

Arena Power Where-Used

Date	Modified By	Version	Modification
12/17/25	D. Johnston	8.9.1	UI enhancements
12/03/25	D. Johnston	8.9	Enhanced tool to use arrays for improved performance.
11/19/25	D. Johnston	8.8	As a result of very large sets of customer data and Microsoft's deprecation of the Microsoft Windows Common Controls ActiveX library (MSCOMCTL.OCX) , added dynamic table links to DataExtract CSV files and added new filtering options to reduce data size
09/08/25	D. Johnston	8.7	Added two more columns to the exported output file (Level 0 Parents and Level 0 Active Parents). "Level 0 Parents" is a column that, for level 0 rows, counts the number of unique direct parents it reports to. "Level 0 Active Parents" is a column that, for level 0 rows, counts the number of unique direct parents that have active lifecycle phases as defined in the lifecycle phase form in this tool.
11/12/24	D. Johnston	8.6	Added ability to skip the import of Custom Item attributes which, for large customer datasets, can exceed Microsoft Access' 2GB database limit. This way, if that problem exists, you can still perform where-used analysis without the custom item attributes
10/19/2023	D. Johnston	8.5	Fixed Item Number drop-down list behavior (edge-case)
10/17/2023	D. Johnston	8.4	Replaced Group Owner with Owner "per" where-used row
10/05/2023	D. Johnston	8.3	Added capability to import a list of item numbers to analyze. Added Group Owner and Lifecycle Phase. Added capability to compact database on exit (auto-compacts when loading new data)
8/31/2023	D. Johnston	8.2	Added module to display hand cursor over +- buttons – without this module, hovering over those buttons results in an error
6/26/2023	D. Johnston	8.1	Additional UI layout changes
6/21/2023	D. Johnston	8.0	Enhanced UI
3/16/2023	D. Johnston	7.0	Added capability to include reference designators in exported results
01/09/2023	D. Johnston	6.5.3	Enhanced logic when including "Superseded Revisions"
07/23/2020	D. Johnston	6.5.2	Added Trans Type attribute to Items_Custom_Attributes table
06/25/2020	D. Johnston	6.5.1	Minor screen layout changes
05/01/2020	D. Johnston	6.5	Updated one query used to enumerate "active phase" parent counts
04/23/2020	D. Johnston	6.4.4	Added capability to select which lifecycle phases you choose to consider as <u>active</u> . The where-used output now includes a new column labelled "Active Parents Exist". If Yes , there is at least one <u>active</u> parent for that item. This can be used to identify <i>child items</i> that can be moved to Obsolete or Abandoned phases when no <u>active</u> parents exist.
03/23/2020	D. Johnston	6.4.3	Changed "Row" column heading to "Sort Order" in Excel/CSV output.
02/21/2020	D. Johnston	6.4.2	Changed Excel output format from XLS to XLSX to increase max output Excel rows from 64K to 1M

Overview

The Arena *Power Where-Used* tool was developed to provide a way to perform where-used analysis for many items all at once. Items can be specified one at a time, by selecting one or more item categories or by choosing to analyze all workspace items. Where-used data can be viewed graphically within the tool with a tree representation of each analyzed item. You can navigate up and down the tree by expanding and collapsing tree branches. You can also export the where-used data either to CSV or Excel format. Options include the ability to include superseded revisions as well as whether to include custom item attributes and/or BOM reference designators in the CSV/Excel output. Another feature allows you

to view all lifecycle phases referenced in the data to then select which lifecycle phase(s) you want to define as inactive. Based upon those selections, each analyzed child item will be flagged as to whether it reports to at least one active parent item (Yes/No). This allows you to filter the output for all analyzed items that do not report to any active parents ... those child items are then candidates to be moved to Abandoned or Obsolete phases.

Requirements

- Microsoft Windows operating system
- Microsoft Access or Microsoft's free *Access Runtime*
- Arena API feature is only required when using the **Latest (API)** DataExtract option.
Using this option also requires that you are setup as an **Owner** of the DataExtract and that the DataExtract Access Policy has also been added to your user account
Note less than 10 API calls are used per session
- Arena DataExtract feature

Setup

If Microsoft Access is already installed on your computer, proceed to **step #2**

- 1) [Download](#) and install Microsoft's free *Access Runtime*

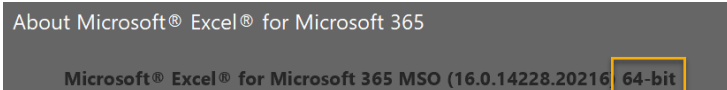
Note the x64 file is for 64-bit versions of MS Office, x86 for 32-bit

Choose the download you want

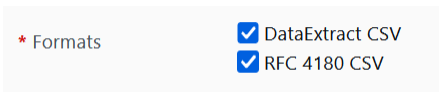
<input type="checkbox"/> File Name	64-bit (intuitive)	Size
<input type="checkbox"/> accessruntime_4288-1001_x64_en-us.exe		315.6 MB
<input type="checkbox"/> accessruntime_4288-1001_x86_en-us.exe		236.5 MB

32-bit ... not so intuitive!!

To confirm which version you need, look at the **About** for any other Office product installed on your computer e.g. Excel or Word. In the example below, the 64-bit version of Excel is installed so, you'd download and install the "x64" file:



- 2) Next, create a folder on your computer then copy the *Arena Power Where-Used v8.0.accdb* database into that folder.
- 3) Workspace Administrator needs to login to Arena workspace to configure DataExtract:
 - Navigate to Workspace Settings > DataExtract
 - Create a DataExtract if one does not already exist
 - Set **Maximum Text Attribute Length** = 32000 (for reference designators)
 - Select the format named **RFC 4180 CSV**. Although the **DataExtract CSV** format is not required by this tool, it is required if you are also subscribed to Arena's Analytics feature ... if that's the case, you would need to have both formats selected as shown below:



- In the filtering section, you need to select the superset of all objects required for all purposes, including Arena's Analytics feature. This tool only requires the following three objects ... any other selected objects will be ignored by this tool:
 - Items > Summary
 - Items > Custom Attributes
 - Items > BOM
- Configure the DataExtract schedule to run automatically once per day. Note, if you are already subscribed to Arena's Analytics, do not make any changes to the schedule without first consulting with Arena Support.

Operation

- 1) Open the Access database then select whether to load the DataExtract from (**Latest (API)** or **Local**):

Note To be able to get the latest DataExtract via Latest (API), you need to be added as an **Owner** of the configured DataExtract and also have the DataExtract Access Policy added to your user account. Alternatively, to make this tool available for other users, the user with access to DataExtract can periodically download the latest DataExtract to a common folder on your network. This allows other users to select the **Local** option to get current workspace data. The Customer can also develop automation via our API to automatically download the most recent DataExtract each day to their network

If you select the **Latest (API)** option, you'll be prompted to enter your Arena credentials and workspace ID:

Note To get your workspace ID, login to Arena, switch to the desired workspace then navigate to **Workspace Settings**. The workspace ID will be displayed in your browser e.g. https://app.bom.com/acct/detail-workspaces-settings?workspace_id=1234567890

Note for the API URL, use <https://api.europe.arenapl.com/v1> for EMEA, <https://api.uk.arenapl.com/v1> for UK and <https://api.arena.gov.com/v1> for GovCloud.

- 2) Before loading data into the Where-Used tool, decide whether you need **Superseded Revs**, **Inactive Lifecycles** or **Custom Item Attributes** as the volume of data in your Arena workspace may exceed the 2GB limit of a Microsoft Access database. Once you have made your choices, choose **Latest (API)** or **Local** then click **[Get]**:
- 3) Once the data has been loaded into the tool, you can i) manually enter item numbers for analysis, ii) add them by category groups or iii) import a specific list of items. Selecting a parent category automatically selects all child categories beneath it. You can also select **[ALL]** to select all items in your workspace. Once you've added item(s) to the list, you can also **select** which of those items you want to export the Where-Used data for. Before doing so however, first choose whether to include **Custom Item Attributes** and/or **Reference Designators** then click **[Export]** to **CSV** or **Excel**

Note Custom Item Attributes is only available if you've included custom item attributes as an option when loading data into the tool

Optional: click on the **[Lifecycles]** button to view all lifecycle phases referenced in your data. Next, select which lifecycles you want to define as "Active". These choices are used by the tool when exporting where-used results to CSV or Excel. The exported results include a column named "Active Parents Exist" (Yes/No). If "No", that means that the item does not report to any active parents and is therefore a candidate to be made Abandoned or Obsolete:

Lifecycle Phase	Active Phase
Abandoned	<input type="checkbox"/>
Deprecated	<input type="checkbox"/>
Design Beta	<input checked="" type="checkbox"/>
First Article	<input checked="" type="checkbox"/>
In Design	<input checked="" type="checkbox"/>
In Production	<input checked="" type="checkbox"/>
Obsolete	<input type="checkbox"/>
Unreleased	<input type="checkbox"/>

Save Close

Record: 1 of 8 No Filter Search

NOTE: This tool does **not** support the use of duplicate **lifecycle phase names** within the workspace!