Set up a Data Tagging Group

Introduction

The data tagging is a useful tool that allows the user to filter the measurements and visualize them in a specific plot according to a certain tag assigned to the point. The tag is valid under a certain period of time and it can be used in applications where it is needed to measure and analyze equipment under certain conditions, like in the paper or the steel industry where it is needed to produce different qualities of product. It is a key method of organizing measured data.

This application note contains a brief procedure on how to set up data tagging groups in SKF @ptitude Observer and how to use them with a practical exercise. The procedure covers:

- How to create data tagging groups and tags
- How to create a data tag point
- How to check different groups of data according to different tags

Procedure

1 In order to create a data tagging group, follow the steps below.

- From SKF @ptitude Observer, go to the Database menu and select Libraries / Data tagging group
- In the **Data tagging group** window, click **New** (→ fig. 2).
- Enter an appropriated Name and Description for the new group and click OK (→ fig. 3).
- Repeat the above steeps to create as many groups as you need.

Dat	abase On-line Portable	s <u>W</u> indow <u>H</u> elp
	Users Database information System log Pictures Diagnosis rules	
	Libraries +	Bearing library
2	Export	Note receivers
	Import	Data tagging group
	Alarm group	Machine template library
	Measurement groups	Create machine template
12-	Options	-
-		
3	Delete data	

Fig. 1. Select Data tagging group.



ata tagging group	
Data tagging group	
Name	Description
GBX GROUP 1	
GBX GROUP 2	
GBX GROUP 3	
GBX GROUP 4	
L	
	New Edit Delete
	Close

Name and	comment		
7.	Name:	GBX GROUP 1	
V	Description:	Gear box type 1	
ags			
	Name	Description	
		New Edit I	Delete

Fig. 2. Create a new data tagging group.

Fig. 3. Enter a name and description of the data tagging group.

- 2 In order to create a tag, follow the next steps:
- Once the new tagging group has been created, click **New** in the **Tags** area (\rightarrow **fig. 4**).
- Enter the Name of the tag and an appropriated Description and then click OK (→ fig. 5).
- Repeat the process for as many tags you need in all of the data tagging groups previously created (-> fig. 6).

Name and	g group				
	Name:	GBX GRO	OUP 1		
	Description:	Gear box	type 1		
Tags					
	Name	Des	cription		
Contraction of the later					
			Nev	v Edit	Delete

Tag	×
Name and comment Name:	D01A35M2
Description:	Plant 1 / Area 35 / Machine 2
	<u>O</u> k <u>C</u> ancel

Fig. 4. Create a new tag.

ame and o	comment	
7.	Name:	GBX GROUP 1
	Description:	Gear box type 1
IQS		
	Name	Description
	001A35M2	Plant1 / Area 35 / Machine 2
	002A21M3	Plant 2 / Area 21 / Machine 3
	003A15M11	Plant 3 / Area 15 / Machine 11
		New Edit Delete

Fig. 6. Create as many tags as needed.

Fig. 5. Enter the name and description of the tag.

- **3** Once you create data tagging groups and tags, follow the next steps:
- Go to the needed machine and add a measurement point (\rightarrow fig. 7).
- Select a software / data tagging measurement point type and click OK (→ fig. 8).
- Give the point an appropriate name and description (\rightarrow fig. 9).
- Select the needed data tagging group and click **OK**.

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	\$0	Properties										Qk	Cancel

Fig. 7. Add a measurement point.

Fig. 8. Select a software / data tagging measurement point type.

🔵 Meas. p	point		×
General	1		
Name	and comment		
	Name:	TAG GB Type 3	▼ Imabled
	Description:	Group of Tags for gearboxes type 3	
	Point type:	Data tagging	
Source	e		
	Data tagging group:		-
		GBX GROUP 1 GBX GROUP 2	- II
		GBX GROUP 3	
Syste	em log		Ok Cancel

Fig. 9. Give the point a name and description.

- 4 Once the data tagging point is created, you are now able to do tags according to your needs following the next steps:
- Select the data tagging point and open the **Meas. data** window (→ fig. 10).
- In the Meas. data window, click Add and then select the tag (→ fig. 11).
- Set the date when you need the tag to be valid (\rightarrow fig. 12) and click OK.

ude Observer 8.5 - [Meas. date (Linked)]		
Edit Show Database On-line		
view System view Workspace	TAS GROUP 2 Path Company-DATA TAGGING TEST-08 Type 2:1AG GROUP 2: Type Data tagang Machine GB Type 2 Namber S II) Machine GB Type 2	Open.com
III. NTPC Sinhadri	Near-streets	9
TESTS DATA TAGGING TEST Data	30 12015/2011 7 44.38 AM 001/35/42 31205/2011 41087 PM 12015/2011 7 44.38 AM 003.31 AMS 31205/2011 41036 PM 12015/2011 7 44.38 AM 003.31 AMS 31205/2011 41036 PM 12015/2011 7 44.38 AM 003.31 AMS 31205/2011 41036 PM 12015/2011 7 450 PM 004.37 AMS 31205/2011 4102 PM 12015/2011 4108 PM 003.31 AMS 31205/2011 4102 PM 1205/2011 4108 PM 003.31 AMS	Θ
TAG GROUP4 TAG GROUP4 TAG GROUP4 TAG GROUP4 TAG OPC: INFUT 3 TAG ATR TEST3 JORNT TESTING		
	Edit Delete Add Equal 005 data	

Fig. 10. Meas. data window.

Data tagging		x	Data tagging		x
Tag			Tag		
-			-		
lag:	001A35M2 001A35M2	-	lag:	001A35M2	•
From:	002A21M3		From:	12/15/2011 - 7:55:40	AM 🚖
	004A7M12			Qk	Cancel

Fig. 11. Select the tag.

Fig. 12. Set the date for when the tag is valid.

The **Meas. data** window will have a list with all tags that have been created and their validity dates. A tag will be valid until you create a new one.

5 If you want to see measurement data saved in each data tagging group, proceed with the following steps:

- Go to the needed point and open a trend plot.
- Open the buffer option, select **Data tagging** and click the selection button (...) (\rightarrow fig. 13).
- In the Data tagging filter window, click the selection button (...) for the Data tagging node (→ fig. 14).
- Select the data tagging point and click $OK (\rightarrow fig. 15)$.
- Finally, select the tag and click **OK** (→ fig. 16).

			Select point	×
Buffer Date 1 hour 2 hour 1 days 2 days 3 months 6 months From: Now To: Values 3000 Filter Process Between Digital Condition On Ø Data tagging Buffer Ø Nomal Archive O	6 hour 7 days 12 months ↓ and 0 and 0	12 hour 1 months 24 months	Select point Company C	
Use as default	<u>O</u> k	Cancel		<u>uk C</u> ancel

Fig. 13. Buffer window.

ſ	Data tagging filter	×
	Data tagging node: Tag:	
		<u>Ok</u> <u>Cancel</u>

Tag: NEST1 WM 15 NEST2 WM6 NEST3 WM 22

Company\DATA TAGGING TEST\GB Type 3\

Fig. 15. Select the data tagging point.

Fig. 14. Select the data tagging node.



Data tagging filter

Data tagging node:

In figs. 17 to 20 you will find examples with different tags extracted from the same trend.

X



Fig. 17. Trend without tag filtering.

d (Company\DATA TAGGING TEST\GB Type 2\Acc 2\)						
any\DATA TAGGING TEST\G8 Type 2\Acc 2\						(12/5/2011 4:18:0
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		Tag (D01A35M2			
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1						
1						

Fig. 18. Trend for tag 001A35M2.



Fig. 19. Trend for tag 003A14M6.

Trend (Company\DATA	TAGGING TEST\GB Type 2\Acc 2\)			
Trend Company\DATA TAGG	ING TEST\GB Type 2\Acc 2\			(12/5/2011 4:13:02 PM)
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0.80				
0.70				
0.60	Tag 002A21M3			
0.50				
0.40				
0.30				
0.20				
0.10				
0.00	12/5/2011 4:09:30 PM 12/5/2011 4:10:00 PM 12/5/2011 4:10:30 PM	12/5/2011 4:11:00 PM 12/5/2011 4:11:30	PM 12/5/2011 4:12:00 PM 12/5/2011 4:12:30 PM 12/5/2011 4:1	3:00 PM

Fig. 20. Trend for tag 002A21M3.

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