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PTC121 - Unified Search

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8th June 2015

Search isn't just about retrieving information

Retrieval of captured knowledge for use is just the starting point...

- Improve Users Productivity by reducing time to retrieve and access context specific, meaningful and precise information
- · Promote Reuse & eliminate redundant work
- Find context specific information to reuse in your design fast at the very first attempt
- · Formulate queries to understand complex relationship between product data
- Employees and partners from across the globe search in multiple language and use different units
- Supports collaboration by bringing people together-often from different geographies on same page
- · Security Protect corporate intellectual property by access control
- Ensure retrieved information is filtered so that it does not compromise on corporate intellectual property critical in outsourcing and offshoring environment





Search is an integral part of PTC Windchill Platform

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What we know about it?

- Search is used heavily
 Each year additional GB of data per user gets into the repository - Engineers spend 30% of their time searching
- Users repeat the "same" search often with some modification
- Search needs to be fast, efficient, relevant, intuitive. configurable, scalable and secure
 - Leverage latest enhancement in technology (facets, taxonomies, synonyms)
 - Simple for end users
 - Complicated queries for advanced users
- · But Google/Amazon Like Search is not sufficient
 - Product data is structured differently and results need to be presented differently
 - Authentication must be checked
- · Users are looking to find a specific piece of information and want to do a targeted search



Advanced Search

- Advanced Search Query to include Classification Search capabilities
- Ability to Search/Query on related object attributes
- Improved display of Search results (with dynamic columns, KWIC and classification attributes on the Search result table views)
- More Flexibility and Intuitiveness on the Search Query with the ability to perform Nested Queries
- Ability to refine Search Results by using FACETs on the Advance Search Page
- Introduction of a new Classification Explorer with enhanced Classification Browse + Free from search capabilities
- New Find similar action on the Search Results table



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Simplified version of the new Advanced Search Page

Simple Google type Search for users who do not need complications



End users need simple search capabilities with ability to perform search from a high level that results in broad search results. We continue to support quick keyword search capabilities with more advanced and high performance Search engine (Solr 5.1.1 and Tika 1.7)

Keyword search – The simplified version of the Advance search page	Global search with the type picker
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The New Advanced Search Page



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	Search History and Saved Searches Advanced Search Classification Explorer @
Keyword Search Search on Content and meta Data	See This Seech
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Context Field Set Select Contexts to search on	
Classification Field Set Select Classification(s) for Parts to Search against Type Ahead for classification nodes	
Criteria Field Set Specify Criteria against Classification Modelled or soft attributes Picker for multi values attributes Create Complex Queries with Grouping and Nesting	CONSTRUCTOR Development Registration Construction CONSTRUCTOR Development Registration CONSTRUCTOR Development CONSTRUCTOR CONSTRU
Related Object Search Search against attributes of related objects Build complicated relationship scenarios on the report template and execute on Search	Index Object Sach Kepen Templare
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Advanced Search Query to include Classification Search capabilities

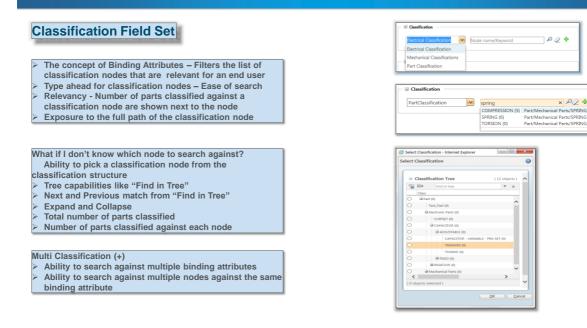
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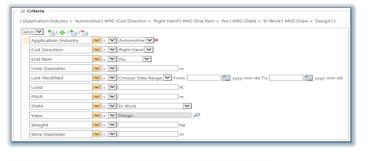
Advanced Search Query to include Classification Search capabilities

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Classification Attributes on Query Builder

- The new Criteria field set includes all classification attributes with modeled attributes and Soft attributes
- The Classification attributes (for the selected Classification node) are available on the query builder

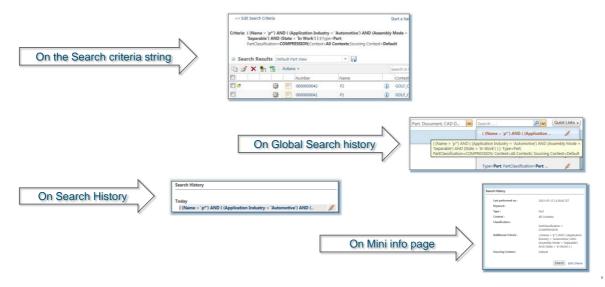




Classification Attributes in the Attribute Selector

- The Attribute picker shows a list of all classification attributes with the Object type attributes (Part)
- The attribute picker shows three columns Data type (with icons representing a type of attribute), Attribute name and the attribute type
- In case of Classification attribute, the attribute type
- shows the complete path of the Classification Node Multi-select - Ability to select all relevant attributes in one go





Ability to perform Nested Queries	PTC' Live Global
AND Criteria () AND Image: I	AND · AND/OR Operator (Default is AND) Launch the Attribute Selector to select multiple attributes in one go Add a new row to add an attribute using the drop down picker Add a new Group to club multiple attributes with an AND/OR operator Remove a Group
 Columns on the Attribute Selector help easier identification of attribute appropriate selection Data Type – Shows the type of attribute (String, Date, Real number, etc.) Attribute – Display name of the Attribute Type – All types/Nodes that the attribute is relevant for 	Noncearing Cat Charge Report Noncearing Cat Charge Report Noncearing Cat Charge Report NatDocumer Noncear

Ability to perform Nested Queries Drop down picker for Business Decision Cate. Type ahead for CRAWithoutNamespace attributes attributes, the list is AND 💽 🔩 | 💠 | 🐂 📑 ategory The list is driven from the -B Crite Checked Out By dynamically refreshed Name × objects types selected Collapsible as text is entered × = • Complexity from the type picker CBAWithoutNam AND Configurable Checked Out By -N Created By Collapsible -Configurable Module Default Trace Code Created By 👻 🖃 - Select - 💌 Description Created On 💌 📼 - Select **v** > 🖃 Criteria The search query created on the query builder is also displayed in a ((Name = '*.asm') AND (Number = '0002") AND ((Assembly Mode = 'Separable') OR ((End Item = 'Yes') OR (Iteration = 'Latest')) AND (Default Unit = 'meters') AND (View = 'Design') AND (State = 'In Work')) textual format (as a more meaningful and understandable >> representation) : Name The criteria string represents the complete nested query in a string Number ✓ = ✓ 0002* format (that includes Boolean operators, both between groups as well OR V 14 1 1 1 as individual attributes). The query represents nested loops in parenthesis. OR V SI + SI - Ves V End Item V - Ves V ▶ The string only displays attributes against which a value has been selected. 💌 = 🔍 🖲 Select: Latest 🔽 🔿 Specify: The string is localized. V - V meters V

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- The string is wrapped if too long (will continue in the next row)
- > When there is no criteria added, then only the default brackets are shown in the criteria string.

Ability to perform Nested Queries

When multiple object types are selected to build a query, each attribute on the query builder could be relevant for multiple types. To avoid any post execution complexity, user needs to understand which attribute would result in search results against which object type. An "Explain" link is available at the end of the Query Builder, which shows a breakup of the query against each object type

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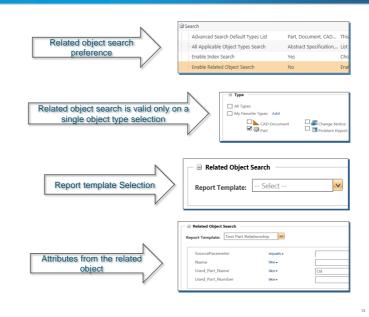


Search/Query on attributes of related objects

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Related Object Search

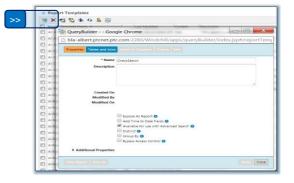
- Advance power users have always wanted to formulate a search with knowledge of not just the objects they are looking for, but also about associations that the object has with other objects.
- > Advance users can now build complicated queries on report templates and execute the query on the Advance search page
- End users will now be able to select a report template to display the attributes of associated objects, enter values for the attributes and execute search



Search/Query on attributes of related objects

- An administrator will need to create a Report Template (with the
- desired associations)
- Ability to enable the availability of a Report Template on the
- Advance Search page

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- Complex relationships can be built on the Query Builder (the new graphical UI has advanced features like drag and link)
- The report template is exposed on the advance search page, that shows all attributes for the associations selected on the Query Builder
- Ability to execute search against this Query

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Improved display of Search results

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Keyword in Context

Keyword: master

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> The keyword entered on the search page was "master".

- ≻ The search results table reflects the documents that have the word "master" in the content of their attachments.
- > The text preview column on the search results table shows icons, which on mouse rollover display a sentence where the word "master" is used
- > To enable this feature, property "wt.index.enableTextPreview" needs to be set to true (OOTB it is set to false)
- > Any change in the property setting will require re-indexing.
- This feature is only supported for Windchill Documents.
 "Text Preview" column will be available for selection only when Document type is selected.
- > The "Text Preview" column needs to be manually added to the search results table view.

Improved display of Search results

Dynamic Columns

Griteria	Classification Search:
(Name = 'P'') AND (State = 'In Work') AND (Assembly Mode = 'Separable') AND (Created By = 'Site, Administrator') AND ((Application Industry = 'Automotive') AND (Material = 'Stainless Steel')))	
AND Image Image Image Name Image Image Image State Image Image Image State Image Image Image Created By Image Image Image Created By Image Image Image AND Image Image Image Application Industry Image Image Image Material Image Image Image	 If the search criteria includes both typed attributes (for the part) as well as Classification Attributes, on execution, the search results table collectively shows all attributes as columns with the values populated In addition, for classification search, it also shows a column that reflects the particular which of the radio against which
	complete path of the node against which
	the part is classified
> Attributes (with predefined values) selected while building the search query are displayed	
as Column headers with the selected values populated on the search results table on	
execution of the query	
Criteria: (Rame = 'P'') AND (State = 'In Work') AND (Assembly Mode = 'Separable') AND (Created By = 'Site, Administrator) AND (Application Industry = 'Automotive') AND (Marteni = 'Stationes' Sector')):Type=Tart PartClassification + COMPRESSION Contexts All Contexts/Sourcing Contexts Default	
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Classification Explorer

The new Classification Explorer retains the old look and feel of the legacy classification search but with advanced browsing capabilities

We now have a Classification tree which works flawlessly with the old classification browser. So user can pick any node from the tree and further navigate to the lower levels as needed

Tree	<	Classification Search		
Classification: Part Classification (Part)	(19 objects)	To find item using keywords, type keyword and click the Search but Keyword:	ton.	0
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B SCREW (0)				
THREADED INSERT (0)				
H WASHER (0)				

Classification Explorer



Tree		<	Classification Search	
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B FIXED (0))			
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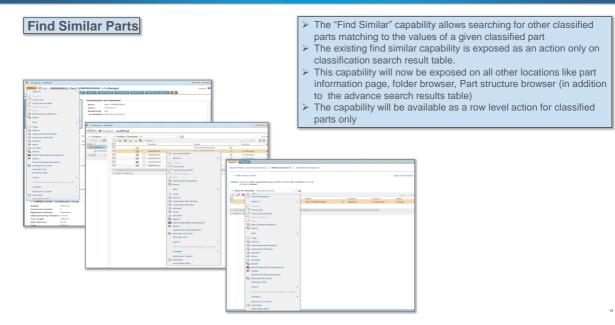
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Ability to find similar parts

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Ability to find similar parts

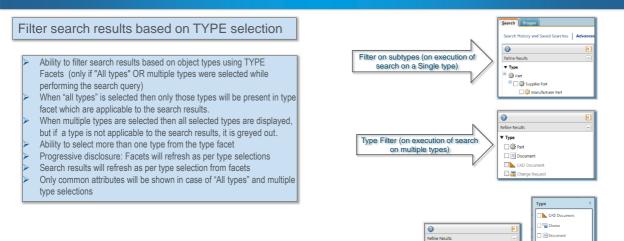
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FACETS

- Facets, also known as filters, are a part of the Solr search technology powering PTC Windchill Index Search
- With the availability of Facets, there is no need for users to know the exact search criteria when searching for data.
- Users only need to have a broad idea of what they are looking for, perform search and then further refine their search results using facets, till they narrow down to the exact content they are looking for.

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Refine Search results using Facets



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for all available types)

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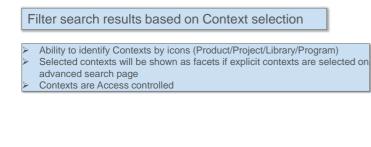
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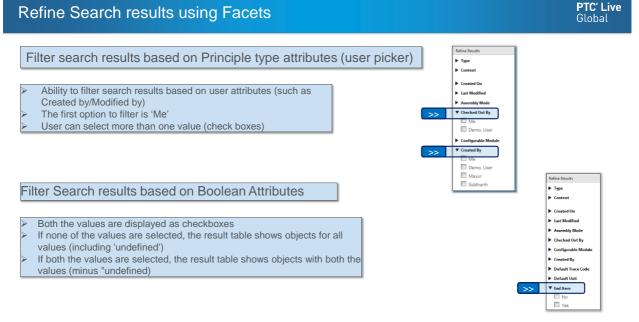
Filter search results based on Date attributes

Options available for filtering search results based on date attributes such as created on/ last modified on:

- Filter on Today, Yesterday
- Choose Date Range with Calendar inputs (From this date \rightarrow To this date)
- Choose Days Range with input text boxes (From X number days ago to Y
- number days from now)

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Refine Results



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Numeric facets

- Facets are rendered for all numerical data type attributes
- A range is displayed based on the minimum and maximum values of that attribute for the given set of search results
- Ability to use sliders to adjust the min and max values
- Ability to enter text in the min and max boxes in case precise values are known
- Precision handling (for decimal values)
- Validation for data input for out of range values

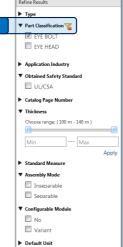
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Refine Search results using Facets

Classification Facets Refine Results Refine Results 🔻 Type 🌄 = 🔅 Part >> V 🐼 FacetClfSubType EYE BOL The Binding attribute is shown as per the EYE HEAD 🔲 🎲 SoftPart selection on the Query Builder The leaf nodes (or all relevant nodes) are ▼ Part Classification 7 Application Industry **EYE BOLT** displayed as values under the Binding EYE HEAD UL/CSA Attribute to enable further filtering

The facet list is refreshed and Classification attributes related to the selected node/s are available as facets





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Administrative actions

- Facets can be enabled/disabled using a
- preference available at all levels
- (Site/Org/Context/User level)
- The Preference is disabled by default at all levels

9	Search		
	Advanced Search Default Types List	Part, Document, C	AD This preference specifies the object types
	-All Applicable Object Types Search	Abstract Specificat	ion, List of types shown in Type Picker in Searc
	Enable Index Search	Yes	Choose to perform an index search when
	Enable Related Object Search	No	Enable Related Object Search on the Adva
	Enable Search Facets	Yes	Enables facets on the Search results page.

- All facets applied to filter data are shown as a × string above the search results table
- Each facet has a remove icon next to it \geq
- > A "Clear All" action is available at the end of the string
- On removing a Facet or clearing all filter, the ۶ search results table is refreshed back to the original state.

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Refine Search results using Facets

Refine Res Other useful features 🔻 Туре 🌄 🔯 Part 🗸 🎡 SoftPart Expand\Collapse states are sticky for the user 📃 🎲 Electrical Part An indication to show that the filter has been applied Last Modified against a facet. 🔻 Assembly Mode 🏹 Separable On clicking on indicator the filter is cleared Checked Out By ▼ Configurable Module 🍟 Advanced Confi No No ▼ Created By 🌄 🗹 Me ₩ Туре Context 🗉 🛞 Part ▼ Contex Drive System 🖾 🟦 Drive System EPRDProduct Power System E BENERIC_COMPUTER There is a property to configure the number of values E B SearchTestPr COLF_CART displayed as a list under each facet. 🗐 🏥 GOLF CART Power System By default five values are displayed ≻ 🗍 🏥 GEN ProductView Demo A "Show All..." link is displayed below these 5 values × SearchTestProduct 2 Clicking on the link will show all the values in a fly-out ▶ Created On ▶ Last Modified E 📰 SearchTestProdu Assembly Mode Tacetprod1 ▶ Checked Out By Tacetprod2

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Apply

🗐 🏨 facetprod3

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- Your feedback is valuable
- Don't miss out on the chance to provide your feedback
- Gain a chance to win an instant prize!
- · Complete your session evaluation now

