

## ipp

-  #142 : Position / running count not working during calibration
-  #158 : RENISHAW: Detecting MCU card presence
-  #179 : Need NLS facility for date and time stamp
-  #225 : A change of RefTool should delete its prb
-  #232 : OEM info pattern match fails with batch file
-  #265 : JogMoveCsy and JogDisplayCsy implementation problems
-  #303 : Event commands (Exxxx) should send completes later
-  #317 : Probe inhibited when it shouldn't be
-  #323 : Failed StartSession causes problems with later sessions
-  #327 : Server not re-engaging active head when it disengages
-  #338 : EOffset for multiple orientations of RSP2 probes
-  #339 : Manual head orientations are not picked up
-  #341 : Short styli not calibrated as short styli
-  #344 : GoTo in PartCsy sent during ChangeTool moves to wrong location
-  #348 : ScanInCyl should use unknown speed?
-  #355 : Display current command in tree
-  #369 : Support off surface points in ScanOnCurve
-  #375 : Cannot close server if UCC is turned off when link is up
-  #377 : Add ability to clone parts
-  #380 : void mspIPPCmdBase::DoError uses new
-  #388 : Support textures on box graphical object
-  #392 : How to handle manual head moves
-  #401 : mspdb dependent on mspui due to MessageBox andDlgAddTool
-  #403 : Clone or copy tool should copy calibration files
-  #408 : Assembly/part naming convention
-  #418 : MCU menu mode
-  #424 : Assembly Editor dialog
-  #429 : Display racks in graphics view
-  #446 : mspListenerCO possibly using wrong delete
-  #449 : Need visual cue that Set/Change on Tools tab has worked
-  #460 : Restart server message should kill server
-  #462 : Show selected tip and orientation in tool context menu with ticks
-  #474 : Report EStop pressed even if server not moving
-  #483 : Make tip moves a GoTo parameter
-  #485 : ChangeTool event
-  #489 : Cap ScanPar.Deflection to calibrated deflections
-  #490 : Automatically set CanScan property based on assembly
-  #503 : Manual tool changes should move to ManualChangePosition
-  #511 : Need to send SetProp event
-  #512 : Code duplication should be reduced
-  #514 : AlignmentVolume only takes tips into account
-  #515 : CollisionVolume property
-  #522 : Support Tool.ID property
-  #523 : Force RefTool to be created. Cannot use I++ until RefTool set up.
-  #524 : Display Manual Change Position in view
-  #525 : A failed calibration does not update head orientation tree
-  #529 : Should ScanOnCurve return error if two points are the same
-  #531 : Add ScanUnknownDensity
-  #532 : Extra parameter on ScanInPlaneEndIsSphere

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- 🟡 #534 : New tools are always scanning, should be same as BaseTool
- 🔴 #535 : Return error if point pitch is 0
- 🟡 #537 : Why does mspIPP use mspRotaryTableUI ??
- 🔴 #538 : Use DME files during rack calibration
- 🔴 #539 : Return error if approach is invalid
- 🟡 #540 : Support XpanCoefficient command
- 🔴 #541 : GoTo without all of XYZ moves to wrong position
- 🔴 #549 : Add command glossary to help
- 🟡 #550 : I++ version reported by server
- 🟢 #551 : mspIPP::IsSessionActive trouble
- 🔴 #552 : Add Tool.Alignment to OnPtMeasReport

56 items outstanding

with 4 awaiting QC

with 1 show stoppers

ezlink

- 🔴 #249 : mod/ucc1 dependent on ezlinkui
- 🔴 #250 : ippinterface dependent on ezlinkinterface
- 🔴 #267 : Need to stop MCU status read when ini file MCU mode not set
- 🔴 #293 : Should not read mcu status when no MCU card fitted
- 🔴 #297 : Install needs an upgrade option
- 🔴 #305 : DLL list in About box
- 🟢 #368 : Joystick appears to have stopped.
- 🔴 #385 : Crash if startupp with UCC2 in ipconfig mode.
- 🔴 #390 : Should be able to read machine files of later version
- 🟢 #407 : Macros need tidying
- 🔴 #418 : Active Head moves require move speed to be set
- 🟢 #427 : OnPtMeasReport and OnMoveReportE do not maintain parameter order
- 🔴 #429 : Servos timing out on first run
- 🔴 #548 : Test for head unlocked in engageservos
- 🔴 #572 : EOffset not being updated when stylus offset changed
- 🔴 #575 : Server hangs when using UI to add Body, Module, etc
- 🔴 #580 : Active head failure does not set UnDefTool
- 🟢 #586 : ezLink should not require Renishaw COM
- 🔴 #597 : NLS Translation Errors
- 🟡 #604 : Possible optimisations for XMLCatalog
- 🔴 #607 : xmlCatalog optimisations
- 🔴 #617 : UCCServer tab context menu problems
- 🟡 #618 : Import/Export config files using mspZip
- 🔴 #622 : Need to be able to display hemispheres
- 🔴 #623 : Set environment command line option?
- 🔴 #625 : Changing number of ports in rack crashes server
- 🔴 #626 : Allow server to think it has Revo in offline mode
- 🔴 #629 : GUI stuff MUST NOT go in our low level libraries
- 🔴 #635 : Server using 99% CPU
- 🔴 #636 : Active environment changes before restart
- 🔴 #638 : Summary list in tabs
- 🔴 #643 : Rationalisation of String Defines
- 🟢 #652 : Nested parenthesis in commands
- 🔴 #661 : Ignore reporting of action complete but not move successful during helical scan
- 🟢 #665 : Add quill to Environment
- 🔴 #666 : Reminder: Test starting if there are no environments at all
- 🟡 #667 : Assemblies don't take head mounting orientation into account
- 🟡 #668 : Setting of catalog needs to be settable
- 🔴 #670 : grouping of xml support functions
- 🟢 #671 : Bitmaps needing updating

- 🟡 #678 : mspCMMBed should know hoe to initialise itself
- 🔴 #681 : Tool tab changes
- 🔴 #682 : Disallow adding tools until RefTool has a tip
- 🔴 #683 : Graphics zooming when picking from context menu
- 🟡 #685 : Add support for disc styli
- 🔴 #690 : Add double click behaviour to machine tab
- 🔴 #692 : Active Head status bytes uses APS object
- 🔴 #694 : Server crashes if catalog missing
- 🔴 #700 : mspdb/mspToolRack cannot contain dlg code
- 🔴 #704 : Rotary table wizard dialog position
- 🔴 #705 : Cycle inihibit before touch moves
- 🟢 #707 : After creating an environment it is not possible to change the head
- 🟡 #712 : NLS translations
- 🔴 #713 : If graphics not visible do not update
- 🔴 #715 : Ability to display coordinate systems in graphics view
- 🔴 #720 : Graphics bug when maximising by double click
- 🔴 #722 : Tool calibration improvements
- 🔴 #725 : Show active tip and/or tip numbers in Tools tab
- 🔴 #726 : UI changes and improvements
- 🔴 #728 : Reengaging servos after EStop
- 🔴 #729 : Configuration utility
- 🔴 #730 : Remove "component in rack" flag for rack ports?
- 🟢 #731 : Server does not stay maximised between runs
- 🔴 #732 : Calibration sphere and tool rack should have their own DB types
- 🔴 #733 : Rack code need refactoring
- 🔴 #736 : Add calibration form to tree
- 🔴 #739 : Warn if current calibration sphere is different from one tools previously used
- 🔴 #741 : Check status LEDs reflect UCC state.
- 🟢 #742 : Add more functionality to Tools tab
- 🟢 #743 : Status bar does not keep important status info
- 🔴 #754 : Controller IP/IF rationalisation
- 🔴 #755 : Report ScaleReading error event
- 🟢 #757 : Disable link monitor button if launching won't work
- 🔴 #758 : ezlink xml part catalog wrong in release
- 🔴 #760 : Errors in catalog
- 🔴 #763 : Wizard bitmap is hardcoded
- 🔴 #765 : LEDs being moved from edge of bar
- 🔴 #766 : Install change for docs
- 🔴 #768 : New license.txt from Renishaw
- 🔴 #769 : Docs on the install
- 🔴 #770 : Files need deleting from the install
- 🔴 #771 : Supported languages
- 🟢 #775 : Move rotary table calibration calculations to separate class
- 🟢 #784 : Builder should have part number visible in data row
- 🔴 #785 : Request to not output OnMoveReportE by default
- 🔴 #789 : Change to config code
- 🔴 #792 : Auto add parts to component in Builder
- 🟢 #794 : Tool manager should get other managers through env not IPP
- 🔴 #795 : User guide in html
- 🔴 #800 : Validate machine against active environment
- 🔴 #803 : One piece star stylus needs fixing
- 🔴 #808 : Add diagrams for azimuth and elevation in sphere dialog
- 🔴 #809 : Units support
- 🔴 #812 : Need better way of defining RefTool
- 🔴 #814 : Make select part in builder clearer
- 🔴 #815 : Interface sometimes requires multiple clicks
- 🔴 #817 : Dialog boxes should bring UCCserver to front
- 🔴 #821 : Improve font on graphics view
- 🔴 #823 : Tool tips in machine tab for item info?
- 🔴 #825 : Catalog XSD could be better if order of elements enforced

-  #826 : Save as DME saves client has disconnected message
-  #827 : Better method for displaying textures in graphics view
-  #830 : When calibrating check probe is above/below correct sphere
-  #832 : ESTOP during Homing.
-  #833 : Delay connecting until UCC2 is ready
-  #834 : Need to call SetupForMotion if it fails first time
-  #835 : Support multiple catalogs
-  #838 : Builder can add same component to assembly multiple times
-  #841 : Does error map need probe offsets
-  #843 : Each RenderDB should have its own view details
-  #847 : Edit tool's assembly in Builder
-  #848 : Move controller specific calls out of IPP code
-  #856 : RSP2 stylus change should go into rack forwards
-  #857 : Number field of Element in parts catalogue is redundant
-  #860 : Update parts catalogue on install
-  #861 : Rotary table read/write fails if file is read only!
-  #862 : Graphical triangle meshes
-  #863 : Remove old options from UCCserver tab context menu
-  #864 : Dialog for setting up Manual Change Position
-  #865 : Check server against COM 7
-  #866 : Allow selecting and copying text from command log
-  #872 : Validate orientation on head orientation
-  #875 : slider on probe builder crashes
-  #882 : Display warning if COM versions don't match
-  #890 : Disabling and enabled joystick
-  #896 : Memory leaks in generic controller implementation
-  #899 : Add rack definition catalogue
-  #902 : Generic controller spiral scan
-  #903 : Generic controller ScanOnCircle
-  #904 : Generic controller tool calibration
-  #905 : Disc stylus calibration support
-  #906 : Stop unnecessary validation of catalog
-  #908 : Software Estop
-  #910 : Need rack calibration wizard
-  #911 : Need images for rack and rotary table calibration wizards
-  #912 : Head defines need IsIndexing and IndexingStep
-  #915 : Make machine view a selectable list view
-  #923 : Make Generic/UCC choice based on Environment
-  #925 : Report air pressure low as event
-  #927 : mspStatusIppMGR is a mess
-  #928 : Non-located calibration spheres affect graphics view all
-  #931 : Support bulk data
-  #936 : Cancelling probe calibration
-  #937 : Add ValidateOrientation to Generic controller, use return value
-  #938 : mspBaseControllerIP uses mspDlgWizard
-  #939 : ezlink is too slow to startup
-  #940 : Probe damping in COM 7
-  #944 : Server doesn't support PHC10-2 external interface
-  #946 : Support Probe change racks
-  #947 : UCC status bits stop updating when probe deflected
-  #951 : Make using Rotary Table selectable
-  #952 : Joystick control on Generic controller
-  #954 : Dwells between moves and Scans
-  #958 : Sending object geometry to client
-  #959 : Head Angle Info
-  #962 : Tool changing head moves
-  #966 : Revo star probes
-  #968 : Blending between moves and scans
-  #969 : Automatically clear command log after set length?
-  #971 : Environment enhanced export

- 🔴 #972 : Improve lighting in renderer
- 🔴 #973 : Graphics F5 functionality
- 🔴 #977 : Unknown types in tree
- 🔴 #978 : Tool rack calibration Wizard text refers to nonexistent pictures
- 🔴 #979 : Tool rack edit DLG needs name in title bar
- 🟡 #980 : Tool rack needs path to XML files
- 🟡 #981 : Tool Rack creation, hitting return scrambles data
- 🔴 #982 : Tool rack creation - 'tool not found' error for new tool rack
- 🔴 #983 : MachineDefines.XML/XSD should be renamed as HeadCatalog.
- 🟢 #984 : Head names are defined as strings in code?
- 🔴 #985 : Wizards should check if connected to machine
- 🟡 #986 : Status bar R in offline mode not updating
- 🟢 #987 : Problems when link points entered on wizard dialog
- 🔴 #989 : Environment changes on crash
- 🔴 #991 : Separate parts and components in builder
- 🔴 #993 : Rotary table position not correct when taking manual point
- 🔴 #994 : Do not cancel and reactivate watchdog
- 🟡 #995 : Deleting one RSP2 head orientation deletes calibration file
- 🔴 #996 : Remove unused UCC err handler error codes
- 🔴 #997 : PtMeas backoff directions
- 🔴 #998 : Different ending types for scans
- 🔴 #1004 : MoveScan simulation
- 🔴 #1005 : NLS Trouble needs resolving - foreigners cannot use uccserver
- 🟡 #1006 : Get W when getting MoveScan data
- 🔴 #1008 : Tool name templates
- 🟡 #1009 : Head prb check not done via Goto(Tool.A/B())
- 🟡 #1010 : Created a base class for all mspFeatures
- 🟢 #1011 : Orientation Dartboard
- 🔴 #1012 : Part models from Renishaw
- 🔴 #1013 : Hardcoded head values are bad
- 🔴 #1014 : ToolRack Port calibration with link points
- 🔴 #1015 : ToolRack related classes need reorganising.
- 🟡 #1016 : Modeless DLG boxes are cut off along the bottom (add / edit rack)
- 🔴 #1017 : MCU beep too long
- 🔴 #1018 : Too many warnings
- 🟡 #1019 : New rack code must be compatible with old racks
- 🟡 #1020 : Automatically set RSP2 in tool from assembly
- 🔴 #1021 : SP25M attaches TP20 in opposite orientation to PAA1
- 🟡 #1022 : Report error if sliding rack not in correct open/closed state
- 🟡 #1023 : graphical representation of components in ACR3 wrong
- 🔴 #1024 : Problem with multiple environments with different head mountings
- 🔴 #1025 : Document ini file settings for Renishaw
- 🔴 #1026 : Add option to force probe above/below calibration sphere
- 🟢 #1027 : ShowExpanded check usage
- 🔴 #1028 : Need to prevent calibration when machine not homed
- 🔴 #1029 : Make ACR3 slide in graphics view
- 🔴 #1030 : Unnecessary head changes on ChangeTool
- 🟡 #1031 : Graphics background colour
- 🟡 #1032 : Builder background colour
- 🔴 #1033 : Clean up probe code

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185 items outstanding

with 25 awaiting QC

with 1 show stoppers

EZlink\_errors

- 🔴 #1 : UCC1 4209

- #2 : CMM 5001
- #3 : CMM 5002
- #4 : CMM 5003
- #5 : CMM 5004
- #6 : CMM 5005
- #7 : CMM 5006
- #8 : CMM 5007
- #9 : CMM 5008
- #10 : CMM 5009
- #11 : CMM 5010
- #12 : CMM 5011
- #13 : CMM 5012
- #14 : CMM 5013

**14 items outstanding**