```
This is a DOS box like command window. Command names are split into Subject Areas and Operations
(e.g. 'Document.Open'). Commonly used Subject Areas are...
ActiveDocumentTracking
                          AnyCad
                                                         Application
                                                                         ArrangeCommand
                                    APIDebug
                                                APIUI
                                                                                           Asset
               AutomatedModeling
                                                                C3MFOpenOptions
                                                                                    CircuitBreaker
Associative
                                    AutoSave
                                                BrowserCache
Clocks
          CloudBrowser
                          CloudFileStore
                                            Commands
                                                        CompanionApp
                                                                         Component
                          Diagnostics
                                                                    Electron
DebugCommands
                 Decal
                                         Document
                                                     DocumentTab
                                                                                 Entity
EntityChange
                                                                             ExtensionsFlyout
                EntityTracking
                                  E0T
                                         ExportCompliance
                                                              Expressions
          FUSIONDOCSERVER
                             FusionMaterials
                                                FusionStaticFilesBanner
                                                                            FusionTranslator
Fusion
                       Geometry
GenericFileUploader
                                   GlobalCoordinateAxes
                                                           Graphics
                                                                        HealthCheckService
HotKev
          Instance
                      IPC
                             JavaScript
                                           Joints
                                                     LocalToWorld
                                                                     Managed
                                                                                 Manipulator
MaterialLightEdit
                     Materials
                                  Matrix
                                            MetaTypes
                                                         Metrics
                                                                    MSFCmnFeatTableWidgetCmd
MSFNestComponentSources
                           MSFNestComponentTableCmd
                                                       MSFNestNameConventionCmd
MSFWmdCompManagerCmd
                        MSFWmdComponentSources
                                                  MSketch
                                                             NamedView
                                                                          Network
                                                   Paths
OBJOpenOptions
                  Options
                             ParaMesh
                                         PAsset
                                                            PBodv
                                                                      PCB
                                                                             pcb3d
                                                                                      PComponent
                                                                              P0ccurrence
PEntity
           PFusionDocumentation
                                   PInstance
                                                PInterface
                                                              PlasticParts
Preferences
               PreviewablePanel
                                   PScene
                                             PSelections
                                                            PTransaction
                                                                             Pvthon
                                                                                       Refs
                                                                                  Smoke
Render
          SATOpenOptions
                            ScopedLocks
                                           Selections
                                                         SheetMetal
                                                                        Sketch
STLOpenOptions
                  StrongRef
                               Survey
                                         TextCommands
                                                         TextureMapping
                                                                            Toolkit
                                                                                       Translator
TranslatorOptions
                     UI
                           Units
                                    UnitSystems
                                                   Validation
                                                                 ViewCube
                                                                              ViewFragment
                                                                                              V0
Window
          WM
                WorldToLocal
There are 146 hidden (i.e. seldom used) Subject Areas - use ?? to include these Subject Areas in
this help information. Use '/?' to get help on a Subject Area or specific Command (e.g.
'Document /?' or 'Document.Open /?'). Use <TAB> to auto-complete a Subject Area or Command. Use
'TextCommands /?' to get a list of meta commands (e.g. TextCommands.List). You can pipe output to
a file using the normal convention.
TextCommands.List
ActiveDocumentTracking
  ActiveDocumentTracking.ShowFileLimitNotification - Show the file limit notification.
AnvCad
  AnyCad.choseVersion
                                                   - Choose Version AnyCAD
```

- [/ds] http request DS to download. [/oss ds]

- get the end point of AnyCAD service

AnyCad.downloadWay

APIDebug

AnyCad.getFusionAnyCADEndPoint

oss download by ds url. [/oss s3] oss download by s3 url

| APIDebug.addIn APIDebug.addIns APIDebug.downloadAddIn APIDebug.EventHandlers EventHandlers, optionally only for the specified APIDebug.InstallAddIn APIDebug.licenseDetails APIDebug.Objects APIDebug.RecordType for function level records | get add-in details get list of add-ins get add-in archive file path [<script id="" path="">] Get all the connected script. install add-in with input id get add-in licesne detail Get all the alive API objects. Pass 2 to process class level records and 3 </th></tr><tr><td>APIDebug.ReleaseEventHandlers</td><td>- <Script ID/Path> Release all the connected</td></tr><tr><td>EventHandlers for a script.</td><td></td></tr><tr><td>APIUI APIUI.DefaultCommandType</td><td> get or set the default command type </td></tr><tr><td>Application</td><td>- get of set the defautt command type</td></tr><tr><td>Application.ActiveEntitlementId</td><td> Provide the entitlement id of the currently </td></tr><tr><td>active/launched application</td><td>•</td></tr><tr><td>Application.AssignStudent</td><td> Add edu to the current user </td></tr><tr><td>Application.bit</td><td> CLIC license JWT bitmask testing </td></tr><tr><td>Application.Cache</td><td>Open cache folder</td></tr><tr><td>Application.CloseAfterStartup</td><td> Close application after starting up from </td></tr><tr><td>command line</td><td></td></tr><tr><td>Application.DeleteEntitlement</td><td> Delete specified entitlement </td></tr><tr><td>Application.EntitlementInformation</td><td> Provide a structure full of information </td></tr><tr><td>related to currently registered applications and</td><td>entitlements.</td></tr><tr><td>Application.ExeIdleTasks</td><td> During regression tests, after a unit test, </td></tr><tr><td>give the idle tasks have a chance to be executed</td><td></td></tr><tr><td>Application.GetEnv</td><td> Get process environment variable </td></tr><tr><td>Application.IsOfflineEntitled</td><td> Display state of offline entitlement. </td></tr><tr><td>Application.LastLicenseRequest</td><td> CLIC license request and response history </td></tr><tr><td>Application.lattr</td><td>Describe jwt lattr and lattr_mask</td></tr><tr><td>Application.LemonTest</td><td> Start up and shutdown test with server </td></tr><tr><td>regression test from command line</td><td></td></tr><tr><td>Application.LicenseBatchSize</td><td>- Override CLIC license batch size</td></tr><tr><td>Application LicenseInformation</td><td>- CLIC licensing information</td></tr><tr><td>Application.ListIdleTasks</td><td> Get current counts of idle tasks for test </td></tr></tbody></table></script> |
|---|--|
|---|--|

```
purpose
  Application.Log
                                                    - Open current applog using default
application
  Application.MouseLatency
                                                    - [<value>] Display/Control the artificial
mouse latency added to simulate networking
  Application.ObjectCount
                                                    - <FileName> Dump the in-memory object counts
of various classes
 Application.RefreshEntitlements
                                                    - Provide a text command to refresh
entitlements.
  Application.RegressionTest
                                                    - Regression test during startup.
                                                    - [/currentUserOnlv]
  Application.Report
  Application.RestoreWindowSize

    Restored Window size

  Application.SetEnv
                                                    - Set process environment variable
 Application.SetSoftwareVersion
                                                    - <VersionString> Set the software version to
the specified value, in the format Major, Minor, Build Number
  Application SetWindowSize

    Set Window size

  Application.SoftwareVersion
                                                    - Get current software version
  Application.SoftwareVersionInfo
                                                    - Get current software version information in
a JSON string
 Application.StartupTime
                                                    - Get startup time span of Neutron Application
 Application.TaskTiming
                                                    - [/on] [/off] [/deferred] [/clear] Returns or
controls task timing info for idle tasks (or, via a switch, for the deferred tasks)
  Application.Unsuppress
                                                    - Prevent application closing after running
text commands from command line
ArrangeCommand
  ArrangeCommand.ChangePreview
                                                    - Change the preview.
Usage: ArrangeCommand.ChangePreview <true/false>
Asset
                                                    - <asset name> [<document path>] Activates the
  Asset.Activate
passed asset in the passed or current document
  Asset Close

    Closes the active asset

                                                    - <AssetTypeId> [<DocumentPath>] [/Hidden]
  Asset.Create
Creates a new asset inside the given or active document
                                                    - <filename> Export the active asset as *.sat,
  Asset Export
*.step or other translator supported file types.
  Asset I ist
                                                    - List all names of asset in program
```

```
Asset.ListDirty
                                                   - Lists the dirty/smudge flags on the current
asset
 Asset Path
                                                   - Gets a path (<document path> <asset name>)
for the active asset
Associative
 Associative.ReImport
                                                   - <filepath> Specify the file path to be
imported.
AutomatedModeling
 AutomatedModeling.Host
                                                   - Get/Set host, valid host name examples:
http://localhost:3000 (or "local"), http://ecs-6026ceaa.ecs.ads.autodesk.com (or "ecs"). Use
"default" to restore default settings.
                                                   - [/Off|/Normal|/Debug] Enable/disable logging
 AutomatedModeling.Log
of AM related activity
 AutomatedModeling.Recipe
                                                   - [/Path] Execute a recipe from JSON file
                                                   - Write a scalaris folder to disk.
 AutomatedModeling.SaveScalarisData
 AutomatedModeling.SetServerCheckIntervals
                                                   - [/interval name interval value] Set
intervals values for AMJobController. You can provide more than one in single command.
 AutomatedModeling.SolverConfig

    Loads solver custom metadata from JSON

config file
 AutomatedModeling.ToggleFeature
                                                   - It toggles ON/OFF given Feature Types for
Generative Modelling. If used with no parameters displays available options. [/Features...]
 AutomatedModeling.ToggleSolver
                                                   - It toggles ON/OFF given solvers for
Generative Modelling. If used with no parameters displays available solvers. [/Solvers...]
 AutomatedModeling.WaitForSolvers
                                                   - Wait until either unfinished solvers are
done or timeout is reached
AutoSave
 AutoSave.ClearCrashRecoveryFiles
                                                   - Clear all crash recovery files
 AutoSave. FinishAutomation
                                                   - Clears the options flags required to record/
replay Autosave automations
 AutoSave.ForceCrashRecoveryBackup
                                                   - <SessionWideID> Force the backup of the
given document, or the last one, for crash recovery purposes
 AutoSave.GatherDiagnostics
                                                   - <directoy> Gather the crash recovery files
in input directory
 AutoSave.InitforAutomation
                                                   - Sets the options flags required to record/
replay Autosave automations
 AutoSave.NotifyAutoSavedFiles
                                                   - Notify backup files that can be recovered.
```

| AutoSave.Recovery AutoSave.RemoveCrashRecoveryFile file | Do recovery process of auto-saved files<filename> Remove a specific crash recovery</filename> |
|---|--|
| AutoSave.ShowCrashRecoveryDialog AutoSave.Status | Show Crash Recovery DialogDumps general status regarding auto-save |
| BrowserCache BrowserCache.GetActiveTeamHubInfo | Get hub information if active hub is team |
| hub | - Get hab information if active hab is team |
| CircuitBreaker | |
| CircuitBreaker.FailureCountSinceLastReset | Get the total failure count since last reset |
| for [/ServiceId] | |
| CircuitBreaker.ForceOpen | Increment error count for /ServiceId until |
| open . | |
| CircuitBreaker.IncrementErrorCount | <pre>- Increment error count for [/ServiceId] by [/</pre> |
| N] | |
| CircuitBreaker.IncrementSuccessCount | Increment success count for [/ServiceId] by |
| [/N] | |
| CircuitBreaker.State | <pre>- Get state of [/ServiceId]</pre> |
| CircuitBreaker.SuccessCountSinceLastReset | Get the total success count since last reset |
| for [/ServiceId] | |
| CircuitBreaker.TotalCallCount | - Get the total call count for [/ServiceId] |
| <pre>CircuitBreaker.TotalCallCountSinceLastReset for [/ServiceId]</pre> | Get the total call count since last reset |
| CircuitBreaker.TryHalfOpen | <pre>- Poll for serive availability for [/</pre> |
| ServiceId] | - FULL TOT SETTIVE AVAILABILITY TOT [/ |
| Clocks | |
| Clocks.Clear | Clears all the clocks |
| Clocks.Report | [/File] Reports all the clocks. Optionally |
| Specify a file path to dump the results | [, reconstruction and content operander) |
| Clocks.SimpleReport | [/File] Reports all the summaries. |
| Optionally Specify a file path to dump the results | |
| Clocks.State | [/on] [/off] Enable, disable or report on |
| the use of clocks | |
| CloudBrowser | |
| CloudBrowser.CreateLibrary | create a library |
| CloudBrowser.GetActiveHubType | Get the type of active hub, whether it's |
| | |

personal or team hub CloudBrowser.Release CloudBrowser.SwitchToAutomationTeamHub CloudBrowser.SwitchToNonAutomationHub CloudBrowser.Workflow CloudFileStore CloudFileStore.ClearFileCacheForTest in automation test CloudFileStore.RepairMissingContent Content - <seconds> Option background delay CloudFileStore.UploadStats queues and threads Commands Commands.ActivateTableCommandInputRow Commands.AngleManipulatorEvent Commands.BrowserNodeState Commands.CaptureOrRevertPosition CaptureRevertPosition. Commands.ChildItemSelect of an input Commands.ContextMenu Usage: Commands.ContextMenu <Keyevent> Commands.CreateCallout Commands.CreateNewRadiusPoint Commands.DragCallout Commands.DragTrail Commands.EditCallout Commands. EnableSelectionInput enabled Commands.environment groups Commands.ExistingDocumentName existing Commands. ExplodeManipulatorEvent Commands.healthStatusVisibility Commands.InjectionPointAddEvent

- Releases the version
- Switch to automation team hub
- Switch to non automation hub
- Execute cloud browser workflow
- Clear all files in the F folder. Only use it
- Attempt to repair designs with Missing
- [/v] Dumps current status of the Upload
- Activate row in the table
- Fire Angle manipulator event
- Returns the state of the Browser Node
- Record user option for
- Given a target label set the selection state
- Send out a context menu event.
- Create a callout from script.
- Create radius point from 3d point position
- Drag a callout from script.
- Drag a trail from script.
- Edit a callout from script.
- MakeSure the given selection input is
- [/All] List active environment and command
- Record document name for replay push to
- Fire explode 3d manipulator event
- Toggle visibility of health status command
- Add injection location event

| Commands.InjectionPointDragEvent Commands.InsertPointParam inserted point parameter as its value | Drag injection location eventGiven a target label set a double of |
|---|--|
| Commands.JointConflictContinueOrRevert Commands.KeyPressDown Usage: NuCommands.KeyPress <keycode> <isrepeat> <n< td=""><td>Record user option for JointConflict.Send out a key press event.</td></n<></isrepeat></keycode> | Record user option for JointConflict.Send out a key press event. |
| Commands.KeyReleaseUp | - Send out a key release event. |
| Usage: NuCommands.KeyRelease <keycode> <isrepeat></isrepeat></keycode> | |
| Commands.ListCtrlSelCmdInput | - Process selections list control events for |
| ListCtrlSelectionCmdInput | |
| Commands.LoftProfileDoubleClick | Process double click event for |
| LoftProfilePOPCommandInput | |
| Commands.logError | Log an error entry |
| Commands.logWarning | Log a warning entry |
| Commands.ManipulatorEvent | Fire transform 3d manipulator event |
| Commands.NewDerivedDocument | Record document id for replay id mapping |
| Commands.Pick | <pre>- <point3d> <brect> Select an object using a</brect></point3d></pre> |
| pick ray. | |
| Commands.PipeSectionInsertionPoint | Section insertion point from 3d point |
| position | |
| Commands.PlaneManipulatorEvent | - Fire transform plane manipulator event |
| Commands.PreSelection | Given a target label force a preselection |
| event through a SelectionCommandInput | Han Jalan Jalang man Anti-ca Cond J |
| Commands.Presets | <pre>- Use /clear /clearFromActiveCmd /</pre> |
| <pre>clearFromAllCmds to clear presets from specific, a Commands.PreUnSelection</pre> | |
| unhighlight event through a SelectionCommandInput | Given a target label force a preselection |
| Commands.ReplaceCanvasImgCmd | - Replace Canvas Image. |
| Commands. Select | - Select an object using ONK. |
| Commands.SelectAt | Select an object using selection state name |
| and input 2d point | Select an object asing selection state name |
| Commands.SelReorderCmdInput | Process mouse press event for |
| SelReorderCommandInput | Troccos mouse press event for |
| Commands.SetBool | Given a target label set a bool as its value |
| Commands.SetButtonValue | Given a target label set a bool as its value |
| Commands.SetCanvasPoints | Given a target label set points as its value |
| | · |

Commands.SetChainPickSelection Commands.SetCircularGridEntrySuppressed Commands.SetCurrentTime Commands.SetDeleteKeyInput Commands.SetDouble value Commands.SetDoubleValue value Commands.SetDoubleValues value Commands.SetDragPointInput as its value Commands.SetExplodeDirection Commands.SetFeatRuleSettingsEditData FeatRuleSettingsEditData as its value Commands.SetFileString Commands.SetFolderString value Commands SetGroup Commands.SetImageFileString value Commands.SetInferSelection pick poistion. Commands.SetInferSelection1 pick poistion. Commands.SetIntValue Commands.SetIntValues Commands.SetJointDOF value Commands.SetJointOriginDefinations its value Commands.SetParameterEditData as its value Commands.SetPatternOnPathOccurrencToggle as its value Commands.SetPoint3D

- Select an object using ONK.
- Set Circular Grid entry suppressed
- Set the current time of one sequence entry.
- Trigger change event on Delete Key Press
- Given a target label set a double as its
- Given a target label set a double as its
- Given a target label set a double as its
- Given a target label set a point drag apoint
- Set the Explode direction
- Given a target label for input, sets
- Given a file path set a string as its value
- Given a folder path set a string as its
- Set group status value
- Given an image file path set a string as its
- Give an Infere Selection using ONK and the
- Give an Infere Selection using ONK and the
- Given a target label set an int as its value
- Given a target label set an int as its value
- Given a target label set a JointDOF as its
- Given a target label set a joint origin as
- Given a target label set a ParameterEditData
- Given a target label set a occurrence toggle
- Given a target label set a point3d as its

| value Commands.SetPreciseSelections | Does change to selection in precise manner |
|--|--|
| Commands.SetRectGridEntrySuppressed | Set Rectangular Grid entry suppressed |
| Commands.SetRetopoPoints | Given a target label set points as its value |
| Commands.SetRotation | Given a target label set a rotation |
| transform as its value | orven a carger caser ser a rocacron |
| Commands.SetSelectedCells | - Select cells using id. |
| Commands.SetSelections | Given a target label set a transform as its |
| value | orven a target tabet set a transform as its |
| Commands.SetSheetMetalSettingsEditData | Given a target label for input, sets |
| SettingEditData as its value | - diven a target tabet for input, sets |
| Commands.SetSimThermalFluxValue | Civen a target label set a thormal flux as |
| its value | Given a target label set a thermal flux as |
| | Civen a target label set a joint emigin as |
| Commands.SetSnapPoint | Given a target label set a joint origin as |
| its value | 0/1 [0ml/] Class the standard(1)/ |
| Commands.SetStoryboardSelections | - 0/1 [Onk] Clear the storyboard(1)/ |
| sequence(0) selection set, Or create a selecton if | |
| Commands.SetString | Given a target label set a string as its |
| value | |
| Commands.SetTabIndex | Given a target label set an int as its value |
| (tab index) | |
| Commands.SetTextAreaString | Given a target label set a textAreaString as |
| its value | |
| Commands.SetTransform3D | Given a target label set a transform as its |
| value | |
| Commands.SetTranslation | Given a target label set a transform as its |
| value | |
| Commands.SetTSplineVertPoint | Given a target label set points as its value |
| Commands.SetVector2d | Given a target label set a vector3d as its |
| value | |
| Commands.SimSetUnitsOverride | Set a Simulation units override value in a |
| transcript | |
| Commands.Start | Start an available command |
| Commands.StartClippingPlaneXform | Parse the transcription string for the |
| Create Slice Plane start command | |
| Commands.TimeLineButton | Record TimeLine Button. |
| | |

| <pre>Commands.TimeLineGroup Commands.TreeCommandInput</pre> | Record TimeLine group expand/collapse.Process tree control events for |
|---|--|
| TreeCommandInput | - Frocess tree control events for |
| Commands.TrimPreSelection | Given a target faces force a preselection |
| event through a SurfTrimSelCommandInput | o_vo a va. gov va.co vo. co a p. cocces_o |
| Commands.updateTime | <pre>- [CommandId] [NeutronOnly] [/HideBlocked] [/</pre> |
| ShowState] [/All] [/OnlyCmdsInEnv [/Limit <num></num> | |
| 30usec). | |
| Commands.UserOptionForDeleteFeatures | Record user option for features delete. |
| CompanionApp | |
| CompanionApp.Open | <pre>- <filepath> [/</filepath></pre> |
| OpenForCompanionApp=CompanionAppName] [/option1=v | value] [/option2=value] Specify the file path |
| to open, these options are optional. | |
| Component | |
| Component.AnalyseHierarchy | Counts the number of unique Components, |
| Component Occurences , Joints and type of Joints | |
| Component.BodyMaterial | - get the selected body's visual material |
| Component.BodyVisibility | [/Off] [/On] Changes or reports on the |
| selected body's visibility Component.BoxNode | Create a box node at given position with |
| given size! | - create a box houe at given position with |
| Component.BReps | [/checksum] Gets information on the |
| component bodies, use root component or first sel | |
| Component.buildCompBrep | <pre>- Build the select document's</pre> |
| component brep data | , according to an a second account to |
| Component.ChangeCircleArcNode | Change most recently created circleArc node |
| to have given position, radius and angle! | , |
| Component.CircleArcNode | Create a circleArc node at given position |
| with given radius and angle! | |
| Component.ConeNode | Create a cone node at given position with |
| given direction and size! | |
| Component.Counts | - [/NoOverrides] Traverses the entire logical |
| structure using and not using the overrides | |
| Component.CreateBrowser | - [/L] [/R] Create a new Browser docked at |
| Left or Right | [/MultiTustaness] County and local and 12 |
| Component.CreateSimpleAssembly | [/MultiInstances] Create an simple assembly |

| to test entity tracking | |
|--|--|
| Component.DeleteInstance | Deletes the selected instance |
| Component.dumpCompBrep | Dump the select document's brep data |
| Component.EllipseArcNode | - Create a ellipse node at given position with |
| given major/minor radius and angle! | |
| Component.GetAllLatest | Get latest version of all the referenced |
| component - this defaults to the root component for | or the current asset |
| Component.ImageNode | Create a Image node at given position with |
| given image path! | |
| Component.Info | <pre>- [/No0verrides] [/Bodies] [/Instances] [/</pre> |
| PathsIn] [/PathsOut] [/Instancing] Shows useful in | nformation on the selected occurrence |
| Component.InspectReferences | Inspects the correctedness of the outgoing |
| references from the selected occurrence | |
| Component.InstanceDraw | Test for instance draw. |
| Component MaterialInfo | <pre>- [/VisualOnly] [/Both] [/ConsistencyCheck] [/</pre> |
| ListMaterials] Gets information on material usage | in the root component |
| Component.NurbsCurveNode | - Create a NurbsCurve node with given points! |
| Component OverrideMassProps | <pre>- [/</pre> |
| Clear] <value> Reports on, sets or clears mass pro</value> | operty overrides in the selected body or |
| component | |
| Component.PolyLineNode | – Create a PolyLine node with given points! |
| Component.RandomMaterials | [/VisualOnly] [/Both] Randomly sets the |
| physical and / or visual material in the bodies - | useful for testing |
| Component.Rename | Renames the selected or the root component |
| Component.SetPhysicalMaterial | Set PhysicalMaterial for selected body |
| Component.SetVisualMaterial | Set VisualMaterial for selected body |
| Component.SphereNode | - Create a Sphere node at given position with |
| given radius! | |
| Component.TimeGetComponentState | – /NoEarlyReturn /NoContext /CacheInstances |
| [count] Time how long it takes to find if there is | |
| Component.ToggleBrowser | - Toggle Browser display |
| Component.TorusNode | Create a torus node at given position with |
| given major/minor radius! | |
| Component.Visibility | [/Off] [/On] Changes or reports on the |
| selected component's visibility | |
| DebugCommands | |

DebugCommands.ActiveAsset DebugCommands.ActiveCommandInfo inputs DebugCommands.AlertDialog DebugCommands.availableCommands DebugCommands.BodyCacheUpdateMgr time between checks (0+ ms)] Background body mass property calculations DebugCommands.DownloadError DebugCommands.FrieFeaturePackNotification for test purpose DebugCommands.IgnoreAssert DebugCommands.InfoCount objects, used to find leaks DebugCommands.ListCommandDefinitions to a single command if an id is specified Lists all the transcripted command definitions DebugCommands.ListTranscriptedCommands all the transcripted command definitions DebugCommands.McMasterUseOtWebBrowser offl DebugCommands.MinorUpdate DebugCommands PopCommand the current command manager DebugCommands.PushTestCommand the current command manager DebugCommands.RunningCommandInfo managed by the Command Mgr DebugCommands.ShowAllAsserts DebugCommands.TestToolTip DebugCommands.ToggleFullScreen DebugCommands.UpdateComplete DebugCommands.UpdateNoaction DebugCommands.UpdateProgress DebugCommands.UserLanguages

- Get the active asset of the current session - Shows info on the ActiveCommand and its - Display Sample Error Diloag - Report available commands - [/On]/Off/PIM]/Clear] [max threads (0+) [min - Shows update download error for test purpose - <packId>Fire out a FeaturePack notifaction - Whether ignore assert for fusion - Returns the number of existing Nu::Info - [/CountOnly] [/Summary] [/ExtendedOnly] [/ AsXML] [Id] Lists all the command definitions or just gives a count; the list can be restricted DebugCommands.ListTranscriptedCommandDefinitionClassName - [/PredefinedOnly] [/CloseAfterDone] - [/PredefinedOnly] [/CloseAfterDone] Lists - Use QtWebBrowser for McMaster viewer [/on]/ - Trigger minor update for test purpose - Pop a command off of the command stack of - Push a test command on the command stack of - Shows info on the Running Commands being - Stop ignoring any asserts in Fusion - Test Progressive ToolTip - Toggle fullscreen - Shows update complete for test purpose - Test for live update no acton event process

- Shows update progress for test purpose

- Print the user preferred languages in order

```
Decal
  Decal.displayFaceUV
                                                   - Display the UV data for each face used by
decal
  Decal.fillDecalUV
                                                   - Fill the decal uv onto body face node
Diagnostics
  Diagnostics.Assert
                                                   - Shows an assert for testing purpose
  Diagnostics.BreakOnError
                                                    - [On|Off] Switch break on error off or on or
report on status; affects StatusCode and Exception.
  Diagnostics.DownloadBracketsForMAS
                                                   - Show download Brackets dialog for MAS and
close the dialog by "close"
  Diagnostics.DownloadIDEDlg
                                                   - Show download IDE dialog: "Brackets" and
close all dialogs by "close"
  Diagnostics.DownloadNastranSolverDialog
                                                   - Show download Nastran Solver dialog close
all dialogs by "close"
                                                   - <url> Synchronously download the file
  Diagnostics.DownloadUrl
corresponding to the given url
                                                   - Gather user's diagnostics data to a zip file
  Diagnostics.GatherTool
  Diagnostics.ListNotifications

    List all the notifications

                                                   - <category> List all unit tests or list tests
  Diagnostics.ListTestByCat
by category.
  Diagnostics.ListTests
                                                   - [prefix] = gives a list of all tests,
optional restricted to the prefix
  Diagnostics.RecentOperations
                                                   - <Number> List recent n context operations.
  Diagnostics.RemoveAllNotifications

    Remove all the notifications

  Diagnostics.RunGraphicsTests
                                                   - [/R] [prefix or name] [Tolerance (pixel
count)] [Tolerance (pixel value)] Run (or Rebaseline) test cases.
  Diagnostics.RunTests
                                                   - This command has been deprecated. Please use
NTest.RunTests command instead or open NTest application.
                                                   - [/R] [prefix or name] Run (or Rebaseline)
  Diagnostics.RunTPFTests
test cases.
  Diagnostics.SendNotification
                                                   - <title> <subTitle> <informativeText>
<userData>
  Diagnostics.SimulateError
                                                   - <Function Name> <TriggerCount> [/d] [/
clearall] Simulates an error for a given function for testing purpose, or deletes the simulation
if /d is specified
Document
```

```
Document.Activate
                                                   - <path> Activates the document with the
passed path or filename
  Document.ActivateDocByKey

    Activate the document associated with

provided key
  Document.AssociateCurDocWithKey
                                                   - Associate current document's session wide id
with provided key
  Document.Close
                                                   - [sessionWideId] Closes the document with
sessionWideId or the active one
  Document.CloseAll
                                                   - Close current all opened documents in
program
  Document.CopyToDesktop
                                                   - [<filename>] Copy the active document to
desktop
  Document.Create
                                                   - <AssetTypeId> Creates a document with an
active asset of the passed type and activates a view on that asset
                                                   - <xmlFileName> Dump all meta type data schema
  Document.DumpAcitveDocSchema
of current active document to a specific xml file
  Document.DumpData
                                                   - [/v /r] Dump active Document/Asset
information out, especially when program gets crashed and dump those data to log file
  Document.DumpDocSchemaByFile
                                                   - <File> <xmlFileName> [/F] [/D] [/f3d] [/
sim360] [/cam360] Dump all meta type schema to a specific xml file from a specific file or
directory. <File> : a specific file name or foder name. <xmlFileName> : xml file name for saving
schema. F: first parameter is a file name for direct open. D: first parameter is a directory
and need to open related file in it. Default is for directory. f3d: open f3d file only. sim360:
open sim360 file only. cam360 : open cam360 file only. program will open all files in set folder
bv default
  Document.DumpOpenedDocsSchema
                                                   - <xmlFileName> Dump all meta type data schema
of current all opened document to a specific xml file
  Document.dumpSavableInfo
                                                   - Dump list of docs to be saved and unsavable
  Document.ExampleDoc
                                                   - <AssetTypeId> Creates a example document to
                                                                    and then make sure each unit
initialize graphics global environment before running unit test,
test has steady object counts before and after each regression test
  Document.newDesignFromLocal
                                                   - <filepath> Create a new design from a local
file
                                                   - Close current all opened documents in
  Document.NTestCloseAll
program
  Document.Open
                                                   - <filename> [/NoUI /NoGraphics /NoChangeMRU]
```

```
Opens a document and activates a view on its active asset
 Document.Path
                                                   - Gets the document path for the active
document
 Document.Refresh
                                                   - Reopens the latest version of the active
document
                                                   - [<DocumentPath>] Remove all links from the
 Document.RemoveLinks
given or active document
                                                   - <NewDocName> Changes the document's display
  Document.Rename
name
                                                   - [path] [sessionWideId] Saves a document
  Document.Save
matching sessionWideId or the latest one
                                                   - [<filename>] Saves the active document as a
  Document.SaveAs
new document
 Document.SaveThumbnail
                                                   - <saveFilePath> [<docFilePath>] Save active
document's thumbnail to a specific path or open a specific document and save its thumbnail to a
specific path.
 Document.SoftwareVersion
                                                   - Get the last saved software version.
 Document.UpdateRootComponentName
                                                   - [filename] Update the root component name of
an asset in opened document if needed, especially for recovered auto-saved document after rename
the document
 Document.upLoadThumbnailToCloud
                                                   - <filePath> Upload thumbnail of input file.
 Document ValidateDocumentData
                                                   - Validates data in all opened documents in
program
                                                   - Validates protein materials data in all
  Document.ValidateMaterialsData
opened documents in program
DocumentTab
 DocumentTab.ShowDropDown
                                                   - Shows/Hides the document tab dropdown
Electron
 Electron.addvariant
                                                   - Add new variant. Usage: addvariant
variantname. Use addvariant without parameters for more information.
  Electron.boardInfo
                                                   - Get current PCB2d's boardInfo. Usage:
Electron.boardInfo output path
                                                   - Create a new 3D package. Usage:
  Electron.Create3DPackage
Electron.Create3DPackage footprintXmlFilePath [optional]
 Electron.getCloudPath
 Electron.grid
                                                   - Edit grid settings. Usage: grid {on|off}
```

```
{dots|lines} multiplier size. Use grid without parameters for more information.
 Electron.importSchAndBrd

    Import sch and brd

                                                   - Edit layer settings. Usage: layer {number|
 Electron.layer
name|reservedAliasName} Use layer without parameters for more information.
 Electron.layerFilter addLayers
                                                   - Add layer(s) to layer filter. Usage:
addLayers layer1 ... layern. Use addLayers without parameters for more information.
 Electron.layerFilter iteratecomponents

    Iterate board components that have

primitives on the specified layer. Usage: layerFilter iteratecomponents layer
expectedexpectedcount. Use layerFilter iteratecomponents without parameters for more information.
 Electron.laverfilter iteratesignal

    Iterate board signal children and filter

them based on a layer. Usage: layerfilter iteratesignal name layer all expected. Use
layerfilter iteratesignal without parameters for more information.
 Electron.placecircle
                                                   - Place circle object. Usage: placecircle unit
x y radius width layer setall. Use placecircle without parameters for more information.
                                                   - Place text object. Usage: placetext string
 Electron.placetext
unit x y height layer font [fontfamily] setall. Use placetext without parameters for more
information.
                                                   - Query part variants. Usage:
 Electron.querypartvariants
querypartvariants.
  Electron quervvariant
                                                   - Query variant by name and get part list.
Usage: queryvariant variantname. Use queryvariant without parameters for more information.
                                                   - Query all schematic variants. Usage:
 Electron queryvariants
queryvariants.
 Electron removevariant
                                                   - Remove existing variant. Usage:
removevariant variantname. Use removevariant without parameters for more information.
                                                   - Run EAGLE commands in Electron. Usage:
 Electron run
Electron run command
 Electron.sch get deviceinfo

    Get selected device-set / device

information: library / name / value and check device / deviceSet properties. Usage:
sch get deviceinfo library deviceset technology [device] [checkdeviceset] [checkdevice]
[displayunit]. Use sch get deviceinfo without parameters for more information.
 Electron.sch iterate partinstances

    Iterate schematic document part instances

that are placed on specifc sheet. Usage: sch iterate partinstances sheetid partname [gatename]
[displayunit] [expectedinstancecount] [attrname] Use sch iterate partinstances without parameters
for more information.
 Electron.sch placeframe
                                                   - Place a frame instance in current schematic
```

document. Usage: sch placeframe fromx fromy tox toy [unit] [layer] [cols] [rows] [border]. Use sch_placeframe without parameters for more information. - Place a rectangle instance in current Electron.sch placerectangle schematic sheet. Usage: sch placerectangle fromx fromy tox toy [unit] [layer] [angle] [mirror]. Use sch placerectangle without parameters for more information. Electron.sch sheet changedescription - Change schematic sheet description. Usage: sch sheet changedescription sheetid newdescription [usechange]. Use sch_sheet_changedescription without parameters for more information. Electron.sch_sheet_placeinstance - Place part instance in schematic sheet. Usage: sch sheet placeinstance sheetid sourcepartname partname gatename unit x y [attrname1] [attrname2] [removeattr] [verify]. Use sch sheet placeinstance without parameters for more information. Electron.sch testaliasnamevalidator — Test Alias Name Validator implementation. Usage: sch testaliasnamevalidator name. Use sch testaliasnamevalidator without parameters for more information. Electron.sch testcoordinatevalidator Test Unit Coordinate Validator implementation. Usage: sch testcoordinatevalidator min max value [unit]. Use sch_testcoordinatevalidator without parameters for more information. Electron.sch_testintegervalidator - Test Integer Validator implementation. Usage: sch testintegervalidator min max value. Use sch_testintegervalidator without parameters for more information. Electron.sch testnamevalidator - Test Name Validator implementation. Usage: sch testnamevalidator name [type]. Use sch_testnamevalidator without parameters for more information. Electron.sch testrealnumbervalidator Test Real Number Validator implementation. Usage: sch testrealnumbervalidator min max value [decimals] [unit] [unitfactor]. Use sch testrealnumbervalidator without parameters for more information. Electron.sch testsizevalidator - Test Unit Size Validator implementation. Usage: sch_testsizevalidator validatortype unit value. Use sch_testsizevalidator without parameters for more information. Electron.showBom - In electronics design, show bom table. Usage: Electron.showBom [/show]/[/hide] Electron.version - Check libeagle version Entity Entity.Dump - <EntityId> Dump data of the Entity with the

given id

```
- <EntityId> <AssetName> <DocumentDisplayName>
  Entity.DumpReferencingEntities
Dump all referencing entities for the given entity id and asset/document name
EntityChange
 EntityChange.ThreadTracking
                                                   - [/on] [/off] Start/stop tracking which
threads dirty which Assets
EntityTracking
 EntityTracking.Construct
                                                   - [/Vertices] Construct TrackedEntities from
the face, edge selections. Vertex tracked entities are made optionally.
 EntityTracking.List
                                                   - <EndityId> Returns a selection path (e.g.
0:13:6:11+14+3) from a tracked entity. This can be used to make a selection
                                                   - <Path> Makes a tracked entity using the
  EntityTracking.Make
passed path. Returns the entity id of the tracked entity
                                                   - Get the reference key of the selected
 EntityTracking.ReferenceKey
obiect.
 EntityTracking.Resolve

    Resolve All TrackedEntities

 EntityTracking.ResolveKey
                                                   - Select the object of a Reference Kev.
 EntityTracking.Test
                                                   - Test some functions about entity tracking
E0T
 EOT.pretendModal
                                                   - Toggle to pretend there is a modal showing.
 EOT.resetDialogShouldBeShown

    Let TryToBuyCmdDef autoshow the dialog again

 EOT.resetDialogShown
                                                   - Toggle to Pretend the dialog has not been
shown yet
 EOT.showExpiredPersonalMsgBox

    Show Personal MessageBox

 EOT.showExpiringPersonalMsgBox
                                                   - Show Personal MessageBox
 EOT.showVerifiedStudentIncorrectEntitlement

    Show VerifiedStudentIncorrectEntitlement

notifications
ExportCompliance
 ExportCompliance.pretendModal
                                                   - Toggle to pretend there is a modal showing.
 ExportCompliance.resetDialogShown
                                                   - For Export Compliance dialog, clear the
setting for already shown dialog.
Expressions
                                                   - <Expression> [ExpectedUnits] [/UnitSystem]
  Expressions. Evaluate
[/Id] Evaluates the passed expression
                                                   - <Value> [ExpectedUnits] [/UnitSystem] [/Id]
  Expressions.Format
Formats the passed expression
 Expressions.Parse
                                                   - [/UnitOnly] [/ValueOnly] <Expression>
```

```
[ExpectedUnit] [DisplayUnit] Parses and evaluates the passed expression
  Expressions. Tokenize
                                                   - <Expression> Parses the passed expressions
into tokens - the first step on the parsing process
ExtensionsFlyout
 ExtensionsFlyout.Reset
                                                   - <PackId> <FeatureId> Resets dismissed dialog
                                                   - <CommandName> <PackId> [/modal] [/
 ExtensionsFlyout.Show
dismissable] Shows an Extension Flyout for <PackId> bound to <CommandName>.
Fusion
 Fusion.BatchRender

    Starts a local batch render.

                                                   - Break the link to a specific referenced
 Fusion.BreakLink
component.
                                                   - [/componentonly] [/includesubcomponents]
 Fusion.BreakLinkTvpe
Control if break link includes subcomponents.
 Fusion.CallstackDumpInASMAVFPEGAReport
                                                   - call stack dump in ASM AV/FPE GA report [/
onl [/off]
 Fusion.CancelUploads
                                                   - [/force] Cancels all the ongoing uploads
                                                   - [/on] [/off] turn on/off history stream
 Fusion.CheckHistorv
check. Select an component for special HS check.
 Fusion.CleanDanglingJointOrigins
                                                   - Clean all dangling implicit joint origins
                                                   - Removes invalid occurrences
 Fusion.cleanInvalidInstances
 Fusion.CleanJointOccurrences
                                                   - Removes references to joint occurrences from
non-root joint occurrence groups]
 Fusion.ClearHistoryStream
                                                   - Clear All ASM HS stream - model will not
work after the command
 Fusion.ComputeAll
                                                   - rebuild all the parametric features.
 Fusion.ComputeInMouseDrag
                                                   - [/on] [/off] Switches compute during in
push / pull mouse drag
 Fusion.ComputeInPreview
                                                   - [/on] [/off] Switches compute in preview for
push / pull
 Fusion.ComputeInThread
                                                   - [/on] [/off] Switches compute thread in
push / pull mouse drag
 Fusion.ComputeMinimum
                                                   - compute minimum of the parametric features.
 Fusion.ComputeTime
                                                   - [/f] get total compute time for both serial
and parallel. /f means force compute, which might be very slow.
 Fusion.ConnectionColors
                                                   - /on or /off
 Fusion.ConnectionSets
                                                   - Print connected occurrence sets, /ground to
```

```
include ground, /rigid for rigid sets
  Fusion.CreateAssembly
                                                    - [Instances = 8] [Depth = 2] Creates an
assembly of whatever instances to whatever depth.
  Fusion.DCProfile
                                                    - [/Detail] Show design capture profile.
  Fusion.DefaultDesignType
                                                    - Two options: /Direct, /Parametric. And
others are for showing prompt dialogs.
  Fusion.diffLastTwoSnapshots
                                                    - Compare last two PM data model snapshot
result
  Fusion.DisableFeature
                                                    - [/on] [/off] enable or disable a selected
parametric feature
  Fusion.DissolveDerivedComponent
                                                   - Dissolve a Derived Component or Working
Model Feature
  Fusion.DumpAssemblvStructure

    Show Assembly structure Info.

  Fusion.DumpCircularDependency
                                                   - [/r]Dump circular dependancy for the
Representative.[/g]Dump circular dependancy.
  Fusion.DumpDerivedPath
                                                    - Dump selected derived path and source path
  Fusion.DumpDeriveFilterPaths
                                                   - Dump filter paths (source and derived) for
all deriving features
  Fusion.DumpFeaturesByComputeTime
                                                    - dump feature compute time by sequence
                                                    - Show graph of file references on the active
  Fusion.DumpFileGraph
document or the input file URN
  Fusion.DumpGraph
                                                    - Show parametric top-down node graph.
                                                    - [/ByFeature] [/NoJoints] [/NoStates] Show
  Fusion.DumpOccurrences
parametric component occurrence data.
  Fusion.Eights
                                                   - /Unique /OldNames /MultiAsset /
MultiDocument /MultiBody [Depth = 2] [NumInstsPerLevel=8] [File] Creates an assembly of eight
instances to whatever depth, optionally using a special file, optionally without instancing, and
optionally creating components in multiple assets.
  Fusion. EnableAnimation
                                                    - [/on] [/off] turn on/off animation
environment
  Fusion. EnableComputeEarliestForProjectFace

    enable/disable compute earliest behavior for

sketch project face.
  Fusion. EnablePatternUpdate
                                                   Enable pattern update behavior [/off]
  Fusion.EnableSameIdDocInsert
                                                   - [/on] [/off] Switch on/off to insert same id
document
  Fusion. ExportComponent
                                                   - Save a selected component to new file.
```

| <pre>Fusion.FeatureAssociationInfo the selected feature</pre> | get the associated feature information of |
|---|--|
| Fusion.FixMesh | Fix Mesh performance issue. |
| Fusion.FixMeshFeature | - Fix Mesh Feature issue. |
| Fusion.FixTimelineGroup | - Fix Timeline Group issue. |
| Fusion.GraphContextDependencies | Graph context feature dependencies [/oos for |
| out-of-sync] with filter options [/features, /com | texts] |
| Fusion.GraphCrossAssetDependencies | Graph dependencies of selected parametric |
| features across asset [/features for features only | • |
| Fusion.ImportComponent | [/NoMove] [/NoFit] Import file into active |
| document. | |
| Fusion.InDevelopmentCode | It turns ON/OFF in development code |
| Fusion.JointAnimationDistance | Set joint animation distance (as fraction of |
| screen) | |
| Fusion.JointAnimationTime | - Set joint animation time (sec) |
| Fusion.LockFeature parametric feature for timeline slider. Slider wor | - [/on] [/off] Lock or unlock selected |
| Fusion.MinimumComputeTime | - [seconds] Set minimum compute time in |
| seconds | - [seconds] Set militimum compute time in |
| Fusion.MinimumSpeedUpRatio | Set the minimum speed—up ratio for turning |
| on parallel computing[>1] | Set the minimum speed up rutto for turning |
| Fusion.MissingXRefsCompute | Perform necessary Bottom Up Compute if some |
| XRef has gone missing, or has come back again | |
| Fusion.ModelingMemoryUsage | - [/PM] [/DM] Dump ASM memory usage for the |
| current session includes PM & DM hsitory stream | |
| Fusion.MoveWA | (X, Y, Z) Moves the selected work axis by |
| the specified delta. | |
| Fusion.MoveWP | (X, Y, Z) Moves the selected work point to |
| the specified location. | |
| Fusion.ParallelComputing | - [/on] [/off] Switches multi-threading for |
| compute pipeline | O |
| <pre>Fusion.ParallelComputingState off</pre> | Query current multi-threading state is on or |
| Fusion.printEntityMetaInfo | - <entityid> Print the entity meta info based</entityid> |
| on input entity id | - \Linettytu> Fithe the entity meta fino baseu |
| Fusion.PublishToGrabCAD | - [/nopopup] Publish active document to |
| T GOTOTIFF GD CTOTIFF GOT GD CAD | [/ Hopopup] Tubersh decrive document to |

GrabCAD Fusion.RebuildOccurrences - Rebuild invalid occurrences, /preview only, /commit failed compute Fusion.RebuildOverrides - Rebuild Overrides due to corrupt references to component instances in occurrence path Fusion.RemoveExtraOverrides - Remove extra same type, same occurrence overrides, keeping first /preview /transformOnly Fusion.ReplaceComponent - /enable=force enable, /ff=enable via feature flag (default), /cde=use CDE dialog, /gt=use gt dialog (default) - [Instances = 8] [Depth = 2] Creates an Fusion.SampleAssv assembly of eight instances to whatever depth. Fusion.saveActiveCmds save active commands Fusion.saveTextCmds save text commands Fusion.ScaleWA (percentage) scales the selected work axis by the specified percentage. Default is +10% Fusion.ScaleWP - (percentage) scales the selected work plane by the specified percentage. Default is +10% Fusion.SculptEnvInfoPOP - Two options: /On, /Off. And others are for showing prompt dialogs. Fusion.SetShellManagerWidget - Parse the transcription string for the Shell manager dialog widget Fusion.ShowAlert - Show an alert with input message Fusion.ShowLegalNotice - Show the legal notice for an application - change sketch curve color. Fusion.SketchCurveColor - change sketch curve highlight color. Fusion.SketchCurveHighlightColor Fusion.SkipLoadingParametricBrep - [/on] [/off] Skip loading parametric Brep data for all components Fusion.SnapshotParametricData - Snapshot parametric data into a text file Fusion Suppress - [/on] [/off] Suppress or unsuppress a selected parametric feature Fusion. Timeline - [/on] [/off] Show/Hide Timeline window Fusion.TrimFeatures - Trim all the Features after Timeline Slider Bar - Trim transaction include ASM HS stream Fusion.TrimHistoryStream - Tweak | Move : Tweak uses SMI TWEAK REBLEND, Fusion. Tweak Method Move uses SMI MOVE FACES

| <pre>Fusion.UnreserveFrontOfQueues Fusion.Update solves if needed [/force]</pre> | Unnreserve the Lineage from Front of QueuesUpdates invalidated joint geometry and |
|---|--|
| Fusion.XRefPlace | - [/on] [/off] Switch to XRef for Place |
| Command | |
| Fusion.XRefReadonly | - [/on] [/off] turn on/off readonly for XRef |
| FUSIONDOCSERVER | alasa duandua fila nith asunau aulu |
| FUSIONDOCSERVER.close FUSIONDOCSERVER.open | close drawing file with server only.open local drawing file with server only. |
| FusionMaterials | - open tocat drawing rite with server only. |
| FusionMaterials.AddDocMaterial | - Add doc material. |
| Usage: FusionMaterials.AddDocMaterial <matid></matid> | nad add material |
| FusionMaterials.AddLibMaterialToFav | Material added to favorite. |
| Usage: FusionMaterials.AddLibMaterialToFav <mater< td=""><td>ialId> <libid> <newassetid></newassetid></libid></td></mater<> | ialId> <libid> <newassetid></newassetid></libid> |
| FusionMaterials.AddMaterialToFav | Material added to favorite. |
| Usage: FusionMaterials.AddMaterialToFav <material< td=""><td></td></material<> | |
| FusionMaterials.ApplyDocAppearance | Appearance dropped on an entity. |
| Usage: Na.ApplyDocAppearance <materialid> browse</materialid> | |
| <pre>FusionMaterials.ApplyLibAppearance Usage: Na.ApplyLibAppearance <materialid> <brewse< pre=""></brewse<></materialid></pre> | <pre>- Appearance dropped on an entity. rDrop> <override></override></pre> |
| FusionMaterials.ApplyLibPhysicalMaterial | - Appearance dropped on an entity. |
| Usage: Na.ApplyMaterial <materialid></materialid> | Appearance aropped on an energy. |
| FusionMaterials.BeginEditMaterial | Begin material edit. |
| <pre>Usage: FusionMaterials.BeginEditMaterial <matid></matid></pre> | |
| FusionMaterials.DeleteMaterial | Delete doc material. |
| <pre>Usage: FusionMaterials.DeleteMaterial <matid></matid></pre> | |
| FusionMaterials.DeleteUnusedMaterial | Delete unused doc material. |
| Usage: FusionMaterials.DeleteUnusedMaterial <mati< td=""><td></td></mati<> | |
| <pre>FusionMaterials.DuplicateMaterial Usage: FusionMaterials.DuplicateMaterial <matid></matid></pre> | Duplicate material. |
| FusionMaterials.EndEditMaterial | - End material edit. |
| Usage: FusionMaterials.EndEditMaterial <matid></matid> | Life material care |
| FusionMaterials.PurgeMaterial | Unassign and purge doc material. |
| Usage: FusionMaterials.PurgeMaterial <matid></matid> | 3 1 3 |
| FusionMaterials.RemoveMaterialFromFav | Material added to favorite. |
| <pre>Usage: FusionMaterials.RemoveMaterialFromFav <materialid></materialid></pre> | |

```
FusionMaterials.ReplaceMaterial

    Replace material.

Usage: FusionMaterials.ReplaceMaterial <bSourceFromLib> <sourceId> <sinkId>
 FusionMaterials.TweakAbsorptionDist
                                                 - Tweak doc material absorption dist.
Usage: FusionMaterials.TweakAbsorptionDist <matId> <absorption dist>
  FusionMaterials.TweakColor
                                                 - Tweak color of current selections.
FusionMaterials.TweakDensity
                                                 - Tweak doc material density.
Usage: FusionMaterials.TweakDenstiy <matId> <density>
 FusionMaterials.TweakName

    Tweak doc material name.

Usage: FusionMaterials.TweakName <matId> <matName>
  FusionMaterials.TweakReflectance

    Tweak doc material reflectance.

Usage: FusionMaterials.TweakReflectance <matId> <reflectance>
                                                 - Tweak doc material refractive index.
  FusionMaterials.TweakRefractiveIdx
Usage: FusionMaterials.TweakRefractiveIdx <matId> <refractive index>
  FusionMaterials.TweakRotation

    Tweak doc material rotation.

Usage: FusionMaterials.TweakRotation <matId> <rotation>
 FusionMaterials.TweakRoughness

    Tweak doc material roughness.

Usage: FusionMaterials.TweakRoughness <matId> <roughness>
  FusionMaterials.TweakScale

    weak doc material scale.

Usage: FusionMaterials.TweakScale <matId> <scale>
 FusionMaterials.TweakTranslucencyDepth
                                                 - Tweak doc material translucency depth.
Usage: FusionMaterials.TweakTranslucencyDepth <matId> <translucency depth>
 FusionMaterials.ValidateMaterialPanelWidgetCount -
FusionMaterials.ValidateMaterialPanelWidgetCount <Count>
FusionStaticFilesBanner
 FusionStaticFilesBanner.AddBanner
                                                 - [/Key] [/Message] [/Workspace] [/Level
(error, success, warning, info)] [/Priority (0 - 1000)] Add a banner to banner queue
 FusionStaticFilesBanner.AddKeyToVec
                                                 - [/Key] Add the specified string to the list
of seen static files banner keys
 FusionStaticFilesBanner.ClearKeyVec
                                                 - Clear the list of static files banner keys
that have been shown for this user
                                                 - [/All] Close banner if any visible
  FusionStaticFilesBanner.CloseBanner
 FusionStaticFilesBanner.GetKevVec
                                                 - List static files banner keys that have been
shown for this user
 FusionStaticFilesBanner.LoadListFromDisk

    [/FilePath] Load static files banner list

from hard dirve (.json fomrat)
```

```
    Load static files banner from server

  FusionStaticFilesBanner.LoadListFromServer
FusionTranslator
  FusionTranslator.SaveSPDFile
                                                   - <path> Save a spd file
GenericFileUploader
 GenericFileUploader.UploadFileWithPath
                                                   - <FileName> <FilePath> <ProjectID> <Folder>
Upload file from input path to cloud in specified folder of a project
 GenericFileUploader.UploadFileWithVersionUrn
                                                   - <FileName> <FilePath> <ProjectID> <Folder>
Upload file from input path to cloud in specified folder of a project
Geometry
 Geometry.AddVector3ds
                                                   - <vector1 JSON> <vector2 JSON> vector add
result=(vector1 + vector2)
                                                   - <point JSON> <vector JSON> result=(point +
 Geometry.AddVector3dToPoint3d
vector)
 Geometry.AreLine3dsEqual
                                                   - <line1 as JSON> <line2 as JSON>
result=(line1 is co-linear to line2)
 Geometry.ArePlanesEqual
                                                   - <plane1 as JSON> <plane2 as JSON>
result=(plane1 is co-planar to plane2)
 Geometry.ArePoint3dEqual
                                                   - <point1 JSON> <point2 JSON> result=(point1
== point2)
 Geometry.AreVector3dEqual
                                                   - <vector1 JSON> <vector2 JSON>
result=(vector1 == vector2)
 Geometry.CrossProduct
                                                   - <vector1 JSON> <vector2 JSON> cross product
result=(vector1 x vector2)
 Geometry.DotProduct
                                                   - <vector1 JSON> <vector2 JSON> dot product
result=(vector1 . vector2)
 Geometry.Line3dCreate
                                                   - <Properties> Create a line3d from properties
startPoint+endPoint or startPoint+vector or x0,y0,z0,x1,y1,z1
 Geometry.Line3dProperties
                                                   - <Line3d> Returns the properties of a line3d
 Geometry.PlaneCreate
                                                   - <Properties> Create a plane from properties
{pointOnPlane, normal}, \{x0,y0,z0,x1,y1,z1\} or \{a,b,c,d\}
 Geometry.PlaneProperties
                                                   - <Plane> Returns the properties of a plane
 Geometry.SubtractPoint3dFromPoint3d
                                                   - <point1 JSON> <point2 JSON> result=(point1 -
point2)
 Geometry.SubtractVector3ds
                                                   - <vector1 JS0N> <vector2 JS0N> vector
subtract result=(vector1 - vector2)
 Geometry.Vector3dMultiply
                                                   - <Vector> <double> Multiply a vector by a
```

| scalar | |
|--|--|
| GlobalCoordinateAxes | |
| GlobalCoordinateAxes.Hide | hide global coordinate axes |
| GlobalCoordinateAxes.Show | show global coordinate axes |
| Graphics | • |
| Graphics.AddBorder | <pre>- {red green blue} <thickness> <priority> -</priority></thickness></pre> |
| Adds a border to the scene | |
| Graphics.AddCameraPostChange | <pre>- <entityref> <pythonfunction> calls the</pythonfunction></entityref></pre> |
| python function just after the camera is changed. | |
| that describes the change. | |
| Graphics.Camera | Get the camera of the asset |
| Graphics.ModelingOrientation | Set default modeling orientation |
| Graphics.OptionsCommand | Set the options for graphics tests. |
| Graphics.PixelCountTolerance | - [Tolerance (pixel count)] Set pixel count |
| tolerance for graphics tests. | |
| Graphics.PixelValueTolerance | - [Tolerance (pixel value)] Set pixel value |
| tolerance for graphics tests. | |
| Graphics.RemoveBorder | - {red green blue} - Removes the identified |
| border from the scene | |
| Graphics.RemoveCameraPostChange | <pre>- <entityref> <pythonfunction> stops calling</pythonfunction></entityref></pre> |
| the python function just before the entity is char | nged. |
| Graphics.Snapshot | <pre>- [/TransparentBackground][/</pre> |
| DisableAntiAliasing][/EncodedString]Set the camera | a properties and image size |
| HealthCheckService | |
| HealthCheckService.autoHealthCheckInterval | Set the auto health check interval |
| HealthCheckService.checkHealth | Check application health |
| HealthCheckService.schedule | Auto schedule application health check |
| service | |
| HealthCheckService.subscribe | Subscribe for health check service |
| HealthCheckService.unsubscribe | Unsubscribe for health check service |
| HotKey | |
| HotKey.Dialog | Hot Key Dialog [<command id=""/>] |
| HotKey.Export | Export Hot Key definitions |
| HotKey.Import | Import Hot Key definitions |
| HotKey.List | Get a list of the current hot key bindings |
| Instance | |

| Instance.AddTopEntity | Add TopEntity |
|--|---|
| Instance.Delete | Deletes the selected instance |
| Instance.Duplicate | Makes a new instance pointing to the same |
| target | , , |
| Instance.Edit | Activates the target asset and allows you to |
| edit the target component | , |
| Instance.GetTopEntity | Get TopEntity |
| Instance.Info | Shows information on the selected instance |
| Instance.Nudge | Moves the selected instance |
| IPC | |
| IPC.DispatchData | - <type><data>send the input data to the</data></type> |
| connected client.specify the connection type,1-tc | |
| IPC.GenerateConsumerKeySecret | <pre>- <phrase> generate the consumer key/secret</phrase></pre> |
| with input phrase | |
| IPC.LoadConsumerKey | - <key>load the consumer key in the running</key> |
| session | , |
| IPC.ShutdownTCPServer | shut down neutron tcp server |
| IPC.ShutdownWebServer | - shut down neutron web server |
| IPC.StartTCPServer | start neutron tcp server. listen on 5800 by |
| default or otherwise input port | · |
| IPC.StartWebServer | start neutron web server. listen on 7681 by |
| default or otherwise input port | · |
| JavaScript | |
| JavaScript.Disable | Makes the Text Command Window accept |
| TextCommands | · |
| JavaScript.Enable | Makes the Text Command Window accept |
| JavaScript | · |
| JavaScript.ListFunctions | - [Name:String Optional partial name of |
| <pre>module/function] [/Hidden] Returns JavaScript API</pre> | |
| single module | , , , |
| JavaScript.ListModules | - [Name:String Optional partial name of a |
| module] [/Hidden] Returns JavaScript API modules : | in Neutron |
| JavaScript.Log | <pre>- <varibles strings=""> print out varibles/</varibles></pre> |
| strings to the text command window output | - · |
| JavaScript.RunScript | - <filename:string> run the given JavaScript</filename:string> |
| file | |

```
Joints
  Joints.Color
                                                    - [/error | /base | /dof | /pitch | /yaw | /
roll] [red green blue] (/dof is default)
  Joints.PreserveValues
                                                    [/constrain] constrain and relax if no
contacts (/minimize used for contacts), [/minimize] change, [/off] always used for drag
                                                    - [/on] [/off] re-solve if relaxing joint
  Joints.ResolveIfRelaxFails
value constraints fails
                                                    - [/Group] uses VCS groups (constraints if
  Joints.RigidGroupMethod
dragging) [/Body] uses single body at origin] [/Joints] for rigid joints
  Joints.SmoothBallJointDrag
                                                    - [/on] [/off]
                                                    - [/on] [/off] solve joints in valid systems
  Joints.SolveValidSystems
                                                    - [/on] [/off] use analysis to relax joint
  Joints. Value Analysis
value constraints
LocalToWorld
  LocalToWorld.Line3d
                                                    - <Local to World Matrix JSON> <Local Line</p>
JSON> Converts line geometry from local to world space
  LocalToWorld.Plane
                                                    - <Local to World Matrix JSON> <Local plane</p>
JSON> Converts plane geometry from local to world space
                                                    - <Local to World Matrix JSON> <Local point</pre>
  LocalToWorld.Point3d
JSON> Converts point geometry from local to world space
  LocalToWorld.Vector3d
                                                    - <Local to World Matrix JSON> <Local vector</p>
JSON> Converts vector geometry from local to world space
Managed
  Managed.Child
                                                    - <Entity Ref> <index> Returns the specified
child of the entity ref
  Managed.Children
                                                    - <Entity Ref> Returns the number of children
of the entity ref
  Managed.CreateChild
                                                    - <Parent Entity Ref> <Child Properties>
Create a new child object based on dictionary properties (see get entity properties)
  Managed.CreateExtensibilityEntity
                                                    - Create an extensibility entity in current
active segment
  Managed.DeleteChild
                                                    - <Parent Entity Ref> <Child Entity Ref>
Deletes the specified child of the entity ref
                                                    - <Parent Entity Ref> <Child Candidate Entity
  Managed. Is Child Of
Ref> Is the second parameter a child of the first one
  Managed. Is Parent Object
                                                    - <Entity Ref> Returns true if the referenced
```

```
entity has children that can be operated upon
  Managed.Parent
                                                   - <Entity Ref>Returns the parent of the entity
ref
  Managed.RemoveExtensibilityEntity
                                                   - <Entity Ref>Remove given extensibility
entity
Manipulator
  Manipulator.SetSnappingDegree
                                                   - specify the snapping degree for angle
manipulator, i.e: 15
MaterialLightEdit
  MaterialLightEdit.AllowAdvEditingFor3DWoodMat
                                                   - Allow Advanced Editing for 3D Wood
Materials.
Usage: MaterialLightEdit.AllowAdvEditingFor3DWoodMat <AllowAdvEditing>
Materials
  Materials.DownloadAssetList
                                                   - M360 test
  Materials.DownloadMaterial
                                                   - M360 test
  Materials.DownloadMaterialThumbnail

    M360 test

  Materials.FindPhysical
                                                   - [/ById] [Name or Id] Finds and lists the
Physical material with the specified name or id
                                                   - [/ById] [Name or Id] Finds and lists the
  Materials.FindVisual
visual material with the specified name or id
  Materials.GetMaterialProperties
                                                   - <Material Dictionary> Returns the protein
properties of a physical or visual material - expensive for a visual material
                                                   - <Material Dictionary> Returns the end user
  Materials.GetUserName
name for a physical or visual material
  Materials.List
                                                   - Lists all the materials used within the
current document
  Materials.ListPhysical
                                                   - [/Raw] Lists all the Physical materials
using protein as the source, or within the current document
  Materials.ListReducedLibrary
                                                   - Lists all materials Internal ID and UUID in
reduced library
  Materials.ListVisual
                                                   - [/Raw] Lists all the visual materials using
protein as the source
                                                   - List the reduced material library path.
  Materials.MaterialLibraryPath
  Materials.OueryLibraryCategory
                                                   - M360 test
  Materials.OuervLibraryContent
                                                   - M360 test
  Materials.Select
                                                   - Find the users of the material and replace
```

```
the material
  Materials.ValidateMaterialUseCounts

    Validate the material use count

Matrix
                                                   - <matrix1 as JSON> <matrix2 as JSON>
  Matrix.AreMatricesEqual
result=(matrix1 == matrix2)
  Matrix. Identity
                                                   - Returns the identity matrix
  Matrix.Multiply
                                                   - <Left Matrix as JSON> <Right Matrix as JSON>
Multiplies the 2 matrices
  Matrix.PopBack
                                                    - <Local to World Matrix JSON> <Leaf Matrix to
Remove> Removes a transform from the leaf (i.e. part or local) end
                                                   - <Local to World Matrix JSON> <Root Matrix to
  Matrix.PopFront
Remove> Removes a transform from the root (i.e. assembly or world) end
                                                    - <Local to World Matrix JSON> <Leaf Matrix to
  Matrix.PushBack
Add> Adds an extra transform at the leaf (i.e. part or local) end
                                                   - <Local to World Matrix JSON> <Root Matrix to
  Matrix.PushFront
Add> Adds an extra transform at the root (i.e. assembly or world) end
                                                   - <RotationAngle> <RotationAxis>
  Matrix.SetToRotation
[<RotationPoint>] Sets a matrix to perform the specifed rotation
  Matrix.SetToTranslation
                                                   - <TranslationVector> Sets a matrix to be a
translation by the specified vector
MetaTypes
  MetaTypes.List

    Lists all the MetaType information

                                                   - [version number] - query the specific valid
  MetaTypes.Versions
MetaTypes by version. or give a summary of all vaild MetaTypes version
Metrics
  Metrics.State
                                                   - [/on] [/off] Enable, disable the Metrics
framework
MSFCmnFeatTableWidgetCmd
  MSFCmnFeatTableWidgetCmd.UpdateTableCell

    Update the table cell.

Usage: MSFNestStudyShapeTable.Update <key> <row> <column> <value>
MSFNestComponentSources
  MSFNestComponentSources.SetFeatureProperty - Sets the feature property value to the
nesting feature object.
MSFNestComponentTableCmd
  MSFNestComponentTableCmd.ChangeComponentType - Change the component type.
Usage: MSFNestComponentTableCmd.ChangeComponentType <key> <row> <component type>
```

```
MSFNestComponentTableCmd.SelectTableRows - Select the table rows.
Usage: MSFNestComponentTableCmd.SelectTableRows <key> <rows>
MSFNestNameConventionCmd
  MSFNestNameConventionCmd.ApplyToExisting
                                                   - Set apply to existing objects tag.
  MSFNestNameConventionCmd.Export
                                                   - Export name convention to hub.
  MSFNestNameConventionCmd.Import
                                                   - Import name convention from hub.
  MSFNestNameConventionCmd.SetSelection
                                                   - Sets the Selected rows.
  MSFNestNameConventionCmd.UpdateNameConvention
                                                   - Update active selected name convention.
MSFWmdCompManagerCmd
  MSFWmdCompManagerCmd.AddCompInstances
                                                   - Add Fusion component instances to the
working model.
Usage: MSFWmdCompManagerCmd.AddCompInstances <component path> <quantity>
  MSFWmdCompManagerCmd.AddSource

    Add external Fusion sources to the working

model.
Usage: MSFWmdCompManagerCmd.AddSource <urn1>,<urn2>,...
MSFWmdComponentSources
  MSFWmdComponentSources.AddSource

    Add external Fusion sources to the

aggregation asset.
Usage: MSFWmdComponentSources.AddSource <urn1>,<urn2>,...
  MSFWmdComponentSources.RemoveSource
                                                   - Removes external Fusion sources from the
aggregation asset.
Usage: MSFWmdComponentSources.RemoveSource
  MSFWmdComponentSources.SetSelection
                                                   - Sets the selection to the current view.
Usage: MSFWmdComponentSources.SetSelection <onk1>@<onk2>@...
  MSFWmdComponentSources.SwitchView
                                                   - Switches the UI view to the specified
number. TreeView(1), TableView(2).
Usage: MSFWmdComponentSources.SwitchView <1 | 2>
MSketch
  MSketch.BuildProfiles

    profile builder

  MSketch.CreateCircle
                                                   - Create a new circle. You can define Center-
Radius or Center-Start-End to create a circle. Will create a circle (0,0,0) with radius 1.0 by
default.
  MSketch.CreateGeometry3Ds
                                                   - Create some geometries, line, arc, spline,
etc.
  MSketch.CreateLine
                                                   - Create a new line. You can define
EndPoint(will start from origin) or StartPoint-EndPoint to create a line. Will create a line from
```

```
(1,1,0) to (5,5,0) by default.
  MSketch.DeleteSketchCurves
                                                    - Delete selected sketch curves.
 MSketch.EnableTangentDimension
                                                   - enable/disable create tangent dimension.
  MSketch.RunUnitTest
                                                    - Runs a single unit test <test name> [/b =
break on errorl
                                                    - Create a new sketch. Will only create a
  MSketch.SketchCreate
Sketch from origin with Z direction and on rootComponent.
NamedView
  NamedView.AddNamedView

    Add a new named view

  NamedView.RemoveNamedView
                                                    - <named view name> Remove a new named view.
  NamedView.RestoreCamera
                                                    - <named view name> Restore camera from named
view.
  NamedView.UpdateNamedViewCamera
                                                   - <named view name> Update a new named view
camera.
  NamedView.UpdateNamedViewName
                                                    - <named view name><new named view name>
Update a new named view name.
Network
  Network.curlInfo

    Get version and feature info for libcurl

                                                   - [url] Debug a network CONNECT request with
  Network.debugConnect
the current settings to diagnose DNS, proxy, or TLS issues
  Network.LogLevel
                                                   - [/normal] [/verbose] Network request logging
level
Options
                                                   [/true] [/false] Allow loading a file even
  Options.AllowLoadingOfLargeCollections
it exceeds expected collection size i.e. 33 Millions
  Options.AnyCADForAllHubs
                                                    - [/on] [/off] Turn on/off AnyCAD feature for
all hubs
  Options.AutoHideBrowser
                                                    - [/on] [/off] Auto hide browser when command
dialog is displayed.
  Options.AutoRecordScript
                                                   - [/on] [/off] Switches the auto record script
option
  Options.AutoReplayScript
                                                   - Set script file that auto replay when
application starts
  Options.AutoSaveOnClose
                                                    - [/on] [/off] Switches auto-save-on-close on/
off or reports on the setting
  Options.AutoThrottleConsolidationDuringNav

    Set to allow consolidation to be
```

```
temporarily disabled during navigation: [/on] [/off]
 Options.AutoThrottleLODsDuringNav
                                                   - Set to allow LODs computation to be
temporariliy disabled during navigation: [/on] [/off]
 Options.AutoVersioning
                                                   - [/on] [/off] Switches auto-versioning on/off
or reports on the setting
 Options.AutoVersioningTime
                                                   - [minutes] Set time after which automatic
versioning should happen
 Options.BinaryPersistence
                                                   - [/on] [/off] Switches binary persistence on/
off or reports on the setting
 Options.BlockComplicatedRestructure
                                                   - Block complicated restructure for sketch &
work geoemtry [/on|/off]
 Options.BlockUI
                                                   - Toggle UI Block
 Options.BrowserAutoExpand
                                                   - [/on] [/off] Automatically expand as soon as
create a browser node.
 Options.BrowserColor
                                                   - Toggle displaying a colorful browser
                                                   Browser Selection Delay (sec)
 Options.BrowserSelectionDelay
                                                   - [/on] [/off] Turn on/off caching rendering,
 Options.CachingRendering
where we can redisplay highlights more quickly
                                                   - [/on] [/off] Switches the CER Crash Test
  Options.CERTest
option, allowing crashes to be simulated from various pieces of code
 Options.CheckCertInfo
                                                   - Check graphics card certification: [/on] [/
offl
                                                   - [] get status; [/on] [/off] trun on/off ASM
 Options.CheckLiveEntity
live entity check.
 Options.CheckLiveEntity session
                                                   - [/on] [/off] trun on/off ASM live entity
checkk.
 Options.ClearAnyCadFormatTranslationChannel
                                                   - Clear translation channel for AnyCAD
                                                   - [/on] [/off] Switch on/off clear test data
 Options.clearTestDataAtShutdown
at program shut down
 Options.collectListControlType
                                                   - get the types of the list control
 Options.ColorCycling
                                                   - [/on] [/off] Turn on/off color cycling for
default material
 Options.ConsolidateReferenceScene
                                                   - Consolidate Reference Scene: [/on] [/off]
  Options.ConsolidateSketch
                                                   - Consolidate Sketch: [/on] [/off]
  Options.Consolidation
                                                   - Consolidation: [/on] [/off]
 Options.ConsolidationBodies
                                                   - Static batching bodies [/on] [/off]
```

Options.CrashRecovery - [/on] [/off] Switches auto-save on/off for crash recovery or reports on the setting Options.CrashRecoveryDuringTests - [/on] [/off] Perform auto-save for crash recovery during unit tests Options.CrashRecoveryLocation - Get current crash recovery location path Options.CrashRecoveryTime - [minutes] Set time after which auto-save for crash recovery should happen Options.CreaseGUIShowCreaseType - Show crease type (nurbs/subds) option [/ on | /off] Options.CreaseHighlight - Highlights edge creases (nurbs=pink, subds=cyan)[/on| /off] Options.DebugEnvironment - [/Show] [/Hide] Control DebugEnvironment visibilitv Options.DeferredLoading - [/on] [/off] Switches deferred download and loading on/off or reports on the setting Options.DeviceType - Set device type: /HAL /REF /SW Options.DisableHDSCheck - [/on] [/off] Disable periodic checking of Health Dashboard Status Options.DisableNotification Disable notification - [/on] [/off] Turn on/off the display of the Options.DisplayDome environment(dome) Options.DisplayGroundPlane - [/on] [/off] Turn on/off the display of the environment(GroundPlane) Options.DisplayMessageBanner - [/on] [/off] Turns Message Banner on or off [/On] [/Off] Double click cancel Options.doubleClickCancel Options.driver - [/DX11] [/DX9] [OpenGL] Set Default Graphics Driver(Note: will only be effective in next session) Options.dumpIconInformation - show a dialog to show the toolkit controls Options.dumpToolbar - Dump the toolbars. - [/on] [/off] Turn on/off Exchange Material Options.EMBEnabled Options. EnableAnyCadJumpTranslation - [/on] [/off] Switches the EnableAnyCadJumpTranslation option Options. EnableAnyCadNonDestructiveUpload - [/on] [/off] Switches the EnableAnyCadNonDestructiveUpload option Options. EnableATFTagging - [/on] [/off] Whether to enable ATF DXID based tagging.

```
Options. EnableDataModelSnapshot
                                                   - Enable snapshot function for PM data model
[/onl/off]
  Options. EnableFusionBasic
                                                    - [/on] [/off] Switches Fusion 'Basic'
Entitlement mode on or off
  Options.EnableHDRBkg
                                                    - Enable HDR background display: [/on] [/off]
  Options.EnableInterrupt
                                                    - [/on] [/off] Set Operation Interrupt options
  Options.enableMarkingMenu
                                                    - enable/disable marking menu
  Options.EnableNewOrbitBehavior
                                                    - Enable new orbit behavior[/on| /off]
  Options.EnableNewOrbitBehaviorTrackpad
                                                    - Enable new orbit behavior for trackpad[/
onl /offl
  Options. EnableNotification

    Enable notification

                                                   - [/on] [/off] Toggle the progress bar
  Options.EnableProgressBar
  Options.EnablePunchOutRequestAccess
                                                   - [/on] [/off] Switches the
EnablePunchOutRequestAccess option
  Options.EnableReimport
                                                   - [/on] [/off] Switches the EnableReimport
option
  Options.EnableSelectionValidation

    Enable selection validation for Next UV[/

on | /off]
  Options. EnhancedTSpline
                                                    - Enhanced TSpline: [/on] [/off]
                                                    - [/on] [/off] Turn on/off color by facegroup
  Options.FaceGroups
  Options.FeatureToggle
                                                    - [featureId] [/on] [/off] Check Feature
toggle information, could enable feature temporary.
  Options.Files
                                                    - Lists all the files used for options
 Options.ForceCircuitBreakerToFail
                                                    - Simulate Circuit Breaker Open State [/on]/
  Options.ForceHWGraphicsOnMacOS
                                                   - Enforce hardware graphics on macOS: [/on] [/
offl
  Options.ForceLinkUpdateOnDocOpen
                                                   - [/on][/off] Force update links on document
open.
                                                    - [/Normal] [/Off] Force the Nav-Toolbar Off
  Options.ForceNavTB
  Options.FXAA
                                                    - [/on] [/off] Turn on/off fast approximation
anti aliasing
  Options.GammaCorrection
                                                    - Gamma Correction: [/on] [/off]
  Options.Gestura
                                                    - [/on] [/off] Turn on/off Gestura
                                                   - <id of option> - gets the value of the
  Options.Get
option with the matching id
```

```
Options.GetAnyCadFormatTranslationChannel

    Get translation channel for AnyCAD

 Options.GetOptions
                                                   - [/dirty] [/nondefault] [/full] [/
dynamicSettings] Show either all or the dirty (need to be writen to disk) or non-default (the
value isn't the default) options; if /full is used a lot of info is output
 Options.GetUserLanguage
                                                   - Get the user language setting
 Options.GraphicsSplitTestEnabled
                                                   - [/on] [/off] Turn on/off graphics split test
 Options.HealthTest
                                                   - [/on] [/off] Switches health test off or
reports on the setting
 Options.Help
                                                   - <id of option> - gets the help text (or
tooltip) of the option with the matching id
                                                   - Toggle turning the HUD on and off
  Options.HUD
                                                   - Toggle turning the dynamic HUD on and off
 Options.HUDDyn
                                                   - Toggle HUDLabel [text]
  Options.HUDLabel
 Options.HUDLarge
                                                   - Toggle turning the HUDLarge on and off
                                                   - Toggle turning the QATHUD on and off
 Options.HUDOAT
 Options.HUDSlider
                                                   - Toggle turning the HUDSlider on and off
                                                   - [/on] [/off] Set Global flag to ignore
 Options.IgnoreCSOForComponentTraversal
'Component Suppression Overrides' while component traversal
 Options.improvePreviewForLocalDxfInsert

    improve preview for Local DXF Insert

 Options.InDevelopmentCode
                                                   - It turns ON/OFF (Neutron) in development
code
 Options.InsecureRestoreWithRecovery
                                                   - [/on] [/off] Turn on or off ASM recover
restore
  Options.JointHoverPreview
                                                   - [/on] [/off] Switch Preview on Hover for Two
Edges
 Options.JsonSanityCheck
                                                   - 0: enabled for internal build only, 1:
always enabled, 2: always disabled
  Options.Language
                                                   - Set language to de-DE = German, en-US =
English, cs-CZ = Czech, es-ES = Spanish, fr-FR = French, hu-HU = Hungarian, it-IT = Italian, ja-
JP = Japanese, ko-KR = Korean, pl-PL = Polish, pt-BR = Portuguese Brazilian, ru-RU = Russian, zh-
CN = Chinese (PRC), zh-TW = Chinese (Taiwan)
 Options.LegacyFacetingAPI
                                                   - [/on] [/off] Turn on/off legacy faceting
code
                                                   - [/dirty] [/nondefault] [/full] [/
  Options.List
dynamicSettings] Show either all or the dirty (need to be writen to disk) or non-default (the
value isn't the default) options; if /full is used a lot of info is output
```

```
Options.LoadPackagesAsXRef
                                                   - [/on] [/off] Turn on/off xref load by
xrefGroup
 Options.LockView
                                                   - Lock the view: [/on] [/off]
 Options.LODMode
                                                   - Set LOD mode: [/no] [/legacy] [/enhanced]
 Options.LogGraphics
                                                   - Log graphics errors and warnings: [/on] [/
offl
 Options MarkingMenu
                                                   - [/On] [/Off] Turn On or Off the marking menu
                                                   - Set minimum allowed frame rate before start
 Options.MinFPS
degrading effects and caching rendering result
                                                   - [/on] [/off] Turn on/off multi-sampling anti
 Options MSAA
aliasing
                                                   - [/on] [/off] [/full] [/none] Switches basic
 Options.MultiThread
or full multi-threading on or off or reports on the status
 Options.MultiThreadASM
                                                   - [/on] [/off] Switches ASM processing using
multi-threading
 Options.MultiThreadBatchFacet
                                                   - [/on] [/off] Switches batch facet using
multi-threading
 Options.MultiThreadJoints
                                                   - [/on] [/off] Switches joint solving using
multi-threading
 Options.MultiThreadLoad
                                                   - [/on] [/off] Switches loading process using
multi-threading
 Options.MultiThreadOGS
                                                   - [/on] [/off] Switches OGS processing using
multi-threading
 Options.MultiThreadSave
                                                   - [/on] [/off] Switches saving process using
multi-threading
 Options.NewRecoveryNotifyTaskAtStart
                                                   - [/on] [/off] Switches auto-save on/off for
creating recovery notify task when program starts
 Options.Notification

    Test Notification Messge

                                                   - Set object shadow Fit: /scene /view /cascade
 Options.ObjectShadowFit
                                                   - Set object shadow type: /sharp /soft /
 Options.ObjectShadowType
soft2 /none
 Options.OfflineCacheDays
                                                   - [days] Set days for offline cache time
period(from 0.3 to 360 days for test purpose)
 Options.OfflineExpirationPeriod
                                                   - [days] Set days for offline expiration
period(from 0.001 to 14.5 days for test purpose)
 Options OnDemandLMV
                                                   - [/on] [/off] Turn on/off OnDemandLMV
```

```
Options.OpenMultipleFiles
                                                   - [/on] [/off] Can the user open multiple
files via the UI
 Options.OptimizedRendering
                                                   - [/on] [/off] Turn on/off optimized
rendering, where we minimize what gets invalidated
 Options.PersistOGS
                                                   - [/on] [/off] Switches OGS persistence on or
off or reports on the setting
 Options.PixelScaleFactor
                                                   - Set global pixel-scale factor
 Options.Pseudolocalize
                                                   - [/on] [/off] Switch on or off pseudo
localization (to show globalized text in an artificial language) or reports on its status; a
restart is needed after a change
 Options.RandomTestCloudWorkflows
                                                   - [/on /off] Turn ON or OFF cloud workflows
for random transaction tests.
                                                   - <number> Specify the max number of documents
  Options.RandomTestMaxDocCount
to be created by Random Txn Test framework.
                                                   - <number> Specify the round for entity
  Options.RandomTestRunTimes
transaction random unit test system to run.
                                                   - [/on] [/off] Turn on/off RDP optimization
  Options.RDPOEnable
                                                   - [/on] [/off] Throttle effect in RDPO
 Options.RDPOThrottleEffect
 Options.RDPOThrottleFrameRateDuringNav
                                                   - [fps] Throttle framerate in RDPO
  Options.RDPOThrottleMaterial
                                                   - [/on] [/off] Throttle material in RDPO
 Options.RDPOThrottleShadedDuringNav
                                                   - [/on] [/off] Throttle shaded in RDPO
 Options.Reload
                                                   - <Files to Reload> Reloads options, either in
the passed files, or all options
 Options.RemoveLogFileAtShutdown
                                                   - [/on] [/off] Switch on/off the process of
removing log file at shut down
 Options.RepairMode
                                                   - [/on] [/off] Toggles the repair mode
                                                   - [/on] [/off] Toggles repair mode for stuck
 Options.RepairUploadQueuesMode
upload queues, requires fusion restart after turning on this option
 Options.ReplaceShowInCommandDialog
                                                   - [/on] [/off] Testing replace
ShowInCommandDialog with visible
 Options.Reset

    Reset all options back to default

 Options.resetAnyCADToFirstTime
                                                   - Two options: /On, /Off. Reset the first time
preference to display the AnyCAD preview message
  Options.ResilientSelections
                                                   - [/on] [/off] Switches Resilient Selections
on or off or reports on the setting
                                                   - Save all the dirty options to disk
  Options.Save
```

```
- [/on] [/off] Switches save all or none
  Options SaveAllOrNone
option
                                                    - [/on] [/off] [/report] Allows missing
  Options.SaveMissingLocalizations
localizations to be saved and reported on later (via Options.ReportMissingLocalizations)
                                                     - [/on] [/off] Switches the save preview
  Options.SavePreview
option
                                                     - Set scaling manipulator's scaling factor,
  Options.ScaleFactor
default is 20
  Options.SelectClosestItemOnly
                                                    - [/on] [/off] Turn on/off selecting closest
item only
  Options.SelectionEffect
                                                    - [/normal] [/fast] [/simplified] [/no] [/
degraded] Use different selection effect, either always or for degraded (interactive)
selections!)
  Options.SendOpenActionEvent
                                                     - <string> Specify the workspacename.studyname
Options.SendOpenActionEvent — <string> Specify the workspacename.studyname(simulation.nonLinearStress) to create. Sends an open-action event for Inventor-Fusion workflows
for testing
  Options.Set
                                                     - <id of option> <Value> - sets the value of
the option with the matching id
  Options.SetAnyCadFormatTranslationChannel
                                                     - Set translation channel for AnyCAD
  Options.setListControlType
                                                     - set the type of the list control
  Options.SetOptions
                                                     - <dictionary> - Sets all the options in the
dictionary and returns the number of options saved
  Options.SetSceneup
                                                     - Set Default orientation: [/y] [/z]
  Options. ShowAllCommands
                                                     - [/on] [/off] Switches show all commands or
reports on the setting
  Options.ShowAllOptions
                                                     - Toggle show all options in the preferences
  Options.showAnyCADPreviewDialog
                                                     - Display the AnyCAD preview message
  Options.showDialog
                                                     show a dialog
                                                     - [/on] [/off] Turn on/off Layout Grid
  Options.ShowLayoutGrid
  Options.ShowMemoryLeaksAtShutdown
                                                     - [/on] [/off] Show memory leaks at program
shut down
                                                     - [/On] [/Off] Change Show More Context Menu
  Options.ShowMoreContextMenu
  Options.ShowQAAlert
                                                     - [/on] [/off] Switches whether the QABugAlert
dialogs should pop up.
  Options.showToolkitDialog
                                                     - show a dialog to show the toolkit controls
  Options.showToolkitDialogV2
                                                     - show a dialog to show the toolkit controls
```

| <pre>Options.ShowViewCubeXYZ Options.StrictLiveEntityCheck</pre> | Show coordinator XYZ inside view cube[] get status; [/on] [/off] trun on/off More |
|--|--|
| Strict ASM live entity checking. | - [] get status, [/oii] [/oii] truii oii/oii More |
| Options.SupremeAggressiveConsolidation | Consolidate nodes the most aggressively: / |
| on /off | , , , , , , , , , , , , , , , , , , , |
| Options.tasks | 0=original, 1=timer, 2=filtered |
| Options.TeamhubOnboarding | [/on] [/off] Turn on/off Teamhub Onboarding |
| Options.Theme | - [/Light] [/Dark] Change UI Theme |
| Options.Threads | Reports on the number of threads used by |
| default | Tanala disalasian musicak and busuch info in |
| Options.ToggleProjectBranchInBrowserTree | Toggle displaying project and branch info in |
| <pre>browser tree Options.TonemappingResolveMSAA</pre> | [/on] [/off] Turn on/off resolving MSAA in |
| tonemapping pass | - [/OII] [/OII] TUIN ON/OII TESOTVING MSAA IN |
| Options.ToolbarAddItems | Add a toolbar item |
| Options.TourGuide | - Show the tour guide |
| Options.TourGuideExitFrame | - Show the tour guide |
| Options.TransactEntities | [/on or /off] Switch on or off transaction |
| for Segments. | |
| Options.Transactions | [/on or /off] Switch on or off the whole |
| transaction system. | |
| Options.TransparencyEffect | <pre>- Set Transparency Effect: [/simple] [/</pre> |
| advanced] | |
| Options.TransparentBackground | [/on] [/off] Turn on/off transparent |
| background when saved into an image | |
| Options.TransProcessor | [/on] [/off] Switches multi-thread option |
| flag for translation processor | Chay troo dialog |
| <pre>Options.TreeDialog Options.UseOccurrenceTree</pre> | Show tree dialogUse Occurrence Tree: [/on] [/off] |
| Options.wantToDisableWindowWhenShowSaveFileDialo | |
| File Dialog. | by - want to disable the window when show save |
| Options.WIPFileMetaDataCache | <pre>- [/on] [/off] [/dump] Switches</pre> |
| WIPFileMetaData cache functionaility on/off | [/ OII] [/ OIII] [/ ddiiip] Swittenes |
| ParaMesh | |
| ParaMesh.MigrateLegacy | Migrate legacy MREP::MeshBody to |
| ParaMeshBody. DEBUG ONLÝ | |
| | |

```
PAsset
 PAsset.ClearCurrent
                                                   - Clears the current asset and returns the
previously active one (so you can restore it if it is non zero
 PAsset Create
                                                    - <asset type> Create an asset matching given
type
 PAsset.EntityIds
                                                   - Gets a list of the entityIds for the active
asset using JSON
 PAsset.GetCurrent

    Returns a SessionWideID for the current

asset
                                                   - [sessionWideId] [/limited {/propertyKeys}]
 PAsset Properties
get the properties of the asset with sessionWideId or the active one
 PAsset RootIds
                                                   - Gets a list of the root ids for the active
asset
 PAsset Roots
                                                   - Gets a list of the root entities for the
active asset
 PAsset.SetCurrent
                                                   - <SessionWideID> Sets an asset as the current
asset and returns the previously active one (so you can restore it if it is non zero
 PAsset.SetProperties
                                                   - - - properties: JSON> [sessionWideID] set the
properties of the asset with sessionWideId or the active one
Paths
 Paths.Get
                                                   - Get all the paths used by Neutron
                                                   - Get current user specific directory
 Paths. User Directory
PBody
 PBody.BoundingBox
                                                   - <Body Entity Ref> Returns the bounding box
(in JSON) of a given body
 PBody.ClearOccurrenceProperty
                                                    - <0ccurrencePath> <Body> <Property to Clear>
Sets the occurrence specific properties of a body
 PBody.Component
                                                   - <Body> Returns the component that owns the
body
                                                   - <component:Entity Ref> <fileName:String>
 PBodv.FromSat
import Bodies from Sat file into given component
 PBody. Is
                                                   - <Body Entity Ref> Returns true if the entity
ref is a body
                                                   - [/occSpecificOnly] <0ccurrencePath> <Body>
 PBody.OccurrenceProperties
Gets the properties of a body occurrence; these can be restricted to only those appropriate to
the body occurrence (instead of including properties coming from elsewhere - e.g. the component)
```

```
- [/NoOverrides] <Body> [Start Component]
  PBody OccurrencesOf
Gets the occurrences of the specified body inside the start component - this defaults to the root
component for the current asset
 PBody.SetOccurrenceProperties
                                                   - <0ccurrencePath> <Body> <Dictionary Of</pre>
Properties> Sets the occurrence specific properties of a body
                                                   - /noNormals /noUVCoords <Body Entity Ref>
  PBody. Tessellation
[Quality JSON] Returns the triangles of a given body
 PBody.ToSat
                                                    - <body:Entity Ref>
<fileName:String>[versionNumber:Int default = 7][scaleFactor:Double default = 1] Export the given
Body to a Sat file
PCB
 PCB.clearCache

    clear local cached model of packages

                                                   - Invoke Create PCB Workspace
 PCB.Create
 PCB.Dump3dPackages
                                                   - Dump information of package3d used in PCB3D
document
 PCB.DumpPackagesLog
                                                   - Dump information of package3d used in PCB3D
document to log file, please provide log file path
                                                   - inputfile outputfile
 PCB.export
                                                   - Load outline from a brd file into Fusion.
 PCB.loadbrdoutline
Usage: PCB.loadbrdoutline <filename>
 PCB.paths
                                                   - show the path of electronics rc file
 PCB.Repair
                                                   - Dump information of package3d used in PCB3D
document
                                                   - Invoke Document Update CMD
 PCB.RunUpdateCmd
pcb3d
 pcb3d.clear

    Clear 3D PCB related cache.

 pcb3d.show
                                                    - show the current content in 3D PCB cache.
 pcb3d.update
                                                   - Update 3D PCB
PComponent
 PComponent.Bodies
                                                   - [<Component>] Returns the bodies owned by a
component, defaults to the root component
 PComponent.BodyOccurrences
                                                   - [/NoOverrides] [Component] Gets the body
occurrences organized by target component. The occurrences are those reachable from the passed
component (which defaults to the root component for the current asset)
 PComponent.ComponentObjectChildren
                                                   - <Component Object> Returns the children of
the passed component object - can be NULL when the passed object is itself a component
```

```
PComponent.ComponentObjectDescendents
                                                  - <Component Object> <InterfaceId> Returns the
descendents of a component object, optionally restricted to those that implement an interface
 PComponent.ComponentObjectOccurrences
                                                  - [/NoOverrides] <InterfaceId> [Component]
Gets the occurrences of component objects of a particular type, organized by component object.
The occurrences are those reachable from the passed component (which defaults to the root
component for the current asset)
 PComponent.ComponentObjectOccurrencesOf - [/NoOverrides] <Component Object> [Start
Component] Gets the occurrences of the specified component object inside the start component -
this defaults to the root component for the current asset
 PComponent.ComponentOccurrences
                                                  - [/NoOverrides] [Component] Gets the
occurrences organized by target component. The occurrences are those reachable from the passed
component (which defaults to the root component for the current asset)
                                                  - [/NoOverrides] [Component] Gets the
  PComponent. Components
components reachable from the passed component (and includes that component), which defaults to
the root component for the current asset
 PComponent.Instances
                                                  - Gets the instances of the passed component,
without applying any overrides
 PComponent. Is
                                                  - <Component Entity Ref> Returns true if the
referenced entity is a component
 PComponent.IsComponentObject
                                                  - <Component Object Candidate> Returns whether
the passed object is a component object (i.e. an object that makes up a component, like a sketch
or tspline)
                                                  - [/NoOverrides] [Component] Gets the
 PComponent.Occurrences
occurrences reachable from the passed component (which defaults to the root component for the
current asset)
  PComponent.OccurrencesOf
                                                  - [/NoOverrides] <Component> [Start Component]
Gets the occurrences of the specified component inside the start component - this defaults to the
root component for the current asset
 PComponent.OwningComponent
                                                  - <Component Object> Returns the owning
component of the passed component object - can be itself when the passed object is itself a
component
 PComponent.ParentComponentObject
                                                  - <Component Object> Returns the parent of the
passed component object - can be NULL when the passed object is itself a component
 PComponent.Root
                                                  - Gets the active root component
PEntity
 PEntity.AddEntityCustomProperties
                                                  - <EntityRef> <Custom Properties JSON> Adds
```

```
custom properties to given entity
 PEntity.AddPostChange
                                                   - <entityRef> <pythonFunction> calls the
python function just after the entity has changed. The python function takes a dictionary
argument that describes the change.
 PEntity.AddPreChange
                                                   - <entityRef> <pythonFunction> calls the
python function just before the entity is changed. The python function takes a dictionary
argument that describes the change.
 PEntity.AddPreDelete
                                                   - <entityRef> <pythonFunction> calls the
python function just before the entity is deleted. The python function takes a dictionary
argument that describes the change.
 PEntity.EntitiesOfAnyInterfaces
                                                   - <List of Entity Refs> <List of InterfaceIds>
Returns a list of entities which support any of the given interfaces.
                                                   - <List of Entity Refs> <InterfaceId> Returns
  PEntity.EntitiesOfInterface
a list of entities which support the given interface
 PEntity.GetEntityInterfaces
                                                   - <EntityRef> Returns a list of interfaces the
entity directly supports; the order is the entity's interface, then the base class's interface
and then the other interfaces the entity supports.
 PEntity.ID
                                                   - <EntityRef> Returns the entity ID
 PEntity.IsEntityOfAnyInterfaces
                                                   - <EntityRef> <List of InterfaceIds> Is the
entity type equal to or derived from any of given interfaces.
 PEntity.IsEntityOfInterface
                                                   - <EntityRef> <InterfaceId> Is the entity type
equal to or derived from the given interface
 PEntity.Properties
                                                   - [/limited {/limitedPropertvId}] [/
followRefs] [/skipNulls] [/customOnly] [/noCustom] <EntityRef> Returns all or selected properties
of the entity as JSON
 PEntity.RemoveEntityCustomProperties
                                                   - <EntityRef> <Custom Property Names JSON>
Removes the specified custom properties from given entity
                                                   - <entityRef> <pythonFunction> stops calling
 PEntity.RemovePostChange
the python function just after the entity has changed.
 PEntity.RemovePreChange
                                                   - <entityRef> <pythonFunction> stops calling
the python function just before the entity is changed.
 PEntity.RemovePreDelete
                                                   - <entityRef> <pythonFunction> stops calling
the python function just before the entity is deleted.
 PEntity.Segment
                                                   - <EntityRef> Returns entity's segment
segmentSessionWideID
 PEntity.SetProperties
                                                   - <EntityRef> <JSON> Updates the properties of
```

```
the entity using JSON
PFusionDocumentation
 PFusionDocumentation. ExecuteJS

    Execute custom javascript on frame

 PFusionDocumentation.GetInitialScale
                                                   - Get the initial scale such that 4 views are
guaranteed to fit
 PFusionDocumentation.ReadFile

    Read and encode a local file

                                                   - [/TransparentBackground][/
 PFusionDocumentation.Snapshot
DisableAntiAliasing][/EncodedString][/Opaque][/AdjustSize] Set the camera properties and image
size
 PFusionDocumentation.WriteFile

    Decode and write a local file

PInstance
 PInstance.Create
                                                   - <Source> <Target> [<Transform>] Creates an
instances from the source to target component
                                                   - <Instance Entity Ref> Returns true if the
 PInstance. Is
referenced entity is an instance
 PInstance.SourceComponent
                                                   - <Instance> Returns the component that owns
the instance
 PInstance.TargetComponent
                                                   - <Instance> Returns the target component of
the instance
PInterface
 PInterface.GetSubInterfaces
                                                   - <InterfaceId> Returns a list of sub-
interfaces the interface directly supports, starting with the base class's interface. Does not
include the passed interface.
 PInterface. IsOfInterface
                                                   - <BaseInterfaceId> <TestInterfaceId> Is the
test interface equals to the base interface or derived from it
PlasticParts
 PlasticParts.BC TestFamily
                                                   - <Category ID> <Template ID> Opens given
family; returns validity check
 PlasticParts.BC TestScrewModels
                                                   - [TemplateId list] Opens screw families;
returns validity check
 PlasticParts.BC TestScrews
                                                   - Opens screw families; returns validity check
 PlasticParts.BC Upload
                                                   - <Category ID> <Template ID> Opens given
template, applies given parameters, uploads to the cloud
 PlasticParts.EnableScrewInBoss

    Enables/Disables Screww in Boss command [ON/

OFF1
 PlasticParts.InputsExpressions
                                                   - It enables plastic command inputs
```

```
expressions. Command use is PlasticParts.InputsExpressions /on or /off.
 PlasticParts.ResetLibraryRules
                                                   - Resets the Library Rules.
P0ccurrence
 POccurrence.ClearProperty
                                                   - <0ccurrencePathAsJson> <PropertyName> Clears
an occurrence specific property
  POccurrence.GetBackInstance
                                                   - <0ccurrencePathAsJson> Gets the instance at
the back of the occurrence path - the leaf instance
 POccurrence.GetLength
                                                   - <OccurrencePathAsJson> Gets the length
(number of instances) in the occurrence path
  POccurrence GetRootOccurrence
                                                   - Creates a occurrence path for the root
component. This is zero length and is useful to traverse the instancing structure
  POccurrence. Is
                                                   - <occurrence dictionary> Returns true if the
passed dictionary is a valid occurrence
 POccurrence PopBackInstance
                                                   - <0ccurrencePathAsJson> Removes the instance
from the back of the occurrence path (i.e. the leaf instance)
 POccurrence. Properties
                                                   - [occSpecificOnly] <0ccurrencePathAsJson>
Returns the properties of passed occurrence
  POccurrence PushBackInstance
                                                   - <0ccurrencePathAsJson> <InstanceRef> Pushes
the instance to the back of the transform
  POccurrence.SetProperties
                                                   - <0ccurrencePathAsJson>
<0ccurrencePropertiesAsJSON> Updates the occurrence specific properties of passed occurrence
 POccurrence.SourceComponent
                                                   - <0ccurrencePathAsJson> Returns the source
component of the occurrence path
 POccurrence.TargetComponent
                                                   - <0ccurrencePathAsJson> Returns the target
component of the occurrence path
 POccurrence Transform
                                                   - <0ccurrencePathAsJson> Returns the transform
of the occurrence path
Preferences
 Preferences.ApplyAndClose
                                                   - Apply and close preferences dialog
                                                   - Close preferences dialog without applying
 Preferences Cancel
the changes
PreviewablePanel
  PreviewablePanel.Preview
                                                   - Click preview.
Usage: PreviewablePanel.Preview
PScene
 PScene.AddChildNode
                                                   - <NodeRef> <NodeRef> adds a scene node as a
```

child, note that a scene node is specified by a NodeRef.

PScene.CreateBoxNode — <JSON> [EntityRef] creates a primitive node as a box, with the 'clientType', 'qualifier' and geometry data specified in a dictionary, and connects the node with an entity if exists; returns a NodeRef instance. Note that the geometry data is the mathematical definition of a box which includes a point as the center of the box, and three axis vectors and the corresponding extensions(lengths); each axis vector must be an orthonormal set, and the length must be non-negative.

PScene.CreateConeNode — <JSON> [EntityRef] creates a primitive node as a cone, with the 'clientType', 'qualifier' and geometry data specified in a dictionary, and connects the node with an entity if exists; returns a NodeRef instance. Note that the geometry data is the mathematical definition of a cone which includes the center(a point) and radius of the bottom, and the direction(a vector) and length of the height.

PScene.CreateCylinderNode - <JSON> [EntityRef] creates a primitive node as a cylinder, with the 'clientType', 'qualifier' and geometry data specified in a dictionary, and connects the node with an entity if exists; returns a NodeRef instance. Note that the geometry data is the mathematical definition of a cylinder which includes the center(a point) and radius of the bottom, and the direction(a vector) and length of the height.

PScene.CreateGeometryNode — <JSON> [EntityRef] creates a geometry node, with the 'clientType', 'qualifier' and geometry data specified in a dictionary, and connects the node with an entity if exists, returns a NodeRef instance. Note that the geometry data is specified by a dictionary including the mesh type, primitive type, coordinates, normals, texture coordinates, indices, transforms, colors, etc.

PScene.CreateGroupNode - <JSON> [EntityRef] creates a group node, with the 'clientType', 'qualifier' and 'worldType' specified in a dictionary, and connects the node with an entity if exists, returns a NodeRef instance.

PScene.CreateReferenceNode — <NodePath> <AdornmentType> creates a reference node that references to the leaf node of the node path, returns a NodeRef instance. Note the 'AdornmentType' is an integer that specifies which kind of adornment graphics the reference node are created for.

PScene.CreateRefInstanceNode - <ReferenceNode> creates a ref-instance node that references to the target of a specified reference node, returns a NodeRef instance. Here the target of a reference node is a scene node, so, in the end, the ref-instance node and the reference node both reference to the same node.

PScene.FilterLogicalToSceneSelection - <LogicalSelection> returns a SceneSelection that mirrors the (logical) Selection.

PScene.GetModelScene - returns a NodeRef instance representing the

model scene. - <EntityRef> gets the scene node which is PScene GetNodeFromEntity owned by the entity, returns a NodeRef instance. PScene.GetNodePathFromSelection - <SceneSelection> gets the NodePath from a SceneSelection. - <NodeRef> <NodeRef> removes a child node, PScene RemoveChildNode note that a scene node is specified by a NodeRef. PScene RemoveReferenceNode - <NodeRef> removes a reference or refinstance node. PScene SetInstancedMesh - <NodeRef> <JSON> sets the geometry data of a scene node with an instanced mesh. The instanced mesh is specified by a dictionary containing primitive type, vertex coordinates, normals, texture coordinates, indices, transforms, and colors. - <NodeRef> <JSON> sets the properties of a PScene SetNodeProperties scene node specified by a NodeRef, and the new properties are specified by a dictionary, and each property has a 'winTies' and a 'priority' besides the property data. Note if two properties which are the same kind, and have the same 'winTies' and 'priority', it is not defined that which property will be used. For example, if a 'colorEffect' and a 'materialEffect' have the same 'winTies' and 'priority', it is not defined that which one will be the final effect. PScene SetSimpleMesh - <NodeRef> <JSON> sets the geometry data of a scene node as a simple mesh. A simple mesh contains primitive type, vertex coordinates, normals, and texture coordinates. **PSelections** PSelections.Add - <JSON for selection> Adds the selection to the selection set for the current asset PSelections.AddToInput - <JSON for selection> Add the selection to the selection input of the current active command PSelections.Clear - Clears the selection set of the current asset - Gets the selections in the current assets PSelections Get selection set PSelections.GetInfo - Returns the available geometric info for the selection in local space or world space. At most 'hitPoint', 'nominalHitPoint', 'point', 'plane', 'line', 'normal' will be returned. The returned info can be limited by flags. - Returns a list of all the selection filters PSelections.ListFilters that can be used in 'filters' property of select command inputs

```
PSelections.Remove
                                                    - <JSON for selection> Removes the selection
from the selection set for the current asset
                                                    - <JSON for Selections as list> Sets the
  PSelections.Set
selections for the current asset to the passed json list
PTransaction
  PTransaction.Abort

    Abort current transaction

  PTransaction.Commit

    Commit current transaction

  PTransaction.Redo

    Redo current transaction

  PTransaction.Start
                                                    - <UserName> Start a transaction with
specified user name
  PTransaction. Undo

    Undo current transaction

Pvthon
  Pvthon.Assert
                                                    - <Condition> Asserts that condition is true
using NEUTRON ASSERT; does nothing in a release build!
  Python.Background
                                                    - /On /Off Changes whether background threads
can be used for python processing.
  Pvthon.BreakIn
                                                    - <PartialFunctionName> Adds a breakpoint when
the named python function is called - (e.g. 'neu_ui.show_simple_message_box' or
'neu_ui.show_simple_' will work as parameters)
  Python.BugAlert
                                                    - <Condition> [Error Text] A bug alert that
checks condition is true. Bug alters works in debug and release builds; failure is considered a
serious error!
  Python.CheckTkinterEnv
                                                    - return true if environment is set for
tkinter; if it is not set, the user is told how to do so
  Python.ClearAllBreakPoints
                                                    - clear breakpoints from all neutron functions
  Python.ClearBreakPoint
                                                    - <PartialFunctionName> Clears a breakpoint
from the named python function - (e.g. 'neu ui.show simple message box' or 'neu ui.show simple '
will work as parameters)
  Python.ClearSingleStep
                                                    - stops single stepping break when any neutron
function is called
  Pvthon.Disable
                                                    - Makes the Text Command Window accept
TextCommands
  Python. Enable
                                                    - Makes the Text Command Window accept Python
                                                    - <Text command string> Parses a text string
  Python. Execute
and runs a text command
  Python.GetBreakPoints
                                                    - returns info on the breakpoints and single
```

| step state | The comint discretesing | |
|--|---|--|
| Python.GetScriptDirectories Python.IDE | The script directorieslaunch python IDE | |
| Python.ListFunctions | <pre>- [/Hidden] [Partial name of module/function]</pre> | |
| Lists python API functions with their help text | - [/illudeli] [laterat hame of modute/function] | |
| Python.ListModules | <pre>- [/Hidden] [Partial name of a module] Lists</pre> | |
| python API modules in Neutron | | |
| Python.RetryScriptWhenIdle | retry last run script after UI events are | |
| processed and onIdle fires | | |
| Python.Run | Run a Python script, specify either the | |
| script filename or script string as the parameter | | |
| Python.RunScript | <pre>- <filename:string> run the given python</filename:string></pre> | |
| script file and take json file as input arguments | | |
| Python.SetSingleStep | break when any neutron function is called | |
| Python.Stats | Reports on the stats for background | |
| processing | | |
| Python.UnitTestAssert | - <condition> <linenumber> An unit test assert</linenumber></condition> | |
| checks condition is true. | | |
| Refs | | |
| Refs.DumpMetrics | Dump the current state of the internal | |
| metrics | | |
| Refs.ResetMetrics | Reset the internal metrics | |
| Render | Aller lener metaniale in level mendening [/ | |
| Render.LegacyMaterials | Allow legacy materials in local rendering [/ | |
| off /on] | Allow Local Dandon Of Harawad Files [/aff | |
| Render Render Unsaved | Allow Local Render Of Unsaved Files [/off | |
| <pre> /on] Render.uploadSPD</pre> | Local E2D to CDD translation, and unload to | |
| Render Service | Local F3D to SPD translation, and upload to | |
| Render VxVerboseMode | <pre>- VX component verbose mode [/off /on]</pre> | |
| ScopedLocks | - vx component verbose mode [/orr /on] | |
| ScopedLocks.DeadlockChecks | <pre>- [/on] [/off] Enable, disable or report on</pre> | |
| deadlock checking (i.e. nested locks by the same t | | |
| Selections | | |
| Selections.Add | <pre>- <paths> Uses each of the paths to add a new</paths></pre> | |
| selection to the current asset. This can accept di | | |
| The state of the s | | |

Selections.AddAllEdges - Add all the edges in current asset to selection set. Selections.AddAllFaces - Add all the faces in current asset to selection set. Selections.AddAllVertices - Add all the vertices in current asset to selection set. Selections.AllCategories - Shows all of the selection categories Selections.Clear - Clears the selection set of the current asset Selections.Count - Number of selections in the current assets selection set Selections.CurrentCategories - Show the selection categories for the current command Selections.List - [/HitInfo] [/WorldHitInfo] [/AllHitInfos] [/ AllWorldHitInfos] Lists all the selections in shorter text for every object path in the current assets selection set using entity ids - <Paths> Uses each of the paths to add a new Selections.ListAdd selection to the current asset. This can accept directly the string returned by Selections.List Selections.Set - <Paths> Clears the selection set for the current asset and uses each of the paths to add a new selection. This can accept directly the string returned by Selections.List Selections.ToggleCategory - <name or prefix> Toggles the enabled setting of the specified selection category SheetMetal SheetMetal.CreateDummyRuleForAutomations - <RuleName> Creates a dummy Rule with the specified name to use in Automations. - <RuleName> Deletes the Rule with the SheetMetal.DeleteLibraryRule specified name from Library. SheetMetal.DisableLocaleFix - [/on] [/off] Disable the locale related fix SheetMetal.GetActiveRuleName - Gets the current active rule at preferences. SheetMetal.ListAllDocumentRules - Gets the list of the rules at document level of current document. SheetMetal.ListAllLibraryRules - Gets the list of the Library rules at preferences. SheetMetal.RecoverLibraryRules - Recovers if there are any cached Library Rules

| SheetMetal.ResetLibraryRules |
|---|
| SheetMetal.SetActiveRule |
| sheetmetal rule. |
| SheetMetal.Tag |
| edge |
| Sketch |
| Sketch.2DVCS |
| Sketch.3d |
| Sketch.AddLockedAngularDimensionInfo |
| command |
| Sketch.AddLockedDimensionInfo |
| Sketch.AddObjectToInference |
| inference |
| Sketch.CoincidentIcons |
| Sketch.CoincidentTiming |
| Sketch.CreateGeometry3Ds |
| etc. |
| Sketch.CreateLegacyText |
| Sketch.CVSpline |
| Sketch.DimensionTextBillboarding |
| Sketch.DisableHiddenProjection |
| Sketch.DisableOutOfPlaneAlignPointInference |
| not on current sketch plane |
| Sketch.DumpGraph |
| solving/dragging |
| Sketch.DumpProfileBody |
| Sketch.dumpProfileCurves |
| Sketch.DumpProfileWire |
| Sketch.DumpSketchProfileConfiguration |
| profiles |
| Sketch.dumpSketchXML |
| Sketch.EnableDragOnDrawLine |
| Sketch.EnableOffsetNewUI |
| Sketch.FullyConstrainedAnalysis |
| Sketch.FullyConstrainedMenu |
| context menu |
| |

- Resets the Library Rules.
- <RuleName> Sets the specified rule as active
- Look at the attributes on sheet metal bend
- Whether enable sketch 2dvcs solving
- Whether fully enable sketch mixed 2d&3d mode
- Add locked angular dimensioninfo to Sketch
- Add locked dimensioninfo to Sketch command
- Given an object ONK to add object to
- Show coincident icons on points
- Set coincident icons show/disappear timing
- Create some geometries, line, arc, spline,
- Create Legacy text instead of New Text
- Enable CV spline
- Billboard the 3d sketch dimension text.
- Disable Hidden projection
- Disable align to point inferences which are
- Whether dump sketch constraint graph during
- Dump the profile body for active sketch
- Dump curve info for an selected profile
- Dump the profile wire body for active sketch
- Dump the profile configuration for selected
- Dump sketch xml
- Enable mouse dragging when drawing lines
- Enable sketch offset dimension
- Enable or disable fully constrained analysis
- Enable fully constrained status checking

```
Sketch.GeomInfo
                                                    - Show sketch geometry information, select
geometry first

    Show sketch information

  Sketch.Info
  Sketch.Is3D

    Show sketch information

  Sketch.KeepConstraintsOn3D
                                                    - Will not remove constraints/dimensions on 3d
move
  Sketch.LightIsConstraintMet

    Use lightweith isConstraintMet API

  Sketch.LineDragTiming

    Set drag timing

                                                    - Whether log sketch infomation (sketch
  Sketch.Log
solver)
  Sketch.LogSave
                                                    - Save log to external file
                                                    - Move selected geometry and solve: x, y, z
  Sketch.MoveGeom
                                                    - Print Sketch Solver metric
  Sketch.PrintMetric
  Sketch.RepairSketch
                                                    - Repair the small segment and gap in sketch
[0: Do nothing, 1: tiny segments, 2: tiny gaps, 3: tiny segment and gps both]
  Sketch.ScaleOnFirstDimension
                                                    - Scale sketch after first dimension created.
                                                    - Select the profiles which are consumed by
  Sketch.selectProfilesBvFeature
selected feature
  Sketch.SetKeyPress
                                                    Set Key press
  Sketch.SetKeyRelease
                                                    Set Key release
  Sketch.ShowCursorPos
                                                    - Switch option - show cursor position
                                                    - Print metric of sketch solving
  Sketch.ShowMetric
                                                    - Select the projected sketch curve or point,
  Sketch.showProjectSource
then use this command to highlight the project source
  Sketch.ShowUnderconstrained
                                                    - Highlight all under constrained points and
curves in active sketch
  Sketch.TextWritingSystem
                                                    - Select the text writing system to use: [/
Latin | / Any ]
  Sketch.WideLine
                                                    - 2 px curve width
Smoke
  Smoke.All
                                                    - [/subfolderName] [/L] Execute Smoke tests
for Fusion All functionalities, default to run all All smoke tests, use /L to list all the 1st
level subfolders under Smoke/All, use /subfolderName to execute tests under specific 1st level
subfolder
  Smoke.Animation
                                                    - [/subfolderName] [/L] Execute Smoke tests
for Fusion Animation functionalities, default to run all Animation smoke tests, use /L to list all
```

the 1st level subfolders under Smoke/Animation, use /subfolderName to execute tests under specific 1st level subfolder Smoke CAM - [/subfolderName] [/L] Execute Smoke tests for Fusion CAM functionalities, default to run all CAM smoke tests, use /L to list all the 1st level subfolders under Smoke/CAM, use /subfolderName to execute tests under specific 1st level subfolder - [/subfolderName] [/L] Execute Smoke tests Smoke DataManage for Fusion DataManage functionalities, default to run all DataManage smoke tests, use /L to list all the 1st level subfolders under Smoke/DataManage, use /subfolderName to execute tests under specific 1st level subfolder Smoke DataModel - [/subfolderName] [/L] Execute Smoke tests for Fusion DataModel functionalities, default to run all DataModel smoke tests, use /L to list all the 1st level subfolders under Smoke/DataModel, use /subfolderName to execute tests under specific 1st level subfolder Smoke Drawing - [/subfolderName] [/L] Execute Smoke tests for Fusion Drawing functionalities, default to run all Drawing smoke tests, use /L to list all the 1st level subfolders under Smoke/Drawing, use /subfolderName to execute tests under specific 1st level subfolder - [/subfolderName] [/L] Execute Smoke tests Smoke.Modeling for Fusion Modeling functionalities, default to run all Modeling smoke tests, use /L to list all the 1st level subfolders under Smoke/Modeling, use /subfolderName to execute tests under specific 1st level subfolder Smoke.Simulation - [/subfolderName] [/L] Execute Smoke tests for Fusion Simulation functionalities, default to run all Simulation smoke tests, use /L to list all the 1st level subfolders under Smoke/Simulation, use /subfolderName to execute tests under specific 1st level subfolder Smoke.Visual - [/subfolderName] [/L] Execute Smoke tests for Fusion Visual functionalities, default to run all Visual smoke tests, use /L to list all the 1st level subfolders under Smoke/Visual, use /subfolderName to execute tests under specific 1st level subfolder StronaRef - <EntityId> <MetaTypeName> Start tracking StrongRef.StartTracking strong-refs to an Entity with the given id and with the given meta type - <EntityId> <MetaTypeName> Stop tracking StrongRef.StopTracking strong-refs to an Entity with the given id and given type Survey

```
Survey. ProfileStartupSurvey
                                                   - Show the Profile Startup Survey. Optionally
specify number of seconds to delay showing survey.
 Survey.ProfileStartupSurveyClearSeenAlready
                                                   - For Profile Startup Survey, clear the
setting for already seen survey.
 Survey. TrialStartupSurvey
                                                   - Show the Trial Startup Survey. Optionally
specify number of seconds to delay showing survey.
 Survey.TrialStartupSurveyClearSeenAlready
                                                   - For Trial Startup Survey, clear the setting
for already seen survey.
 Survey UpdateStartupSurvey
                                                   - Show the Update Startup Survey. Optionally
specify number of seconds to delay showing survey.
 Survey.UpdateStartupSurveyClearSeenAlready
                                                   - For Update Startup Survey, clear the setting
for already seen survey.
TextCommands
 TextCommands.Hide
                                                   - <SubjectArea> Hides a subject area, so it is
not listed and does not appear in autocompletion
 TextCommands.List
                                                   - [/Hidden] [Partial name of SubjectArea]
Provides a listing of some or all the text commands
                                                   - [/unload] <FileName> Loads a DLL (that may
  TextCommands.LoadDll
contain new text commands!)
  TextCommands.Run
                                                   - <FileName> Runs the commands in a file (like
a DOS batch file)
                                                   - [/All] [<SubjectArea>] Makes one or all
  TextCommands.Show
subject areas non hidden, so it is listed and appears in autocompletion
                                                   - [/On] [/Off] Shows whether timing is on or
 TextCommands.Timing
off, or switches it on or off
TextureMapping
 TextureMapping.Copy3DWood
                                                   - Copy the 3D wood texture mapping from the
selected body
 TextureMapping.Paste3DWood
                                                   - Paste the 3D wood texture mapping to the
selected bodies
Toolkit
                                                   - [/items] [/all] [/verbose] [/visible] [/
  Toolkit.allToolbars
position] All Toolbars
                                                   - [/all] [/verbose] [/position] [/drawn] [/
  Toolkit.browser
nosync] [/repaint] [/layout] [/windowIndex num] Browser
 Toolkit.byId
                                                   - <toolbarId> [/all] [/verbose] [/position] [/
```

```
drawn] [/nosync] [/repaint] [/layout] [/windowIndex num] HUD
 Toolkit.clickItem
                                                   - <toolbarId> <itemId> [<xPos>]
 Toolkit.cmdDialog
                                                   - [/all] [/verbose] [/position] [/nosvnc] [/
repaint] [/layout] [/windowIndex num] Command Dialog
                                                   - [/all] [/verbose] [/position] [/nosync] [/
  Toolkit.cmdToolbar
repaint] [/layout] [/windowIndex num] Command Toolbar
 Toolkit.DumpOt
                                                   - Dump QT object info. [/styles] [/class] [/
rectl
 Toolkit.hud
                                                   - [/all] [/verbose] [/position] [/drawn] [/
nosync] [/repaint] [/layout] [/windowIndex num] HUD
                                                   - [/record] [/print] [/clear] [/toolbarItems]
  Toolkit.itemsCheck
[/items]
                                                   - Dump the palette of the current style.
 Toolkit.Palette
                                                   - Set application stylesheet. [<filepath>] |
 Toolkit.OSS
[reset]
 Toolkit.OssOut
                                                   - Write the application stylesheet.
                                                   - Switch the colors in the palette of the
 Toolkit.Redscale
current style from grayscale to redscale. [/off]
 Toolkit.SetTemporaryStyle
                                                   Read UI Toolkit params. (Colors only now.)
<file> | [/reset]
 Toolkit.simText
                                                   - <value>
 Toolkit.Style
                                                   - Read UI Toolkit style overides. [<file>] |
[/reset]
 Toolkit.StyleOut
                                                   - Write UI Toolkit styles. <file> [/all]
                                                   - [/items] [/all] [/verbose] [/position] [/
 Toolkit.toolbars
repaint] [/layout] [/windowIndex num] Displayed Toolbars
 Toolkit.toUpper
                                                   - Test the UI Toolkit's language sensitive
case conversion. coptionalString>
Translator
 Translator.Import
                                                   - <filepath> [/option1=value] [/
option2=value]... Specify the file path to open, these options are optional.
 Translator.ImportNeutralFormat
                                                   - Imports a neutral format dataset
 Translator.LoadSatFile
                                                   - <path> Load a sat file
                                                   - <filepath> [/option1=value] [/
 Translator.Open
option2=value]... Specify the file path to open, these options are optional.
 Translator.Save
                                                   - <filepath> Specify the file path to save
```

```
current asset.
 Translator.SaveSatFile
                                                   - <path> Save to a sat file
TranslatorOptions
 TranslatorOptions.AssetType
                                                   - <Translator Identifier> <Asset Identifier>
Specify the asset type when creating new document
 TranslatorOptions.AssetTypeId
                                                   - <Asset Identifier> Set specify asset type
when creating new document as general option value of translator open option(Note: we need to
load the client translators libraries first, then running this text command)
 TranslatorOptions.ExportAttributes
                                                   - [/on] [/off] Switches export attributes flag
on or off
 TranslatorOptions.ExportSketches
                                                   - [/on] [/off] Switches export sketches flag
on or off
 TranslatorOptions.InsertImport
                                                   - [/on] [/off] Switches import as inserting
flag on or off
 TranslatorOptions.PromotePartAsAssembly
                                                   - [/on] [/off] Switches flag value of promote
part as assembly (Note: we need to load the client translators libraries first, then running this
text command)
UI
 UI.AddToToolbar
                                                   - <JSON> Adds a command to toolbar
                                                   - <workspaceId> <pythonFunction> calls the
 UI.AddWorkspaceActivate
python function when the workspace gets activated.
                                                   - <workspaceId> <pythonFunction> calls the
  UI.AddWorkspaceDeactivate
python function when the workspace gets deactivate.
 UI.AddWorkspaceIsApplicable
                                                   - <workspaceId> <pythonFunction> calls the
python function when the application asks if the workspace is applicable. The python function
takes a JSON argument that describes current asset type.
 UI.BasicAccessDialog
                                                   - Show the Basic Access Dialog
                                                   - [/Modeless] [Parameters as JSON] Displays a
 UI.CommandDialog
command dialog to the user, so he can provide input to a command or script
 UI.CreateCommand
                                                   - <JSON> Creates a command that can be run via
a python script
 UI.CreatePanel
                                                   - <JSON> Creates a panel and adds it to a
command toolbar.
                                                   - <JSON> Creates a workspace.
 UI.CreateWorkspace
                                                   - Shows info on the ActiveCommand and its
 UI.CurrentCommandInfo
inputs
```

```
- <commandId> Deletes a previously created
 UI.DeleteCommand
command that can be run via a python script
                                                   - <JSON> Remove a panel from a command
 UI.DeletePanel
toolbar, and then delete the panel itself.
 UI.DeleteWorkspace
                                                   - <Workspace ID> Remove a workspace from a
command toolbar, and then delete the workspace itself.
 UI.DisableCommandInput
                                                   - <input id: String> Disable the given input
in the active command
 UI.EmulateModalCommandDialog
                                                   - <Command JSON with id, name, inputs>
Presents a command dialog almost modally and returns if it is inprogress, ok or cancel; call
neu dev.retry script when idle on the first case
                                                   - <input id: String> Enable the given input in
 UI.EnableCommandInput
the active command
 UI.EndOfTermDialog
                                                   - Show the End Of Term Dialog
 UI.ForceImmediateRepaint
                                                   - Forces an immediate repaint
 UI.GetCurrentCommandToolbarInfo
                                                   - returns the current command toolbar info as
JSON. This allows a developer to know where to add his command to
 UI.GetToolbarInfo
                                                   - <toolbarId> returns the current toolbar info
as JSON. This allows a developer to know where to add his command to
 UI.ListAllToolbars
                                                   Lists all toolbars' ids.
 UI.MessageBox
                                                   - [Parameters as JSON] Displays a potentially
complex message box to the user using JSON
 UI.PvthonOuickWatch
                                                   - displays python quick watch window
                                                   - <CommandId> <ToolbarId> Removes a command
 UI.RemoveFromToolbar
from toolbar
 UI.RemoveWorkspaceActivate
                                                   - <workspaceId> <pythonFunction> stops calling
the python function when the workspace gets activated.
 UI.RemoveWorkspaceDeactivate
                                                   - <workspaceId> <pythonFunction> stops calling
the python function when workspace gets deactivated.
 UI.RemoveWorkspaceIsApplicable
                                                   - <workspaceId> <pythonFunction> stops calling
the python function when the application asks if the workspace is applicable.
 UI.RequeryManipulatorPlacementData
                                                   - <input id: String> Requery the mainputator
palcement data of the given input in the active command
 UI.RestrictionsComingDialog
                                                   - Show the Restrictions Coming Dialog.
Optionally specify number of seconds to delay showing dialog.
 UI.RestrictionsWelcomeDialog
                                                   - Show the Restrictions Welcome Dialog.
```

```
Optionally specify number of seconds to delay showing dialog.
  UI.SaveDialogMock

    Mock save dialog UI

 UI.SimpleMessageBox
                                                    - [/Error] [/Warning] [Text] Displays a simple
informational message box to the user — useful for debugging Python
                                                    - switch to an working tab
  UI.SwitchToTab
                                                    - <JSON> Adds special tooltip info to a
  UI.TooltipInfo
command
  UI.TraceMessage
                                                    - [Text] Displays a trace message in the
debugger - useful for debugging Python
Units
  Units.DisplayInternalUnit
                                                    - [/UnitOnly] [/ValueOnly] Displays the
internal unit as a value for all the units
  Units.List

    - [/Verbose] Lists all the simple units in

Neutron
                                                    - [MagnitudePower] Makes simple units for the
  Units.MakeForMagnitude
specified magnitude
  Units.ShowComplexUnits
                                                    - Makes and displays complex units for all the
simple units in Neutron
UnitSystems
 UnitSystems.Activate
                                                    - [Id] Activates the passed unit system
  UnitSystems.List
                                                    - Lists all the unit systems of the active
asset, showing details for the active one
  UnitSystems.ShowUnitChoice
                                                    - [/Id] <Id or Unit Expression> Shows the
units used in the active unit system for the passed id or expression - e.g.
'UnitSystems.ShowUnitChoice J' might return 'BTU'
Validation
  Validation.ClearNotifications

    Clear all notifications from

NotificationCenter
ViewCube
  ViewCube.Hide
                                                    - Hide View Cube.
  ViewCube.SetAsHomeView
                                                    - Set the current view as Home Camera
                                                    - Specify locale vaue for view cube
  ViewCube.SetLocale
 ViewCube.Show
                                                    - Show View Cube.
ViewFragment
 ViewFragment.AddLayerPass
                                                    - Add a new pass into view fragment and render
selected component with added pass
```

```
ViewFragment.RemoveLayerPass
                                                    - Remove added layer pass from view fragment
V0
  VO.Add
                                                    - Make the selected entity Visible(/show) or
Invisible(/hide)
  VO.CheckPathVisibility
                                                    - Returns visibility of an entity, considering
the visibility of it's parent
  VO.DisableInAutomation
                                                    - Disables VO in automation run
                                                    - Enable VO(/on), Disable VO(/off), Status(/
  V0.Enable
status)
  VO.EnableInAutomation
                                                    - Enables VO in automation run
                                                    - [/r] List all the visibility overrides for
  VO.List
all referenced components of an assembly
                                                    - Remove (/hide) or (/show) override
  VO. Remove
Window
  Window.Clear

    Clear the text command window

WM
                                                    - Creates a new Workig Model based on Fusion
  WM.Create
Model
  WM.delayLoadedStatus

    Number of docs and assets loaded and skipped

  WM.dumpEntityChangeDetector
                                                    - Dumps entity change detector details for
Working Model with given Working component name
                                                    - Load the delay loaded assets
  WM.loadAssets
                                                    - Creates a new Workig Model based on Fusion
  WM.SwitchTo
Model
                                                    - Execute UpdateWorkingModelCmd to update WM
  WM.updateWorkingModelAsset
asset
WorldToLocal
  WorldToLocal.Line3d
                                                    - <Local to World Matrix JSON> <World Line</p>
JSON> Converts line geometry from world to local space
  WorldToLocal.Plane
                                                    - <Local to World Matrix JSON> <World Plane</p>
JSON> Converts plane geometry from world to local space
  WorldToLocal.Point3d
                                                    - <Local to World Matrix JSON> <World Point</p>
JSON> Converts point geometry from world to local space
  WorldToLocal.Vector3d
                                                    - <Local to World Matrix JSON> <World Vector</p>
JSON> Converts vector geometry from world to local space
```