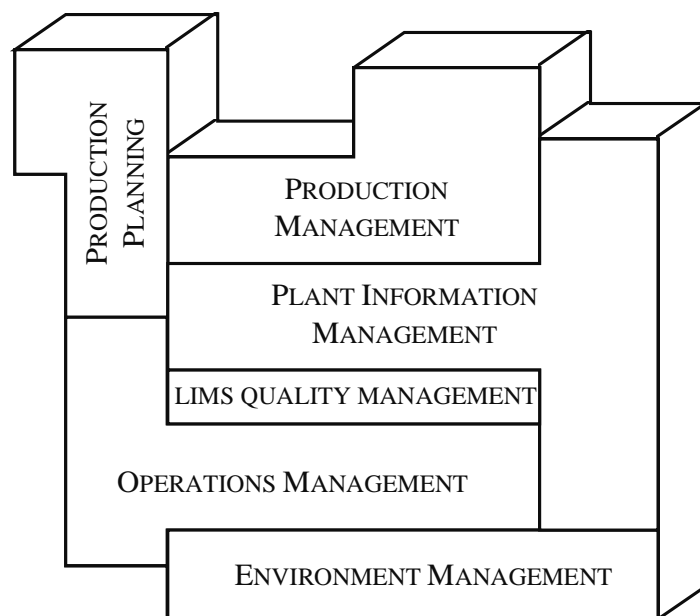


# PHD Tag Load - Part 2



# Lesson Objective

---

## Objectives

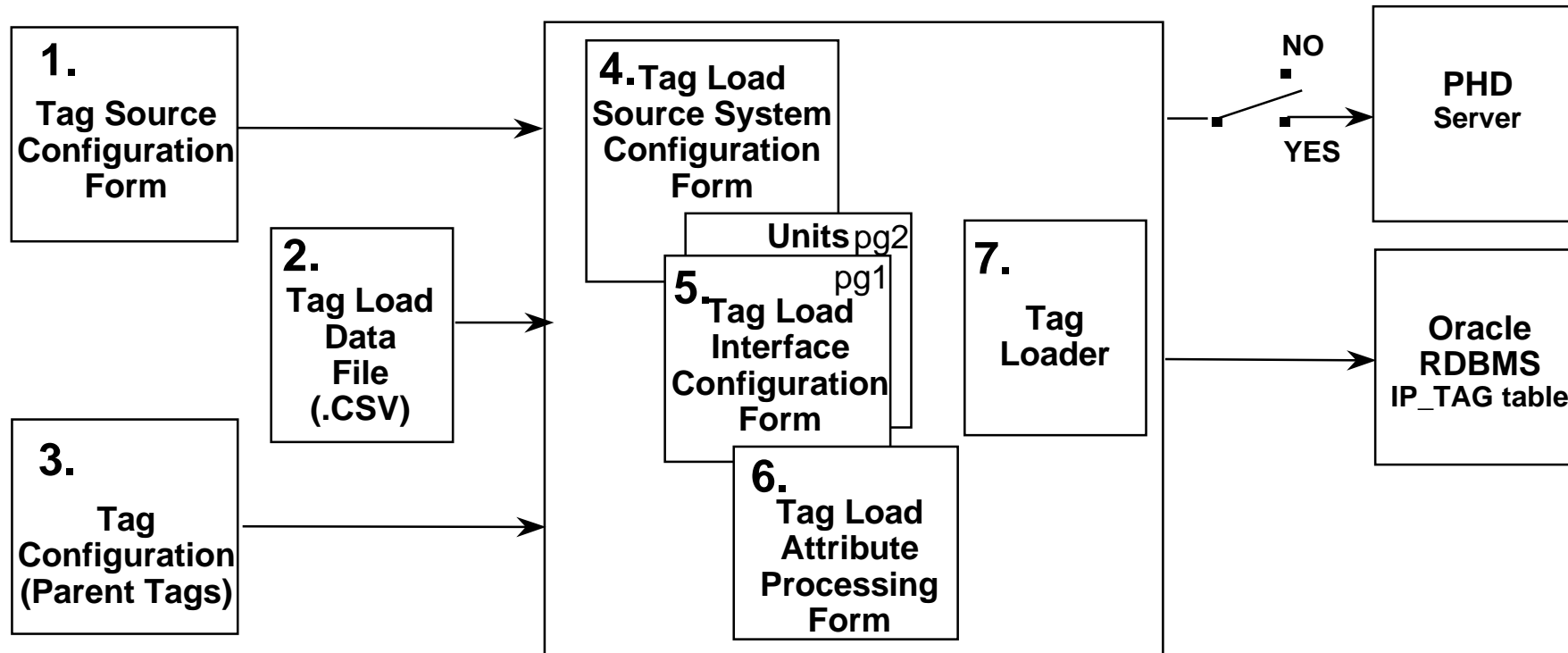
- Add new engineering units to the PHD reference database.
- Specify default pathnames for files used during tag load processing.
- Perform a bulk tag load using Attribute Processing forms to create many PHD tags from one entry in the tag load data file.
- Given a TPS Documentation Tool output file, prepare the file for use by the PHD Tag Loader.

## Topics

- Review of tag load process
- Review of tag load forms
- Interface Configuration Form for specifying tag types
- Tag load Attribute Processing Form for defining the “one to many” relationship
- Hands-on exercises

**References:** *Tag Load User Manual*, PIM0801 (CD)  
Tagloader User Guide (online)

# PHD Tag Load Process - Review



**Tag Source:** Specifies all parameter names to be historized and their data type (ex: PV, SP, OP = Real).

**Tag Load Data File:** Specifies tag data to be used in Tag Load (name, description, units, range).

**Source System Configuration:** Maps fields in the Tag Load data file to PHD tag definition fields.

**Interface Configuration:** Defines the different tag types in the DCS and the method for defining these types using the Tag Load data file. Resolves different engineering unit nomenclatures that may exist on the DCS.

**Attribute Processing:** Specifies “one to many” relationship; that is, which parameters for a specific tag type are to have PHD tags created.

# Tag Source Configuration Form - Review

This form lists all the parameter names to be historized. It defines the parameter's tag type, attribute name, data length, and data type. This form also “drives” the content of the pulldown lists for System Type, Tag Type, and Attribute in the Tag Configuration form.

**TotalPlant Information - [Tag Source Configuration]**

File Edit Records Window Help

Tag Source Configuration Enter Query TotalPlant

System Type	Tag Type	Attribute	Data Type	Data Length	Sync Attribute Description
TDC_LXS	C	CTANK	C	40	
TDC_LXS	C	EUDESC	C	40	
TDC_LXS	C	FLO_STRT	C	24	
TDC_LXS	C	LTANK	C	40	
TDC_LXS	C	MATERIAL	C	40	
TDC_LXS	C	OLDTOA	C	16	
TDC_LXS	C	PTDESC	C	16	
TDC_LXS	C	PV	C	40	
TDC_LXS	C	TOA	C	16	
TDC_LXS	E	ALENBST	C	8	
TDC_LXS	E	FLAG	C	8	
TDC_LXS	E	FLAGS	C	8	
TDC_LXS	E	LM	C	8	
TDC_LXS	E	MODE	C	8	

Update Tag Type Update Attribute Range Multiplication Factor Prefix Description

**InterPlant - [Tag Configuration]**

File Edit Records Window Help

Tag Config Enable Collect Process General Alarm Er

Tagname Tag No Send C

Data Collection

Source Tag Spec

Source Tag Index A B C

System Type

Tag Type

Attribute

Convert From Units

Collector Name

Scan Seconds

Tolerance, Type

# Tag Load Data File - Review

This form maps column names in the Tag Load Data File to PHD field names in the Oracle IP\_TAG table. Enter only the column names that map directly to a PHD Field Name.  
The *Tag Loader User Guide* specifies the fields required for a successful tagload.

**Tag Load Source System Configuration**

Source System: **TDC\_LXS** System: **Tagload1.csv**

PHD Field Name	Source System
TAGNAME	PHDTAGNAME
DSCR	DESCRIPTION
UNITS	EUDESC
HI_EXTREME	PVEUHI
LO_EXTREME	PVEULO
SRC_SCANSECS	SCANSEC
PARENT_TAGNAME	PARENT

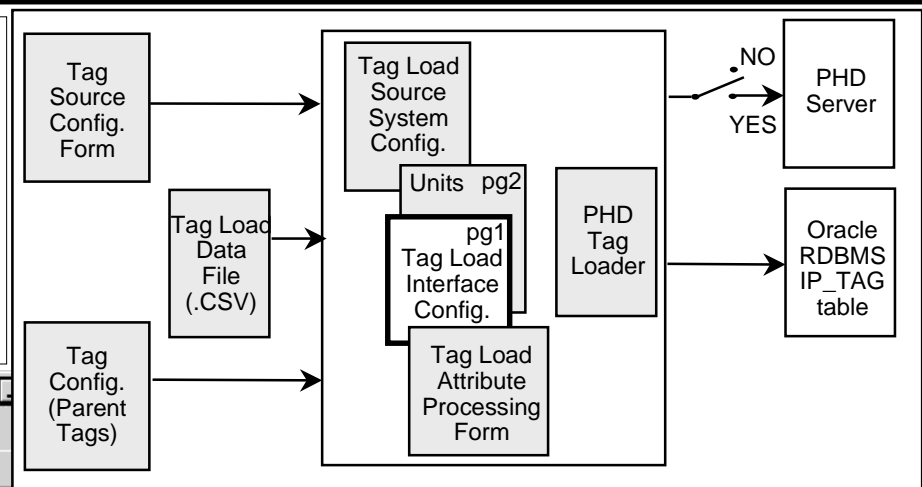
Record: 2 of 2 (Filtered)

Source Control System

A	B	C	D	E	F	G	H	I	J
1	ENTITY	PHDTAGNAME	DESCRIPTICENT_TYPE	EUDESC	KEYWORIPVEUHI	PVEULO	SCANSEC	PARENT	
2	TIC21941	TIC21941.SP	STEAM FLO'REGCLNIM	DEG. C	STM TEMF	150.00	0.00	60	SPREAL
3	TIC21941	TIC21941.PV	STEAM FLO'REGCLNIM	DEG. C	STM TEMF	150.00	0.00	60	PVREAL
4	TIC21941	TIC21941.OP	STEAM FLO'REGCLNIM	DEG. C	STM TEMF	106.90	-6.90	60	OPREAL
5	TIC21941	TIC21941.MODE	STEAM FLO'REGCLNIM	DEG. C	STM TEMF	150.00	0.00	60	MDENUM
6	LI24941	LI24941.PV	REACTOR LIANINNIM	GALLONS LVL GAL	500.00	0.00	60	PVREAL	
7	INGB941	INGB941.PV	INGREDIENT NUMERNIM	GALLONS SOLTN B	1000.00	-1000.00	60	PVREAL	
8	INGA941	INGA941.PV	INGREDIENT NUMERNIM	GALLONS SOLTN A	1000.00	-1000.00	60	PVREAL	
9	FY23941	FY23941.PV	SOLUTION EREGPVNIM	GALLONS DRN TOTL	500.00	0.00	60	PVREAL	
10	FY22941	FY22941.PV	SOLUTION AREGPVNIM	GALLONS B TOTAL	250.00	0.00	60	PVREAL	
11	FY21941	FY21941.PV	STEAM TEMREGPVNIM	GALLONS A TOTAL	250.00	0.00	60	PVREAL	
12	FVL24941	FVL24941.PV	FLAG FOR FFLAGNIM				60	PVDIG	
13	FVL23941	FVL23941.PV	FLAG FOR CFLAGNIM				60	PVDIG	
14	FVL22941	FVL22941.PV	SOL. B FEEIDICMPNIM	B FEED			60	PVDIG	
15	FVL21941	FVL21941.PV	SOL. A FEEIDICMPNIM	A FEED			60	PVDIG	
16	FULMT941	FULMT941.PV	REACTOR F FLAGNIM	FULL/EMT			60	PVDIG	
17	FIC21941	FIC21941.SP	PMDF FOR 'REGCLNIM	KLB/HR	STM. FLO	60.00	0.00	30	SPREAL
18	FIC21941	FIC21941.PV	PMDF FOR 'REGCLNIM	KLB/HR	STM. FLO	60.00	0.00	60	PVREAL
19	FIC21941	FIC21941.OP	PMDF FOR 'REGCLNIM	KLB/HR	STM. FLO	106.90	-6.90	60	OPREAL
20	FIC21941	FIC21941.MODE	PMDF FOR 'REGCLNIM		STM. FLO			30	MDENUM
21	FI23941	FI23941.PV	DRAIN FLOVANINNIM	GPM	DRN FLW	100.00	0.00	30	PVREAL
22	FI22941	FI22941.PV	ANINNIM			90.00	0.00	5	PVREAL
23	FI21941	FI21941.PV	ANINNIM			75.00	0.00	30	PVREAL
24	DVL23941	DVL23941.PV	TANK DRAIN DICMPNIM		DRAIN			30	PVDIG
25	CLNDT941	CLNDT941.PV	REACTOR C FLAGNIM		CLNDRTY			5	PVDIG
26	AG24941	AG24941.PV	AGITATOR M DICMPNIM		MOTOR	0.00	0.00	5	PVDIG

# Tag Load Interface Configuration Form - Tagtypes

This form defines conditions the Tag Loader will check in order to classify DCS tags into tag classes (tagtypes). Ex: If the Tag Loader finds REGCLNIM in the ENT\_TYPE column of the file, it will assign the tag in that row to the REGCLNIM tagtype and set the tag's PHD data type to Real.



The screenshot shows the 'TotalPlant Information - [Interface Configuration]' window. The 'Interface Type' is set to 'TRAINING\_LXS' and the 'Source System' is 'TDC\_LXS'. The 'Unit' tab is selected, showing a table of tagtype configurations. The table has columns for 'Tagtype ID/ Source Column Name', 'PHD Tagtype/ Operator', 'Sequence/ Match Value', and 'PHD Format'. The table lists five tagtypes: ANINNIM, DICPNIM, FLAGNIM, NUMERNIM, and REGCLNIM. The 'REGCLNIM' row is highlighted, and an arrow points from the 'ENT\_TYPE' column of this row to the text box on the right. The 'Record' field shows '5' of 5.

Tagtype ID/ Source Column Name	PHD Tagtype/ Operator	Sequence/ Match Value	PHD Format
ANINNIM	R		
ENT_TYPE	=	ANINNIM	
DICPNIM	E		
ENT_TYPE	=	DICPNIM	
FLAGNIM	I		
ENT_TYPE	=	FLAGNIM	
NUMERNIM	R		
ENT_TYPE	=	NUMERNIM	
REGCLNIM	R		

Any columns defined in the Interface Configuration form (identifying the different tagtypes) must be included in the tagload data file.

The Source Column Name list box contains column names defined previously on the Source System Configuration Form.

# Tag Load Attribute Processing Form

This form defines a “one to many” relationship; that is, for one row in the Tag Load data file, the Tag Loader automatically creates many PHD tags (such as PV, OP, and SP). You may choose to use this feature instead of listing all of them in the Tag Load data file.

**TotalPlant Information - [Tagload Attribute Processing]**

File Edit Records Window Help

**Attribute Processing** Enter Query

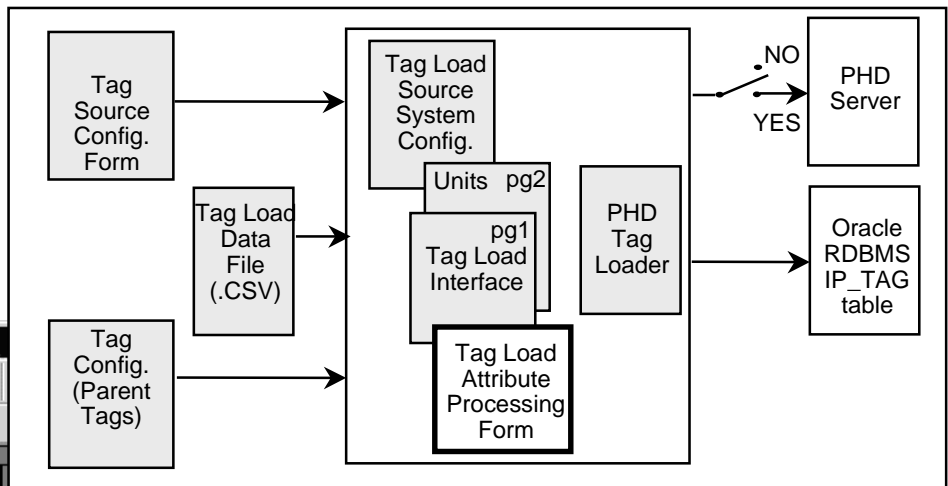
Interface Type: TRAINING\_LXS Tagtype ID: REGCLNIM  
Source Attribute: PV Tag Extension: PV  
Check Column: Check Value:

Name of tag field	Value for field	Processing Options	Create Only?
		<input checked="" type="radio"/> Default Value <input type="radio"/> Value Prefix <input type="radio"/> Value Suffix <input type="radio"/> Override input value	<input type="checkbox"/>

Record: 1 of 1

Record: 1 of 1

Default tag extension



The Tag Type IDs shown in the list box were configured previously on the System Interface Form.

The Source Attributes shown in the list box were configured previously on the Tag Source Form for the specific interface type (ex: TDC L<sup>X</sup>S).

# Tag Load Attribute Processing Form, *continued*

The image displays three stacked screenshots of the 'TotalPlant Information - [Tagload Attribute Processing]' form. Each screenshot shows the 'Attribute Processing' section with the following fields:

- Interface Type: TRAINING\_LXS
- Tagtype ID: REGCLNIM
- Source Attribute: (varies by screenshot)
- Tag Extension: (varies by screenshot)
- Check Column: (empty)
- Check Value: (empty)

The three screenshots correspond to the following Source Attribute values:

- Top screenshot: PV
- Middle screenshot: SP
- Bottom screenshot: MODE

At the bottom of the bottom screenshot, there is a table with the following headers:

Name of tag field	Processing Options	Create
-------------------	--------------------	--------

In this example, the Tagloader will use three Attribute Processing forms to create PV, SP, and MODE tags for each row in the spreadsheet classified as REGCLNIM tagtype (per the condition specified on the Interface Configuration form).

The Source Attribute (collected parameter) will be written to the SRC\_ATTRIB field in the IP\_TAG table.



# Tag Load Attribute Processing Form, *continued*

**TotalPlant Information - [Tagload Attribute Processing]**

File Edit Records Window Help

**Attribute Processing** Enter Query **TotalPlant**

Interface Type: TRAINING\_LXS Tagtype ID: REGCLNIM  
Source Attribute: PV Tag Extension: PV  
Check Column: Check Value:

Name of tag field: Value for field: Processing Options: Create Only?

☒ Default Value ☐ Value Prefix  
☐ Value Suffix ☐ Override input value ☐

The Check Column/Check Value entries are used for a Tag Load data file similar to the example shown below. The entries were created to support a specific user's request:

NAME	PV	SP	OP	MODE
03FC103			X	X
03FC104	X	X	X	X

Record: Record: Default tag extension

Any columns defined in the Attribute Processing form (identifying columns to be checked for the creation of tags) must be included in the Tag Load data file.

# Tag Load Attribute Processing Form, *continued*

You can use the Attribute Processing form to perform additional processing (configure tag fields) that will not be performed by the Tag Load data file.

Example: For tags in the MODE tagtype, set the default value of the PARENT\_TAGNAME field in the IP\_TAG table to MODE\_PARENT.

**TotalPlant Information**  
File Edit Records Window Help

**Tagload Attribute Processing**

**Attribute Processing** Enter Query **TotalPlant**

Interface Type: TRAINING\_LXS Tagtype ID: MODE  
Source Attribute: MODE Tag Extension: MODE  
Check Column: Check Value:

Name of tag field	Processing Options	Create Only?
PARENT_TAGNAME MODE_PARENT	<input checked="" type="radio"/> Default Value <input type="radio"/> Value Prefix <input type="radio"/> Value Suffix <input type="radio"/> Override input value	<input type="checkbox"/>
* 	<input checked="" type="radio"/> Default Value <input type="radio"/> Value Prefix <input type="radio"/> Value Suffix <input type="radio"/> Override input value	<input type="checkbox"/>

Record: 1 of 1

Additional Processing

# Tag Load Attribute Processing Form, *continued*

Name of tag field	Value for field	Processing Options	Create Only?
PARENT_TAGNAME	MODE_PARENT	<input checked="" type="radio"/> Default Value <input type="radio"/> Value Suffix	<input type="checkbox"/>
*		<input checked="" type="radio"/> Default Value <input type="radio"/> Value Suffix	<input type="checkbox"/>

## Default Value

The Tagloader will use the default value if there is not a value in the file. This may result from either no column in the file or no data in the field.

## Value Suffix

The system appends the value to the PHD field value as a suffix. An example of the use of this option is to allow the system to append a suffix to a description to give more information on the attribute being collected.

## Value Prefix

The value added to the PHD field value. An example of the use of this option is to specify a prefix for the parent tagname allowing for the tags created for different tag attribute to have different parent tags.

## Override Input Value

The Tagloader enters the value into the field regardless of what is in the file. An example of the use of this option is to override the engineering units and limits for a tag for a status attribute. This option also provides the ability to override the PHD tagtype values specified in the Tagload Interface Configuration form

# Tag Loader Form - Review

---

The screenshot shows the 'TotalPlant Information - [PHD Tagload]' window. The main form has the following fields:

- Interface Name:** TDC1
- Interface Type:** TRAINING\_LXS
- Source System:** TDC\_LXS
- System Uses EGU Span:** ☐
- Default Parent:** (empty)
- Tag Prefix:** (empty)
- Description:** (empty)

Below the main form is a 'Record:' section with navigation buttons and a 'Type of interface' dropdown.

Overlaid on the main form is the 'Select Taglist File' dialog box. It contains the following fields and options:

- Input File:** C:\TEMP\tagload.CSV
- Collector Name:** TDC1
- Interface Processing:**
  - ☐ Pre-process Tags
  - ☐ Confirm Existence of Parameters
  - Output File:** C:\TEMP\TEST\_OUT.CSV
  - PHD Server:** (empty)
  - CG #:** (empty)
- Tag Processing:**
  - ☐ Delete tags before load
  - ☒ Leave existing tags as is
  - ☐ Flag update of RDI data
  - ☐ Update existing tags

Buttons for 'OK' and 'Close' are at the bottom right. A note at the bottom states: 'The input file MUST be in CSV format with the double quotes as a text delimiter. The first line of the file must contain the column headings for the interface as defined on the tagload form.'

After performing a Tag Load to Oracle and correcting any errors, use the PHDMAN UPDATE command to cause the PHD Server to go to Oracle and get the tags.

```
PHDMAN> UPDATE TAG FULL
```

# Hands-On Exercises - Overview

---

## Exercise 1

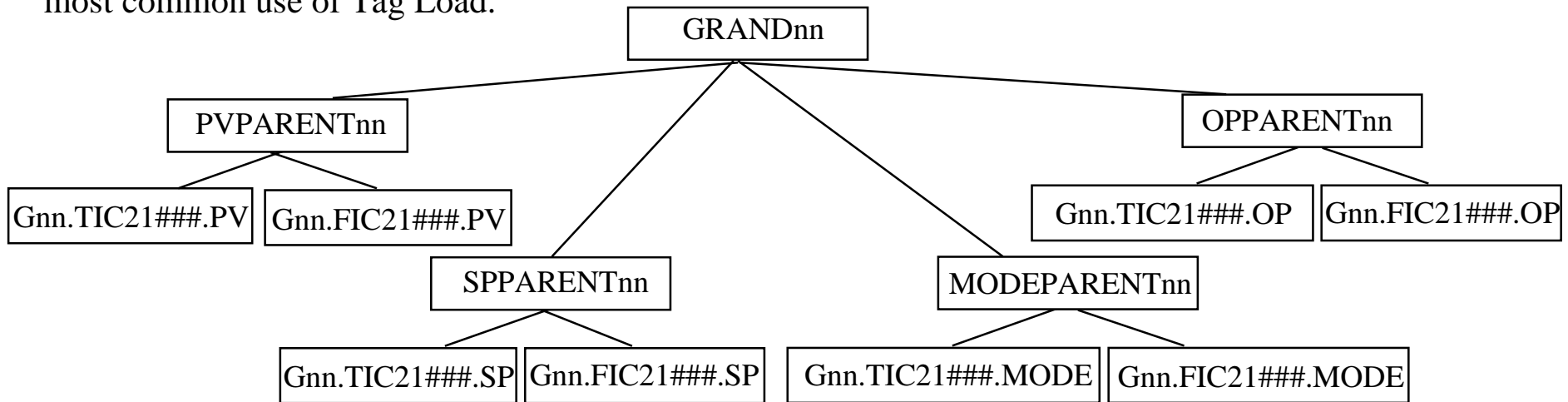
Add engineering units to the Fixed Plant Databook that are not available as standard PHD units.

## Exercise 2

Set default values in the Fixed Plant Databook for tagload processing.

## Exercise 3

Use the Tag Loader to create many PHD tags from one DCS tag and several Parent Tags. This is the most common use of Tag Load.



## Exercise 4

Prepare a file generated by the Honeywell Documentation Tool to be used by the Tag Loader.

## Exercise 5

Practice using the Tag Loader to historize all parameters contained in the training reactor schematic, so that the schematic can be viewed through the Desktop TDC Viewer application.

# Add Units - Exercise 1

---

*In this exercise, you will add engineering units that are not available as standard PHD units. Remember that PHD conversions may not be available for units you add to the system.*

**Reference:** For more information, refer to the *Fixed Plant Databook User Guide*.

## Instructions

### To Add New Units - Fixed Plant Databook (a.k.a. Common Databook)

1. From the Main Menu, select the Fixed Plant Databook application, then select Lookup Value configuration form.
2. Enter a query for the Lookup Type like Units.
3. At the bottom of the form (Control/End) add a new unit. Ex: KLB/HR
4. Return to the Units page of the Tagload Interface Configuration form and check to see if the new units are listed in the list box for PHD Units.

To see the new entries, you must cause MSAccess to refresh the form. Press F9 to refresh. The new units should be there now.

END OF EXERCISE 1

# Tagload Lookup Values - Exercise 2

*In this exercise, you specify default values for tagload processing in the Lookup Value Configuration of the Fixed Plant Databook.*

**Reference:** *Tagloader User Guide*, Lookup Values

## Instructions:

### Lookup Values

1. From the Main Menu, select the Fixed Plant Databook application, then select Lookup Value configuration form.
2. Do a query for this Lookup Type: DEFAULT\_PATH

**TotalPlant Information - [Lookup Value Configuration]**

File Edit Records Window Help

**Lookup Value** **Enter Query** **TotalPlant**

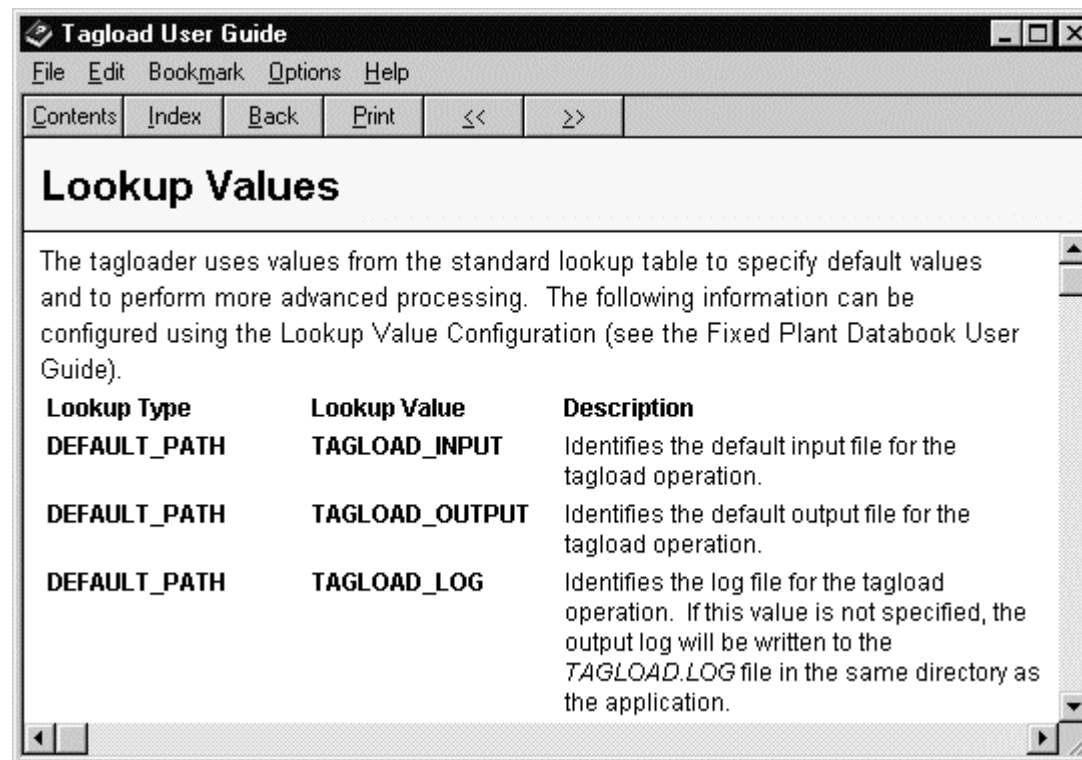
Lookup Type	Lookup Value	Description	Protect?
▶ DEFAULT_PATH	⬇ TAGLOAD_INPUT ⬆	⬇ C:\TEMP\TAGS.CSV ⬆	<input type="checkbox"/> ⬆
DEFAULT_PATH	⬇ TAGLOAD_LOG ⬆	⬇ C:\TEMP\TAGLOAD.LOG ⬆	<input type="checkbox"/> ⬆
DEFAULT_PATH	⬇ TAGLOAD_OUTPUT ⬆	⬇ C:\TEMP\TAGOUT.CSV ⬆	<input type="checkbox"/> ⬆
*	⬇ ⬆	⬇ ⬆	<input type="checkbox"/> ⬆

## Tagload Lookup Values - Exercise 2, *continued*

---

3. Look at the online documentation for descriptions of the Lookup Values that are used by the tagloader:  
Start\Programs\TPI\TagLoader User Guide.
4. Change the defaults if you choose.

END OF EXERCISE 2





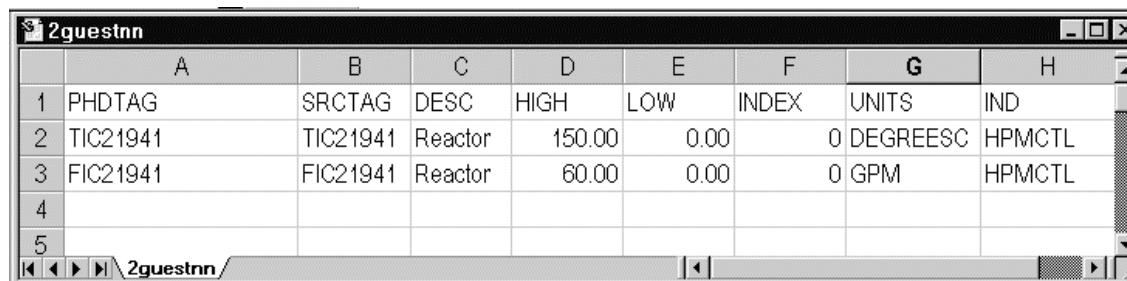
# Tag Load “One to Many” - Exercise 3

*In this exercise, you modify your Tag Load data file and use the Tag Loader to create many PHD tags from one DCS tag. This is the most common use of Tag Load.*

## Instructions

### Tag Load Data File

1. Open your Tag Load data file named GUESTnn.CSV and save it as **3GUESTnn.CSV**.
2. Delete the TYPE and PARAMETER columns in the new file.
3. Keep the headers and the first data row. Delete all the other rows below the second row.
4. Delete the .PV extension and the Gnn. prefix from the PHD tagname.
5. Add an IND (indicator) column that the Tag Loader can use as a flag for determining how to classify each tag.
6. Enter HPMCTL in the IND column. (You will set up the tagloader so that if it finds HPMCTL in the IND column, it will classify the tag into four different tag classes and create a PHD tag for four different source attributes (parameters)).
7. Copy the second row and add a third row for DCS tag FIC21###, 0-60 GPM. Save and close your file.



	A	B	C	D	E	F	G	H
1	PHDTAG	SRCTAG	DESC	HIGH	LOW	INDEX	UNITS	IND
2	TIC21941	TIC21941	Reactor	150.00	0.00	0	DEGREEESC	HPMCTL
3	FIC21941	FIC21941	Reactor	60.00	0.00	0	GPM	HPMCTL
4								
5								

# Tag Load “One to Many” - Exercise 3, *continued*

## Tag Load Source System Configuration Form

1. Call up the Source System Configuration form and enter a query for Source System TDC\_LXS.
2. Delete the TYPE and PARAMETER columns.

(You do not have to add the IND column to the Source System Configuration form because it does not directly relate to any field in the Oracle IP\_TAG table.)

**Source System Configuration** Enter Query **TotalPlant**

Source System:  System Uses EGU Span: ☐

PHD Field Name	Source System Field Name
DSCR	DESC
HI_EXTREME	HIGH
LO_EXTREME	LOW
SRC_INDEXA	INDEX
SRC_TAGNAME	SRCTAG
TAGNAME	PHDTAG
UNITS	UNITS
*	

## Tag Load “One to Many” - Exercise 3, *continued*

### Tag Load Interface Configuration Form

1. Call up the Tag Load Interface Configuration Form.
2. Query for your interface type ITYPEnn (where nn is your machine name).
3. The IND field name does not appear in the Column Name list box. Why not?\_\_\_\_\_

Tagtype ID/ Source Column Name	PHD Tagtype/ Operator	Sequence/ Match Value	PHD Format
ALLTAGS	R		
DESC	Is	NULL	
* Column Name	PHD Field Name		
DESC	DSCR		
HIGH	HI_EXTREME		
INDEX	SRC_INDEXA		
LOW	LO_EXTREME		
PARAMETER	SRC_ATTRIB		
PHDTAG	TAGNAME		
SRC TAG	SRC_TAGNAME		

IND is not in the list box because it was not entered into the Source System Configuration form.

IND does not need to be entered into the form because it does not map to any field in the IP\_TAG table.

# Tag Load “One to Many” - Exercise 3, *continued*

## Tag Load Interface Configuration Form, continued

- The ALLTAGS method of your previous Tag Load, does not apply to your new file format, so you need to replace it.

Make the following entries creating four different tag types to use later in the Tag Load Attribute Processing form:

(If the Tag Loader finds HPMCTL in the IND column of the .CSV file, it will classify the tag in that row into four different tag types (PV, SP, OP, and MODE). The processing that the Tag Loader performs for each tag type is defined in the Attribute Processing forms.)

The screenshot shows the 'Interface Configuration' form in TotalPlant. The 'Interface Type' is 'ITYPENN' and the 'Source System' is 'TDC\_LXS'. The 'Tag Type' tab is selected. The table below shows the configuration for four tag types (PV, SP, OP, and MODE) based on the 'IND' column value 'HPMCTL'.

Tagtype ID/ Source Column Name	PHD Tagtype/ Operator	Sequence/ Match Value	PHD Format
PV	R		<input type="checkbox"/>
IND	=	HPMCTL	
SP	R		<input type="checkbox"/>
IND	=	HPMCTL	
OP	R		<input type="checkbox"/>
IND	=	HPMCTL	
MODE	E		<input type="checkbox"/>
IND	=	HPMCTL	

# Tag Load “One to Many” - Exercise 3, *continued*

---

## Grandparents and Parents

1. Turn Store off for your Grandparent tag GRANDnn. (After your tagload is successful, you will turn it on again.)

2. Go to Tag Configuration (Window/Tag Configuration) and create a Parent Tag for PVs.

Tagname	PVPARENTnn
Class	X
Parent Tag	GRANDnn (the grandparent you created earlier)
Description	(your choice)

**Helpful Hint:** To copy a record, click on the left column of the PV tag (it becomes shaded). Do a Copy (Control/C), then do a Paste Append from the Edit menu.

3. Modify the record to create a Parent Tag for setpoints (SPPARENTnn).

Tagname	SPPARENTnn
Class	X
Parent Tag	GRANDnn (the grandparent you created earlier)
Description	(your choice)
Scan Seconds	120

## Tag Load “One to Many” - Exercise 3, *continued*

---

4. Create another Parent Tag for outputs (OPPARENTnn):

Tagname	OPPARENTnn
Class	X
Parent Tag	GRANDnn (the grandparent you created earlier)
Description	(your choice)
High Extreme	106.9
Lo Extreme	-6.9

5. Create a Parent Tag for modes (MODEPARENTnn):

Tagname	MODEPARENTnn
Class	X
Parent Tag	GRANDnn (the grandparent you created earlier)
Description	(your choice)
ScanSeconds	120

# Tag Load “One to Many” - Exercise 3, *continued*

---

## Attribute Processing Form

1. Call up the Attribute Processing form to define the “one to many relationship” (one source tagname to many PHD tags).
2. Enter a query for your interface type (ITYPENn).
3. Notice that the tagtypes you defined in the previous form are listed in the list box for Tagtype IDs.
4. Enter the processing for the PV class of tags:

Attribute Processing		Enter Query		TotalPlant	
Interface Type	ITYENN	Tagtype ID	PV		
Source Attribute	PV	Tag Extension	PV		
Check Column		Check Value			
Name of tag field		Processing Options		Create Only?	
Value for field					
PARENT_TAGNAME		<input type="radio"/> Default Value <input type="radio"/> Value Prefix		<input type="checkbox"/>	
PVPARENTNN		<input type="radio"/> Value Suffix <input checked="" type="radio"/> Override input value			

This is the attribute (parameter name) that the tagloader will write into the SRC\_ATTRIB field of the Oracle IP\_TAG table for all rows in the .CSV file that the tagloader classifies as belonging to the PV tag type (per the condition specified in the Tagload Interface Configuration. Whew!)

## Tag Load “One to Many” - Exercise 3, *continued*

---

### Attribute Processing Form, continued

- Go to the next record (form) and enter the processing for SP:

Attribute Processing		Enter Query	TotalPlant
Interface Type	ITYPENN	Tagtype ID	SP
Source Attribute	SP	Tag Extension	SP
Check Column		Check Value	
Name of tag field	Processing Options	Create Only?	
Value for field			
PARENT_TAGNAME	<input type="radio"/> Default Value <input type="radio"/> Value Prefix	<input type="checkbox"/>	
SPPARENTNN	<input type="radio"/> Value Suffix <input checked="" type="radio"/> Override input value		



## Tag Load “One to Many” - Exercise 3, *continued*

### Attribute Processing Form, continued

6. Go to the next record (form) and enter the processing for OP as shown below.

**Helpful Hint:** Be sure to select the “override input value” option for fields that have values in the .CSV file or a parent.

Attribute Processing		Enter Query	TotalPlant
Interface Type	ITYENN	Tagtype ID	OP
Source Attribute	OP	Tag Extension	OP
Check Column		Check Value	
Name of tag field	Processing Options	Create Only?	
PARENT_TAGNAME	<input type="radio"/> Default Value <input type="radio"/> Value Suffix <input checked="" type="radio"/> Value Prefix <input checked="" type="radio"/> Override input value	<input type="checkbox"/>	
HI_EXTREME	<input type="radio"/> Default Value <input type="radio"/> Value Suffix <input checked="" type="radio"/> Value Prefix <input checked="" type="radio"/> Override input value	<input type="checkbox"/>	
LO_EXTREME	<input type="radio"/> Default Value <input type="radio"/> Value Suffix <input checked="" type="radio"/> Value Prefix <input checked="" type="radio"/> Override input value	<input type="checkbox"/>	
QUANTUM	<input type="radio"/> Default Value <input type="radio"/> Value Suffix <input checked="" type="radio"/> Value Prefix <input checked="" type="radio"/> Override input value	<input type="checkbox"/>	

## Tag Load “One to Many” - Exercise 3, *continued*

---

Attribute Processing Form, continued

7. Move to the next record (form) and enter the processing for MODE:

Attribute Processing		Enter Query	TotalPlant
Interface Type	ITYPENN	Tagtype ID	MODE
Source Attribute	MODE	Tag Extension	MODE
Check Column		Check Value	
Name of tag field	Processing Options		Create Only?
Value for field			
PARENT_TAGNAME	<input type="radio"/> Default Value	<input type="radio"/> Value Prefix	<input type="checkbox"/>
MODEPARENTNN	<input type="radio"/> Value Suffix	<input checked="" type="radio"/> Override input value	

# Tag Load “One to Many” - Exercise 3, *continued*

---

## Tag Loader

Go to the Tag Loader and do a Tag Load using your new Tag Load data file c:\TEMP\3GUESTnn.CSV

## Tagload Form

1. Interface Name
2. Interface Type
3. Source System
4. Tag Prefix                      Gnn.
5. Collector Name                TDC1
6. Select “Update Existing Tags.”

## After the Load Completes

7. Send Changes to PHD?    NO

# Tag Load “One to Many” - Exercise 3, *continued*

---

## Check Tag Configuration

1. Return to the Tag Configuration and query for your tags with the Gnn prefix.
2. Check the configuration of the PV, SP, OP, and MODE tags.

Check the range and quantum of the OP and MODE tags.

*If the quantum is not -1 for the PV and SP tags, it is because you did not include a quantum in their Attribute Processing forms*

*The .CSV file loaded high/low values, causing PHD to recalculate the quantum and override the value carried forward from the parent. If you put a -1 quantum with override in the attribute processing forms for the PV and SP tag types and rerun the tagload, the quantum will be -1.*

# Tag Load “One to Many” - Exercise 3, *continued*

---

## Update Tags/View Logs

1. If your tags are OK, go to their parent tags and turn on storing.
2. Go to PHDMAN and do UPDATE TAG FULL.
3. Look at TAGLOAD.LOG in the TEMP directory to see the Tag Load results.
4. Look at TAGUP.OUT in SITETEMP to see the update command results.

END OF EXERCISE 3

# Doc Tool For Tagload - Exercise 4

*If you plan to use the Honeywell LCN Documentation Tool in the future to create data files for PHD tagloads, you should do this exercise.*

*For this exercise, the Honeywell LCN Documentation Tool Query function was used to create a text file. The Doc Tool text file was transferred from the LCN to a PC using the Honeywell File Transfer application.*

*In this exercise, you will massage the file as necessary to allow it to be used by the Tag Loader.*

## Instructions:

1. Copy your instructor's Doc Tool file named HPM15 .XX to your machine and name it 4GUESTnn.XX.
2. Open the file in WordPad and massage the file as necessary:
  - Copy the field names to the appropriate column header positions (see at right).
  - Delete the DEFINE FIELD lines.
  - Replace the exclamation point characters ( !!! ) with a blank.
3. Save the file as 4GUESTnn.OUT.

```
.DEFINE_FIELD ENTITY 20 STRING      SHOW 2
.DEFINE_FIELD PTDESC 25 STRING      SHOW 8
.DEFINE_FIELD PVEUHI 13 NUMBER      SHOW 5
.DEFINE_FIELD PVEULO 13 NUMBER      SHOW 6
.DEFINE_FIELD ENT_TYPE 10 STRING     SHOW 7
.DEFINE_FIELD PTDESC 25 STRING      SHOW 8

SIMLT941      !!!      !!!      !!!      !!!      PRMODNIM
REACT941      !!!      !!!      !!!      !!!      PRMODNIM
FILL2941      !!!      !!!      !!!      !!!      PRMODNIM
FILL3941      !!!      !!!      !!!      !!!      PRMODNIM
FIC21941      KLB/HR    STM. FLO    60.000000000 0.000000000 REGCLNIM
TIC21941      DEG. C    STM TEMP   150.000000000 0.000000000 REGCLNIM
FY21941      GALLONS    A TOTAL     250.000000000 0.000000000 REGPVNIM
FY22941      GALLONS    B TOTAL     250.000000000 0.000000000 REGPVNIM
FY23941      GALLONS    DRN TOTL    500.000000000 0.000000000 REGPVNIM
FVL21941      A FEED     !!!      !!!      DICMPNIM
FVL22941      B FEED     !!!      !!!      DICMPNIM
DVL23941      DRAIN      !!!      !!!      DICMPNIM
AG24941      AGITATOR    MOTOR      !!!      !!!      DICMPNIM
INGA941      GALLONS    SOLTN A     !!!      !!!      NUMERNIM
INGB941      GALLONS    SOLTN B     !!!      !!!      NUMERNIM
```

## Doc Tool For Tagload - Exercise 4, *continued*

3. Open the .OUT file in Excel.

END OF EXERCISE 4

### Text Import Wizard - Step 2 of 3

This screen lets you set field widths (column breaks).

Lines with arrows signify a column break.

To CREATE a break line, click at the desired position.

To DELETE a break line, double click on the line.

To MOVE a break line, click and drag it.

Data Preview

ENTITY	EUDESC	KEYWORD	PVEUHI	PVEU
SIMLT941				
REACT941				
FIC21941	KLB/HR	STM. FLO	60.000000000	0.00
TIC21941	DEG. C	STM TEMP	150.000000000	0.00
FY21941	GALLONS	A TOTAL	250.000000000	0.00

Cancel

< Back

Next >

Finish

### Text Import Wizard - Step 1 of 3

The Text Wizard has determined that your data is Fixed Width.  
If this is correct, choose Next, or choose the Data Type that best describes your data.

Original Data Type

Choose the file type that best describes your data:

- ☐ Delimited - Characters such as commas or tabs separate each field (Excel 4.0 standard).  
☒ Fixed Width - Fields are aligned in columns with spaces between each field.

Start Import at Row: 1

File Origin: Windows (ANSI)

Preview of file \\Actph01\PHD\_xx\TAGLOAD\HPM15.out.

1	ENTITY	EUDESC	KEYWORD	PVEUHI	PV
2	SIMLT941				
3	REACT941				
4	FIC21941	KLB/HR	STM. FLO	60.000000000	0.
5	TIC21941	DEG. C	STM TEMP	150.000000000	0.
6	FY21941	GALLONS	A TOTAL	250.000000000	0.

Cancel

< Back

Next >

Finish

# Tagload Practice- Exercise 5

---

*If you plan to perform PHD tagloads of Honeywell TPS system tags, do this exercise.*

*In this exercise, you will use the Tag Loader to historize all of the parameters contained in a Honeywell Native Window schematic. Later in the course, you will be able to replay PHD data through the schematic using the TDC Viewer application.*

1. Obtain from your instructor the data file containing the schematic tags. If you did Exercise 6, then use your file from that exercise.
2. Verify that all of the DCS tag names in the reactor schematic (see next page) are listed in the data file.

If all of the tag names are not listed, edit the file as necessary.



# Tag Load Practice - Exercise 5, *continued*

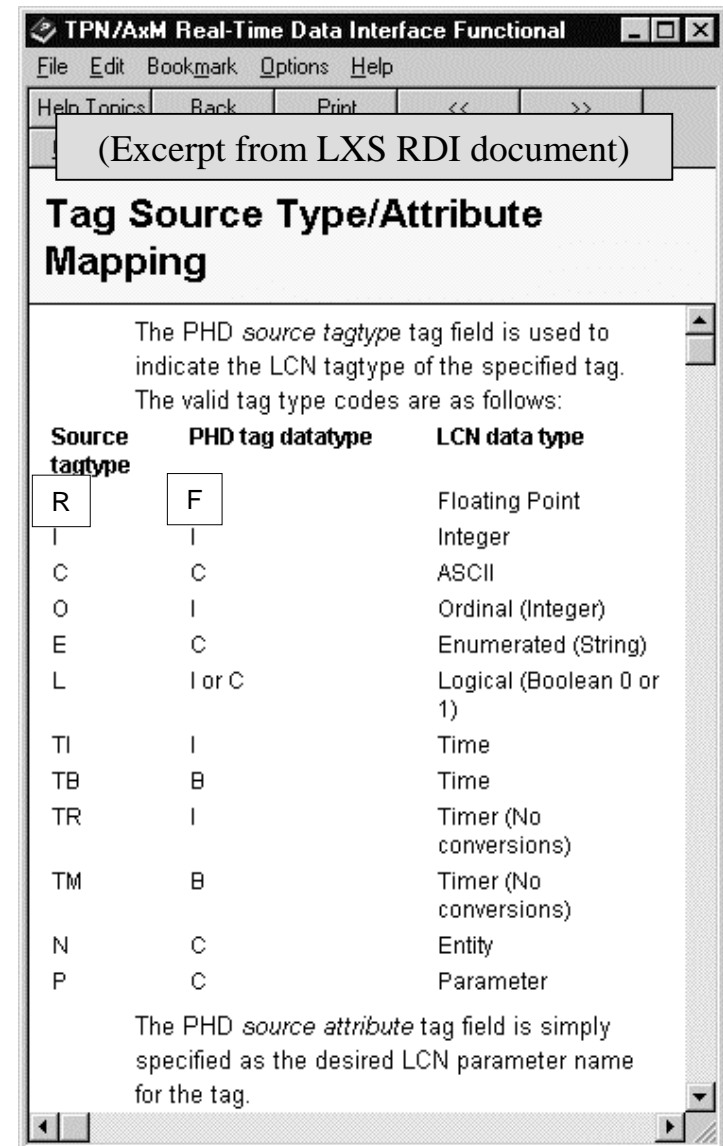
## Collection Set for Native Window schematic REACT###.DS:

Entity	Parameter	Type	Entity	Parameter	Type	Entity	Parameter	Type
FIC21### (REGCLNIM)	.EUDESC	entity ID string	FY23### (REGPVNIM)	.AVTV	entity ID real	INGA### (NUMERNIM)	.PV	entity ID real
	.KEYWORD	string		.KEYWORD	string			
	.PVEUHI	real		.P1	real	INGB941 (NUMERNIM)	.PV	entity ID real
	.PVEULO	real		.PV	real			
	.PV	real		.STATE	enumeration			
	.SP	real				STATE### (FLAGNIM)	.PV	entity ID sd_enum
	.OP	real						
	.MODE	real				FULMT### (FLAGNIM)	.PV	entity ID sd_enum
TIC21### (REGCLNIM)	.EUDESC	entity ID string						
	.KEYWORD	string				CLNDT### (FLAGNIM)	.PV	entity ID sd_enum
	.PVEUHI	real						
	.PVEULO	real						
	.PV	real						
	.SP	real						
	.OP	real						
	.MODE	real						
FY21### (REGPVNIM)	.AVTV	entity ID real	AGTIM### (TIMERNIM)	.KEYWORD	entity ID string	FVL21### (DICMPNIM)	.I0	entity ID boolean
	.KEYWORD	string		.PV (0-55 secs)	integer		.KEYWORD	string
	.P1	real		.SO	boolean		.PV	sd_enum
	.PV	real		.SP	integer	FVL22### (DICMPNIM)	.I0	entity ID boolean
	.STATE	enumeration					.KEYWORD	string
			REACT### (PRMODNIM)	.MSGPEND	entity ID boolean		.PV	sd_enum
				.RUNSTATE	boolean			
				.STR32(1)	string	DVL23### (DICMPNIM)	.I0	entity ID boolean
				.TIME(03)	date/time		.KEYWORD	string
FY22### (REGPVNIM)	.AVTV	entity ID real	LI24### (AINNIM)	.KEYWORD	entity ID string		.PV	sd_enum
	.KEYWORD	string		.PV	real	AG24### (DICMPNIM)	.KEYWORD	entity ID string
	.P1	real		.PVP	real		.PV	sd_enum
	.PV	real						
	.STATE	enumeration						

# Tag Load Practice - Exercise 5, *continued*

3. Add the schematic parameters (listed below) to your Tag Source Configuration form, if not there already.

LCN Parameter	LCN Data Type
AVTV	Real
EUDESC	String
I0	Boolean
KEYWORD	String
MSGPEND	Boolean
P1	Real
PV (analog, numeric)	Real
PV (flag, digital)	Sd_enum
PV (timer)	Integer
PVEUHI	Real
PVEULO	Real
PVP	Real
RUNSTATE	Boolean
SO	Boolean
SP (analog)	Real
SP (timer)	Integer
STATE	Enumeration
STR32(n)	String
TIME(n)	Date/time



## Tag Load Practice - Exercise 5, *continued*

---

4. Determine what you want to use for your tag hierarchy and configure the parent tags, if any.
5. Configure your tagload forms:
  - Tagload Source System Configuration
  - Tagload Interface Configuration
  - (Source System = TDC\_LXS)

PHD Field Name	Source System Field Name
DSCR	PTDESC
HI_EXTREME	PVEUHI
LO_EXTREME	PVEULO
SRC_TAGNAME	ENTITY
TAGNAME	ENTITY
UNITS	EUDESC

6. Perform the Tag Load.

END OF EXERCISE 7

# Honeywell

---

*Helping You Manage Your World*