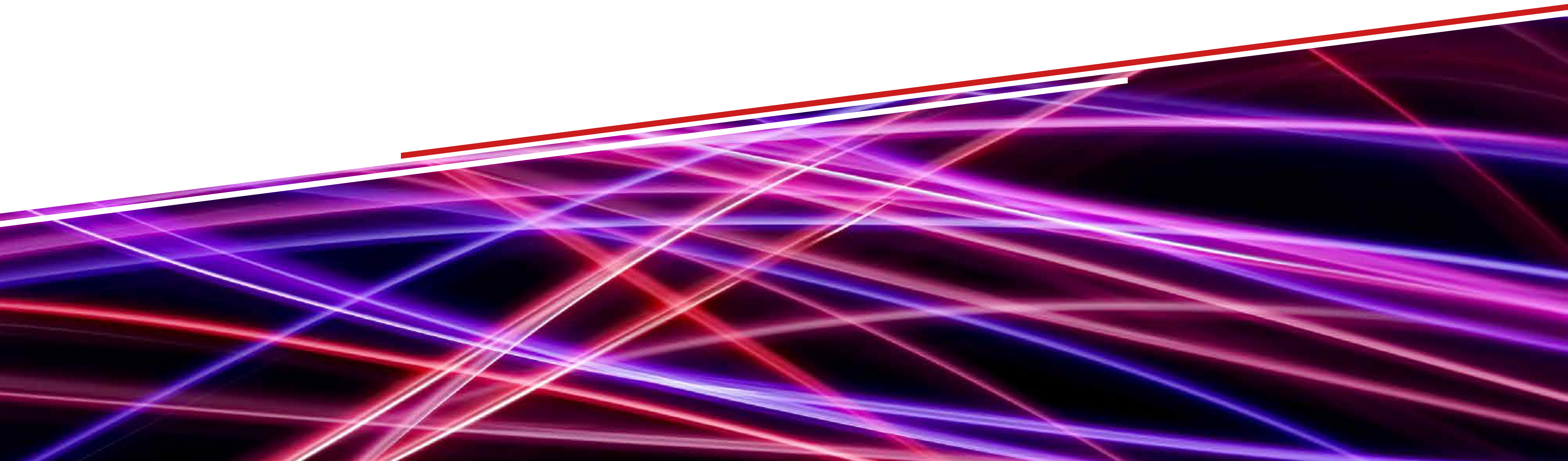


ACE 2024

# User Experience of the Aras Platform

Kenny Sperling, Product Design Manager, Aras

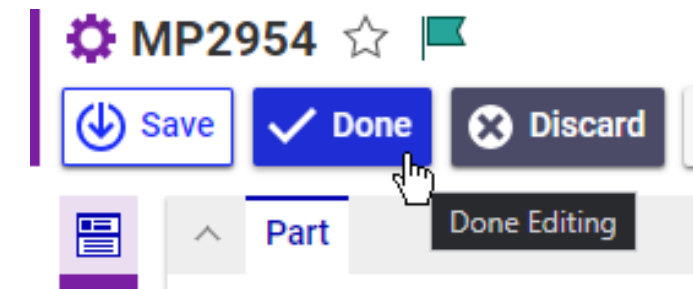
March 6, 2024



## Search

Part Number ↑	Revi...	Name	Type	State
mp*			Assembly	Prelim*
MP0101	B	Makerbot Replicator	Assembly	Preliminary
MP0102	A	Cover Option for MakerBot Repli...	Assembly	Preliminary

## Editing / Versioning



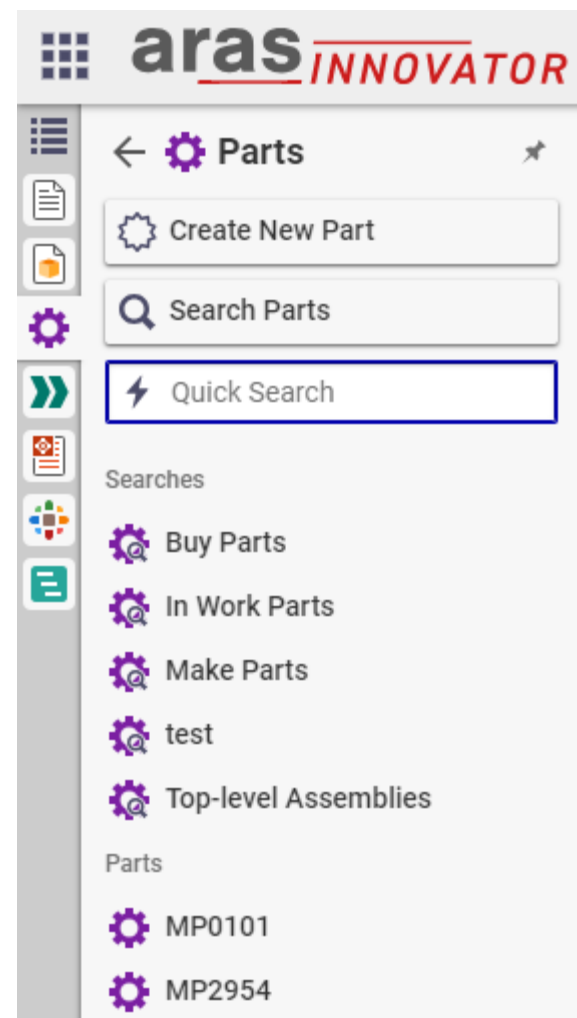
## Forms

Document Number	Revision	State
MP0102	A	Preliminary

Name  
Cover Option for MakerBot Replicator

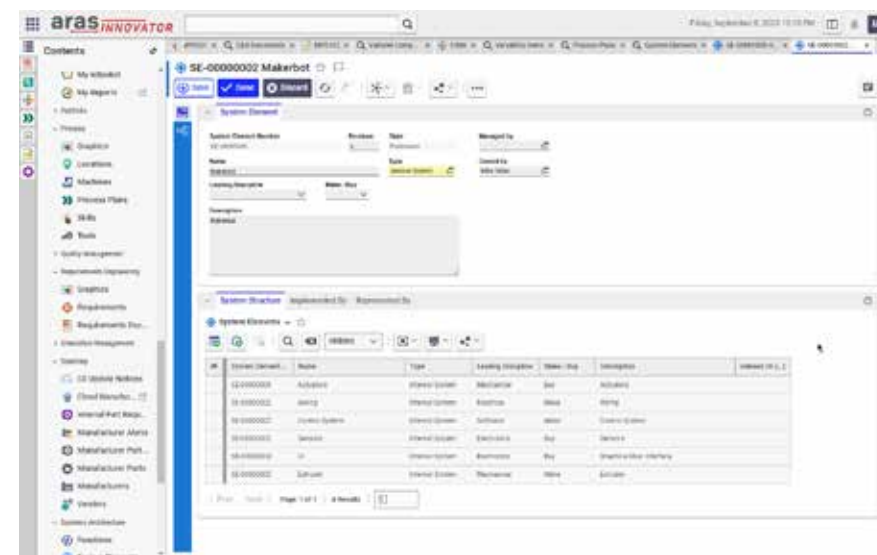
Type	Authoring Tool	Version
Drawing	SolidWorks	sw2014_
Mechanical		
Electronic		
Design		

## Navigation

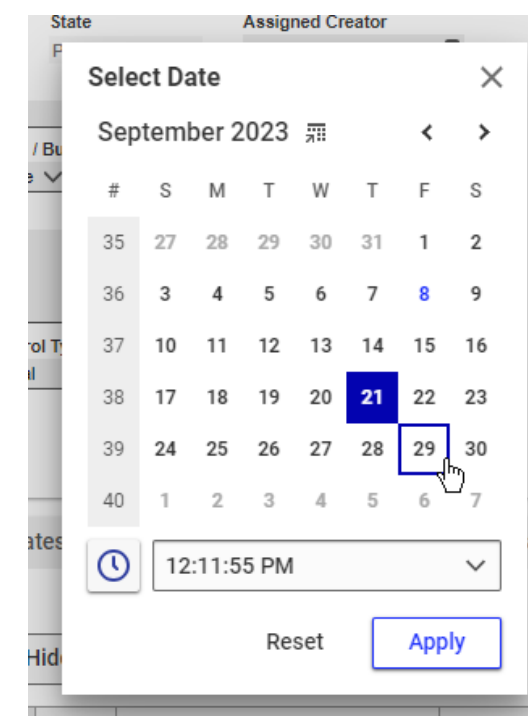


**Platform User Interface**  
common systems used by all applications

## Visual Style



## Input Controls



## Grids

REQ-00000004	Primary Use	Business	Stakeholder	Spe
REQ-00000005	Size and Movability	Business	Stakeholder	Spe
REQ-00000006	3D Printing Methodology	Business	Functional	Spe
REQ-00000007	Power	Operations	Software	Spe
REQ-00000008	Price	Business	Stakeholder	Spe
REQ-00000009	Data Formats	Monitoring	Functional	Spe
REQ-00000010	Safety Overview	Support	System	Spe
REQ-00000011	Connectivity	Business	Design	Spe
REQ-00000012	Data Storage	Facilities		Spe
REQ-00000013	Installation Requirement	Configuration		Corr

# Key Usability Enhancements

2022–2024

ACE  
2024

# Copy Item Link

The screenshot shows the Outlook interface for a message titled "Item to Review - Message (HTML)". The ribbon includes "File", "Message", "Insert", "Options", "Format Text", "Review", "Help", and "Acrobat". The "Message" ribbon is active, showing options for Undo, Clipboard, Basic Text (font, size, bold, italic, underline, color, background color, text color, text background color, text background color), Names (Address Book, Check Names), Include (Attach File, Link, Signature), Sensitivity, Adobe Acrobat (Attach File via Link), Tags (Follow Up, High Importance, Low Importance), Voice (Dictate), Editor, Immersive (Immersive Reader), and Add-in (Viva Insights). The message header shows a "Send" button, "To" and "Cc" fields, and a "Subject" field with the text "Item to Review". The message body contains the text "Hello, Please review CAD Docu".

# Claim Independently of Edit

The screenshot displays a document management interface. At the top, the document ID 'D-001647' is shown with a star and a flag icon. Below this is a toolbar with an 'Edit' button (highlighted in blue), a refresh icon, a circular arrow icon, a network diagram icon, a clipboard icon, a share icon, and a menu icon. A 'Document' tab is active, showing a table with the following data:

Document Number	Version
D-001647	1

Below the table is a 'Content' section with a large, empty text area.

# Export to .xlsx

The screenshot shows the Aras Innovator web interface. At the top, there is a search bar and navigation icons. Below the search bar, there are tabs for 'Parts' and 'Documents'. The 'Documents' tab is active, and a 'Documents' dropdown menu is open. Below the menu, there are search filters: 'Search', 'Clear', 'Simple', 'Current', 'Today', 'Default', and several icons. The main content is a table with the following columns: Document Number, Revi..., Name, Type, State, Authoring Tool, Chan..., and Files. The table contains seven rows of document data. The first row is highlighted in yellow. At the bottom of the interface, there are navigation controls: '< Prev', 'Next >', 'Page: 1 of 1', '7 Results', a pagination control set to '25', and a download icon.

Document Number	Revi...	Name	Type	State	Authoring Tool	Chan...	Files
MD4201	A	Replicator System Schematic	General	Preliminary	Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MD4233	A	Replicator Photorealistic Image	General	Preliminary	Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MD4510	A	Replicator with Cover Photoreali...	General	Preliminary	Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MP0101-DOC-1	A	Makerbot Replicator Requiremen...	Product	Released	Microsoft PowerPoint	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MP0101-DOC-2	B	MakerBot Replicator Product Sp...	Product	Preliminary	Microsoft Word	<input type="checkbox"/>	<input type="checkbox"/>
MP0101-DOC-3	A	Makerbot Replicator Cost Analysis	Product	Released	Microsoft Excel	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MP0102-DOC-1	A	Cover Option for Makerbot Repli...	Product	Preliminary	Microsoft PowerPoint	<input type="checkbox"/>	<input type="checkbox"/>

# Favorite Searches Restore Grid Layouts

The screenshot displays the Aras Innovator CAD Documents interface. The top navigation bar includes the Aras Innovator logo, a search bar, and user profile information (IA). The left sidebar contains navigation options for 'Parts', 'Create New Part', 'Search Parts', and 'Quick Search', along with a list of 'Searches' (Components, Mechanical Components, Preliminary Screws and N..., Quality Review, Released Parts, Resistors and Capacitors) and a list of 'Parts' (MP2459, MP2751, MP3121, MP3221, MP3222, MP3676, MP4233, MP5544).

The main content area shows a search for 'CAD Documents' with a star icon. Below the search bar are controls for search type (Simple), current view (Current), and date (Today). A table of search results is displayed with the following columns: Document Number, Revi..., Name, Type, State, Native File [...], Viewable File [...], Authoring Tool, Chan..., and St. The table contains one row with a dropdown arrow in the first column.

Document Number	Revi...	Name	Type	State	Native File [...]	Viewable File [...]	Authoring Tool	Chan...	St
▼								▼	

At the bottom of the interface, there are navigation controls: '< Prev', 'Next >', 'Page: 1', a dropdown menu set to '50', and a download icon.

# Column Sort Persists After Running Search

ItemTypes ▼ ☆

Simple ▼ | Default ▼

	Name <span>↑</span>	Singular Label	Plural Label	Version...	Depend...	Relatio...	C..	Use Src A...	Description [...]	Help Url
<span>▼</span>	Bo*									
<input type="checkbox"/>	Board	Board	Boards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	Body	Body	Bodies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	BOM Instance	BOM Instance	Instances	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	BOM Substitute	BOM Substitute	Substitutes	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		



# Copy Data from Read-Only Grid Cells

aras INNOVATOR Monday, February 13, 2023 11:35 AM

My InBasket x Manufacturer P... x MP2738 x

Manufacturer Parts Search Clear Simple Default

Part Number ↑	Description	Manufacturer [...]	State	CE Manufacturer Part Number
KK-R-04	4-pin w/polarity	<a href="#">MORETHANALL CO LTD</a>	Released	KK-R-04
KPJXHT-4S-S	KPJX Series Snap and Lock PCB	<a href="#">KYCON INC</a>	Released	KPJXHT-4S-S
LM1084IS-5.0	5A Low Dropout Positive Regulator	<a href="#">NATIONAL SEMICONDUCTOR CORP</a>	Released	LM1084IS-5.0
LTR18EZPD22R0	High Power Chip Resistors < Wide Terminal type LTR Series	<a href="#">ROHM CO LTD</a>	Released	LTR18EZPD22R0
MAX6675ISA	Cold-Junction-Compensated K-Thermocouple-to-Digital Converter (0°C to +...	<a href="#">MAXIM INTEGRATED PRODUCTS INC</a>	Released	MAX6675ISA
MB-D-26	2.0mm shrouded header PCB mount vertical	<a href="#">MORETHANALL CO LTD</a>	Released	MB-D-26
MB26M86000000	Header, 13-Pin, Dual row	<a href="#">RADIALL S A</a>	Released	MB26M86000000
MCH312F104KK	CAP805 Multi-layer ceramic chip capacitor	<a href="#">ROHM CO LTD</a>	Released	MCH312F104KK
MCL-N6WT-B-NW-P	LCD Backlight white	<a href="#">LUMEX INC</a>	Released	MCL-N6WT-B-NW-P
MCP4018T-503E/LT	7-Bit Single I2C™ Digital POT with Volatile Memory in SC70	<a href="#">MICROCHIP TECHNOLOGY INC</a>	Released	MCP4018T-503E/LT
MCR01MZSD7501	Thick film chip resistor	<a href="#">ROHM CO LTD</a>	Released	MCR01MZSD7501
MCR01PZSIF1002	Thick film rectangular	<a href="#">ROHM CO LTD</a>	Released	MCR01PZSIF1002
MCR03EZHF104	Thick film rectangular MCR03 (1608 size)	<a href="#">ROHM CO LTD</a>	Released	MCR03EZHF104
MCR03FZHF105	Thick film rectangular MCR03 (1608 size)	<a href="#">ROHM CO LTD</a>	Released	MCR03FZHF105
MCR03MZPF4990	Thick Film Chip Resistors MCR Series < Automotive >	<a href="#">ROHM CO LTD</a>	Released	MCR03MZPF4990
MIC2920A-3.3BS	400mA Low-Dropout Voltage Regulator	<a href="#">ROCHESTER ELECTRONICS LLC</a>	Released	MIC2920A-3.3BS
MMA0204WE4701B...	4.7k ohm resistor 1206 0.1% SMT	<a href="#">VISHAY INTERTECHNOLOGY INC</a>	Released	MMA0204WE4701BB00
MSDAT	2 pin jumper	<a href="#">METHODE ELECTRONICS INC</a>	Released	MSDAT
MSP2B1R000JT17E3	1k ohm resistor 1206 SMT	<a href="#">VISHAY INTERTECHNOLOGY INC</a>	Released	MSP2B1R000JT17E3
MSTBV2,5/4-GF-5,0...	Base strip - MSTBV 2,5/ 4-GF-5,08 BEIGE - 1911350	<a href="#">PHOENIX CONTACT GMBH &amp; CO KG</a>	Released	MSTBV2,5/4-GF-5,08BEIGE

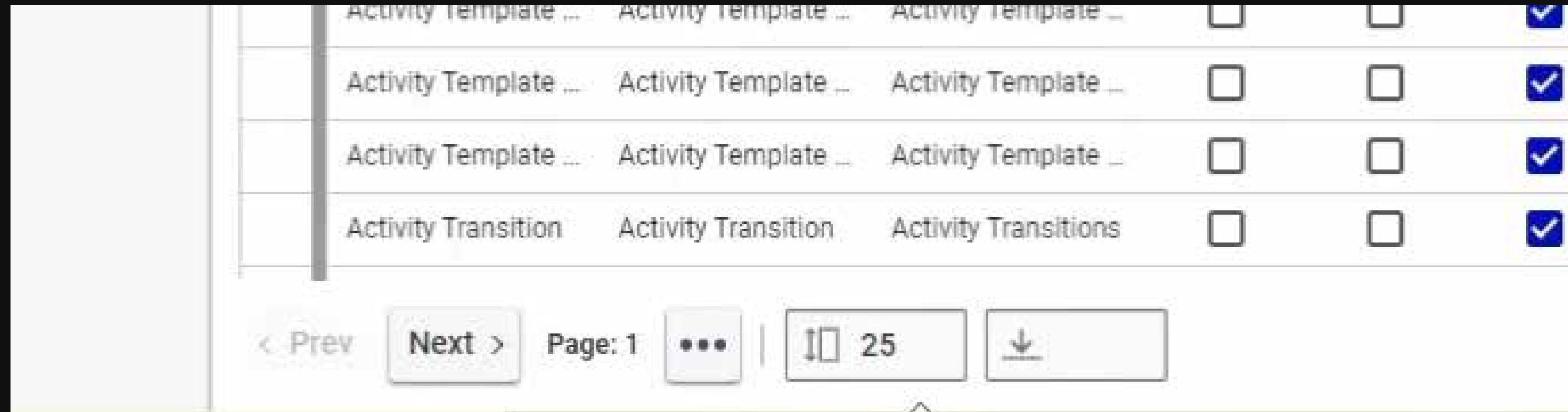
# Save Multiple Main Grid Edits

Variability Items

Search Clear Simple Current Today Default

Number	Name	Revision	State	Description [...]
aV002	Seating	B	Released	
aV003	Wheel System	B	Released	
aV012	Bicycle	A	Preliminary	A sample description
aV014	Frame Structure	C	Released	
aV016	Transmission	C	Preliminary	This is the description of the item
aV024	Control System	B	Preliminary	Another description
aV099	User Manuals	A	Released	
V001	Rear Derailleur	A	Preliminary	An important item
V004	Frame	A	Preliminary	Some sample text as a description
V005	Tire	A	Preliminary	This is an example of descriptive text to explain t...
V006	Crankset	A	Preliminary	Some content
V007	Brake Assembly	A	Preliminary	Description
V008		A	Preliminary	This item is critical to the success of the project
V009		A	Preliminary	Descriptive text about the item
V010	Wheelset	A	Preliminary	
V011	Handlebar Assembly	A	Preliminary	

# Go To Page of Search Grid



# Set Tabs as Login View

The screenshot displays the Aras Innovator software interface. At the top, there is a navigation bar with the Aras Innovator logo, a search bar, and the date "Friday, February 10, 2023 8:01 PM". Below the navigation bar, there are several tabs: "Program Overview", "My InBasket", "1922 Printer M...", "CAD Documents", and "MP2954".

The main dashboard area is divided into several sections:

- Program Overview:** Contains a "Projects" table and a "CAP Closed/Due Report" widget.
- Projects Table:**

Project Nu...	Name	Sched St...	Sched Du...	Status	Ph 1	Ph 2	Ph 3	Ph 4	Ph 5	Ph 6	Ph 7	Ph 8	Ph 9	Ph 10
1919	3D Printer Deve...	10/2/2017	12/28/2017	Active	100	100	100							
1922	Printer Modifica...	1/9/2018	4/2/2018	Active	100	38	0							
1923	Carbon Fiber 3...	2/12/2018	5/4/2018	Active	0	0	0							
1925	Metal Sintering ...	3/1/2018	6/13/2018	Active	0	0	0	0	0					
1926	Educational 3D ...	3/5/2018	1/16/2019	Active	0	0	0	0						
1927	Emerging Mater...	3/5/2018	1/16/2019	Pending	0	0	0							
- CAP Closed/Due Report:** A pie chart showing the distribution of CAP (Change Approval Process) items.
  - Total Number of CAP: 4 (100%)
  - Number of CAP Closed: 1 (25%)
  - Number of CAP Due: 2 (50%)
  - Number of CAP Cancelled: 1 (25%)
- MCAD Assemblies:** A table listing various assemblies.

Document Nu...	Revi...	Name	Type	State	Native File [...]	Viewat
MP0101	B	MakerBot Replicator	Mechanical/Assembly	In Review	MP0101.SLDA	
MP0102	A	Cover Option for MakerBot Replicator	Mechanical/Assembly	Preliminary	MP0102.SLDA	
MP2936	A	Acrylic Cover	Mechanical/Assembly	Preliminary	MP2936.SLDA	
MP2938	A	Additional Parts	Mechanical/Assembly	Released	MP2938.SLDA	
- MP2954 Structure:** A table showing the structure of the MP2954 project.

Part Number	Re...	State	Sequen...	Quantity	Claimed By	Name
MP2954	A	In Change	10	1		Extruder
MP1705	B	Released	5	2		MK7 Thermal Core
MP2607	D	Released	10	2		Cartridge Heater 40W 24V Right
MP0138	A	Released	15	2		Type K Thermocouple
MP2966	C	Released	20	1		Wire-Filament Extruder Guide
MP2959	C	Released	25	1		Nylon Spacer with Flange
MP2505	B	Preliminary	29	2		MK7 Nozzle 0.3mm
MP2506	B	Released	30	2		MK8 Nozzle 0.4mm
MP1708	B	Released	35	2		MK7 Heatsink
MP2685	C	Released	40	4		Spacer Black 16.5mm length 3.2
MP2675	A	Released	45	2		Tube Fitting .45in Tube
- Resource Allocation Report:** A report titled "Resource Allocation Report" for "Friday, February 10, 2023". It includes a table with the following data:

Project #:	Start Date:
1922	1/9/2018

# Search Progress Indicator

The screenshot displays the Aras Innovator web application interface for searching ItemTypes. The top navigation bar includes the Aras Innovator logo and a search bar. The left sidebar contains navigation options: 'ItemTypes', 'Create New ItemType', 'Search ItemTypes', and 'Quick Search'. The main content area shows the 'ItemTypes' search results page. At the top of this page, there is a search bar with a 'Search' button and a 'Clear' button. Below the search bar, there are several filters and controls: 'Simple' (dropdown), 'Default \*' (dropdown), and several icons for view and refresh. The main area contains a table with the following columns: Name (with an upward arrow), Singular Label, Plural Label, Version..., Depend..., Relatio..., C., Use Src A..., Description [...], Help Url, Help Item [...], History Temp..., Allow Private..., and MaxRecords. The table is currently empty, with a single row visible at the top. At the bottom of the page, there is a pagination control showing '< Prev', 'Next >', 'Page: 1', and a download icon.

# Restore Favorite Searches Without Warning

RELEASE **25**

The screenshot displays the aras INNOVATOR application interface. The main window shows a search results table for 'TestItemTypes'. The table has columns for various properties: Prop Str, Classification, Prop Boolean, Prop Color, Prop Date, Prop Text, Prop Image, Prop Float, Prop Decimal, Prop Integer, Prop MD5, Prop Sequence, Prop List, Prop Filter List, Prop Color List, and Test P. The table contains 10 rows of data, including items like 'Eighthitem', 'Fifthitem', 'Fourthitem', 'ItemForTest', 'Ninthitem', 'Seconditem', 'Seventhitem', 'Sixthitem', 'Thirditem', and 'A&TEM\_tęstóí=@#%\*\_...'. A 'Search Mode Warning' dialog box is overlaid on the left side of the screen, with a red border and a diagonal red line. The dialog box contains the text: 'Search Mode Warning', 'The selected search could not be shown in Simple mode. Would you like to switch to Advanced search mode?', and two buttons: 'OK' and 'Cancel'.

Prop Str	Classification	Prop Boolean	Prop Color	Prop Date	Prop Text	Prop Image	Prop Float	Prop Decimal	Prop Integer	Prop MD5	Prop Sequence	Prop List	Prop Filter List	Prop Color List	Test P
Eighthitem		<input type="checkbox"/>			8					***	IT-1008				Test re
Fifthitem		<input type="checkbox"/>						6565656	***	IT-1005	East				Test re
Fourthitem		<input type="checkbox"/>		Monday, July ...	4		65.5		***	IT-1004		IL			Test re
ItemForTest		<input checked="" type="checkbox"/>		Tuesday, Nov...	Some Text to ...		1.545	5454.590	424141	***	IT-1002	East	MA		Test re
Ninthitem		<input type="checkbox"/>			9				***	IT-1009					Test re
Seconditem		<input type="checkbox"/>							***	IT-1001					Test re
Seventhitem		<input type="checkbox"/>			7				***	IT-1007					Test re
Sixthitem		<input checked="" type="checkbox"/>			6		789.4	453.554	54	***	IT-1006				Test re
Thirditem		<input checked="" type="checkbox"/>		Wednesday, F...	Test			12.565		***	IT-1003	West	CA		Test re
A&TEM_tęstóí=@#%*_...		<input checked="" type="checkbox"/>		Monday, Augu...	Some Text to ...		9.876	1234.567		***	IT-1010	East	MA		Test re

# Help Tooltips for Properties

The screenshot displays the Aras Innovator web interface. At the top, the 'aras INNOVATOR' logo is visible. Below the logo, there are tabs for 'Design Request', 'Design Requests', and 'DR-00003 Heat...'. The main content area is titled 'Design Request' and contains several configuration sections:

- Name:** Design Request
- History Template:** (empty)
- Versioning:** Versionable (checkbox), Discipline: Automatic, Revisions: Default
- Search:** Auto Search (checkbox), Default Page Size, Max Records
- Implementation Type:** Single Item (selected), Poly Item, Federated Item
- Other options:** Unlock On Logout, Dependent, Is Relationship, Enforce Discovery (checked), Use Src Access, Allow Private Permissions (checked), and a button 'Enable for Secure Social'.

Below the configuration sections, there are tabs for 'Properties', 'RelationshipTypes', 'Views', 'Server Events', 'Actions', 'Life Cycles', 'Workflows', 'Client Events', 'Can Add', 'Permissions', 'Reports', and 'Poly So'. The 'Properties' tab is active, showing a table of properties:

Name	Label	Pattern	Class Path	Foreign Prop...	Tooltip ↓	Help Text [...]	Track History	Item
_details	Request Details				This is the primary conte...		<input type="checkbox"/>	
_assignee	Assignee				The lead role for the requ...		<input type="checkbox"/>	Floz

# Progress Indicator for Save

The screenshot displays the Aras Innovator interface for configuring an Item Type. The left sidebar shows a navigation menu with categories like Administration, Actions, and ItemTypes. The main area is titled 'Part' and contains several configuration sections:

- Item Type Configuration:**
  - Name:** Part
  - History Template:** Default
  - Versioning:** Versionable (checked), Discipline: Automatic, Revisions: Default
  - Search:** Auto Search (unchecked), Default Page Size: 25, Max Records: (empty)
  - Implementation Type:** Single Item (selected), Poly Item, Federated Item
  - Other Settings:** Unlock On Logout (unchecked), Dependent (unchecked), Is Relationship (unchecked), Enforce Discovery (checked), Use Src Access (unchecked), Allow Private Permissions (checked)
- Properties Table:**

Name ↑	Label	Data Type	Data Source [...]	Le...	Pr...	Sc...	Req...	Uni...	Inde...	Fed...	Hid...	Hid...	Aligr
classification	Type	String		512			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Left
config_id		Item	Part				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Left
control_type	Control Type	List	Part InvControlTy...	256			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Left
cost	Cost	Decimal			19	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Right



# Non-Current Item Indicator

The screenshot displays the Aras Innovator interface for an ECO (ECO-00001001). The top navigation bar includes the Aras Innovator logo, a search bar, and user profile icons. The main content area is divided into two sections: the ECO form and the Impact Matrix.

**ECO Form:**

- Number:** ECO-00001001
- Title:** Sample Change
- Change Reason:** [Empty text area]
- Change Description:** [Empty text area]
- Change Coordinator:** Innovator Admin
- Team:** Product Team
- Priority:** Radio buttons for 1 - High, 2 - Normal, and 3 - Low.
- Release Date:** [Empty text area]
- Effective Date:** [Empty text area]
- Status:** In Work (indicated by a dashed box)

**Impact Matrix:**

Item Number	Name	Revision	State	Sequence	Quantity	Unit	Item Action	EDR Grouping	New Number
<a href="#">P-0012345</a>	Sample Part	A	In Change			EA	Revise		<a href="#">P-0012345</a>

# List Properties Sorted by Label

The screenshot shows a web application interface with a breadcrumb trail: TestIT > MyCountries > TestItemTypes > MyCountries. Below the breadcrumb is a toolbar with an 'Edit' button and several icons. The main content area is divided into two sections: 'List' and 'Value'. The 'List' section shows the 'Name' (MyCountries) and 'Description' fields. The 'Value' section shows a 'Filter Value' field and a 'Values' dropdown menu. Below this is a table with 11 rows, sorted by 'Label' in ascending order. The 'Lithuania' row is highlighted in yellow. At the bottom, there is a pagination control showing 'Page: 1 of 1' and '11 Results'.

Label	Value	Sor... ↑	Inactive
Austria	Kangaroo	128	<input type="checkbox"/>
Belarus	Zubr	256	<input type="checkbox"/>
Canada	Wolf	384	<input type="checkbox"/>
Ireland	Zebra	512	<input type="checkbox"/>
Lithuania	Cat	640	<input type="checkbox"/>
Maldives	Star	768	<input type="checkbox"/>
Nepal	Pony	896	<input type="checkbox"/>
Poland	Dog	1024	<input type="checkbox"/>
Serbia	Hamster	1152	<input type="checkbox"/>
Turkey	Lamb	1280	<input type="checkbox"/>
United States of ...	Deer	1408	<input type="checkbox"/>

# Select Multiple Item Search Criteria

The screenshot shows the Aras Innovator web application interface. At the top, there is a search bar with the text "ECOs x" and a search icon. Below the search bar, there are several controls: a "Search" button, a "Clear" button, a "Simple" dropdown menu, a "Default\*" dropdown menu, and several icons for filtering and settings. The main content area displays a table with the following columns: "Number", "Title", "Status", "Change Coordinator [...]", "Change Description", "Release Date [...]", and "Effective Date [...]". The table is currently empty, and the status is "0 Results". At the bottom of the table, there are navigation controls: "< Prev", "Next >", "Page: 1 of 1", "0 Results", a dropdown menu set to "50", and a download icon.

Number ↑	Title	Status	Change Coordinator [...]	Change Description	Release Date [...]	Effective Date [...]
▼						

# Splitscreen Button Docks All Tabs

The screenshot displays the Aras Innovator web application interface. At the top, the Aras Innovator logo is on the left, and the date and time 'Friday, February 9, 2024 2:11 PM' are on the right. Below the header, there is a search bar and a 'Parts' tab. The main content area features a table with the following columns: Part Number, Revi..., Name, Type, State, Cost, Chan..., and Indexed On [...]. The table contains 17 rows of data, with the first row highlighted in yellow. Below the table, there are navigation controls including 'Prev', 'Next', 'Page: 1', a dropdown menu, and a '25' button.

Part Number ↑	Revi...	Name	Type	State	Cost	Chan...	Indexed On [...]
BB-9090	B	Non-Threaded 63mm Bottom Br...	Component	Released		<input type="checkbox"/>	
BB-9091	A	Threaded 63mm Bottom Bracket	Component	Released		<input type="checkbox"/>	
BB-9092	A	Non-Threaded 73mm Bottom Br...	Component	Released		<input type="checkbox"/>	
BB-9093	A	Threaded 73mm Bottom Bracket	Component	Released		<input type="checkbox"/>	
BC-BELL	A	Bell		Released		<input type="checkbox"/>	
BC-BELL-2	D	Bell 2		Released		<input type="checkbox"/>	
BL-3757	A	SLX Hydraulic Disc Brake Lever	Assembly	Released		<input type="checkbox"/>	
BL-R550	A	BL-R550 Brake Lever	Assembly	Released		<input type="checkbox"/>	
BLT-0001	A	4mm Steel Allen Bolt	Component	Released		<input type="checkbox"/>	
BR-4069	B	SLX Hydraulic Disc Brake	Assembly	Released		<input type="checkbox"/>	
BR-6319	C	BR-CX50 Cantilever Brakes	Assembly	Released		<input type="checkbox"/>	
CA-2923	A	175mm Carbon Fiber Hollow Cra...	Component	Preliminary		<input type="checkbox"/>	
CA-3191	A	170mm Aluminum Alloy Turbine ...	Component	Preliminary		<input type="checkbox"/>	
CA-4221	A	170mm Carbon Fiber Hollow Cra...	Component	Preliminary		<input type="checkbox"/>	
CA-9316	A	175mm Aluminum Alloy Turbine ...	Component	Preliminary		<input type="checkbox"/>	

# Claimed by User Tooltip

aras INNOVATOR

Q CAD Documents x

CAD Documents v ☆

Search Clear Simple | Current Today | Default v [Icons]

Document Nu... ↑	Revi...	Name	Type	State	Native File [...]	Viewable File [...]	Authoring Tool	Chan...	Stand...	Templ...
	A		Assembly							
MP0102	A	Cover Option for MakerBot Repli...	Mechanical/Asse...	Preliminary	MP0102.SLD...	MP0102.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2936	A	Acrylic Cover	Mechanical/Asse...	Preliminary	MP2936.SLD...	MP2936.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2938	A	Additional Parts	Mechanical/Asse...	Released	MP2938.SLD...	MP2938.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2939	A	Body Fan Assembly	Mechanical/Asse...	Released	MP2939.SLD...	MP2939.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2940	A	Body Hardware	Mechanical/Asse...	Released	MP2940.SLD...	MP2940.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2941	A	Body Panels	Mechanical/Asse...	Released	MP2941.SLD...	MP2941.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2943	A	Build Platform	Mechanical/Asse...	Released	MP2943.SLD...	MP2943.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2944	A	Cable Hardware	Mechanical/Asse...	Released	MP2944.SLD...	MP2944.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2948	A	Cover Hardware	Mechanical/Asse...	Preliminary	MP2948.SLD...	MP2948.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2951	A	Cover	Mechanical/Asse...	Preliminary	MP2951.SLD...	MP2951.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2953	A	Extruder Hardware	Mechanical/Asse...	Released	MP2953.SLD...	MP2953.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MP2956	A	Gantry	Mechanical/Asse...	Released	MP2956.SLD...	MP2956.pdf	SolidWorks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Improved Lock Handling with Multiple Clients

RELEASE **29**

The screenshot shows the Aras Innovator web interface for document MD4201. The top navigation bar includes the Aras Innovator logo, a search bar, and user profile icons. Below the navigation, there are tabs for 'Documents' and 'MD4201'. The main content area is divided into two sections: 'Document' and 'Files Changes'. The 'Document' section contains a form with fields for Document Number (MD4201), Revision (A), State (Preliminary), Assigned Creator, Name (Replicator System Schematic), Designated User, Type (General), Authoring Tool (Other), Version, Effective Date, Description (Replicator System Schematic), and From Template. There are also checkboxes for 'Files Attached', 'Changes Pending', and 'Template'. The 'Files Changes' section shows a table with columns for Related File, File Type, Comments, Sequ..., and Is Shared. The bottom of the page has navigation controls for 'Prev', 'Next', 'Page: 1 of 1', '0 Results', and a refresh icon.

This screenshot is identical to the one on the left, showing the Aras Innovator web interface for document MD4201. It displays the same navigation elements, document details form, and 'Files Changes' section. The interface is consistent across both screenshots, highlighting the improved lock handling feature.

# Improved Protection from Modifying Old Versions

RELEASE **30**

The screenshot shows the Aras Innovator interface for document MD4201. The top navigation bar includes the Aras Innovator logo, a search bar, and user profile icons. Below the navigation bar, there are tabs for 'Documents' and 'MD4201'. The main content area is divided into two sections: 'Document' and 'Files Changes'. The 'Document' section contains a form with the following fields:

Document Number	Revision	State	Assigned Creator
MD4201	A	Preliminary	

Below this table, there are fields for 'Name' (Replicator System Schematic), 'Designated User', 'Type' (General), 'Authoring Tool' (Other), 'Version', and 'Effective Date'. A 'Description' field contains 'Replicator System Schematic'. At the bottom of the 'Document' section, there are three checkboxes: 'Files Attached', 'Changes Pending', and 'Template', all of which are currently unchecked.

The 'Files Changes' section is currently empty, showing a table with columns for 'Related File [...]', 'File Type [...]', 'Comments', 'Sequ... ↑', and 'Is Shared'. The bottom of the interface shows navigation controls: '< Prev', 'Next >', 'Page: 1 of 1', '0 Results', and a search icon.

This screenshot is identical to the one on the left, showing the Aras Innovator interface for document MD4201. It displays the same document details form and the empty 'Files Changes' section. The layout and content are consistent with the left screenshot, demonstrating the improved protection from modifying old versions.

# Platform UI Roadmap

ACE 2024



# New Properties Dialog for Advanced Search

The screenshot displays the 'ItemTypes' management interface in Aras Innovator. At the top, there is a search bar and navigation controls. Below the search bar, there are tabs for 'Simple' and 'Default', along with various icons for filtering and actions. The main area contains a table listing various item types with their properties and settings.

Name ↑	Singular Label	Plural Label	Version...	Depend...	Relatio...	C..	Use Src A...	Description [...]	Help Url	Help Item [...]	History Temp...	Allow Private...	MaxRecords
ac_PolicyAccess...	Attribute Query	Attribute Queries	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
ac_PolicyAccessl...	Derived Attribute ...	Derived Attribute ...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Access	Access	Permissions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Access_ExplicitD...			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Access_ItemClas...			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Access_Property...			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Action	Action	Actions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		About_Action...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Activity	Activity	Activities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Activity Assignm...	Activity Assignme...	My InBasket	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Activity EMail	Activity EMail	Activity EMails	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Activity Method	Activity Method	Activity Methods	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Activity Task	Activity Task	Activity Tasks	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Activity Task Value	Activity Task Value	Activity Task Valu...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Activity Template	Activity Template	Activity Templates	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Activity Template ...	Activity Template ...	Activity Template ...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

At the bottom of the table, there are navigation controls including 'Prev', 'Next', 'Page: 1', a dropdown menu, and a '25' button.

# Fill-Down for Rapid Data Entry

The screenshot displays the Aras Innovator web application interface. At the top, the 'aras INNOVATOR' logo is visible. Below the header, there are tabs for 'A E W ENGINEERING INC' and 'Vendors'. The main content area is divided into two sections: 'Vendor' and 'Parts'.

**Vendor Section:** This section shows a form for 'A E W ENGINEERING INC'. Fields include Name, State (Preliminary), Classification (Electronic), Main Phone (573-828-0046), Main Fax, Contact Name (Robert Kaplan), Address (2859 Mandan Road), City (Saint Louis), State (Missouri), Country (United States), Zip Code, Web Site (aewengineeringinc.com), and Description (Purchasing Contract - Term Contract Commodities). There are checkboxes for 'Preferred' (checked) and 'Sole Source' (unchecked).










**Parts Section:** This section displays a table of 'Manufacturer Parts'. The table has columns for Part Number, Name, Files, Catalog Number, Unit, Unit Price, Preferred, Priority, Owner, First Use, Last Order Date, Comments, and Internal Part. The data is as follows:


Part Number	Name	Files	Catalog Number	Unit	Unit Price	Preferred	Priority	Owner	First Use	Last Order Date	Comments	Internal Part
MB26M86000000	Header, 13-Pin, Dual row	<input checked="" type="checkbox"/>	91290A135	EA	0.2780	<input type="checkbox"/>	8	Manufacturing	6/22/2021	1/30/2024	Standard PID Controller Tuning	MB26M86000000
HEF4094B	8-Stage Shift and Store Register	<input type="checkbox"/>	91290A171	EA	0.5800	<input checked="" type="checkbox"/>	4	Terry Adams				
CRCW1206472J200R20	Resistor SMT 4.7K 5% .06W	<input type="checkbox"/>	9271K94	EA	0.8400	<input type="checkbox"/>	9	Manufacturing	11/30/2015	1/30/2024	Transfer Function of Heating Control System	CRCW1206472J200R20
BLM18GG471SN1D	1 FUNCTIONS, 0.2 A, FERRITE CHIP	<input checked="" type="checkbox"/>	93395A207	EA	1.0400	<input type="checkbox"/>	10	Manufacturing				
0402WGF2211T2E	1/4W Thick film chip resistor	<input type="checkbox"/>	93395A212	EA	0.1400	<input checked="" type="checkbox"/>	2	Mike Miller	1/30/2024	1/30/2024	Mechanical Plug Unplug and Electrical	0402WGF2211T2E
00050051001T2E	Resistor SMT 1K	<input type="checkbox"/>	93395A213	EA	0.0000	<input type="checkbox"/>	7		6/10/2020	11/15/2020	Mechanical Unplug and Electrical	

## Conditional Formatting

State	Cost
Preliminary	84.24
Released	79.24
Released	<b>134.55</b>
In Change	<b>102.78</b>
Preliminary	12.44
Released	2.09

## Image Preview

93983	
Body - 301	
BuildPlatform - 301	
Electronics - 301	
Extruder - 002	
Extruder - 030	
Extruder - 221	
Extruder - 234	
Extruder - 301	
Extruder - 302	



## Multiline Text Wrapping

Part Number	Rev...	Description
MP0101	A	Tellus molestie nunc non blandit massa enim nec dui nunc. Donec ac odio tempor orci. Massa sapien faucibus et molestie ac feugiat sed. Pretium aenean pharetra magna vel elit scelerisque mauris.
MP0102	A	Semper auctor neque vitae tempus quam pellentesque nec nam aliquam. Tellus orci ac auctor augue mauris augue. Eros donec ac odio tempor orci dapibus ultrices. Proin sagittis nisl rhoncus mattis rhoncus urna. Risus nec feugiat in fermentum. Vivamus arcu felis bibendum ut tristique. In cursus turpis massa tincidunt dui ut ornare lectus sit.
MP0103	A	Quam viverra orci sagittis eu volutpat odio.
MP0104	A	Magna eget est lorem ipsum dolor sit amet consectetur

## Lookup for State

	State	Make / Bu
	Preliminary	Make
	In Review	Make
	Released	Make
	In Change	Make
	Superseded	Make
	Obsolete	Make
	Released	Buy

## \* and | for Lists

Authoring Tool	C
Solid* Micro*	

## Relative Date Range Search

1/13/2020...1/15/2020

Past =

Within the previous

3 Days

Clear

## Quick Search by "Contains"

2193

D-1000002193

D-1000002194

D-1000002195

D-1000002196

D-1000002197

## Persistent Nav Sidebar

aras *INNOVATOR*

My InBasket x Parts x

Parts

Search Clear Sim

Part Number	Rev...
MP0101	A
MP0101	A
MP0101	A
MP0101	A
MP0101	A

## Restore Closed Tabs

Recent

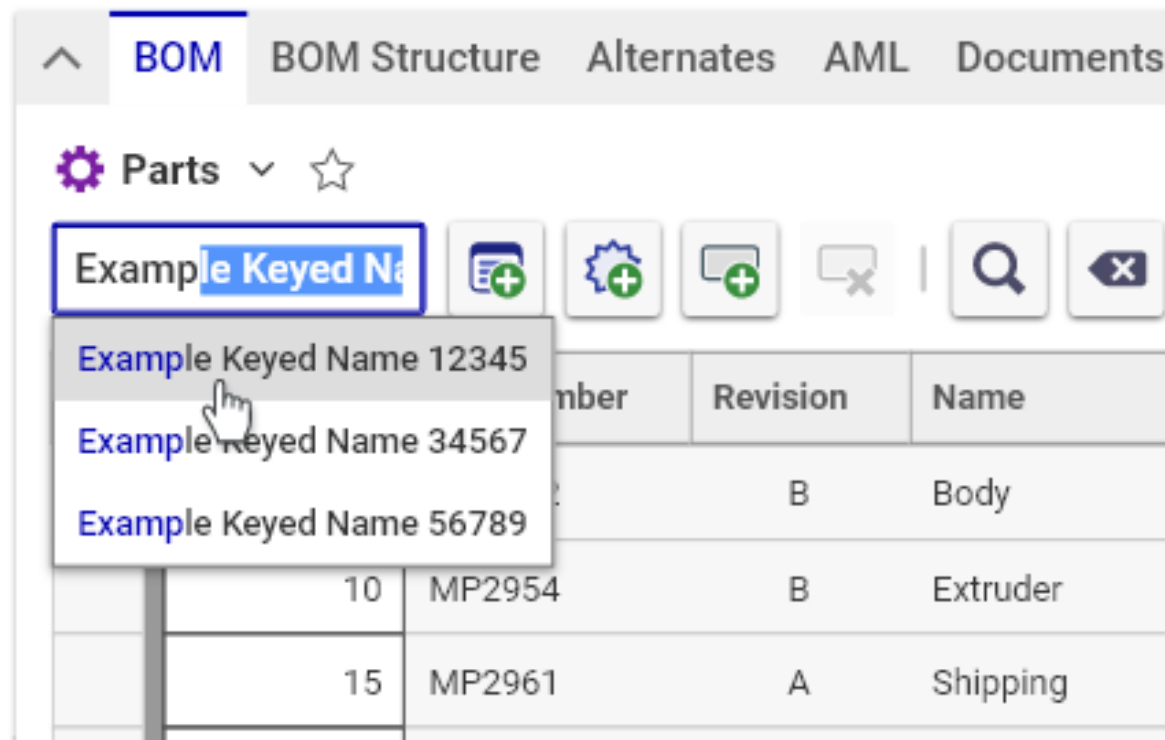
- MP0429
- MP0138
- MP0138
- MP0101
- MP0103
- Part Search
- PR-105124
- PR Search
- DCO-00001002
- MP2338-DOC-1
- MP2338-DOC-2
- Document Search

aras *INNOVATOR*

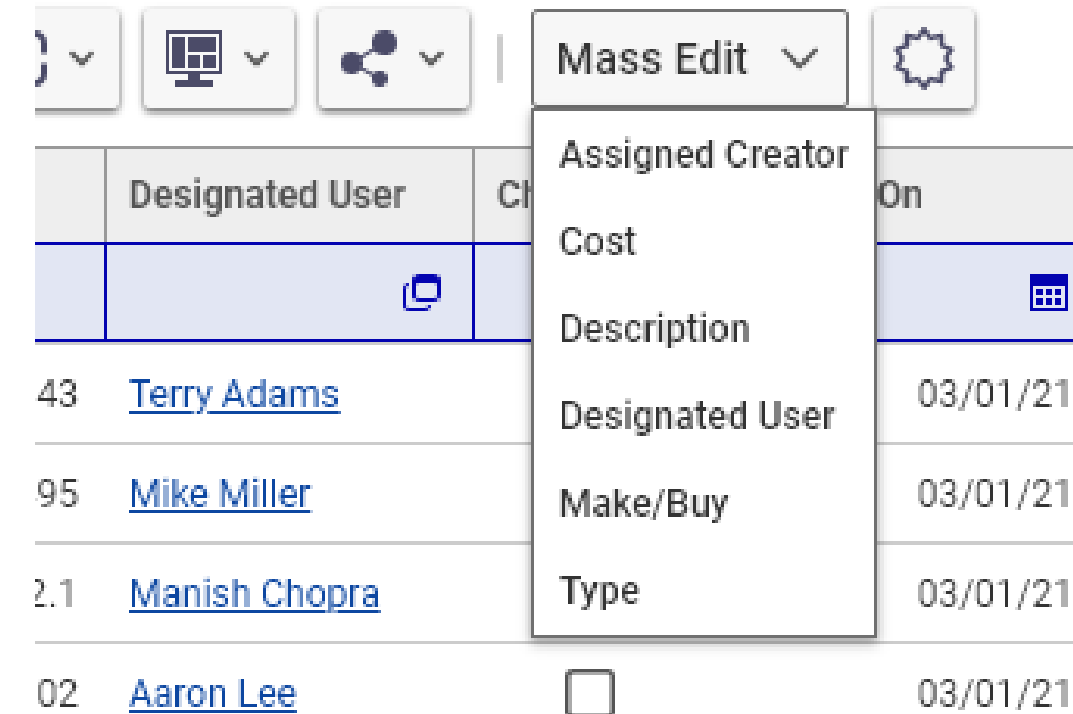
My InBasket x Parts x MP0101 x

- Close Tab
- Close Other Tabs
- Close Tabs to the Right
- Close Tabs to the Left
- Close All Tabs
- Tear Off Tab
- Dock Tab
- Reopen Closed Tab

## Add Related Items by Quick Search



## Mass Edit Property Value



## Count on Relationship Tabs



# Editable Tree Grid View

↺
⚙️
👁️
3
🔄
🔄
📄

**SIM-000001 CAD model preparation for thermal...**

Save
Done
Discard
↺
🔄
⋮

Item	Classification	State	Owned By	Modified On	Description
[-]  ST-000001 Optimizing Heat Distribution of the Extruder		Preliminary	Mike Miller	12/1/2023	When designing a
[-]  SIM-000001 CAD model preparation for thermal analysis	Manual Task	Preliminary	Dan Park	11/29/2023	Creating local ass
[-]  ART-000001		Preliminary	Simulation Engineer	10/16/2017	Creating local ass
[-]  SIM-000004 Extruder Mesh with Contacts Refinement	Manual Task	Preliminary	Dan Park	11/29/2023	Local refinement v
[-]  ART-000001		Preliminary	Simulation Engineer	10/16/2017	Creating local ass
[-]  SIM-000002 Extruder Mesh	Manual Task	Preliminary	Dan Park	11/29/2023	Initial Mesh
[-]  ART-000001		Preliminary	Simulation Engineer	10/16/2017	Creating local ass
[-]  SIM-000002 Extruder Mesh	Manual Task	Preliminary	Dan Park	11/29/2023	Initial Mesh
[-]  ART-000002		Preliminary	Simulation Engineer	10/16/2017	Extruder Mesh
[-]  SIM-000003 Extruder Thermal Analysis	Manual Task	Preliminary	Dan Park	11/29/2023	Boundary Conditio
[-]  ART-000002		Preliminary	Simulation Engineer	10/16/2017	Extruder Mesh
[-]  MP1705	Mechanical/Part	Released		10/30/2017	
[-]  MP1701	Mechanical/Part	Released		10/30/2017	
[-]  MP2506	Mechanical/Part	Released		10/30/2017	
[-]  ART-000001		Preliminary		10/16/2017	Creating local ass
[-]  SIM-000003 Extruder Thermal Analysis	Manual Task	Preliminary	Dan Park	11/29/2023	Boundary Conditio
[-]  ART-000003		Preliminary	Simulation Engineer	10/16/2017	Extruder Thermal
[-]  ART-000002		Preliminary		10/16/2017	Extruder Mesh

**Name**

CAD model preparation for thermal analysis

**Type**

Service Task

**Task Owner**

Dan Park

**Authoring Tool**

SolidWorks

**Tool Version**

2019

**Stage**

CAD Preparation

**Description**

Creating local assembly with volumes for thermal analysis. Lorem ipsum dolor sit amet consectetur. Pretium ut posuere leo viverra etiam sed sollicitudin diam ac. Sollicitudin iaculis lacus tempor aliquam non. Sed semper libero eget eu adipiscing pellentesque tempus quam. Id nullam orci orci ut ut.

**Conclusions**

The screenshot displays the Aras Innovator web interface. At the top, the header includes the Aras Innovator logo, a search bar, and the date/time: Tuesday, October 1, 2024 10:01 AM. Below the header, there are tabs for 'My InBasket', 'Studies', and 'ST-000001 Opti...'. The main content area is titled 'ST-000001 Optimizing Heat Distribution of the Extruder' and features a toolbar with 'Edit' and other icons. A 'Study' panel is open, showing details for study ST-000001, including its state (Preliminary), manager (Dan Park), owner (Mike Miller), and a detailed description of the hotend design optimization. It also lists limitations, recommendations, and an objective for the simulation. A 'Study Report' link is provided at the bottom of the panel. Below the study panel, a 'Simulation Tasks' panel is visible, containing a table of tasks.

Task Number	Name	Type	Process Element [...]	Execution...	Stage	Task Owner [...]
SIM-000001	CAD model preparation for ther...	Manual Task			CAD Preparation	Dan Park
SIM-000002	Extruder Mesh	Manual Task			Mesh	Dan Park
SIM-000003	Extruder Thermal Analysis	Manual Task			Analysis	Dan Park



ACE 2024

Thank you!

