

CHECKMATE APPS

CHANGES, ENHANCEMENTS, BUG FIXES

Note: Version is all changes that have happened since the last Check for Update Release NovV900 – Version 777 and older not changed.

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Calypso (see table below for supported entities)

Version 900

Enhancements

- added support for indirect construction of free form surface from single BF feature
- improved handling of range references like Circle1(1-18)
- added support constructed circle from cone-cone intersection
- added support for nested features (free-form surface option quirk?)
- free form surface measurements use nominal path definition. Actual Calypso path can be quite different particularly near sharp corners.
- all scans on cones are now curve scans

Bug Fixes

- fixed recursion problem with Calypso surface option
- construction of line from circle/circle/line explodes to circle/circle/circle/circle
- removed reordering of constructions to ensure first feature was a feature actual for LK, Modus and derivatives (feature actual is created from feature nominal)

Version 777

Enhancements

- patterns with features not flat to the pattern defining plane are checked against actual and rotated to the nearest 5 degrees.
- attempt to create base alignment is done after each feature measurement until successful, previously base alignment must be explicitly referenced
- cone TOL/POS now 3D instead of 2D
- patterns with features not flat to the pattern defining plane are now rotate-copied around the pattern instead of just being copied.
- added CAL file per feature option
- RETRIEVE construction of circles from circles are now BF points
- text element now use text body if the the text object element name is the default TextElement#, otherwise the name is used. If the comment is populated it is used.
- tolerances which reference the base alignment will cause the base alignment to be created (if necessary), the base alignment is taken to be the alignment with name ending in -BS
- TOL/POS on cylinders and spheres now 3D
- #OMCFProfileOfALine now supported TOL/PROFL instead of TOL/PROFS
- MAXDEV modifier added for TOL/PROFS and TOL/PROFL
- Default angle tolerance of ± 99 now in degrees, not radians
- detection of need for feature redefinition for CORTOL improved
- parentheses inside single quotes now ignored when determining () nesting level
correcting problem found with unpaired () in HLL if statements

- added support for OMGeoRadialPoint as a single point surface measurement
- added support for constructed sphere
- moved algorithm assignment so feature algorithm at measurement is based on the first tolerance output, not the first tolerance definition encountered
- at output the original Calypso nominal is compared to the feature nominal and if different the feature is redefined before output of a TOL/CORTOL (learn mode programming leading to differences in feature nominals and tolerance nominals?)
- use EVAL/FA instead of EVAL/FA(),T() for algorithms changes

Bug Fixes

- fixed issue with projected direction vector auto-detect for features not in coordinate systems aligned to the base alignment (CAD world)
- Fixed issue with machine speeds being corrupted
- INNER/OUTER missing from some feature redefinitions fixed
- CORTOL correction re-instated, somehow lost when EVAL change made
- corrected fault with dummy tolerance like +/-999 coming in as +999/-99
- corrected issue with touch point measurements being output as scans if touch pointpath was preserved
- corrected fault with plane measurements with single scan

QIF

Version 900

Enhancements

- added DMIS report load by NONE support for FEAT/ARC
- added DMIS report load by NONE support for DATDEF
- capture and report features used in DISTB and ANGLB

Bug Fixes

- units in DMIS input corrected to use UNITS/ statement
- QIF units match DMIS input units
- line actual corrected to populate Direction element instead of Nominal element
- fixed issue with empty feature ids set
- fixed distance between label issue
- OVERWRITE on command line will overwrite existing QIF document of same name
- extension for QIF Results now QIF instead of XML

Version 777

Enhancements

Bug Fixes

PC-DMIS

Version 900

Enhancements

Bug Fixes

Version 777

Enhancements

- added support for BASIC_SCAN_OBJECT as a stand-alone entity (if it has an ID)
- added simplified defaults dialog
- added support for reverse line construction

Bug Fixes

- fixed issue with 0 length and width on contact slots
- circle measurements now corrected by removing extraneous beginning points if number of target points greater than the N_HITS value
- trailing spaces are now stripped from all "ID" and "REF_ID" labels because of extraneous mismatched caused by trailing spaces in one but not the otherD.

CMEngine

Version 900

Enhancements

- added support for OGP MeasureMind reports
- added -OUTNAME parameter to be followed by name of output file as next parameter, otherwise the output file name is based on input file name

Bug Fixes

- corrected issue with LK/Nikon/Modus radius results loading
- fixed issue with respect to processing PC-DMIS results columns (array overrun)

Version 777

Enhancements

- polar coordinate tolerances now output for features measured as Cartesian

Bug Fixes

Calypso supported Entities.

Supported nominal types:	Supported tolerance types:
OMGeoPlane	OMCFDistanceRec
OMGeoPoint	OMCFRunoutRadial
OMGeo2Planes	OMCFRunoutTotal
OMGeoCylinder	OMCFabsolute
OMGeoSlot	OMCFReadUniToleranceLen
OMGeoFreeformSurface	OMCFPosition
OMGeoSphere	OMCFAngle
OMGeoTorus	OMCFRoundness
MGeoLine3d	OMCFFlatness
OMGeoCone	OMCFProfile
OMGeoCurve	OMCFPerpendicularity
OMGeoCircle x362	OMCFParallelism
	OMCFDistance2d
Supported construction types:	OMCFSpaceNetPoint
OMGeoTheoretical	OMCFAngularity
OMGeoRecallPoints	OMCFCoaxiality
OMGeoRecall	OMCFConcentricity
OMGeoSym	OMCFCurveForm
OMGeoProjection	OMCFCylindricity
OMGeoIntersect	OMCFZoneFlatness
OMGeoPerp	OMCFStraightness
OMGeoVectorOffset	OMCFDistanceRec
OMGeoConeAdd x365	OMCFRunoutRadial