Tango™ RoundsLogging:

Tango[™] RoundsLogging is a function that allows industrial plant technicians to use Smart Phones and Tablets for collecting equipment health information through tasks such as:

- 1. Basic Operator Care Rounds
- 2. Lubrication Routes
- 3. Mechanical or Electrical inspections
- 4. Environmental or Safety inspections
- 5. IR Thermography Condition Assessments
- 6. Ultrasonic condition assessments

The first four activities use RoundsLogging's Process Parameter function for defining appropriate trend and observation points for each asset component, then collecting measurements in the plant via a Smart Phone or Tablet.

The fifth and sixth activities are examples where RoundsLogging works with Tango's Condition Task Assessment process to provide a routing system on a Smart Phone or Tablet for predictive maintenance systems that do not have that capability.

In either RoundsLogging application the information gathered on the Smart Phone or Tablet becomes part of the historical asset health record in Tango, and problem conditions found during the inspections or routes can be escalated to a Condition Entry. All Condition Entries for an asset component, including those from other condition monitoring activities such as vibration analysis, oil analysis, and electrical testing, are posted to Tango's Integrated Condition Status dashboard.

Android[™], IOS[™], or Surface[™] devices may be used for RoundsLogging – the choice is typically driven by brand or cost preference rather than functionality differences. Some begin with a phone for convenience, but there is a preference for the larger screens on tablets.

RoundsLogging – Process Parameters Routes:

There are two types of process parameter measurement points that can be set for asset components in Tango:

- *Observations* are text-based measurements where the technician selects the appropriate value from a predefined list, such as 'Check Oil Level' with options to select 'Overfull, Full, or Low'.
- *Trends* are numeric based measurements such as temperature in deg C, flow rates in GPM, grease added in Oz, or crane cable thickness in CM.

PM2 Belt Shifters & Guides Rout	e	🔅 Options			
 Online 					
Search by bar code or QR code human readable tex		۹			
Location					
PM2					
Belt Shifters & Guides					
1st Dryer Section Belt Shifter Shifter Mechanism					
Yes/NO					
Are either of the two limit switc	hes out of place/m	nissing?			
New Measurement	Current Measurem	ient			
Select One	Point				
Pick Item From List	4 of 66				
Pick Item From List	Status				
Yes	No Data				
100	Value				
NO	Not Measured				
YES - Problem Corrected					
Not Measured Save					
Past Trend Data					
Cannot save using previous value because previous va	alue is in alarm or out of bound	5.			
Timestamp	Value	Label			
Apr 23, 2018 08:24:44	Yes				
Mar 16, 2018 09:45:43	Yes				
Jan 10, 2018 12:00:21	NO				
Nov 28, 2017 09:46:21	NO				
Add Photo as Linked Document					

Lube-11PM Shutdown 4 Gearbox/Pump Oil Changes

Location

11 PAPER MACHINE

480-STOCK PREP-BROKE CHEST ASSEMBLY

Example #1: Basic Operator Care Observation Point -

The user selects the appropriate item from the pick list; each item indicates either 'No Problem' or 'Problem Found' for the observation point. Note that up to 5 Past Data values can be shown for reference – those in Red are 'Out of Bounds' measurements & triggered a 'Request for Condition Entry' in Tango. This allows problems found in the field to be escalated to Tango's Integrated Condition Status dashboard for communication to other users.

Example #2: Lube Route Trend Point -

The user enters a numeric value. In this case '5' exceeds

485000-BROKE CHEST Route 48500111 GEARBOX, For Broke Chest Agit **Condition Entry Request** Record Oil Added - Gal 48500 48500 Reference Code Instructions Recon GEARBOX, Number of Points = 1, SHC220, (MCC# 88-3-Comment Instruc Output shaft seal leaking, has increased a lot since last month New Measurement Current I GEARBO Value in Gal (Acceptable: No Limit -> 4.1) Point 127 of New M Status Comment No Data Value in (Value Not Me Comm Not Measured Save Location Alias Values Type Value TangoRLAlias PM11 - Change Gearbox or Pun Location Alias Values TangoRLAlias PM11 - Check Gearbox Value Type Physical Location Mezzanine TangoRLAlias PM11 - Change Gearbox or Pump Oil SHC220 LubricantType TangoRLAlias PM11 - Check Gearbox 48500111 IDE Unit Number Mezzanine LubricantType SHC220 IDE Unit Number 48500111

Options

the high alarm value set at '4.1', so the user is prompted for additional information about the alarm. This additional information is carried forward when escalated to a Condition Entry, which can be pushed into the eventual work order. Note that a low alarm value can also be specified for trend points.

Photographs of the asset and the problem may be linked to the measurement point.

Tournes.	Lube-11PM Shutdown 4 Gearbox/Pump Oil Changes 🔅 Ontions	E							
	INIE CONTRACTOR OF								
11 PAPER MACHINE									
486700-C.PH & PULPER DILUT. PUMP									
Check Oil Condition									
Instructions PUMP BEARINGS, Number of Points = 1, DTEXHVY, (MCC# 88-4-C4)									
New Measur	ement Current Measurement								
Pick Item From Lit	Point Point								
Comment	Pick Item From List								
Comment	Good ata								
	Foamy (Air Present)								
	rouny (arresony)								
Not Measured	Milky (Water Present)								
NOC Measured	Dark / Discolored	:							
Location Alia	Add Comment	I							
Type	Value	(
TangoRI Alias	PM11 - Change Gearbox or Pump Oil								
TangoRLAlias	PM11 - Check Pump Bearings or Reservoir	(
TangoRLAlias	PM11 - Lube Seals	(
Physical Location	Basement								
LubricantType	DTEXHVY								
LubricantType	SHCPM460								
JDE Unit Number	48670003								
Add Photo as Lin	Red Document								
Recomb	MW WEEKLY 10PM OPERATING FLOOR								
Reasons. Location	MW WEEKLY 10PM OPERATING FLOOR								
Location 10 PAPER MACHI 460-STOCK PREP	MW WEEKLY 10PM OPERATING FLOOR ODTIONS								
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3 ● K O U N G S L O g g I N g

Example #3: Lube Route Observation Point -

If desired, instructions can be added for any individual measurement point – in this case specifying the number of lube points, the type of lubricant, and the MCC energizing this asset in case lock-out is needed.

Example #4: Environmental Inspection Observation point –

Definitions for the observation name and items in the pick list are controlled during customers' initial setup – they can be very simple or extremely detailed as needed.

Ratem	ENV-ROUTE 3 EAST MILL		🔅 Options
Location EAST MILL STOR 470 - CONTAINER SATELLITE / BASEMENT Are Contain	age R storage AREA SOUTH - CELL 1 ners Contained?		
New Measur	ement	Current Measuremen	t
Pick Item From Lis	Pick Item From List Yes No Installed Containment Containment In Progre	ss ured	
Past Trend D	ata		
Timestamp		Value	Label
Oct 26, 2012 16:21:1 Oct 05, 2012 17:34:0	17 92	Yes Yes	
Location Alia	s Values	Value	
JDE Unit Number		ENV-INSP	
Add Photo as Lin	ked Document		

Example #5: Mechanic Inspection Observation Point –

Instructions are also customer defined and may be simple or detailed.



Example #6: Point Not Measured Reason

When the user cannot complete the measurement of a point, the reason may be tracked.

Once a RoundsLogging Process Parameter Route has been completed, Tango presents a process for making decisions on escalating reported problems to condition entries and inclusion on the Integrated Condition Status dashboard.

First, specified Tango user names are notified by e-mail when a route is completed, with a count of points measured, a count of points indicating a problem, and a link to the interactive summary report in Tango for completion of each Condition Entry Request:

	Tue 5/1/2018 2:30 AM
T	tango@mg.tf7.com
-	Tango RoundsLogging Route Completed
To hance	uckd@tf7.com
Round	s Logging Route Summary
nound	regene route summary
	
Route	Name: 1A3 Refiner
Started	On: May 01, 2018
Points	on Route: 65
Points	with Data: 65
Points	with Data Out of Bounds: 1
	eport
View R	
View R < <u>https</u>	//www.tf7.com/TangoWebServices13/Tango/ProcessParameters/ProcessParameterRouteReport.aspx?

The e-mailed link will take the user directly to the Process Parameter Collected Data Summary Report for that specific route completion; measurement points indicating a problem are shown at the top of the report, along

with the Condition Entry Request that includes comments entered by the inspection tech:

Jame: Lube- Jser: mcoy Downloaded Jploaded: M	ame: Lube-Kamyr-Daily ser: mcoy ownloaded: May 02, 2018, 16:46:12 ploaded: May 02, 2018, 16:51:39											
	Filter:											
Order		State	Value	Trend	Location	CER	condition Entry Request	Trend Value Comment	Linked Documents	Collected By		
120		Out of Bounds	Yes	General Comments	KAMYR #1 099-CHIP SUPPLY AND STEAMING-MAKE UP LIQUOR 091800-COLD BLOW PUMP 09180003 PUMP COLD BLOW		Add Entry Comment: Continue to check for free water daily.			mcoy @ May 02, 2018 16:50:18 EST		
990		Out of Bounds	Yes	General Comments	KAMYR #2 030-CHIP SUPPLY AND STEAMING-MAKE UP LIQUOR 031600-#1 MAKE UP LIQUOR PUMP 03160003 PUMP #1 MAKE UP LIQUOR	C F	Add Entry Comment: Continue to add oil to pump daily.			mcoy @ May 02, 2018 16:51:00 EST		
10		ОК	0	Record Oil Added - Gal	KAMYR #1 090-CHIP SUPPLY AND STEAMING-HIGH PRESSURE FEEDER 091400-CHIP CHUTE CIRCULATION PUMP 09140003 PUMP CHIP CHUTE CIRCULATION			From Previous Value		mcoy @ May 02, 2018 16:49:16 EST		
30		ОК	Good	General Comments	KAMYR #1 090-CHIP SUPPLY AND STEAMING-HIGH PRESSURE FEEDER 091400-CHIP CHUTE CIRCULATION PUMP 09140003 PUMP CHIP CHUTE CIRCULATION			From Previous Value		mcoy @ May 02, 2018 16:49:16 EST		
40		ОК	0	Record Oil Added - Gal	KAMYR #1 090-CHIP SUPPLY AND STEAMING-MAKE UP LIQUOR 091600-#1 MAKE UP LIQUOR PUMP 09160003 PUMP #1 MAKE UP LIQUOR			From Previous Value		mcoy @ May 02, 2018 16:49:17 EST		
60		ОК	Good	General Comments	KAMYR #1 090-CHIP SUPPLY AND STEAMING-MAKE UP LIQUOR 091600-#1 MAKE UP LIQUOR PUMP 09160003 PUMP #1 MAKE UP LIQUOR			From Previous Value		mcoy @ May 02, 2018 16:49:17 EST		

For decision support



a user may click the icons at the left side of each row to open the measurement point's location in the tree or to bring up the trend /observation history:



made that a reported problem should be escalated to a condition entry, the user clicks the 'Add Entry' button to open the screen for completing the condition entry information and posting the problem to the Integrated Condition Status dashboard:

Other paths for viewing the problems reported & escalating appropriate items to the ICSR are through Tango's 'Process Parameter Currently Out Of Bounds' and 'Process Parameters Out Of Bounds History' reports:

Process Parameters Currently Out of Bounds										
Task	Unit	Function	Asset	Comp	Parameter	Value	Timestamp	Condition Entry	Condition Entry Request Comment	
Lube-12PM Shutdown 3 Gearbox/Pump Oil Changes	12 PAPER MACHINE	490-STOCK PREP-MACHINE CHESTS	495100-MACHINE CHEST	49510111 GEARBOX,For Machine Chest Agitator	Check Oil Condition	9 Dark / Discolored	Jun 18, 2013	Add	Dark	
ENV-ROUTE 3 EAST MILL	EAST MILL STORAGE	470 - CONTAINER STORAGE	SATELLITE AREA	ENV-INSP 10PM OP.FLOOR WESTSIDE	Are Containers Contained?	54 No	Oct 26, 2012	Add		
ENV-ROUTE 3 EAST MILL	EAST MILL STORAGE	470 - CONTAINER STORAGE	RESERVOIR/CONTAINMENT	46024001 TANK, Hydraulics, For Press	Inspect Reservoir Condition/Leak(s)	60 Issue or leak	Oct 26, 2012	Add		

	Process Parameter Out of Bounds History Report											
L	Location Filter: All Locations											
	Report Date Range: Jan 01, 2013 to May 08, 2018 🗹											
	Filter: 10PM-Daily											
	Task	Unit	Function	Asset	Comp	Parameter	Value	Timestamp	Condition Entry	Condition Entry Request Com	nent	
	Lube- 10PM- Daily	10 PAPER MACHINE	460-STOCK PREP-BOTTOM STOCK CLEANER SYSTEM	464600- DECULATOR & PRIMARY CLEANER	46300005 MOTOR,For Bottom Stock Primary Cleaner Pump	Check Oil Condition	Add Comment	Oct 08, 2013	Add	Outboard side low added .1		
	Lube- 10PM-	10 PAPER MACHINE	460-STOCK PREP-BOTTOM	464600- DECULATOR &	46300005 MOTOR,For	General Comments	Yes	Feb 04, 2013	Add	West pckg needs take up		

The interactive RoundsLogging Process Parameter Route Adherence report helps manage compliance to inspection schedules and successful data collection on measurement points:

Roundslogging Adherence										
Filters	Filters Date Range Jan, 01 2014 through Dec, 31 2014 Task Lube-9 Evap-Daily									
R, •										
				Route Complet	ion Adherence			Route Point	Adherence	
				81.1	8%			80.	78%	
⊡ Non Gro	ouped Routes		81.18%				80.78%			
Ξ	Lube-9 Evap-Daily		81.18%				80.78%			
			Scheduled Start Date	Scheduled End Date	# of Route Completions	# of Points On Route	# Points Measured OK	# Points Measured Not OK	# of Points marked as Not Measured	# of Points with No Data Entered
				Totals	207	3060	2472	0	0	588
			Jan 01, 2014	Jan 01, 2014	0	12	0	0	0	12
			Jan 02, 2014	Jan 02, 2014	1	12	12	0	0	0
			Jan 03, 2014	Jan 03, 2014	1	12	12	0	0	0
			Jan 06, 2014	Jan 06, 2014	1	12	12	0	0	0

RoundsLogging – Condition Assessment Tasks:

Tango Condition Assessments allow PDM technicians to efficiently document and integrate their conclusions after collecting and analyzing data from specialized technology systems such as vibration or oil analysis. RoundsLogging allows PDM technicians to assess condition tasks on mobile devices as they collect data in the field, especially

useful for some IR thermography, ultrasonics, and motor testing systems that lack a routing tool. In the RoundsLogging application the user steps through each asset component in the task as he or she performs the condition monitoring, and then selects the appropriate condition state from a pulldown list. The typical state list includes:

- Measured, No Problem, Nothing to Report
- Measured, No Problem, Add Condition Comment
- Measured, Mildly Abnormal
- Measured, Condition Entry
- Nothing Measured Equipment Down
- Nothing Measured Not Accessible
- Nothing Measured Requested to Skip
- Nothing Measured Skipped for Lack of Time
- Nothing Measured No Site Support

'Measured – Condition Entry' is the state for a reportable condition problem, and will lead to a Condition Entry in the Integrated Condition Status dashboard.

Recting	USound-10PM Monthly	¢	Options
Online			
Search by bar code	or QR code human readable te	ot	۹
Location			
10 PAPER MACHINI	E		
469-FACILITIES ANI	D UTILITIES-SEWER		
747101-10PM	M TO MAIN SEWER	PUMP #1	
74710108 VA	LVES,For 10PM to	Main Sewer Pump #1	
No Condition Assess	sment	Point	
		9 of 10	
No Condition Assess	ment 🗸	Status	
Measured No Droble	m Nothing To Report	No Data	
Measured, No Problem	m, Add Condition Comment	No Condition Assessmen	it
Measured, Mildly Abr	normal		
Measured, Condition	Entry	Value	
Nothing Measured	Equipment Down	74710108	
Nothing Measured	Not Accessible		
Nothing Measured	Requested To Skip		
Nothing Measured Of Time	Skipped Due To Lack		
Nothing Measured	No Site Support		