Trakka 4.1.0 Release Notes

Revision Date: January 21, 2015

PDF File Version: v01

This document summarizes the changes to Trakka in Version 4.1.0.

Click links in the following table for details about product changes:

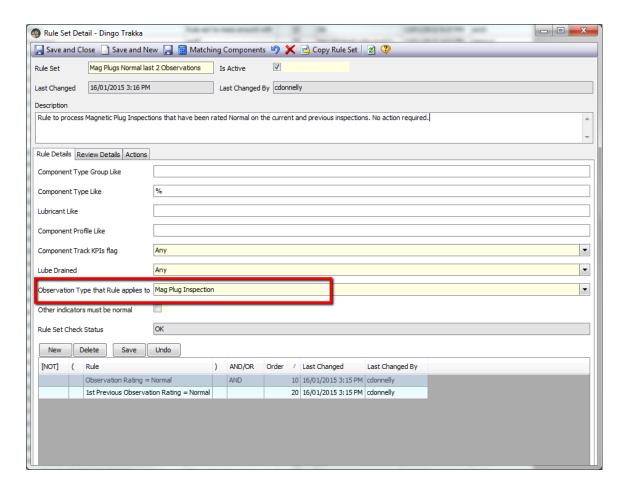
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Condition Intelligence Module

Added Observation Type Designation

Trakka 4.1.0 includes the new option to designate the Observation Type that a Rule Set applies to in the Condition Intelligence Module. This allows Rules to be setup that are specific to a certain Observation Type. For example a different rule can now be setup to process Magnetic Plug Inspections that doesn't apply to Fluid Analysis samples. The Observation Type will default to Fluid Analysis for all new Rule Sets and should be edited as required when creating new Rules.



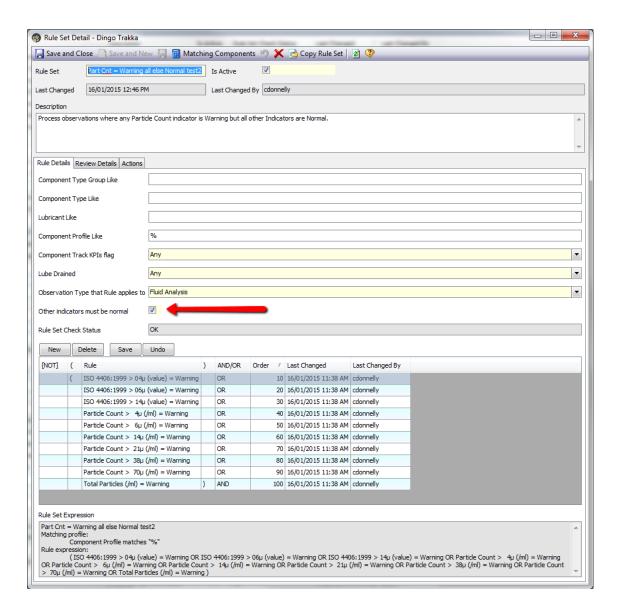
The Indicators available in the Rule Expression area are not limited by this Observation Type but the Rule Set Check Status field will indicate if an invalid Indicator has been used in the Rule Set.



New "Other Indicators Must be Normal" Option

A new checkbox has been added to the Rule Detail form to aid in rule construction. The checkbox titled "Other Indicators Must be Normal" is turned OFF by default. When turned ON it adds another clause to the Rule stating that outside of the Indicators listed in the Rules below, all other Indicators must be either Normal, Unrated (no alerts set) or not tested (no value). So in the example below the Rule will trigger if only the Particle Count indicators listed are = Warning but all other possible Indicators resolve to be "Normal" as described above. If anything else was = Warning or Critical this Rule would not trigger.

This function would be effective when constructing rules that process Observations where only one or a few Indicators could be abnormal but without other issues, no corrective actions would be necessary such as the example below.

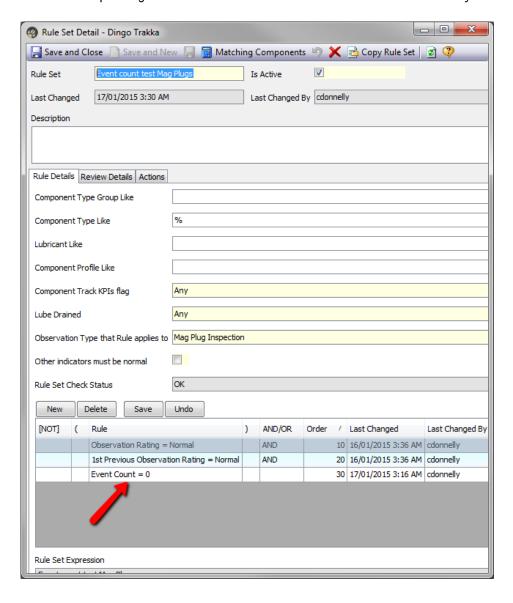




New Event Count Indicator

A new Indicator, Event Count has been added for use in Rule Sets and Trending. This new indicator displays the number of Component Events (not observations) that exist for the component, since the date of the previous observation of the same type (Mag Plug, Fluid Analysis). It is useful in determining if observations can be reviewed at face value (Event Count = 0). If events do exist in recent history they should be considered in any observation review.

The example below is checking if the Observation Rating = Normal for the current and previous observation and there have been no events since the previous sample. The Event Count indicator is a cumulative value, if you trend the value for Observations many months or years in the past the Event Count could be quite high as it counts all events from the Observation until today.

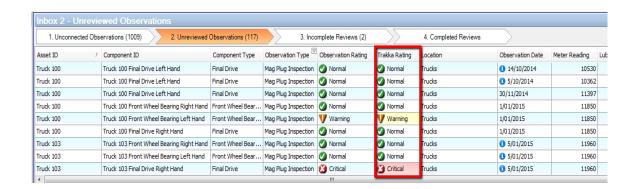




Trakka Rating Populated For Observations with no Data

The Trakka Rating for Observations that don't have an Indicator data is now set as the Observation Rating as there is no facility to calculate a Trakka Rating. These Observations are typically Mag Plug, Filter and Visual Inspections but can be other types as well where only a header of the Observation is needed so a Review can be created.

As Trakka imports these Observations from a Data Connection, CSV Import or Create Observations wizard, it will automatically assign the Observation Rating to the Trakka Rating field. As will all Observations the Assigned Condition Rating is still set via the Review process so the opportunity to set condition of the Observations is not lost.





Reviews

Trakka 4.1.0 includes the following enhancements to the Reviews area to speed up the processing time of each Review:

Only Visible Docking Panel Data is Fetched from Server Initially

To reduce the amount of data requested and processes run each time a new record is selected in the Inbox, Asset Tree or Component Grids, only visible docking panels will be loaded with data initially. If the Results, Trends and Summary tabs are the only docking panels you have docked with data visible, then only these tabs will be loaded with data as you move between records in the master grid control (Inbox, Component Grid etc). This will reduce the time taken to load the docking panels and importantly the time taken between completing one review and the review form opening for the next review (assuming the automatically open next review checkbox is enabled).

Previously data from the Summary, Data List, Results, Reviews and Trends tab were all automatically loaded each time, regardless if they were visible or not.

Review Forms Load Faster

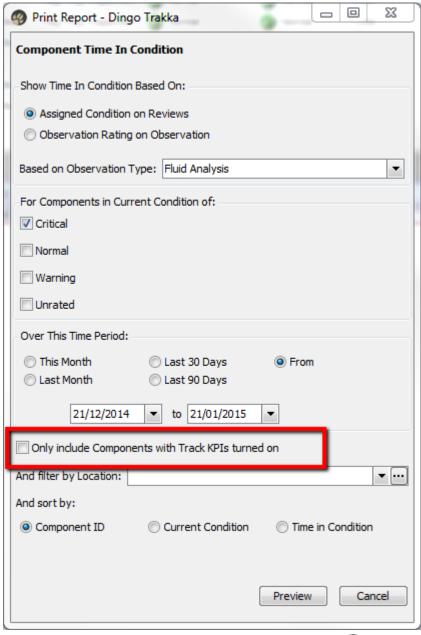
Changes have been made to how quickly the Review form opens for each new record selection. As some data is more important than others in the Review process, the Review form will now open before some secondary data sets, reducing the idle time between reviews. These changes will not alter that data that is presented in Trakka, just the timing of when it appears will alter my milliseconds.



Reports

New Option in "Component Time in Condition" Report

A new option has been added to the Component Time in Condition Report. There is now a checkbox to determine whether Components with the Track KPIs flag are included in the report. Many customers have the Track KPIs flag turned off for non-critical components and aren't concerned about the Time in Condition reporting for those components. This new option now allows the user to control the components that display in the report by using the Track KPIs flag checkbox.





SAP Integration

Notification Request Groups Actions of Same Priority

The SAP Integration Web Service has been updated to modify the way a Notification Request is posted to SAP. For any Review, now all Actions with the same Priority are grouped together to form one Notification Request. This creates efficiency for the planners who now only need to manage one Notification in SAP for work being done at the same time. This will reduce the number of Rejected Actions/Notifications and improve the feedback loop from SAP to Trakka.

SAP Notification Item	5AP400 2015-01-20 16:15:00 5 bmorton (Bruce Morton of Dingo Software Pty Ltd)] [3] [**Change Filters]					
SAP Notification Batch	SAP400 2015-01-20 16:15:00					
Component						
Exported	20/01/2015 4:15 PM					
SOAP Request						
	visible metal and debris, particularly Aluminum flakes. for problems such as overheating, sluggish operation, slipping, missed shift points.					
[ACTION] **Change Filters **Inspect Filters for Deb Further testing/inspection						
[DESCRIPTION]	v					
SOAP Request Sent	20/01/2015 4:15 PM					
SOAP Response						
Content-Length: 299 Content-Type: text/xml; Date: Wed, 21 Jan 2015 Set-Cookie: saplb_*=(pa Path=/, JSESSIONMARKII Server: SAP NetWeaver						
SOAP Response Received	20/01/2015 4:15 PM					
Last Received Long Text [NOTES] Aluminum has increased sharply and is above normal. Aluminum could indicate torque converter wear. The particle count is low at 14/13/9, so the wear particles are very small, < 5 microns in size. Manganese is also slightly above normal. Oil color has changed to black and dark. [RECOMMENDATIONS] In the next week: 1. Change the filters. 2. Inspect the filters for visible metal and debris, particularly Aluminum flakes. 3. Check for transmission for problems such as overheating, sluggish operation, slipping, missed shift points.						
**Change Filters	<u> </u>					
Notification Number	000091268447					
Linked Review Mainto						
	5 bmorton (Bruce Morton of Dingo Software Pty Ltd) **Change Filters 5 bmorton (Bruce Morton of Dingo Software Pty Ltd) **Inspect Filters for Debris 5 bmorton (Bruce Morton of Dingo Software Pty Ltd) Further testing/inspections required					

SAP Notification Items												
Find a list of SAP Notification Items according to the following criteria:												
This Site	Last Month Last 3 Months											
All Sites	○ All			Apply								
Notification Number	SAP Notification Batch	Exported	Revie	SOAP Request	SOAP Request Sent	SOAP Response	SOAP Response Received	Last Received Long Text				
000091269126	SAP400 2015-01-21 08:45:03	21/01/2015 8:45 AM	1	POST	21/01/2015 8:45 AM	HTTP/200 OK	21/01/2015 8:45 AM	[NOTES]				
000091269110	SAP400 2015-01-21 08:35:03	21/01/2015 8:35 AM	1	POST	21/01/2015 8:35 AM	HTTP/200 OK	21/01/2015 8:35 AM	01-21-2015 16:34:54 DINGO_HTTP (DINGO_HTTP)				
000091268462	SAP400 2015-01-20 16:15:00	20/01/2015 4:15 PM	2	POST	20/01/2015 4:15 PM	HTTP/200 OK	20/01/2015 4:15 PM	[NOTES]				
000091268420	SAP400 2015-01-20 16:15:00	20/01/2015 4:15 PM	1	POST	20/01/2015 4:15 PM	HTTP/200 OK	20/01/2015 4:15 PM	[NOTES]				
000091268452	SAP400 2015-01-20 16:15:00	20/01/2015 4:15 PM	1	POST	20/01/2015 4:15 PM	HTTP/200 OK	20/01/2015 4:15 PM	[NOTES]				
000091268448	SAP400 2015-01-20 16:15:00	20/01/2015 4:15 PM	2	POST	20/01/2015 4:15 PM	HTTP/200 OK	20/01/2015 4:15 PM	[NOTES]				
000091268430	SAP400 2015-01-20 16:15:00	20/01/2015 4:15 PM	1	POST	20/01/2015 4:15 PM	HTTP/200 OK	20/01/2015 4:15 PM	[NOTES]				

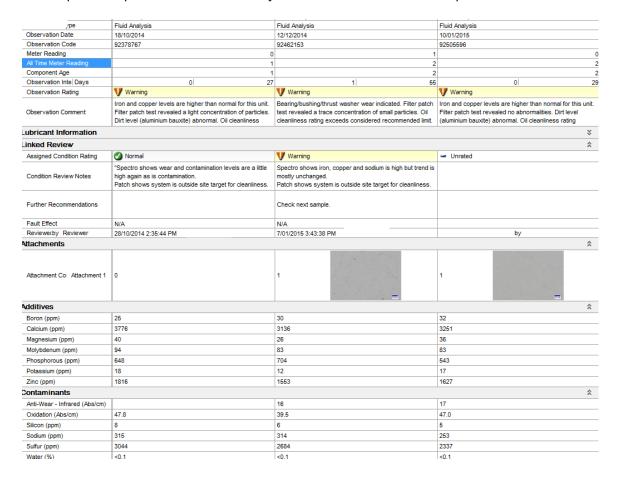
TRAKKA

Data Connections

Trakka 4.1.0 includes the following new Data Connections:

New Interface with ALS Lab – Images Linked to Samples

A new ALS (http://www.alsglobal.com/) data connection has been created that imports an XML file format along with sample or filter patch microscopic images that are linked directly to the fluid samples. This provides and additional layer of visual detail with each sample record.



New Interface with MRG Laboratories – Grease and Oil Analysis

A new interface has been created for the Grease and Oil testing capabilities at MRG Laboratories (http://mrgcorp.com/). We now accept a CSV file from this facility that will automatically load into Trakka.



New Interface with Testoil – Oil Analysis

A new interface has been created for the Oil testing capabilities at Testoil ($\underline{\text{http://www.testoil.com}}$). We now accept a CSV file from this facility that will automatically load into Trakka.

New Interface with SDMyers – Transformer Analysis

A new interface has been created for the Transformer Oil testing capabilities at SDMyersl (https://sdmyers.com). We now accept a zip file containing multiple CSV files from this facility that will automatically load into Trakka.



Other

Advance Notice – Support for Windows XP/2003/Vista and SHA 1 certificates ending in 2015

Please note that certain industry changes that have been imposed on the technology world by Microsoft and others will take effect for Dingo customers in 2015 as follows.

Although Windows XP and Windows 2003 Server have been officially out of support from Microsoft for some time, there are still many corporations and individuals that happily use Windows XP and Windows 2003 without incident. Windows XP and Windows 2003 do not receive any new security or bug fixes, service packs or updates from Microsoft. Microsoft has also ended Mainstream Support for Windows Vista in 2012 and ends Extended Support in 2017.

SHA 1 certificates are no longer available and any certificate that expires from this point forward cannot be renewed as SHA 1. SHA 256 certificates will be the only option moving forward. Dingo will not need to renew its certificates until April 2015 at which time this will become a SHA 256 certificate.

Windows XP and Windows 2003 Server do not fully support SHA 256 and as such we will not be able to deploy Trakka to a Windows XP or Windows 2003 machine when this happens. Furthermore, Dingo has taken a strategic decision to no longer officially support Windows Vista from April 2015 as well. Dingo will only officially support the Trakka product on Windows 7 and above from April 2015.

What is affected: Windows XP, Windows 2003 and Windows Vista operating systems with

SHA 1 Certificates.

Impact: If you upgrade your PC's to run Windows 7 or higher there will be no

impact. If you do not update PC's running Windows XP, Windows 2003 or Windows Vista, the Trakka product will not deploy – Please note that no support will be available from Dingo for Trakka running on any version

of Windows earlier than Windows 7

Timing: April 2015 onwards

