

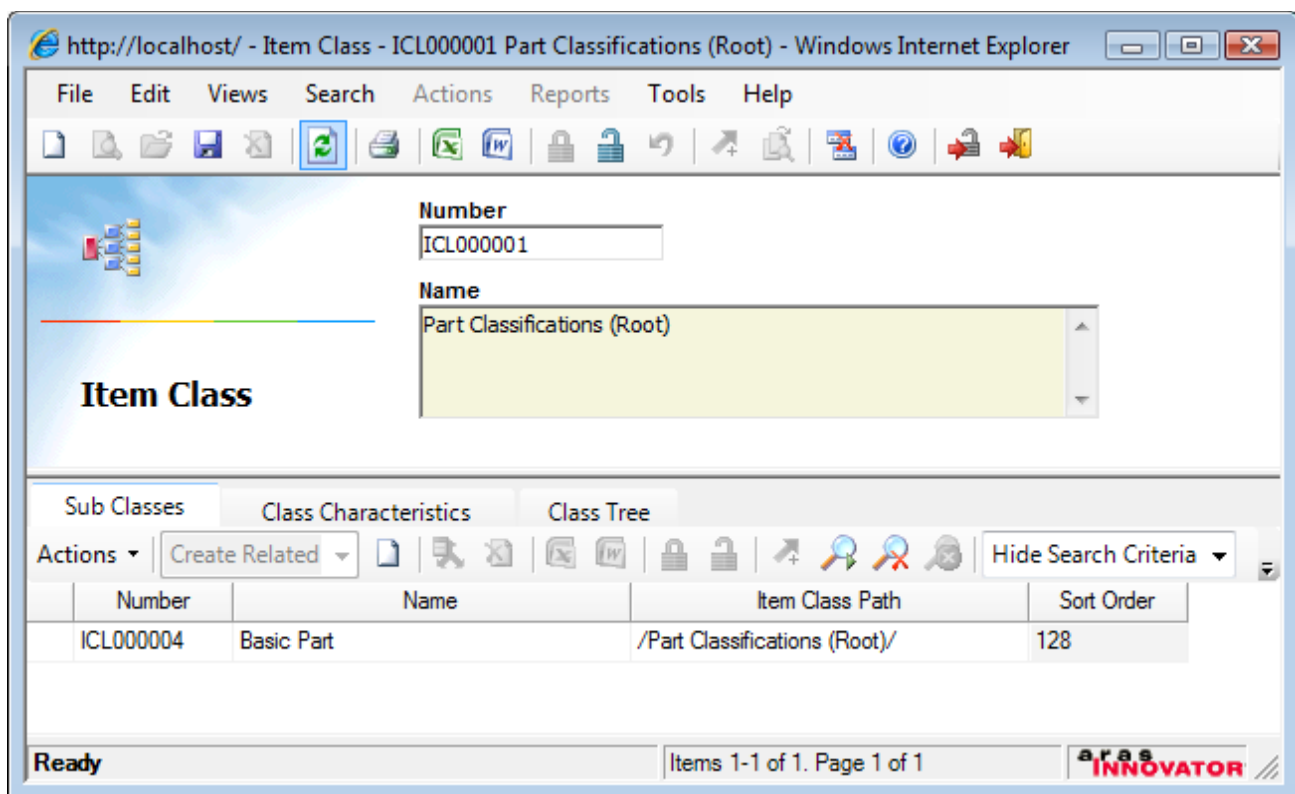
Items Characteristics And Classification

After Importing the package solution including the Data Items, a Class item is created by default with the name “Part Classifications (Root)”.

1. Adding a Part Classification item to the hierarchy

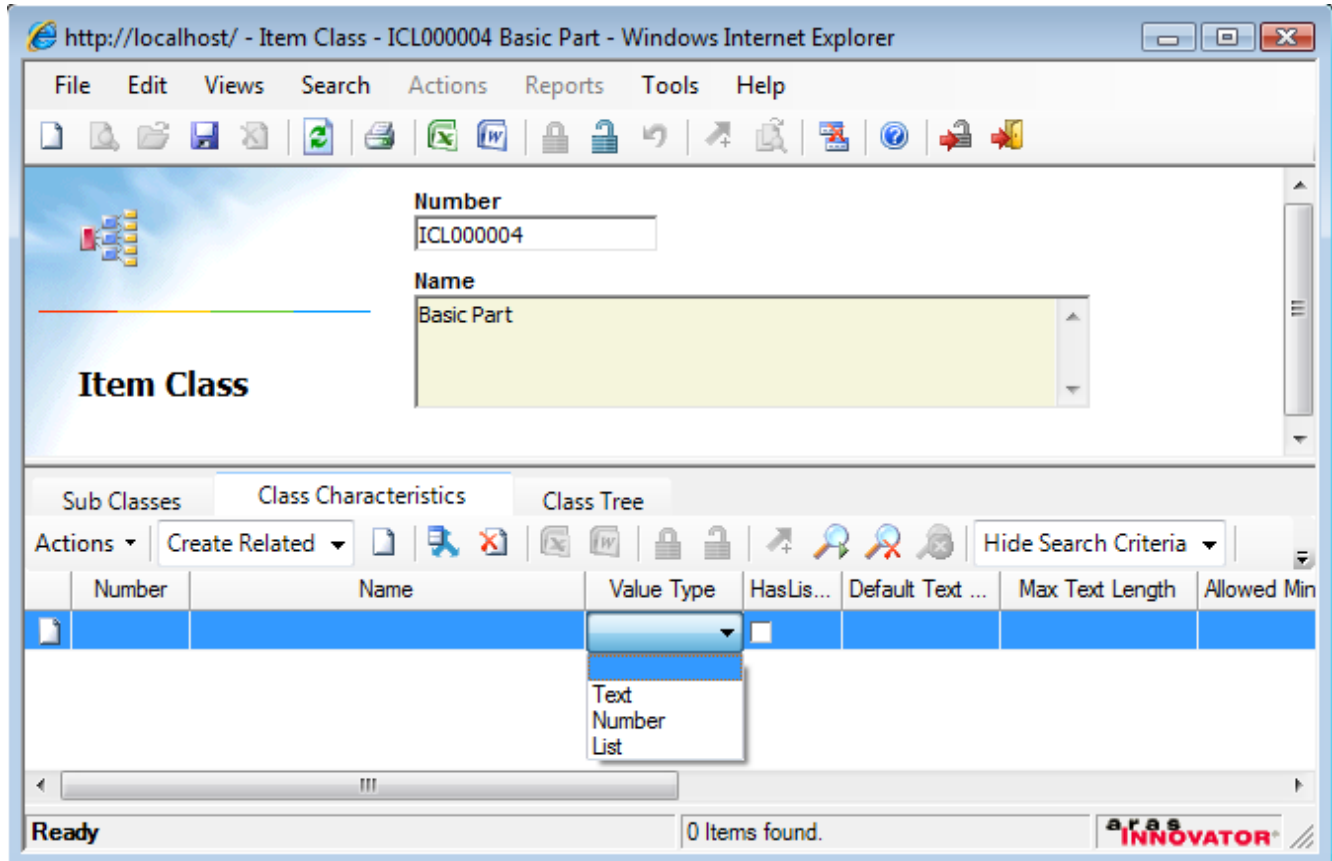
Edit the Part Classifications (Root) item:

1. Go to tab “Sub Classes”.
2. Select action “Create Related” and add a new relationship. The row added corresponds to a child Item Class.
3. Set the Name for the new Classification and save item.



2. Add characteristics to a Classification Item

1. Go to tab “Class Characteristic”
2. Select action “Create Related” and add a new relationship. The row added corresponds to a characteristic
3. Set the values for the new added characteristic. There are 3 possible value types: Text, Number and List.



According to the type selected, there are some mandatory fields to be set.

Text

When the type selected is Text, the only mandatory field to be set is Max Text Length.

Optional Values:

Default Text Value

List

The type List does not require to set any mandatory or optional field. However, it requires to create a list of possible values associated with the characteristic.

Number

To add a Characteristic of Number type, it is necessary to set some mandatory fields.

Mandatory Fields:

- **Decimal Precision**, which defining the required decimals
- **Max Numeric Length**, which defines the maximum number of digits that are allowed
- **Unit**, it is the unit measure used for defining the characteristic and the list of possible units are retrieved from the “Characteristic Units” list imported within the package. To add units, it is necessary to edit this list.

Optional Fields:

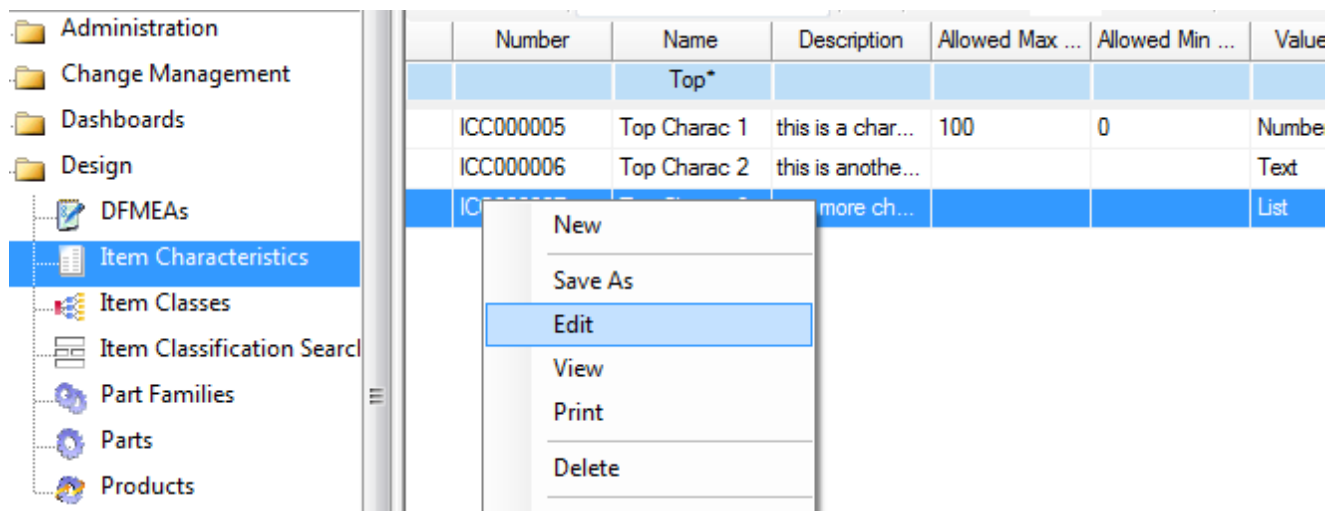
- Allowed Min Value
- Allowed Max Value
- Default Min Value
- Default Max Value

Adding a new Unit

Steps:

1. On TOC, go to Design->Item Characteristics
2. Search for the Item Characteristic and edit it
3. Go to tab “Item Characteristic List Value” and add the list of possible Values and save.

Step 1 & 2:



Step 3:

http://localhost/ - Item Characteristic - Top Charac 3 - Windows Internet Explorer

FileEditViewsSearchActionsReportsToolsHelp

Delete Item

Number

ICC000007

Name

Top Charac 3

Item Characteristic

Item Characteristic List Value

Actions

No Related

Sort Order	Value	Label
128	List value 1	List value 1
256	List value 2	List value 2

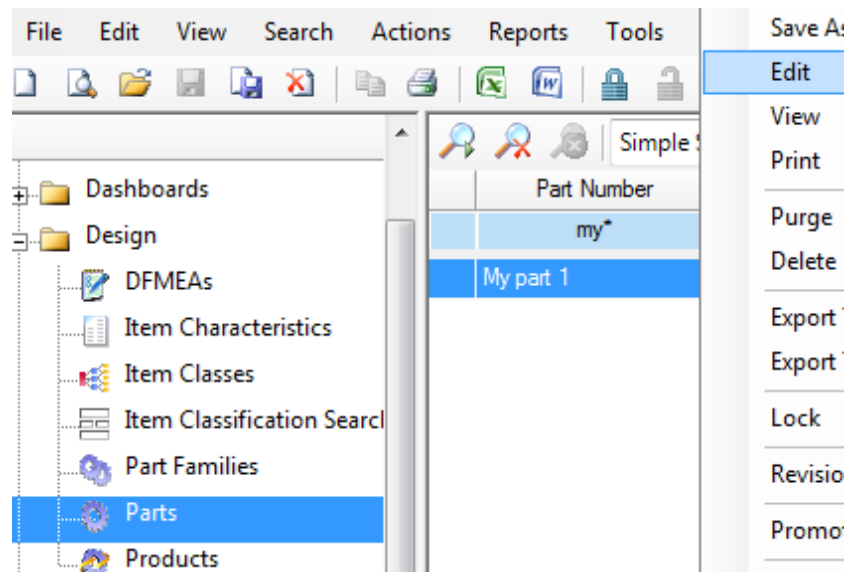
Ready

Items 1-2 of 2. Page 1 of 1

3. Classifying a Part

1. Edit the part to which you want to set an item classification.
2. On Part form, click on the Item Class icon. A dialog will be shown
3. Double-click on the selected Item Class from the dialog. The Dialog will close.
4. A dialog is displayed asking to confirm adding characteristics values to the part. If confirm, new characteristics will be added to the part.
5. Go to “Part Characteristics” tab.
6. Set the values for the part characteristics and save.

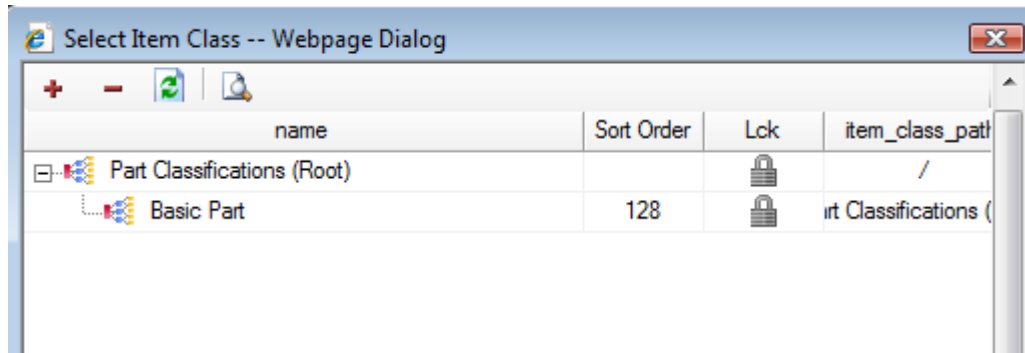
Step 1:



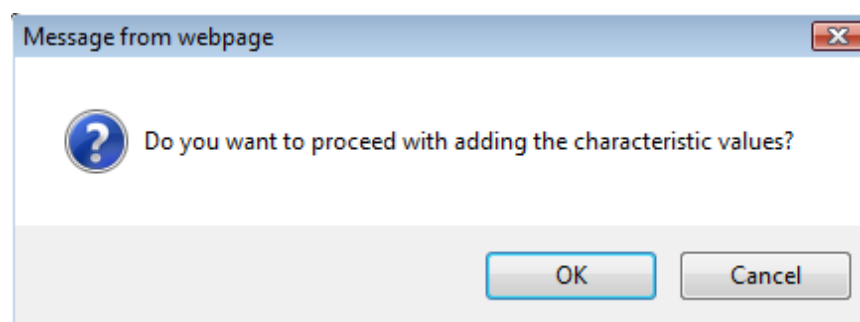
Step 2:

A screenshot of a web browser window showing a form titled 'Part - My Part'. The browser address bar shows 'http://localhost/ - Part - My Part - Windows Internet Explorer'. The form has a menu bar (File, Edit, Views, Search, Actions, Reports, Tools, Help) and a toolbar. The form fields include: Part Number (My Part), Revision (A), State (Preliminary), Name (empty), Type (empty), Unit (EA), Make / Buy (Make), Cost (empty), Long Description (empty), Item Class (highlighted with a red circle), and Class Path (empty). On the left side of the form, there is a section titled 'Part' with metadata: Created By: Innovator Admin, Created On: 9/18/2012, Modified By: Innovator Admin, Modified On: 9/18/2012, Locked By: Innovator Admin, Major Rev: A, Release Date: (empty), Effective Date: (empty), Generation: 1, and State: Preliminary. At the bottom left, there is a checkbox labeled 'Changes Pending'.

Step 3:



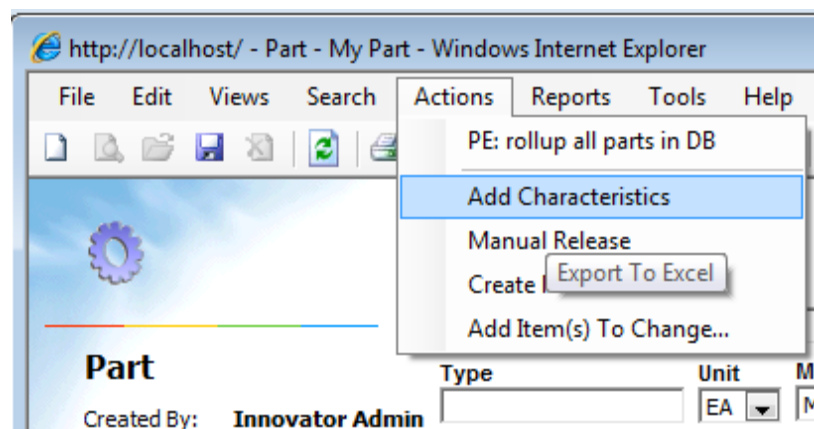
Step 4:



Step 5 & 6

BOM BOM Structure Part Characteristics Alternates AML Documents CAD Documents Characteristic						
Actions No Related						
Sort Order	Name [...]	Type	Max Value T...	Min Value To...	Value	
10	Industry Standard	Text			ISO9000	
20	Typical Lot Size	Number			12-30	
110	Height	Number			100	
120	Width	Number			50	

* There is an action "Add Characteristics" to launch manually the characteristic values creation. This can be useful in case of some updates to the "Item Class" item or when some part characteristic were removed but are required again. This action will merge the existing characteristics with the new ones keeping the old values.



4. Searching for Parts

1. In TOC, go to Design-> Item Classification Search. This will display the search form
2. Click on Item Class icon and Select an “Item Class” for search parts (same dialog as previously described). All returning parts class will be of this “Item Class” item. The Characteristic Grid is filled with all characteristic.
3. Set the characteristics criteria for searching the parts.

Number

Single Value search: If a single value is introduced, ex. 100, the result will return only items with the value 100.

Search by ranges: The ranges are defined by a dash – in between, ex. 1-10, will return items with values that are in the range inclusive.

Search with comparison operators:

Text

Text match: The result will return items that match the text introduced

Wildcards: it is possible to use wildcards represented by the character *, with same behavior as in the other search features of Aras Innovator.

List

User can select a value from a dropdown list and the result will retrieve all items with the value selected.

The results display parts filtered by an AND criteria, which means that only parts complying with all the parameters are displayed.

Select Item Class



Characteristics

Name	Type	Unit	Value
list characteristic	List		val1
numeric characteristic	Number	Ah	1-10
text characteristic	Text		*

Search Results

Name	list characteri...	numeric char...	text characte...
My Part	val1	2	important part

5. Additional Features

Unit Conversion

It is possible to set different conversion factors that will permit to make an automatic conversion to the characteristic selected value. This facilitates the user the data input and at the same time stores data in the characteristic unit.

The screenshot shows a web browser window titled "http://localhost/ - Item Characteristic Unit Conv - 7199077D701B4F01AB9B3F485EC26263 - Wind". The application has a menu bar with "File", "Edit", "Views", "Search", "Actions", "Reports", "Tools", and "Help". Below the menu is a toolbar with various icons. The main content area is titled "Item Characteristic Unit Conv" and contains the following fields:

- Main Unit:** A dropdown menu showing "KG".
- Minor Unit:** A dropdown menu showing "G".
- Factor:** A text input field containing "1000".

The class characteristic Weight has Kg as Unit:

The screenshot shows a web browser window titled "http://localhost/ - Item Class - 7199077D701B4F01AB9B3F485EC26263 - Wind". The application has a menu bar with "File", "Edit", "Views", "Search", "Actions", "Reports", "Tools", and "Help". Below the menu is a toolbar with various icons. The main content area is titled "Item Class" and contains the following fields:

- Number:** A text input field containing "ICL000007".
- Name:** A text input field containing "Sub Class2".
- Item Class Path:** A text input field containing "/Part Classifications (Root)/".

Below the main content area is a tabbed interface with three tabs: "Sub Classes", "Class Characteristics", and "Class Tree". The "Class Characteristics" tab is selected. Below the tabs is a toolbar with various icons and a "Hide Search Criteria" button. Below the toolbar is a table with the following columns:

Number	Name	Value Type	Ha...	Default Text ...	Max Text Length	Allowed Min ...	Allowed Max ...	Unit
ICC000...	Weight	Number	<input type="checkbox"/>					KG

With the conversion factor introduced for **Kg** and **g**, the user can introduce data in g and automatically will be converted to Kg. However, if there is not conversion factor, the value will be stored without any conversion and automatically will get the characteristic unit.

BOM					
BOM Structure					
Part Characteristics					
Alternates					
AML					
Documents					
CAD Documents					
Characteristic					
Actions ▾					
No Related ▾					
Hide Search Criteria ▾					
Page Size: ▾					
Order	Name [...]	Type	Max Value T...	Min Value To...	Value
	Industry Standard	Text			
	Typical Lot Size	Number			
	Weight	Number			1000g