



## **Setup Examples**

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# **Project Tag Database Setup Example**

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## Project Tag Database Manager

The Project Tag Database Manager (PTDBM) simplifies project management by consolidating tag name definitions. Once defined, tags are automatically available to all NetSuite applications. The Project Tag Database Manager is also used to configure devices for NetSuite applications.

Tags can be added to the Project Tag Database in several ways.

- Tags may be typed directly into the Tags page of the Project Tag Database Manager.
- Tags may be imported from a Tag Table File created with a spreadsheet application.
- Tags are added if you assign tag names to objects in NetArrays, and then download the project to a target device or simulator.
- Tags are added if an upload command from a target device is performed.

This setup example demonstrates how to:

- 1) Create tags in an excel spreadsheet
- 2) Define alarm parameters
- 3) Import tag list into the PTDBM
- 4) Import tag list from PTDB into the NetArrays projects
- 5) Assign imported tags to I/O card channels
- 6) Import the tag list into the RTPADA

## Defining Tags in Excel

There is a tag table file template installed during the RTP NetSuite software installation for defining tags in an excel spreadsheet. The default location of the file is C:\RTP NetSuite\PTDBM\Import\_Table.xls.

Note: When entering a tag name, the following rules apply:

- Tag names must begin with a letter.
- No more than 22 characters are allowed for a tag name.
- Blank spaces, dashes, hyphens, commas, slashes, quotation marks, and parentheses are not allowed in Tag names.
- Tag names entered must be unique throughout a project. If a Project Tag Database contains multiple nodes, tag names should be unique across all projects.

### Tag Table File Editing

The Import\_Table.xls file may be modified to define all user tags. Upon completion, it should be saved as a comma separated variable (.csv) file. This file is used for importing tag names into the Project Tag Database.

The following creates a list of I/O channel tags, which will be imported and assigned to a 32 channel analog input card in Rack 00 slot 4 of a 3000Q/00-13 quad system.

- Open the Import\_Table.xls
- Click the help tab for a description of each field.
- Enter LIC\_100 in cell A2 and use the auto-fill to generate tags LIC\_101 thru LIC\_132.
- Enter the additional alarming specifications and comments for the tags generated as shown in Figure 2:

Note 1- the yellow highlighted cells are fields to define the alarm configuration.

Note 2- the first line must contain the column header names as shown below in Figure 1.

Tag	Group	Name	Priority	Engine	Hardware	Digital	Trigger	Low	Low	High	High	High	DevSet	DevAlarm	Deadband	Condition	Application	Parameters	Description	Delta	Archive	SOE	SOE Low	SOE High	OPC	Comment
-----	-------	------	----------	--------	----------	---------	---------	-----	-----	------	------	------	--------	----------	----------	-----------	-------------	------------	-------------	-------	---------	-----	---------	----------	-----	---------

Figure 1

## Project Tag Database Manager Setup Example

Tag	Group	Name	Priority	Engine	Hardware	Digital_Trigger	Low	Low	High	HighHigh	DevSet	DevAlarm	Deadband	Condition	Application	Parameters	Description	Delta	Archive	SOE	SOE_Low	SOE_High	OPC	Comment
LIC_100	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 100		1					AI Level R00S04C00
LIC_101	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 101		1					AI Level R00S04C01
LIC_102	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 102							AI Level R00S04C02
LIC_103	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 103							AI Level R00S04C03
LIC_104	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 104							AI Level R00S04C04
LIC_105	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 105							AI Level R00S04C05
LIC_106	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 106							AI Level R00S04C06
LIC_107	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 107							AI Level R00S04C07
LIC_108	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 108							AI Level R00S04C08
LIC_109	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 109							AI Level R00S04C09
LIC_110	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 110							AI Level R00S04C10
LIC_111	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 111							AI Level R00S04C11
LIC_112	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 112							AI Level R00S04C12
LIC_113	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 113							AI Level R00S04C13
LIC_114	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 114							AI Level R00S04C14
LIC_115	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 115							AI Level R00S04C15
LIC_116	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 116							AI Level R00S04C16
LIC_117	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 117							AI Level R00S04C17
LIC_118	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 118							AI Level R00S04C18
LIC_119	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 119							AI Level R00S04C19
LIC_120	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 120							AI Level R00S04C20
LIC_121	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 121							AI Level R00S04C21
LIC_122	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 122							AI Level R00S04C22
LIC_123	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 123							AI Level R00S04C23
LIC_124	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 124							AI Level R00S04C24
LIC_125	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 125							AI Level R00S04C25
LIC_126	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 126							AI Level R00S04C26
LIC_127	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 127							AI Level R00S04C27
LIC_128	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 128							AI Level R00S04C28
LIC_129	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 129							AI Level R00S04C29
LIC_130	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 130							AI Level R00S04C30
LIC_131	1	LEVEL	1				10	20	80	90							LEVEL_ALARM 131							AI Level R00S04C31

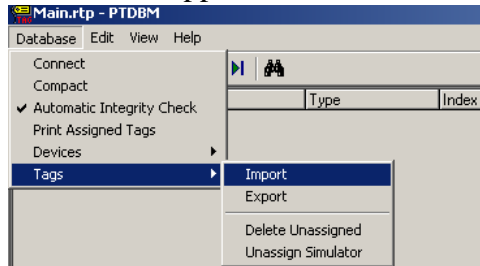
**Figure 2**

- Save the file as Import\_Table\_1.csv

### Importing Tag Table List

The tag table list comma separated (.csv) file created is imported into the PTDBM by performing the following steps:

- Start the PTDBM application

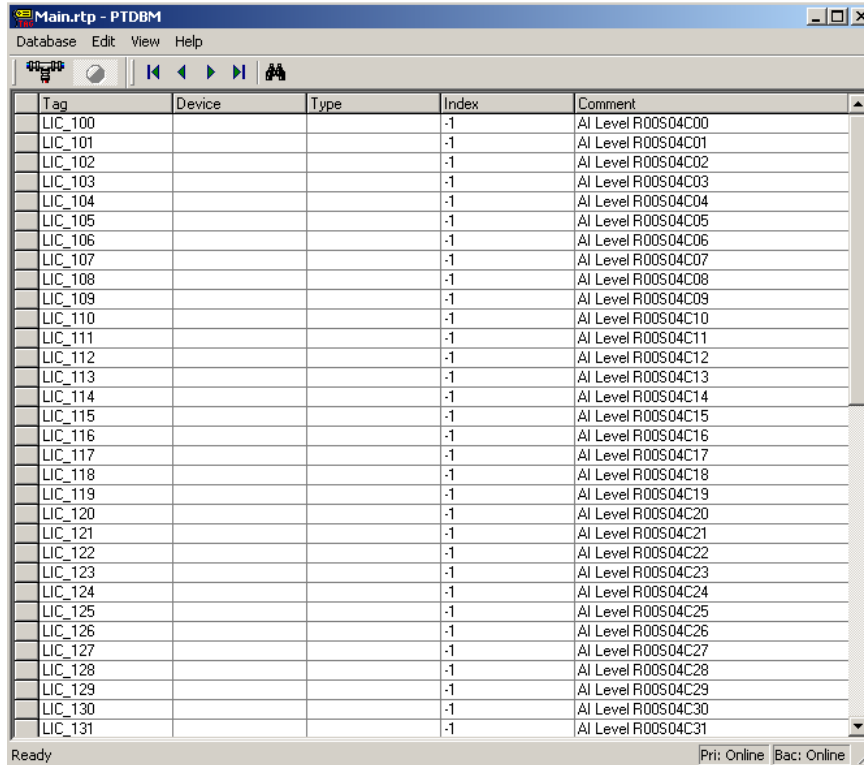


**Figure 3**

- Select “Database”, “Tags”, “Import”
- Open the Import\_Table\_1.csv file
- Select “View”, “Tags” to refresh the display and see the imported tags

The example shown in Figure 4 indicates successful import of the tags. The device, type and index are not assigned.

## Project Tag Database Manager Setup Example



The screenshot shows the PTDBM software interface with a table of tags. The table has five columns: Tag, Device, Type, Index, and Comment. The tags listed are LIC\_100 through LIC\_131, each with an Index of -1 and a Comment indicating the level and room number (e.g., 'Al Level R00S04C00').

Tag	Device	Type	Index	Comment
LIC_100			-1	Al Level R00S04C00
LIC_101			-1	Al Level R00S04C01
LIC_102			-1	Al Level R00S04C02
LIC_103			-1	Al Level R00S04C03
LIC_104			-1	Al Level R00S04C04
LIC_105			-1	Al Level R00S04C05
LIC_106			-1	Al Level R00S04C06
LIC_107			-1	Al Level R00S04C07
LIC_108			-1	Al Level R00S04C08
LIC_109			-1	Al Level R00S04C09
LIC_110			-1	Al Level R00S04C10
LIC_111			-1	Al Level R00S04C11
LIC_112			-1	Al Level R00S04C12
LIC_113			-1	Al Level R00S04C13
LIC_114			-1	Al Level R00S04C14
LIC_115			-1	Al Level R00S04C15
LIC_116			-1	Al Level R00S04C16
LIC_117			-1	Al Level R00S04C17
LIC_118			-1	Al Level R00S04C18
LIC_119			-1	Al Level R00S04C19
LIC_120			-1	Al Level R00S04C20
LIC_121			-1	Al Level R00S04C21
LIC_122			-1	Al Level R00S04C22
LIC_123			-1	Al Level R00S04C23
LIC_124			-1	Al Level R00S04C24
LIC_125			-1	Al Level R00S04C25
LIC_126			-1	Al Level R00S04C26
LIC_127			-1	Al Level R00S04C27
LIC_128			-1	Al Level R00S04C28
LIC_129			-1	Al Level R00S04C29
LIC_130			-1	Al Level R00S04C30
LIC_131			-1	Al Level R00S04C31

Figure 4

## Importing Tags Into NetArrays

The list of tags in the PTDBM is accessible for importing into the NetArrays project.

- Start NetArrays
- Select “Tags”, “Get From PTDB...”
- Select tags LIC\_100 through LIC\_131 then click Ok

## Project Tag Database Manager Setup Example

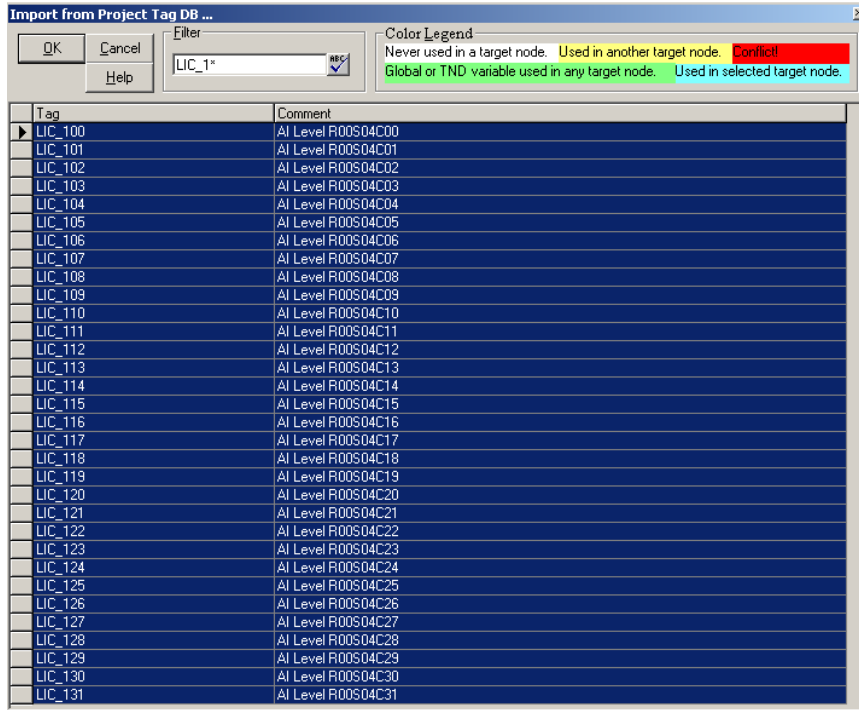



Figure 5


The tags imported into the project may be viewed in the Tags and I/O array browser.

- Click “Tags”, “Tags and I/O array browser”.... 

## Project Tag Database Manager Setup Example




Tag	Domain	IoArray	Index	Init Value	Forced	Retentive	ROnly	SIL
LIC_100	N/A	N/A	-1	False	False	False	False	N/A
LIC_101	N/A	N/A	-1	False	False	False	False	N/A
LIC_102	N/A	N/A	-1	False	False	False	False	N/A
LIC_103	N/A	N/A	-1	False	False	False	False	N/A
LIC_104	N/A	N/A	-1	False	False	False	False	N/A
LIC_105	N/A	N/A	-1	False	False	False	False	N/A
LIC_106	N/A	N/A	-1	False	False	False	False	N/A
LIC_107	N/A	N/A	-1	False	False	False	False	N/A
LIC_108	N/A	N/A	-1	False	False	False	False	N/A
LIC_109	N/A	N/A	-1	False	False	False	False	N/A
LIC_110	N/A	N/A	-1	False	False	False	False	N/A
LIC_111	N/A	N/A	-1	False	False	False	False	N/A
LIC_112	N/A	N/A	-1	False	False	False	False	N/A
LIC_113	N/A	N/A	-1	False	False	False	False	N/A
LIC_114	N/A	N/A	-1	False	False	False	False	N/A
LIC_115	N/A	N/A	-1	False	False	False	False	N/A
LIC_116	N/A	N/A	-1	False	False	False	False	N/A
LIC_117	N/A	N/A	-1	False	False	False	False	N/A
LIC_118	N/A	N/A	-1	False	False	False	False	N/A
LIC_119	N/A	N/A	-1	False	False	False	False	N/A
LIC_120	N/A	N/A	-1	False	False	False	False	N/A
LIC_121	N/A	N/A	-1	False	False	False	False	N/A
LIC_122	N/A	N/A	-1	False	False	False	False	N/A
LIC_123	N/A	N/A	-1	False	False	False	False	N/A
LIC_124	N/A	N/A	-1	False	False	False	False	N/A
LIC_125	N/A	N/A	-1	False	False	False	False	N/A
LIC_126	N/A	N/A	-1	False	False	False	False	N/A
LIC_127	N/A	N/A	-1	False	False	False	False	N/A
LIC_128	N/A	N/A	-1	False	False	False	False	N/A
LIC_129	N/A	N/A	-1	False	False	False	False	N/A
LIC_130	N/A	N/A	-1	False	False	False	False	N/A
LIC_131	N/A	N/A	-1	False	False	False	False	N/A
RTP_C00_CP_Online	Bool Variable	25	False	False	True	True	True	True
RTP_C00_CP_PathA	Bool Variable	26	False	False	True	True	True	True
RTP_C00_CP_PathB	Bool Variable	27	False	False	True	True	True	True
RTP_C00_Errors	Bool Variable	22	False	False	True	True	True	True

Figure 6

The screw in the up position , domain and IoArray type “N/A” indicates the imported tags have not been assigned.

### Assigning Imported Tags To I/O

The IO configurator allows the user to select the type of node CPU configuration, chassis type and I/O cards for the individual slots. The user may auto-assign tags to the channels of the IO Cards or select tags from the list of unassigned tags as shown above.

- Close the Tags and IO array browser
- Click the IO Configuration button on the main toolbar 
- Select and drag the 3000Q/00-13 CPU node from the list on the right pane, drop into the empty Node=00 box
- Click the plus to expand the chassis   Rack 00=3000 Rack and display the I/O slots



## Project Tag Database Manager Setup Example

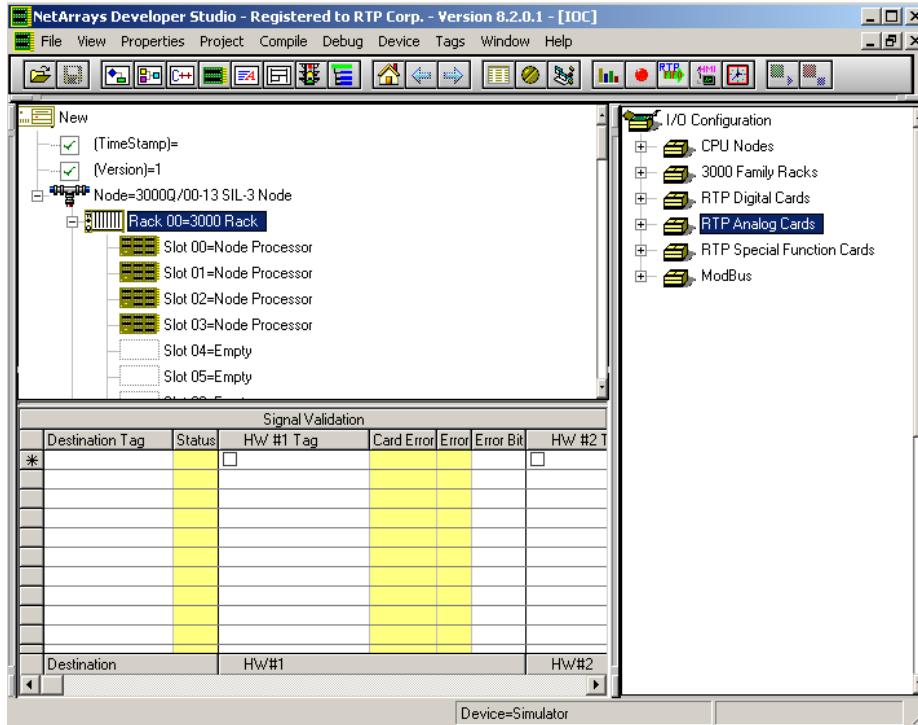


Figure 7

- Expand the box “RTP Analog Cards”
- Drag and drop the “3015/00 32-Ch Single-ended AI card” into slot 4.
- The Auto Tag Generation dialog box will appear as shown below:

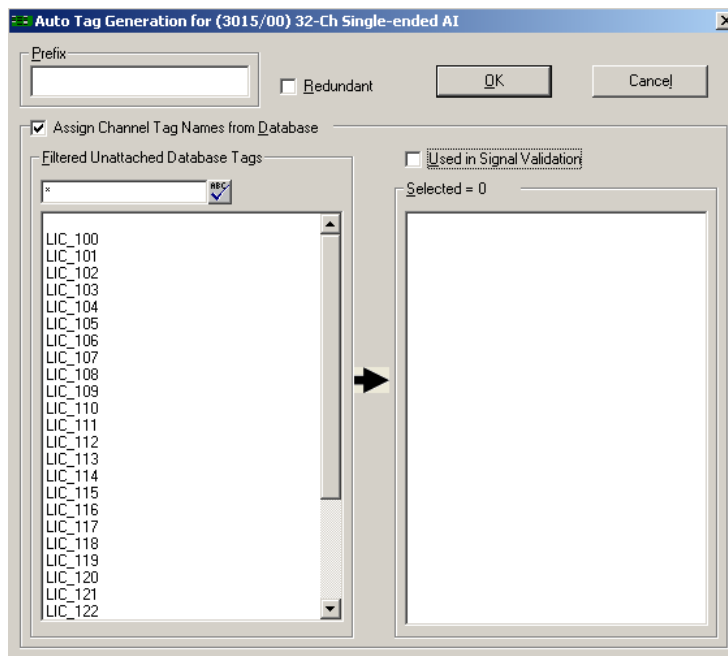


Figure 8

Project Tag Database Manager Setup Example

- Enter as the prefix “R00S04\_”
- Check the box Assign Channel Tag Names from Database
- Click the “LIC\_100” tag to assign this tag to channel 0.
- Press the shift key and select “LIC\_131” to assign the remaining channels 1-31
- Click the “OK” button

The channels have now been assigned to the I/O card. The I/O card property will indicate the tags as they have been assigned to each of the I/O channels.

- Select the I/O card and left mouse click to select “property”.

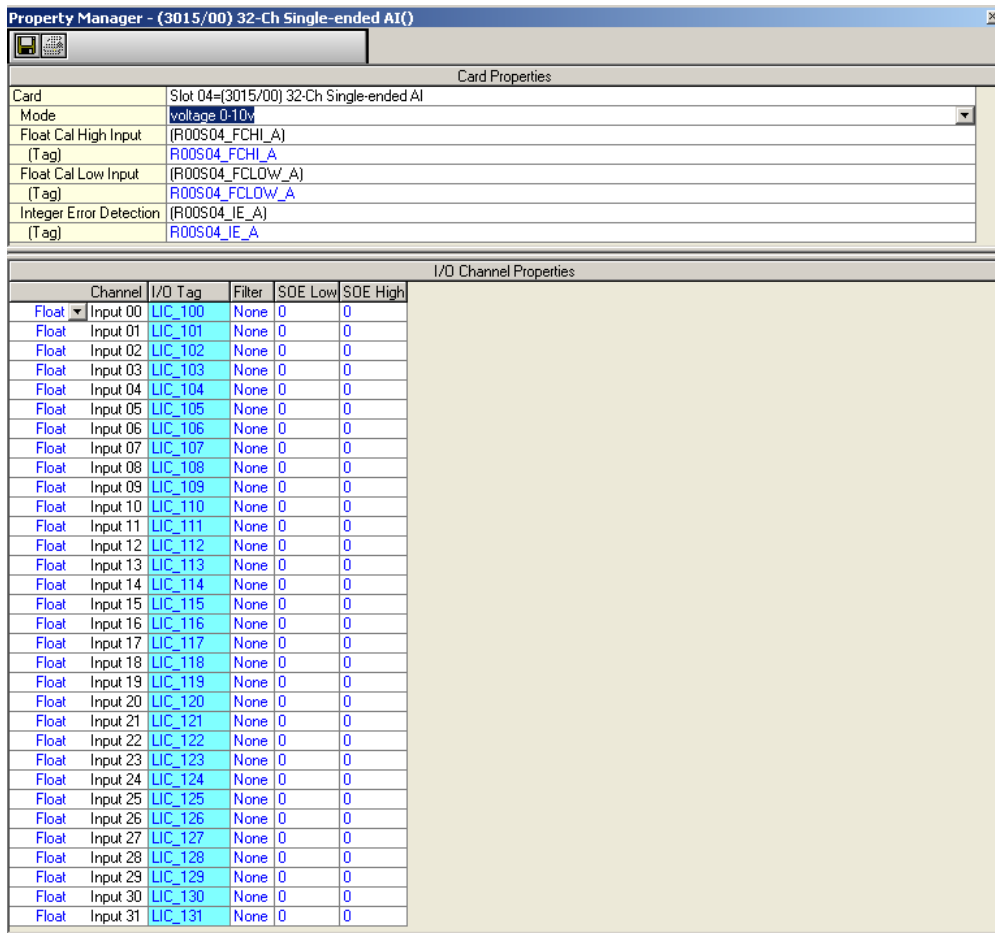



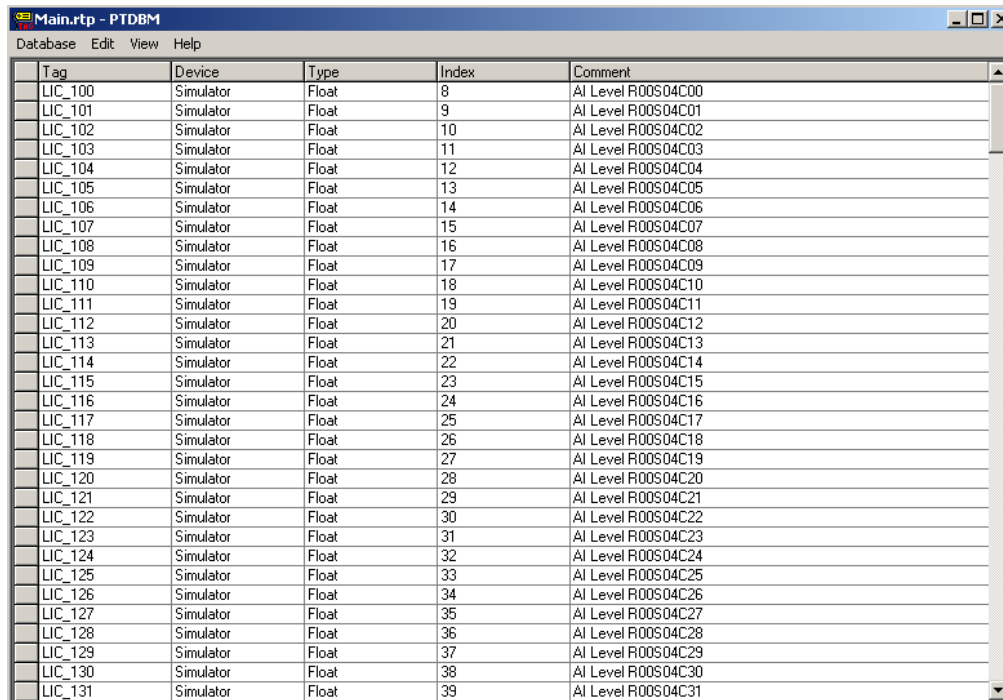


Figure 9

The tags generated for this card may be copied and pasted into a module form for user application logic.

## Project Tag Database Manager Setup Example

- Right mouse click on the I/O card icon  Slot 04=(3026/00) 32-Ch AI and select “copy as is”
- Navigate to the main page  and double click on “MForm1”
- Left mouse click in cell A1 and select “paste”
- Save  the NetArrays project file as “PTDB\_EX”
- Main menu bar, select “Device”, scroll to “select”, select simulator
- Select “Device”, “Download Project” and yes to overwrite
- Main menu bar, select “Tags”, select “PTDB manager”
- Select “View” then “Tags” and observe PTDB is updated with tag assignment information as shown below:




The screenshot shows a window titled "Main.rtp - PTDBM" with a menu bar (Database, Edit, View, Help) and a table with the following data:

Tag	Device	Type	Index	Comment
LIC_100	Simulator	Float	8	AI Level R00504C00
LIC_101	Simulator	Float	9	AI Level R00504C01
LIC_102	Simulator	Float	10	AI Level R00504C02
LIC_103	Simulator	Float	11	AI Level R00504C03
LIC_104	Simulator	Float	12	AI Level R00504C04
LIC_105	Simulator	Float	13	AI Level R00504C05
LIC_106	Simulator	Float	14	AI Level R00504C06
LIC_107	Simulator	Float	15	AI Level R00504C07
LIC_108	Simulator	Float	16	AI Level R00504C08
LIC_109	Simulator	Float	17	AI Level R00504C09
LIC_110	Simulator	Float	18	AI Level R00504C10
LIC_111	Simulator	Float	19	AI Level R00504C11
LIC_112	Simulator	Float	20	AI Level R00504C12
LIC_113	Simulator	Float	21	AI Level R00504C13
LIC_114	Simulator	Float	22	AI Level R00504C14
LIC_115	Simulator	Float	23	AI Level R00504C15
LIC_116	Simulator	Float	24	AI Level R00504C16
LIC_117	Simulator	Float	25	AI Level R00504C17
LIC_118	Simulator	Float	26	AI Level R00504C18
LIC_119	Simulator	Float	27	AI Level R00504C19
LIC_120	Simulator	Float	28	AI Level R00504C20
LIC_121	Simulator	Float	29	AI Level R00504C21
LIC_122	Simulator	Float	30	AI Level R00504C22
LIC_123	Simulator	Float	31	AI Level R00504C23
LIC_124	Simulator	Float	32	AI Level R00504C24
LIC_125	Simulator	Float	33	AI Level R00504C25
LIC_126	Simulator	Float	34	AI Level R00504C26
LIC_127	Simulator	Float	35	AI Level R00504C27
LIC_128	Simulator	Float	36	AI Level R00504C28
LIC_129	Simulator	Float	37	AI Level R00504C29
LIC_130	Simulator	Float	38	AI Level R00504C30
LIC_131	Simulator	Float	39	AI Level R00504C31

Figure 10

## Importing Tag List Configuration into RTPADA

The tag table list .csv file created earlier simplifies the alarm point configuration. This table is imported directly into the RTPADA (Alarm and Data Archive) system.


- Using the NetArrays short cut key, select the RTPADA button 
- Main menu, Select “File”, “Import Configuration”
- Select “File”, “Save Project as”, “TEST.mdb”
- Select the “Import\_Table\_1.csv” file previously saved

The alarm configuration table will appear as shown below.

## Project Tag Database Manager Setup Example

TagName	Device	Description	DeadBand	AlarmName	Archive
LIC_100	Simulator	LEVEL ALARM 100	0.000000	LEVEL_1	Enable
LIC_101	Simulator	LEVEL ALARM 101	0.000000	LEVEL_1	Enable
LIC_102	Simulator	LEVEL ALARM 102	0.000000	LEVEL_1	Disable
LIC_103	Simulator	LEVEL ALARM 103	0.000000	LEVEL_1	Disable
LIC_104	Simulator	LEVEL ALARM 104	0.000000	LEVEL_1	Disable
LIC_105	Simulator	LEVEL ALARM 105	0.000000	LEVEL_1	Disable
LIC_106	Simulator	LEVEL ALARM 106	0.000000	LEVEL_1	Disable
LIC_107	Simulator	LEVEL ALARM 107	0.000000	LEVEL_1	Disable
LIC_108	Simulator	LEVEL ALARM 108	0.000000	LEVEL_1	Disable
LIC_109	Simulator	LEVEL ALARM 109	0.000000	LEVEL_1	Disable
LIC_110	Simulator	LEVEL ALARM 110	0.000000	LEVEL_1	Disable
LIC_111	Simulator	LEVEL ALARM 111	0.000000	LEVEL_1	Disable
LIC_112	Simulator	LEVEL ALARM 112	0.000000	LEVEL_1	Disable
LIC_113	Simulator	LEVEL ALARM 113	0.000000	LEVEL_1	Disable
LIC_114	Simulator	LEVEL ALARM 114	0.000000	LEVEL_1	Disable
LIC_115	Simulator	LEVEL ALARM 115	0.000000	LEVEL_1	Disable
LIC_116	Simulator	LEVEL ALARM 116	0.000000	LEVEL_1	Disable
LIC_117	Simulator	LEVEL ALARM 117	0.000000	LEVEL_1	Disable
LIC_118	Simulator	LEVEL ALARM 118	0.000000	LEVEL_1	Disable
LIC_119	Simulator	LEVEL ALARM 119	0.000000	LEVEL_1	Disable
LIC_120	Simulator	LEVEL ALARM 120	0.000000	LEVEL_1	Disable
LIC_121	Simulator	LEVEL ALARM 121	0.000000	LEVEL_1	Disable
LIC_122	Simulator	LEVEL ALARM 122	0.000000	LEVEL_1	Disable
LIC_123	Simulator	LEVEL ALARM 123	0.000000	LEVEL_1	Disable
LIC_124	Simulator	LEVEL ALARM 124	0.000000	LEVEL_1	Disable
LIC_125	Simulator	LEVEL ALARM 125	0.000000	LEVEL_1	Disable
LIC_126	Simulator	LEVEL ALARM 126	0.000000	LEVEL_1	Disable
LIC_127	Simulator	LEVEL ALARM 127	0.000000	LEVEL_1	Disable

Figure 11

- Click the play button  to start the alarm manager
- Click the “Alarm” tab to display active alarms

## Project Tag Database Manager Setup Example

The screenshot shows the 'Alarm Config' window of the TEST.mdb - RTPADA(RTP Alarm & Data Archive) application. The window displays a table of active alarms with the following columns: Tagname, Status, Value, Description, Timestamp, Group, Priority, and Acknowledgement. The table contains 20 rows of data, all with a status of 'Low Low' and a value of '0'. The description for all entries is 'LEVEL ALARM' followed by a number from 100 to 129. The timestamp for all entries is '06/12/2009 11:58:23.712'. The Group and Priority for all entries are '1'. The Acknowledgement column is empty for all entries. The interface also shows a tree view on the left with categories: Process, Hardware, Log, and System. The status bar at the bottom indicates 'Ready', 'user: none', 'N - A', 'Online', and 'Printer Status'.

Tagname	Status	Value	Description	Timestamp	Group	Priority	Acknowledgement
LIC_100	Low Low	0	LEVEL ALARM 100	06/12/2009 11:58:23.712	1	1	
LIC_101	Low Low	0	LEVEL ALARM 101	06/12/2009 11:58:23.712	1	1	
LIC_102	Low Low	0	LEVEL ALARM 102	06/12/2009 11:58:23.712	1	1	
LIC_103	Low Low	0	LEVEL ALARM 103	06/12/2009 11:58:23.712	1	1	
LIC_104	Low Low	0	LEVEL ALARM 104	06/12/2009 11:58:23.712	1	1	
LIC_105	Low Low	0	LEVEL ALARM 105	06/12/2009 11:58:23.712	1	1	
LIC_106	Low Low	0	LEVEL ALARM 106	06/12/2009 11:58:23.712	1	1	
LIC_107	Low Low	0	LEVEL ALARM 107	06/12/2009 11:58:23.712	1	1	
LIC_108	Low Low	0	LEVEL ALARM 108	06/12/2009 11:58:23.712	1	1	
LIC_109	Low Low	0	LEVEL ALARM 109	06/12/2009 11:58:23.712	1	1	
LIC_110	Low Low	0	LEVEL ALARM 110	06/12/2009 11:58:23.712	1	1	
LIC_111	Low Low	0	LEVEL ALARM 111	06/12/2009 11:58:23.712	1	1	
LIC_112	Low Low	0	LEVEL ALARM 112	06/12/2009 11:58:23.712	1	1	
LIC_113	Low Low	0	LEVEL ALARM 113	06/12/2009 11:58:23.712	1	1	
LIC_114	Low Low	0	LEVEL ALARM 114	06/12/2009 11:58:23.712	1	1	
LIC_115	Low Low	0	LEVEL ALARM 115	06/12/2009 11:58:23.712	1	1	
LIC_116	Low Low	0	LEVEL ALARM 116	06/12/2009 11:58:23.712	1	1	
LIC_117	Low Low	0	LEVEL ALARM 117	06/12/2009 11:58:23.712	1	1	
LIC_118	Low Low	0	LEVEL ALARM 118	06/12/2009 11:58:23.712	1	1	
LIC_119	Low Low	0	LEVEL ALARM 119	06/12/2009 11:58:23.712	1	1	
LIC_120	Low Low	0	LEVEL ALARM 120	06/12/2009 11:58:23.712	1	1	
LIC_121	Low Low	0	LEVEL ALARM 121	06/12/2009 11:58:23.712	1	1	
LIC_122	Low Low	0	LEVEL ALARM 122	06/12/2009 11:58:23.712	1	1	
LIC_123	Low Low	0	LEVEL ALARM 123	06/12/2009 11:58:23.712	1	1	
LIC_124	Low Low	0	LEVEL ALARM 124	06/12/2009 11:58:23.712	1	1	
LIC_125	Low Low	0	LEVEL ALARM 125	06/12/2009 11:58:23.712	1	1	
LIC_126	Low Low	0	LEVEL ALARM 126	06/12/2009 11:58:23.712	1	1	
LIC_127	Low Low	0	LEVEL ALARM 127	06/12/2009 11:58:23.712	1	1	
LIC_128	Low Low	0	LEVEL ALARM 128	06/12/2009 11:58:23.712	1	1	
LIC_129	Low Low	0	LEVEL ALARM 129	06/12/2009 11:58:23.712	1	1	

Figure 12

**Congratulations!** You have successfully 1) created tags in an excel spreadsheet 2) defined the alarm parameters 3) imported tag list into the PTDBM 4) imported tag list from PTDB into the NetArrays projects 5) assigned imported tags to I/O card channels 6) imported the tag list into the RTPADA and observed them actively alarming.