |
| assert\_group\_clocks | New command to check that the specified rtl group has no clocks other than the listed clocks |
| list\_curves | New command to list the points of a curve/probability mass function or show all curves/probability mass functions |
| set\_curve | New command to set the piecewise linear curve associated with a name. |
| reset\_map | New command to reset the mapping of traffic. |
| set\_transfer\_column | New command to specify the transfer columns between one or more source and destination interfaces |
| reset\_transfer\_columns | New command to reset the transfer columns between all source and destination interfaces. |
| list\_transfer\_columns | New command to list the transfer columns between one or more source and destination interfaces |
| enter\_tcl\_mode | New command to enable use of the TCL interpreter to process further input |
| exit\_tcl\_mode | New command to return to processing NCF input format from TCL mode |
| ml\_build | New command to build NoCs using machine learning |

## Default Property Changes

|  |  |  |
| --- | --- | --- |
| **Property Name** | **Default Value** | **Comment** |
| noc\_injection\_queue\_depth | 0 | This property has been replaced by niq\_depth |
| niq\_depth | 0 | This property is meant to replace noc\_injection\_queue\_depth |
| noc\_ejection\_queue\_depth | 0 | This property has been replaced by neq\_depth |
| neq\_depth | 0 | This property is meant to replace noc\_ejection\_queue\_depth |
| host\_processing\_queue\_depth | 32 | This property has been renamed to hpq\_depth |
| hpq\_depth | 32 | This property has replaced host\_processing\_queue\_depth |
| guaranteed\_sink | no | New property that forces the interface to sink every packet that it receives without any backpressue into the NoC |
| prefer\_shortest\_path\_routes | yes | New property to prefer shortest path routes with more turns over longer routes with fewer turns in route computation between 2 points |
| synchronizer\_depth | 2 | This property is used to set the default depth of clock synchronizers inserted by NocStudio |

## Mesh Property Changes

None

## Bridge Property Changes

None

## Host Property Changes

None

## Interface Property Changes

|  |  |
| --- | --- |
| **Property Name** | **Comment** |
| noc\_injection\_queue\_depth | This property has been replaced by niq\_depth |
| niq\_depth | This property is meant to replace noc\_injection\_queue\_depth |
| noc\_ejection\_queue\_depth | This property has been replaced by neq\_depth |
| neq\_depth | This property is meant to replace noc\_ejection\_queue\_depth |
| host\_processing\_queue\_depth | This property has been replaced by hpq\_depth |
| hpq\_depth | This property is meant to replace host\_processing\_queue\_depth |
| hpq\_latency\_curve | This property is used to automatically control host processing latency based on the specified curve |
| hpq\_latency | This property is used to automatically control host processing latency based on the specified constant value. |
| hpq\_rate\_curve | This property is used to automatically control host processing completion rate. |
| hpq\_rate | This property is used to automatically control host processing completion rate based on a specified constant value. |
| shared\_hpq | This property is used to control the host processing queue that requests arriving at this interface should go to. |
| guaranteed\_sink | This property forces the interface to sink every packet that it receives without any backpressue into the NoC |

## Link Property Changes

None

## Router Property Changes

None

## VC Property Changes

None