INNOVATION
WITHOUT LIMITATION
What’s New from Aras

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Aras Product Roadmap

http://www.aras.com/plm-roadmap/
Aras Innovator

What’s Inside?

Applications

Independent Releases

Platform

Major Releases and Service Packs

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Aras Innovator is a Single Platform that is purpose-built, not grown through acquisition. It maximizes performance and scalability and simplifies maintenance.
Aras Innovator ... 5 years ago

**CONNECTORS**
- MCAD
- ECAD

**WEB SERVICES**
- Applications
- Modeling

**WEB CLIENTS**

**MOBILE APPS**

**DATA**
- ACCESS
- CLASS

**PROCESS**
- VAULT
- CONFIG

**LOGIC**
- WORKFLOW
- LIFECYCLE

**FORMS**
- FEDERATION
- REPLICATION

**PLATFORM**

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Did you know?

- At the end of 2015, Aras released:
  - The **largest release ever** of Aras Innovator functionality
  - Largest release of **Open capability** in many years
  - Major advances in both **Applications** and **Modeling**
  - The result of a **2-year development** effort

- But it’s cleverly disguised as a Service Pack!
11 SP5 – More than a Service Pack!

- 11 SP5 is an **Open Download**
- But still the usual Service Pack installation for subscribers
- Support for Windows 10 on the client
Aras Update

- New utility to install Applications within core Aras Innovator
- Greatly simplifies installation logistics for administrators
- Can eventually be used by partners and customers alike to distribute and install add-on application packages for Aras
New Application Support Matrix


<table>
<thead>
<tr>
<th>APPLICATIONS</th>
<th>INTEGRATIONS</th>
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<tbody>
<tr>
<td></td>
<td>Office</td>
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<td></td>
<td>Connector</td>
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<td>Product</td>
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<tr>
<td>Engineering</td>
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<tr>
<td>Program</td>
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<tr>
<td>Management</td>
<td>11.0R1</td>
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<td>Requirements</td>
<td>11.0R1</td>
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<tr>
<td>Management</td>
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<td>Documentation</td>
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<tr>
<td>Manufacturing</td>
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<tr>
<td>Process</td>
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<td>Planning</td>
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Certified - QA and Acceptance Testing Completed
Supported - Not Certified. Aras Provides Full Support.
Technical Documentation
Release 11R1 – Dec 2015

- Web-based “Tech Pubs” authoring inside PLM
- Leverages PLM core functionality
  - Access Control, Change Management, Workflow/Lifecycle, Relationships, ...
- Embed or reference content from managed Business Items
- Publish to PDF, HTML, and XML
- Open Download + advanced subscriber features
Quality Management System (QMS)

Release 11R1 – Dec 2015

- New application for overall Quality Management
- Quality Planning (QP)
  - Web-based Editor
  - DFMEA, PFMEA, Flow Diagrams, Control Plans
- Based on AIAG standards
- Open Download + advanced subscriber features
Manufacturing Process Planning

Release 11R2 – May 2016

- Process Plan and Work Instruction authoring in PLM
- MBOM Editor optionally linked to Process Plans
- EBOM/MBOM reconciliation
QMS Process Quality Documents have the option to link to MPP business items.

Because of this, two additional products were released to support QMS 11R1:

- Manufacturing Process Planning (MPP) 11R1
  - Basic MPP data model (Process Plan, Operation, and Tool) to be referenced by QMS Process Quality Documents
- Process Quality Binding (PQB) 11R1
  - Specific mapping from QMS Process Quality Documents to MPP business objects
Quality Management System (QMS)

Release 11R2 – Q3 2016

- Second Release - **Quality Systems (QS)**
- Manage CAPA data and processes to:
  - Identify, contain, and analyze issues
  - Perform corrective and preventive actions
- Leverage PLM as single source of Design, Mfg. and Quality data
- Track key CAPA metrics - % CAPA closed, % CAPA due
Supplier Exchange Portal

Release 11R1 – H2 2016

- Supplier Portal with lightweight UI
- Workflow & Visual Collaboration
- Managed File Transfer
- Security Model
- Simple RFQ

- Replace E-mail and FTP!
Ongoing Application Updates

- **PE 11R2** (Aug 2015): Extend Impact Matrix to include Docs and CAD Docs
- **RM 11R3** (Mar 2016): Editing usability updates
- **PM 11R2** (Q2 2016): Improved windowing plus Visual Collab
- **CE 11R4** (Q3 2016): Alert Notifications
# HTML5 Client Supported Browsers

<table>
<thead>
<tr>
<th></th>
<th>11 SP5</th>
<th>11 SP6</th>
<th>11 SP8 (Q2 2016)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IE 9, 10, 11</strong></td>
<td></td>
<td></td>
<td><strong>No .NET security policies</strong></td>
</tr>
<tr>
<td><strong>FireFox 31, 38 ESR</strong></td>
<td></td>
<td></td>
<td><strong>No Firefox Extension</strong></td>
</tr>
<tr>
<td><strong>Chrome</strong></td>
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<td></td>
<td><strong>Available Now!</strong></td>
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<tr>
<td><strong>Microsoft Edge</strong></td>
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By mid-year Aras Innovator will no longer require browser extensions of any kind, across all 4 browsers.
Aras Flow

- “My work in Aras right now”
- Workflow review and signoff
- Visual Collaboration with view/markup/discussion
- Add sketch, photo, video, and audio
- Free Windows Store app

Now available for iPad!
Coming soon for Android!
Aras Component Search

- New Windows Store app
- Search 430+ million Commercial Parts
- Filter using detailed parameters
- View Datasheets with Application Notes
- Compare Parts side-by-side
- Workflow to add Parts to your Aras database
Aras Integration Landscape

Aras Innovator

Office
Mechanical
Electrical
Electronic

ERP

Authoring Systems

PDM
Legacy
PLM

PDM/PLM Legacy, Point Solutions

Enterprise Systems
Office Connector

- Our most popular connector – enhancements continue at a regular pace

- **Release 11R2 (Mar 2016)** provides many advanced features including:
  - Open from web client into Office
  - Improved Template management
  - New property mapping options
  - Base Document Types
  - Performance improvements

- **Release 11R3 (Apr 2016)**
  - Support for Office 2016
Altium Vault Connector

- New ECAD Connector developed through partnership with Altium
- Leverages new capabilities in Aras ECAD integration platform
- New ideas to optimize processes from design thru manufacturing
EPDM Connector

- PLM process and data management for SolidWorks EPDM
- Ongoing enhancements in work
- Release 11R2 (*Mar 2016*) adds:
  - Improvements to the submit process
  - Support for EPDM 2015 and 2016
Simulation Data Management (SDM)

- Aras plans an open, flexible approach to manage simulation in the context of PLM
- Through a new partnership with ANSYS, we are working on an Aras Innovator to ANSYS EKM integration
  - Transfer of 3D CAD geometry stored in Aras for model creation
  - Capture of resulting analysis data and reports for PLM review
  - Process synchronization
Aras Visual Collaboration

- Easily see your **product content**, including:
  - Office Documents
  - Drawings, Schematics
  - 3D Models
  - Images, Photos

- Create **markup** which is linked with text **comments** into a **discussion thread** visible to other users

- Pure HTML5, no plugins

- No cost to Aras subscribers
Advanced PDF Viewer Functions
Release 11 SP4 – Oct 2015

- New PDF viewer engine
- Show Layers
- Measure point to point
- 2D Compare (Lightbox)
More Visual Collaboration coming soon

Release 11 SP7 – Q2 2016

- Notification
  - In web client and email
- Message visibility control
- TIFF file format support
- Sketch function
- and much more!
- Wizard-based query and report builder
- Run, save and share reports
- Follows Aras permissions
Enterprise Search
Release 11 SP7 – Q2 2015

- Full text search in Aras Innovator
- Search & filter across many ItemTypes & file content at once
- Results based on User Permissions
- Admin-Configurable Index & Filters
- No additional charge to Subscribers
Variants & Options

Release 11 SP10 – H2 2016

- Core Configurator Engine for defining and resolving Variability
- Rules define permitted configurations
- Core service to express Effectivity
- Usage applies Variability to Items & Relations
- Usage resolved for specific Variations
- Basis for sales & product configurator
Productivity Enhancements

- **In 11 SP6 (Mar 2016)**
  - Ability to store any size file
  - Improved Manage File control & dialog

- **In 11 SP9 (Q3 2016)**
  - Mass Promote
  - Select List for Item and Classification
  - Sort Across Pages
  - Form Preview in main grid
The importance of Modeling

- Modeling is the “Secret Sauce” of our Model-Based SOA platform
- All Applications are built and customized with Modeling
- So you can take our Applications and customize them to your needs
- Or you can build your own Applications on our platform
- Or any combination of the above
- And quickly!
New Modeling in 11 SP5

Three entirely new Modeling capabilities were added in 11 SP5:

1. Content Modeling Framework – CMF
2. Tech Docs Framework
3. Command Bar Modeling
Content Modeling Framework (CMF)

- CMF is a new modeling capability that is used to create a hierarchical data model of elements that, when instantiated, is collectively treated as a single “document” entity
- “Modeled Excel-like capability in PLM”
- Used to define the Documents and Views for FMEA content in QMS
- Provides the tabular (Excel-like) editor for the content of these Quality documents
Tech Docs Framework

- Most of the capability for Technical Documentation is built into the core as “Tech Docs Framework”
- This framework is already being used for MPP work instructions
Command Bar modeling

- Modeling of Command Bars is the next step in Configurable UI
- Used to model menus, toolbars, sidebar, and shortcut keys
- Command bars are configurable by Identity and Classification
Relationship Browser modeling

- Modeling of tree-grid controls for related items and properties
- Admin sets allowed items and properties
- User browses within those constraints
- Target: 11 SP8 (Q2 2016)
Steps toward a modular, configurable UI

- Each Sidebar icon represents a unique type of content that can be displayed in the window.
- All content types now take entire window extents.
- New content types like editors being added.
The Goal: Configurable UI for Task-based Clients

- The goal is to provide common, reusable UI elements
- Aras has started on this journey
- Look for more coming soon!
### Aras Innovator ... 5 years ago ... and more to come!

#### Web Services

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#### Apps

- **Data**
- **Process**
- **CMF Grid Docs**
- **Tech Docs**
- **Relationship Browser**

#### Platforms

- **Access**
- **Vault**
- **Workflow**
- **Federation**
- **Replication**

#### Services

- **Class**
- **Config**
- **Lifecycle**
- **Replication**
- **Viz Collab**
- **Ent Search**
- **Effectivity**

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