

# Searching

## ***Searching for Users, MRCs, Applications, and Servers***

- Currently ART includes several different ways to search. These different features should be unified under a single search interface that works as a freeform textbox with an auto suggest dropdown.<sup>4</sup>
- Here's how the textbox should function:
  - o As user starts typing, all matches based on the string that's been entered should appear in a dropdown panel below the textbox.
  - o As user continues to type, each keyup event triggers a new search against the string in the textbox, which effectively causes the list in the dropdown to be filtered down.<sup>5</sup>
  - o The search logic should add a wildcard to the beginning and the end of the search string, to facilitate mid-string searches.
  - o Result sets of greater than 20 should be "paged" with a down arrow at the bottom and an up arrow at the top (when not at the beginning or end of the range). User selects down arrow or up arrow to page through results.
  - o If a user clicks or presses ENTER on a result in the dropdown, the result is populated in the textbox and the dropdown closes.
  - o If a user clicks or presses ENTER on an up or down arrow, the results in the dropdown "scroll" one at a time in the specified direction.
  - o Multiple values may be entered into the textbox and separated by semi-colons. Search results should be based on everything to the right of the last semi-colon when semi-colons are present in the search string.
  - o For user searches, search results should be formatted as follows: Last name, First name (User ID).
  - o For MRC searches, search results should be formatted as follows: MRC (MRC Description).
- Here's an example of what the user should experience:

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<sup>4</sup> I use the term dropdown here because that's how the user is likely to think of it, but this is probably best implemented as a div tag with dynamically updated innerHTML.

<sup>5</sup> Searching large result sets on the client-side could be potentially slow, so it might be a good idea to handle these searches on the server through asynchronous HTTP requests.

- User starts typing...

la

- Algera, Laura (algelau)
- Andrews, Lara (andrlar)
- Ariue, Lana (ariulan)
- Berg, Lance (berglan)
- Bourne, Lauren (bourlau)
- Burnell, Laurie (burnlau)
- Chappell, Laura (chaplau)
- Crossley, Laura (crosslau)
- DellaRocca, Lara (delllar)
- Dubois, Laurent (dubolau)
- Evans, Laura (evanlau)

- As she types, the list filters down...

lah

- LaHorgue, David (lahodav)

- She sees what she wants, arrows down, and clicks enter to select it...

lah

- LaHorgue, David (lahodav)

- The name she selected appears in the text box.

LaHorgue, David (lahodav)

## ***Searching by ART Request #***

- Every page in ART should include a form to search by ART request number in the primary navigation.
- When the user enters a request number into the form, the search should be executed either by clicking on the GO button or by pressing the ENTER key.
- When the user provides an invalid ART request number, he or she should be redirected to the advanced ART Request search page. An error message at the top should indicate that the search returned no matches, and that the user may try to search by other parameters using the advanced search form.

# Sorting

- The ability to sort using hyperlinked column headers should be added to all data tables.
- Here's how the sorting links should function:
  - o All sortable columns should have a hyperlinked column header with an icon indicating whether that column is being sorted, and if so, in what direction.
  - o If that column is already being sorted, clicking the header reverses the sort order for that column.
  - o When the column is being sorted in ascending order, the sort icon should be an up arrow.
  - o When the column is being sorted in descending order, the sort icon should be a down arrow.
  - o When the column is not being sorted, the sort icon should be a right-pointing arrow.
- Here's an example of what the user should experience:

Request ID >	Assigned ▼	Sent To >	Request >
25798	8-Mar-2006	Adams, Marcia	Existing account request for U Wen Kok
25770	7-Mar-2006	Clifford, Scott	Existing account request for Travis Cook

- o User wants to sort from earliest date first, so she click again on the "Assigned" column header, which reverses the sort order:

Request ID >	Assigned ▲	Sent To >	Request >
25770	7-Mar-2006	Clifford, Scott	Existing account request for Travis Cook
25798	8-Mar-2006	Adams, Marcia	Existing account request for U Wen Kok

- o Then the user decides that she wants to sort by the name of the person the request was sent to, so she clicks on the Sent To column header, which sorts based.on the sent to column.

Request ID >	Assigned >	Sent To ▼	Request >
25798	8-Mar-2006	Adams, Marcia	Existing account request for U Wen Kok
25770	7-Mar-2006	Clifford, Scott	Existing account request for Travis Cook

# Dates

## *Date Display*

- All dates in ART should appear in dd-mmm-yyyy format. This makes the application usable for an international user base.

## *Date Selection*

- When users need to pick a date (such as in a search form), the date selector should be a freeform textbox in dd-mmm-yyy with an attached calendar widget.
- The calendar widget should function as follow:
  - o Before the user has selected a date, the textbox should display the following text: dd-mmm-yyyy.
  - o Once a user clicks or tabs into the date selection textbox, all of the text in the textbox is highlighted, and a small calendar automatically opens. The cursor remains in the textbox (so user can still just type the date, if they want).
  - o If the user clicks on a date in the calendar, the calendar widget closes and the selected date should appear in the textbox in dd-mmm-yyyy format.
  - o Once the textbox loses focus, the calendar widget should close automatically, whether or not a date has been selected.
  - o If a user keys in a date that isn't recognized as dd-mmm-yyyy format, a message should be displayed onscreen next to the textbox explaining that the date isn't correctly formatted, and that dates should appear in dd-mmm-yyyy format.
- Here's an example of what the user should experience:
  - o An empty date box is loaded on the page.

dd-mmm-yyyy

- o User clicks into the textbox. The text is highlighted, and a calendar picker pops open.

		May 06						
		M	T	W	T	F	S	S
		1	2	3	4	5	6	7
		8	9	10	11	12	13	14
dd-mmm-yyyy		15	16	17	18	19	20	21
		22	23	24	25	26	27	28
		29	30	31				

- o The user can type directly into the textbox:

	May 06						
	M	T	W	T	F	S	S
	1	2	3	4	5	6	7
20-May-2006	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				

- o Once they tab or click away from the textbox, the calendar closes automatically.

20-May-2006
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- o Or, the user can pick a date on the calendar, which immediately populates the textbox and closes the calendar:

	May 06						
	M	T	W	T	F	S	S
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
24-May-2006	22	23	24	25	26	27	28
	29	30	31				

becomes...

20-May-2006
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# Names

- The display of names should be standardized throughout ART in the following format:  
Last name, First name.
- If it is necessary to include the user ID, the format should be: Last name, First name  
(user id).
- This applies to all user search forms, as well as displayed user names.

# CSV Downloads

- The date and name display guidelines described above should also be applied in all CSV downloads.
- When exporting a page in CSV format, the page name should follow this format: [report\_name]\_[timestamp].csv. This will make it easier to save multiple versions of the same report based on when the report was generated.
- At a minimum, CSVs should include the same columns that are displayed on the corresponding web page. CSVs may include supplementary information, but they should never include fewer datapoints than those on the web page.