



Check-Mate –

Helping your designers really follow your design standards

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Agenda

- ▶ Interactive Check-Mate
- ▶ Configuring Check-Mate to Maximize User Productivity
- ▶ Check-Mate Viewer / Quality Dashboard
- ▶ Using Check-Mate in Batch
- ▶ Check-Mate inside Teamcenter



Agenda

- ▶ Interactive Check-Mate
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- ▶ Check-Mate inside Teamcenter



Demonstration

Q: Is it worth it for me to spend some time configuring Check-Mate for my site?

A: Let's see the difference:

- ▶ OOTB Interactive Check-Mate
- ▶ Configured Interactive Check-Mate



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Using Environment Variables

`UGCHECKMATE_CONFIG=${UGCHECKMATE_DIR}\ugcheckmate.dat`

UGCHECKMATE_USER_DIR

`UGII_CHECKMATE_LOG_DIR`

(better direction of checks and output...)

`UGCHECKMATE_ALLOW_CHECKER`

`UGCHECKMATE_HIDE_CHECKER`

UGCHECKMATE_ALLOW_CATEGORY

`UGCHECKMATE_HIDE_CATEGORY`

(tailor visibility of checks and categories in Run dialog...)

UGII_CHECKMATE_DEFAULT_CHECKER

`UGII_CHECKMATE_ALLOW_AUTO_RUN`

(Pre-configuration and/or enforcement of user workflow...)

`UGCHECKMATE_MAX_DISPLAY_ENTITIES`

`UGCHECKMATE_MAX_LOG_ENTITIES`

(limit results in case they get out of hand...)



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New Screen at Startup

The older, more static **Check-Mate Viewer**

Great for:

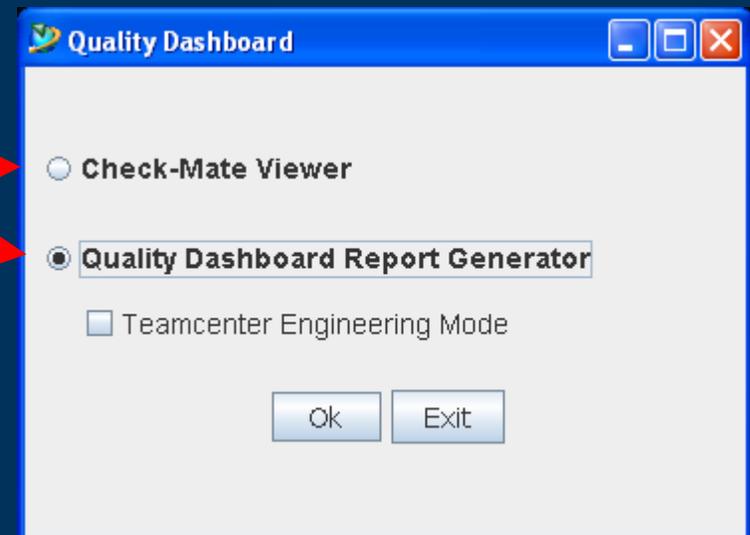
- Quickly looking at ALL data
- Simple pre-formatted results

The newer, more flexible **Quality Dashboard**

Great for:

- Custom HTML reports
- Filtered results data
- Reporting on specific parts
- Reporting on specific checks
- Reading TcEng results!

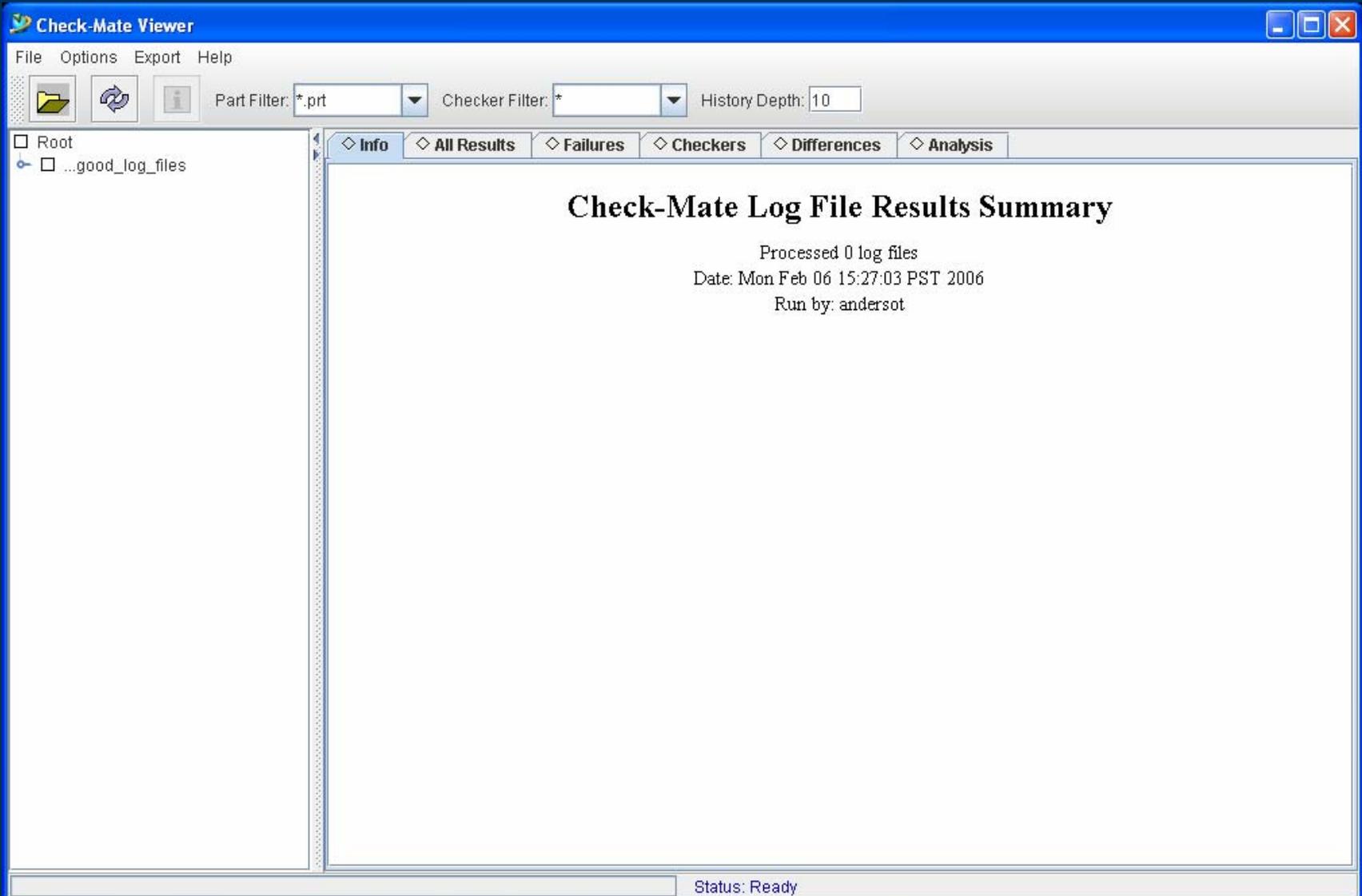
Both apps require
Java Run-Time Environment **1.4.2**
(JRE) or better available at
<http://www.java.com>.



Neither app requires any NX licensing.
TcEng mode will use a TcEng license.



Check-Mate Viewer





Check-Mate Viewer

Check-Mate Viewer

File Options Export Help

Part Filter: *.prt Checker Filter: * History Depth: 10

Root
...good_log_files

Check-Mate Log File Results Summary

Processed 0 log files
Date: Mon Feb 06 15:27:03 PST 2006
Run by: andersot

Search Directories

Search Paths

D:\andersot\demonstrations\UG_N...

Path

Browse...

Include subdirectories

Ok Cancel

Status: Ready



Check-Mate Viewer

Check-Mate Viewer

File Options Export Help

Part Filter: *.prt Checker Filter: * History Depth: 10

Root
...good_log_files

Info All Results Failures Checkers Differences Analysis

Check-Mate Log File Results Summary

Processed 0 log files
Date: Mon Feb 06 15:27:03 PST 2006
Run by: andersot

Search Directories

Search Paths

D:\landersot\demonstrations\UG_N...

Path

Browse...

Include subdirectories

Ok Cancel

Status: Ready

Tabbed results display based on the **entire** contents of a folder or folders on the **operating system**.



Check-Mate Viewer Info Tab

Check-Mate Viewer

File Options Export Help

Part Filter: *.prt Checker Filter: * History Depth: 10

Root
...good_log_files

Check-Mate Log File Results Summary

Processed 8 log files
Date: Mon Feb 06 15:32:34 PST 2006
Run by: andersot

System Totals		
Parts: 5	Tests: 1020	Errors: 22
Warnings: 5	Info Msgs: 30	Overrides: 0

Overall Testing Results

Number of parts that pass 0 Number of parts with warnings 5
Number of parts that fail 3 Number of parts that have info 5

Part Results Summary

Part Name	Pass	Fail	Warning	Info
1K070-073V-001_1k070_.prt	37	0	1	1
1a036-364v-001.prt	37	0	1	1
1e433-003.prt	36	1	1	1
1hn76-001.prt	36	1	1	1
2a004-119v-001_j6.prt	35	2	1	1

Status: Ready



Check-Mate Viewer All Results Tab

File Options Export Help

Part Filter: *.prt Check Filter: * History Depth: 10

Root
...good_log_files

Info All Results Failures Checkers Differences Analysis

- Root
 - 1K070-073V-001_1k070_.prt
 - 1a036-364v-001.prt
 - 1e433-003.prt
 - B-spline surfaces with knot problems
 - Check Drafting up-to-date
 - Check Empty Groups Existence
 - Check Existence of Promoted Body
 - Check Required Reference Sets
 - Check unparameterized bodies
 - Data structures
 - Degenerate natural boundary
 - Faces/Topology - Spike/Cut Angle
 - Gap/Overlap
 - Identical Curves
 - Identical/Embedded Solids
 - Maximum face patch count
 - Maximum polynomial degrees of Curves

Results display much like inside NX, showing all pass, warning and error results.

Dates of multiple runs can also be shown.

Checker: Check Existence of Promoted Body

Current Status: Pass

Number of Runs: 6 Errors: 0 Success Rate: 100%

Test date: Thu Jun 20 12:29:34 PDT 2002
No errors or warnings

Test date: Tue Jun 18 12:44:39 PDT 2002
No errors or warnings

Status: Ready



Check-Mate Viewer Failures Tab



Check-Mate Viewer

File Options Export Help

Part Filter: *.prt Checker Filter: * History Depth: 10

Root
...good_log_files

Info All Results Failures Checkers Differences Analysis

- Root
 - 1e433-003.prt
 - 1hn76-001.prt
 - 2a004-119v-001_j6.prt
 - Maximum face patch count
 - Validate grid lines (u,v) values set to (0,0) for all faces

Checker: Validate grid lines (u,v) values set to (0,0) for all faces

Current Status: Error

Number of Runs: 7 Errors: 4 Success Rate: 42%

Test date: Thu Jun 20 12:29:34 PDT 2002
ERROR: Grid lines (u,v) values are not set to (0,0) for all faces.
Grid lines (u,v) values are not set to (0,0) for the following 2 faces:

Test date: Tue Jun 18 12:44:39 PDT 2002
No errors or warnings

Status: Ready

Displays only errors in the latest run. Gives the most up-to-date appraisal of the state of the design.



Check-Mate Viewer Checkers Tab



Check-Mate Viewer

File Options Export Help

Part Filter: *.prt Checker Filter: * History Depth: 10

Root
...good_log_files

Info All Results Failures **Checkers** Differences Analysis

- Root
 - Pass
 - Warning
 - Check Required Reference Sets
 - Failed
 - Maximum face patch count
 - Validate grid lines (u,v) values set to (0,0) for all faces**
 - Validate hidden line display set to visible
 - Info

Checker: Validate grid lines (u,v) values set to (0,0) for all faces

Parts which have failed this test

Part: 2a004-119v-001_j6.prt

Test date: Thu Jun 20 12:29:34 PDT 2002

ERROR: Grid lines (u,v) values are not set to (0,0) for all faces.
Grid lines (u,v) values are not set to (0,0) for the following 2 faces:

Status: Ready

Lists results by checker for another view into the data.



Check-Mate Viewer Differences Tab



File Options Export Help

Part Filter: *.prt Checker Filter: * History Dept: 0

Root
...good_log_files

Info All Results Failures Checkers Differences Analysis

Root
2a004-119v-001_j6.prt

Part 2a004-119v-001_j6.prt

Tests that now Fail

Validate grid lines (u,v) values set to (0,0) for all faces had passed on Tue Jun 18 12:44:39 PDT 2002

Status: Ready

Lists changes in the latest run:
GREEN when things have gotten fixed
and
RED when things have gotten worse



Check-Mate Viewer Analysis Tab

Provides some aggregate results showing checks that are failing (and passing) most frequently.

(This area is great for determining future training needs for the group.)

Check-Mate Quality Analysis

Checks with the highest failure rate (Current)

Name	%
Validate hidden line display set to visible	40
Maximum face patch count	20
Validate grid lines (u,v) values set to (0,0) for all faces	20

Checks with the highest failure rate (Overall)

Name	%
Validate hidden line display set to visible	34
Maximum face patch count	20
Validate grid lines (u,v) values set to (0,0) for all faces	11

Checks with the highest passing rate (Current)

Name	%
B-spline surfaces with knot problems	100
Check Drafting up-to-date	100

Status: Ready

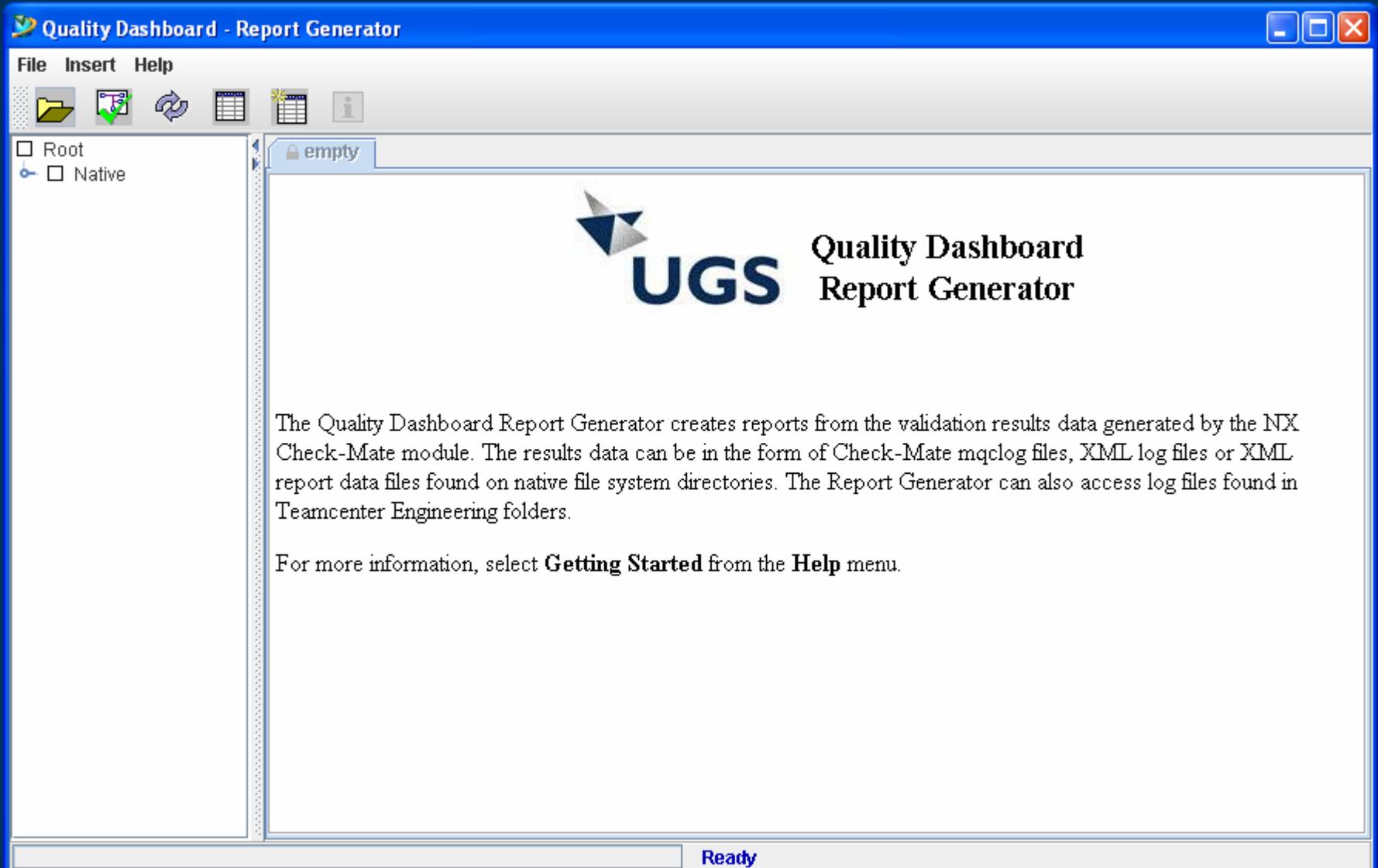


Check-Mate Viewer Summary

- ▶ Static rendition of results data
- ▶ Pre-formatted into tabbed results
- ▶ Aggregation of all logs in an OS folder
- ▶ Cannot be used with TcEng
- ▶ Quick and easy... set the search path(s) and go.



Quality Dashboard





Quality Dashboard Search Paths

The screenshot shows the 'Quality Dashboard - Report Generator' application window. A red arrow points to the 'Add' icon (a folder with a plus sign) in the toolbar. The 'Search Directories' dialog box is open, displaying a list of directories for search. The 'Log files' dropdown menu is expanded, showing options: 'Log files', 'TCE', 'Images', and 'Reports'. The 'Log files' option is currently selected. The dialog also includes a 'Path' text box, a 'Browse...' button, an 'Include subdirectories' checkbox, and 'Ok' and 'Cancel' buttons. The status bar at the bottom of the application window shows 'Ready'.



Quality Dashboard Report Templates

The screenshot shows the 'Quality Dashboard Report Generator' application window. The title bar reads 'Quality Dashboard Report Generator'. The menu bar includes 'File', 'Insert', and 'Help'. A red arrow points to the 'Insert' menu icon in the toolbar. The left sidebar shows a tree view with the following structure:

- Root
 - Native
 - ...good_log_files
 - ...IAI_logs

The main area of the application is currently empty. A dialog box titled 'Insert Existing Report' is open in the foreground. It contains a list of report templates:

- Feature Testing (treport.qdr)
- Update All Features (uafreport.qdr)
- TBA Results (TBA_Results.qdr)

Below the list is a 'Description' field containing the text 'Taylor's Template 01'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

At the bottom right of the application window, the status bar displays 'Ready'.



Quality Dashboard Parts Filtering



Quality Dashboard - Report Generator

File Insert Help

Root
Native
...good_log_files
...IAI_logs

Filter Settings

Filters

Part Filter: *

Checker Filter: *

Attributes

Attribute 1:

Attribute 2:

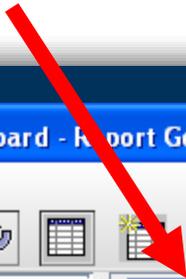
Attribute 3:

OK Cancel

Ready



Quality Dashboard Results Display



Quality Dashboard - Report Generator

File Insert Help

Root

- Native
- ...good_log_files
- ...IAI_logs

TBA Results

Company X Model Quality Report

Parts	Checks
441	1323

Validate WCS set to Absolute (ACS)

Category	Percentage
Pass	73 %
Fail	26.9 %

Check Existence of Promoted Body

Category	Percentage
Pass	96.5 %
Fail	3.4 %

Ready



Editing Report Template

Quality Dashboard - Report Generator

File Insert Help

Root
Native
...good_log_files
...IAI_logs

TBA Results

- Edit
- Update Report
- Lock/Unlock
- Export HTML
- View HTML
- Export XML
- Close

Company X Model Quality Report

Parts	Checks
441	1323

Validate WCS set to Absolute (ACS)

Category	Percentage
Pass	73 %
Fail	26.9 %

Check Existence of Promoted Body

Category	Percentage
Pass	96.5 %
Fail	3.4 %

Ready



Configurable Reporting Blocks

Report Editor

Report Title: TRA Results

Description: Taylor's Template 01

Fixed Format Element
 User Defined Format Elements

Rows: 7
Columns: 3

Separator
Image
b Header
i General Info
Annotation
Text
Checker % Rate
Profile % Rate
Part % Rate
Test Results
UAF Info
General Info Trend
UAF Summary
PRT Organize by Parts
Organize by Checkers

A	B	C
	b	
Image	Header	General Info
==	←	←
Separator		
Test Results	Test Results	
==	←	←
Separator		
◆	←	←
Organize by Chec...		
==	←	←
Separator		

Save Save As Update Re... Ok Cancel

any X Model Quality Report

Parts	Checks
441	1323

Existence of Promoted Body

3.4 %

Ready



Configurable Reporting Blocks

The Report Editor interface is shown with a grid of reporting blocks. The grid has three columns labeled A, B, and C, and seven rows. The blocks are:

Row	Column A	Column B	Column C
1	Image	Header	General Info
2	Separator	←	←
3	Test Results	Test Results	
4	Separator	←	←
5	Organize by Check...	←	←
6	Separator	←	←
7			

The preview window shows a report titled "any X Model Quality Report". It contains a table with the following data:

Parts	Checks
441	1323

Below the table is a 3D pie chart with a green slice labeled "3.4 %".

Red arrows indicate the mapping of blocks from the grid to the report: "Image" maps to the report title, "Header" maps to the report title, "General Info" maps to the table, "Test Results" maps to the pie chart, and "Organize by Check..." maps to the pie chart.



Editing a Reporting Block

Report Editor

Report Title: TRA Results

Description: Taylor's Template 01

Fixed Format Element (unselected)

User Defined Format Elements (selected)

Rows: 7

Columns: 3

Separator (selected)

Image (selected)

Header (selected)

General Info (selected)

Annotation (selected)

Text (selected)

Checker % Rate (selected)

Profile % Rate (selected)

Part % Rate (selected)

Test Results (selected)

UAF Info (selected)

General Info Trend (selected)

UAF Summary (selected)

Organize by Parts (selected)

Organize by Checkers (selected)

Buttons: Save, Save As, Update Re..., Ok, Cancel

any X Model Quality Report

Parts	Checks
441	1323

Existence of Promoted Body

3.4 %

Ready



Editing a Reporting Block

The screenshot displays the 'Report Editor' application window. On the left is a sidebar with various report elements: Report Title (TRB Results), Description (Taylor's Template 01), and a list of elements including Fixed Format Element, User Defined Format Elements, Rows (7), Columns (3), Separator, Image, Header (selected), General Info, Annotation, Text, Checker % Rate, Profile % Rate, Part % Rate, Test Results, UAF Info, General Info Trend, UAF Summary, Organize by Parts (PRT), and Organize by Checkers. The main area shows a report preview with columns A, B, and C. Column A contains an image, B contains the letter 'b', and C contains an information icon. A 'Header Editor' dialog box is open, showing settings for Vertical Alignment (Middle), Horizontal Alignment (Center), Text Size (Very Large (H1)), Color (black), Bold (checked), and Italic (unchecked). The HTML Text field contains 'Company X Model Quality Report'. The dialog has OK and Cancel buttons. In the background, a table titled 'Quality' is visible with columns 'Parts' and 'Checks', containing values 441 and 1323 respectively. The status bar at the bottom indicates 'Ready'.



Editing another Reporting Block

The screenshot shows the 'Report Editor' window with a grid of reporting blocks. The grid has 7 rows and 3 columns (A, B, C). The blocks are as follows:

Row	Column A	Column B	Column C
1	Image	Header	General Info
2	Separator	←	←
3	Test Results	Test Results	
4	Separator	←	←
5	Organize by Chec...	←	←
6	Separator	←	←
7			

A context menu is open over the 'Test Results' block in row 3, column B, with options: Edit, Delete, and Span. A red arrow points from this menu to a 3D pie chart in the background report. The pie chart is green with a small red slice labeled '3.4 %'. Above the pie chart is a table:

Parts	Checks
441	1323

The background report title is 'any X Model Quality Report'. Below the pie chart is the text 'Existence of Promoted Body'. The 'Report Editor' window has a sidebar with a list of reporting blocks: Separator, Image, Header, General Info, Annotation, Text, Checker % Rate, Profile % Rate, Part % Rate, Test Results, UAF Info, General Info Trend, UAF Summary, Organize by Parts, and Organize by Checkers. At the bottom of the 'Report Editor' window are buttons: Save, Save As, Update Re..., Ok, and Cancel.



Editing another Reporting Block

The screenshot displays the 'Report Editor' application window. On the left, a sidebar lists various report elements: Report Title (TRB Results), Description (Taylor's Template 01), and a list of format elements including Fixed Format Element, User Defined Format Elements, Rows (7), Columns (3), Separator, Image, Header, General Info, Annotation, Text, Checker % Rate, Profile % Rate, Part % Rate, Test Results, UAF Info, General Info Trend, UAF Summary, Organize by Parts (PRT), and Organize by Checkers. The main area shows a grid with columns A, B, and C, and rows containing elements like 'Image', 'Separator', 'Test Res', 'Separator', 'Organize by', and 'Separator'. A 'Test Results Editor' dialog box is open in the center, with the following settings: Vertical Alignment: Middle, Horizontal Alignment: Center, Display Mode: 3D Pie..., Width (pixels): 300, Height (pixels): 300. The 'Checkers' list includes 'Validate hidden line display s', 'Validate WCS set to Absolute', and 'Check Existence of Promote'. The 'Profiles' list includes 'Session'. At the bottom of the dialog are 'OK' and 'Cancel' buttons. The background report shows a table with 'Parts' (441) and 'Checks' (1323), and a 3D pie chart. The status bar at the bottom indicates 'Ready'.



Editing another Reporting Block

The screenshot shows the 'Report Editor' application window. On the left is a sidebar with various report elements like 'Image', 'Header', 'Text', and 'Test Results'. The main area displays a grid with columns A, B, and C. A 'Test Results Editor' dialog box is open, showing settings for 'Vertical Alignment' (Middle), 'Horizontal Alignment' (Center), and 'Display Mode' (3D Pie Chart). A dropdown menu is open under 'Display Mode', listing 'Table', '2D Pie Chart', and '3D Pie Chart'. The 'Table' option is selected. Below the dialog, a table is visible with the following data:

Parts	Checks
441	1323

At the bottom of the Report Editor window, there are buttons for 'Save', 'Save As', 'Update Re...', 'Ok', and 'Cancel'. The status bar at the very bottom indicates 'Ready'.



Editing another Reporting Block

Report Editor

Report Title: TRA Results
Description: Taylor's Template 01

Fixed Format Element
 User Defined Format Elements

Rows: 7
Columns: 3

Separator
Image
b Header
i General Info
Annotation
Text
Checker % Rate
Profile % Rate
Part % Rate
Test Results
UAF Info
General Info Trend
UAF Summary
PRT Organize by Parts
Organize by Checkers

A	B	C
	b Header	
== Separator	←	←
 Test Results	 Test Results	
== Separator	←	←
◆ Organize by Chec...	←	←
== Separator	←	←

Save Save As Update Re... Ok Cancel

any X Model Quality Report

Parts	Checks
441	1323

Existence of Promoted Body

3.4 %

Ready



Export Results to HTML

Quality Dashboard - Report Generator

File Insert Help

Root
Native
...good_log_files
...IAI_logs

TBA Results

Company X Model Quality Report

Parts	Checks
441	1323

Validate WCS set to Absolute (ACS)

Category	Percentage
Green	73 %
Red	26.9 %

Check Existence of Promoted Body

Category	Percentage
Green	96.5 %
Red	3.4 %

Export HTML

Ready



Results Viewed in HTML Browser

TBA Results - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address C:\Documents and Settings\andersot\Desktop\060207_ASIG_Report.html Go Links

Google Search

Company X Model Quality Report

Parts	Checks
441	1323

Validate WCS set to Absolute (ACS)

Category	Percentage
Pass (Green)	73 %
Fail (Red)	26.9 %

Check Existence of Promoted Body

Category	Percentage
Pass (Green)	96.5 %
Fail (Red)	3.4 %

Done My Computer



Quality Dashboard / Check-Mate Viewer Side-by-side

Check-Mate Viewer

- ▶ Static formatting of results data
- ▶ Pre-formatted into tabbed results
- ▶ Aggregates results of all logs that reside in one or more OS folders
- ▶ Shows all results
- ▶ Cannot be used with TcEng
- ▶ Quick and easy...
Set the search path(s) and go.

Quality Dashboard

- ▶ Formatting entirely determined by the user
- ▶ HTML-based page layout for easier printing
- ▶ Use filters or report formatting to collect desired parts and/or checks
- ▶ Results can be filtered
- ▶ Can read/write results directly to/from TcEng or the OS
- ▶ A little more setup...
Set the search paths, create report templates, and go. 😊



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Using Batch Mode (ug_check_part)

```
...  
set UGII_BASE_DIR= ...  
set UGII_ROOT_DIR= ...  
set UGII_SITE_DIR= ...  
set UGII_CHECKMATE_USER_DIR= ...
```

} Run within NX environment...

```
set UG_CHECKMATE_DEFAULT_CHECKER=Company_X_Design_Profile  
set PARTS_TO_INSPECT_DIR=C:\Check-Mate\parts_to_check  
set LOG_FILE_DESTINATION_DIR=C:\Check-Mate\logs
```

(no .dfa)

```
%UGII_BASE_DIR%\ugchec~1\ug_check_part.exe  
-checker %UG_CHECKMATE_DEFAULT_CHECKER%  
-log_dir %LOG_FILE_DESTINATION_DIR%  
-part_dir %PARTS_TO_INSPECT_DIR% %*
```

(fire up Check-Mate in batch)



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Check-Mate Inside Teamcenter Engineering

Just to clarify the software versions:

- ▶ NX 3.0.3.2 +
- ▶ TcEng 9.1.2.8 +



Validation Results Stored in TcEng: The Validation Master Form

The screenshot displays the Teamcenter P10.0.0.10 interface. The main window shows the 'Validation Master Form' with a 'Compound Result: PASS' and a table of validation results. A red arrow points to the 'Validation Master Form' in the left-hand tree view. Another red arrow points to the 'Open' button in the 'Validation Master Form' dialog box, which is also highlighted with a red box. A third red arrow points from the 'Open' button to the 'Named References' dialog box, which is also highlighted with a red box.

Validation Master Form - Compound Result: PASS

Target	Validation	Application	!!!Folder ...	User	Date	Result
000024-A	mqc_check_body_consiste...	NX	Checkmate	Wu Yunfei	14-Feb-2005 0...	Pass
000024-A	mqc_check_body_ff_inters...	NX	Checkmate	Wu Yunfei	14-Feb-2005 0...	Pass
000024-A	mqc_check_body_structure	NX	Checkmate	Wu Yunfei	14-Feb-2005 0...	Pass

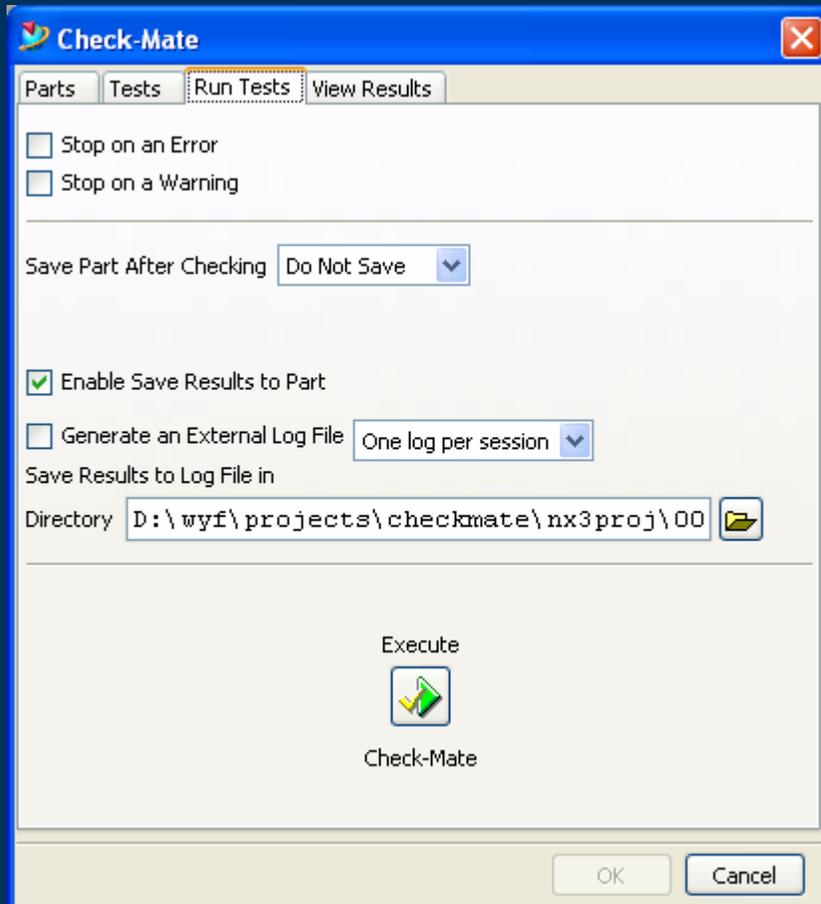
Named References

Reference	Name	Size	Type	Last Modified	Y
Text	2005Feb03113014.mqlog	1068 bytes	InarFile	03-Feb-2005 11:30	publ

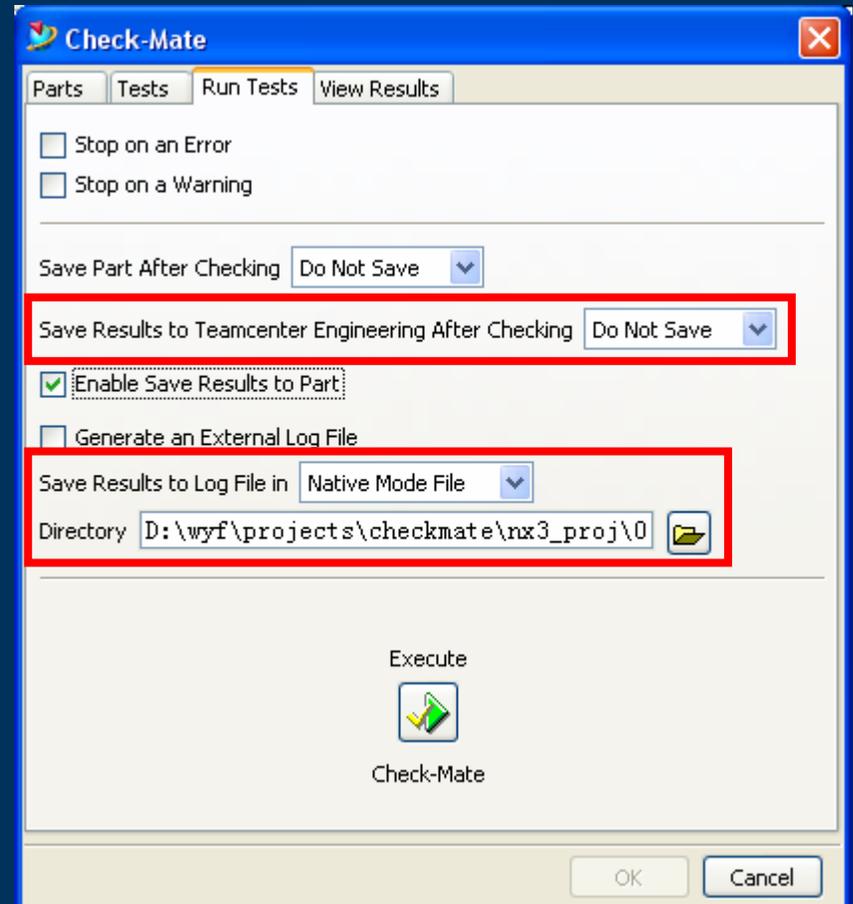


Check-Mate Access to TcEng from NX

Running in native mode...



Running in NX/Manager mode...





Check-Mate Access to TcEng from NX

▶ Interactive options



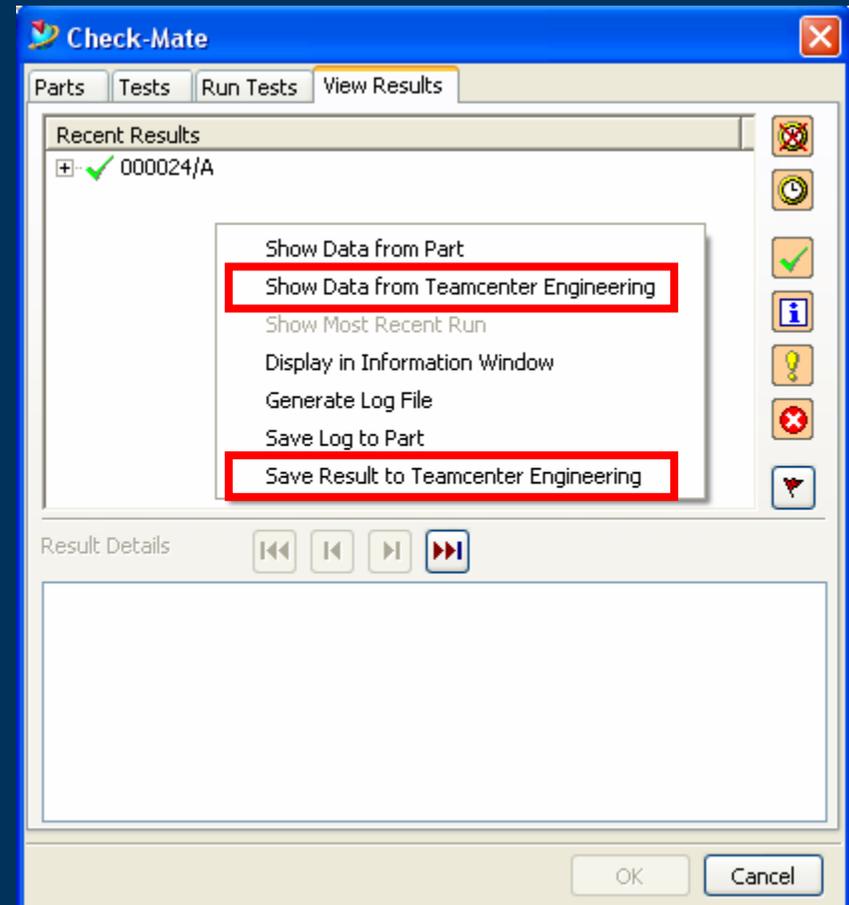
▶ Command Line
`ug_check_part`
(batch) options:

`-read_result_from_tc`

(optional) Read the result previously saved in Teamcenter.

`-save_result_to_tc`
`< always | if_passed >`

(optional) Save the results to Teamcenter. Either always save, or save only if the check is passed.





Validation Results Stored in TcEng: The Validation Master Form

The screenshot shows the Teamcenter P10.0.0.10 interface. The main window displays a tree view of objects under 'Home'. A red arrow points to the 'Validation Master Form' object. The 'Validation Master Form' dialog box is open, showing a 'Compound Result: PASS' and a table of validation results.

Target	Validation	Application	!!!Folder ...	User	Date	Result
000024-A	mqc_check_body_consiste...	NX	Checkmate	Wu Yunfei	14-Feb-2005 0...	Pass
000024-A	mqc_check_body_ff_inters...	NX	Checkmate	Wu Yunfei	14-Feb-2005 0...	Pass
000024-A	mqc_check_body_structure	NX	Checkmate	Wu Yunfei	14-Feb-2005 0...	Pass



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- ▶ Check-Mate inside Teamcenter



Thank You!

Taylor Anderson

NX Product Manager for Knowledge Fusion, DesignLogic and Validation

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