

A12

RELEASE 2023.06 LTS
JUNI 2023



Basic information about A12
<https://www.mgm-tp.com/a12.html>

What is A12?

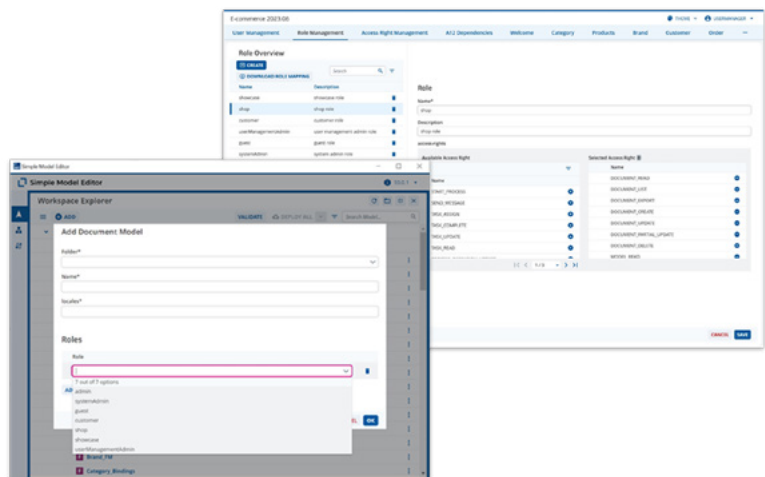
A12 is an enterprise low code platform for developing enterprise applications in complex IT landscapes. A12's modeling platform provides tools to quickly create and maintain parts of an application over the long term without programming experience.

A12's runtime platform provides the flexibility needed to evolve low code apps with professional individual software development and system integration into fully integrated enterprise applications.

PREVIEW APP RBAC SME

Preview App supports role-based permissions

The Preview App is a part of the modeling environment of A12 and allows to test the modeled assets that are created in the SME directly in a web application. Previously, the Preview App worked with the two predefined roles „admin“ and „guest“ in the test application. Now it is possible to define your own roles with permissions and users - thereby using Role Based Access Control (RBAC) to define and test permissions for a multi-user system. The SME offers support for self-defined roles and makes it easier to assign them to specific models.



SME MODEL MIGRATION

Simple Model Editor Integrates Model Migration



In order to edit A12 models created with an older version of the modeling environment with the latest tools, these models have to be migrated. Until now, this was done using the Model Updater - a stand-alone application that was part of the A12 modeling environment.

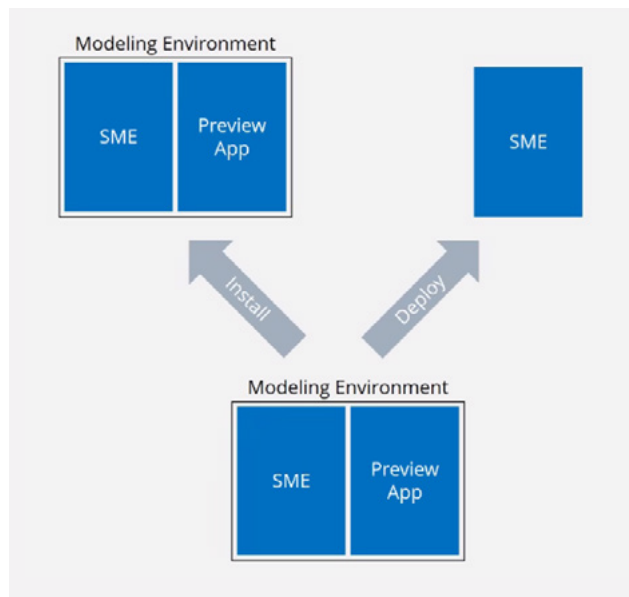
Now this functionality moves directly into the SME. After opening a workspace, the SME automatically detects outdated models and facilitates a direct migration to the current version.



SME DOCKER WEB APP

Using Simple Model Editor in the Browser

The Simple Model Editor (SME) - the central modeling tool of A12 - is now also provided as a Docker image. While the classic modeling environment must be installed locally, the SME can be deployed centrally in this way and used as a web app directly in the browser. This setup is particularly interesting for organizations whose security policies do not allow the software to be installed locally and which have their own test environment. Unlike the locally installable modeling environment, the container image of the SME does not currently contain a preview app.



MODELING TRAINING

Off Into Space - New Modeling Training With Blended Learning

A12 Fundamentals Training

Modules

Modules and their sections must be completed in order.

 Document Modeling :: 1. Episode 1 - Document Modeling A description of the module goes here. 10 sections	 Form Modeling :: 2. Episode 2: Form Modeling A description of the module goes here. 7 sections	 Overview Modeling :: 3. Episode 3 - Overview Modeling A description of the module goes here. 5 sections	 Assessment :: 4. Assessment for A12 Modelers Certificate... A description of the module goes here. 1 section
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Anyone interested in learning the basics of A12 modeling will soon be able to do so with a new training program. A12's new blended learning program takes modeling enthusiasts through all the essential steps of modeling a simple application with a clear use case - developing a request system for space tourism. The training combines short video episodes with example models and links to the relevant documentation. At several check-

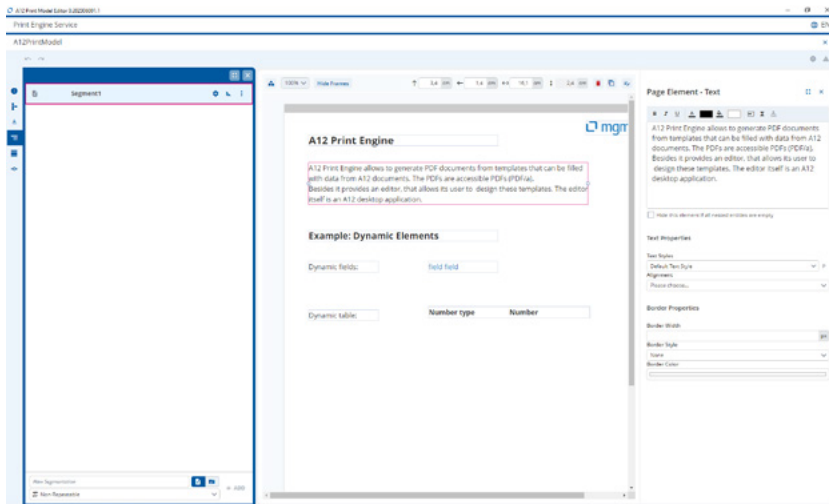
points the learned knowledge can be tested interactively. The training initially focuses on modeling document, form and overview models. It will then be expanded successively to include more advanced modeling techniques. While the new training program will initially be published and tested on mgm's internal e-learning platform, it is planned to make it available to all A12 partners soon.



PRINT MODEL API

Modeled PDFs for Print: Improved Editor and New APIs

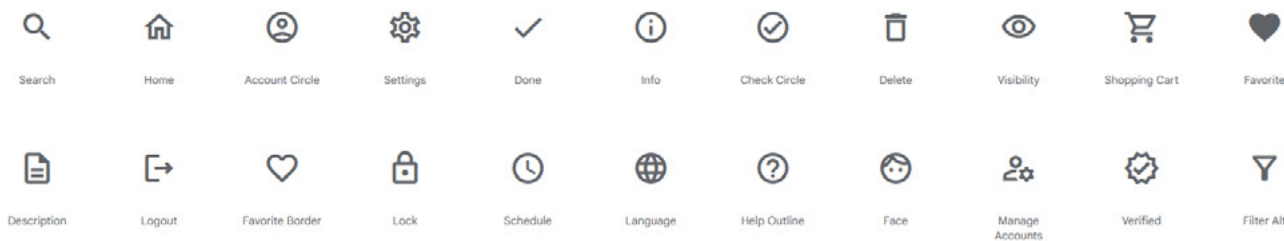
Business applications often need to be able to generate printable documents - be it due to legal obligations or given process flows. In A12, print templates can be specified for this purpose with the help of the *Print Model*. Using the *Print Model Editor*, business analysts define the structure of the template. The *Print Engine* fills the templates with data during runtime. To facilitate access to the editor, it is now delivered directly with the A12 Installer and can be installed optionally (Advanced Settings -> Modeling Tools). In addition to a new workspace, the user interface has been reworked. The creation of print templates is now even more comfortable and intuitive. New APIs are also available for the development side. With the *PrintModel API*, print models can be created or changed during runtime.



The *PrintJobManager API* and the *PrintEngine API* support the implementation of a high-performance print functionality.

ICONS BUTTONS

Unified Support for Material Icons



Anyone who designs buttons for an A12 application in the Simple Model Editor can now use Material Icons across the board - whether in forms, tables or tree-like overviews. The icon collec-

tion is part of the open source Google Fonts library. It includes hundreds of icons covering all typical uses for web applications.

KERNEL API

New API for Client-Side Validation and Computation

To provide frontend developers with easier access to A12's validation and computation functionality, the Kernel team is introducing a new TypeScript API. It is similar in structure to the Java API. All methods are now based on the Document object. The

new API currently has experimental status and does not yet provide support for *CustomCondition* and *CustomFieldType*. It will be extended and extensively tested in the coming months and is expected to replace the existing TypeScript API later this year.



PDT SECURITY

Project Deployment Template: More Secure Without Default User



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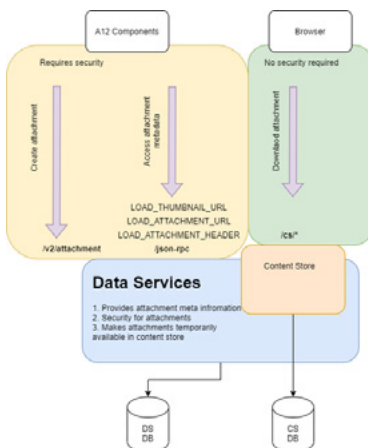
src > environments > int > {} TestRealm.json > [ ] clients > {} 0
406     "name" : "A12 Single Page Application Client",
407     "description" : "Client setup for A12 Single Page Application with OpenIDCo
408     "rootUrl" : "{{ tpl .Values.keycloak.a12.init.clientBaseUri . }}",
409     "adminUrl" : "{{ tpl .Values.keycloak.a12.init.clientBaseUri . }}",
410     "baseUrl" : "{{ tpl .Values.keycloak.a12.init.clientBaseUri . }}",
411     "surrogateAuthRequired" : false,
412     "enabled" : true,
413     "alwaysDisplayInConsole" : false,
414     "clientAuthenticatorType" : "client-secret",
415     "redirectUris" : [ "{{ tpl .Values.keycloak.a12.init.clientBaseUri . }}/"],
416     "webOrigins" : [ "{{ tpl .Values.keycloak.a12.init.clientBaseUri . }}" ],
417     "testRealm" : {}
  
```

A12's Project Deployment Template (PDT) provides a standardized way to deploy A12 applications on Kubernetes clusters. Previously, the template's configuration for the application's default keycloak realm included two predefined accounts: admin and guest. These default users have now been

removed. Projects using the PDT must now configure the required users themselves from the start. This eliminates the security risk of not removing default users before going live. Detailed instructions for secure configuration are provided in the documentation in GetA12.

ATTACHEMENTS DATA SERVICES

Attachments 2.0: New Architecture with Content Store



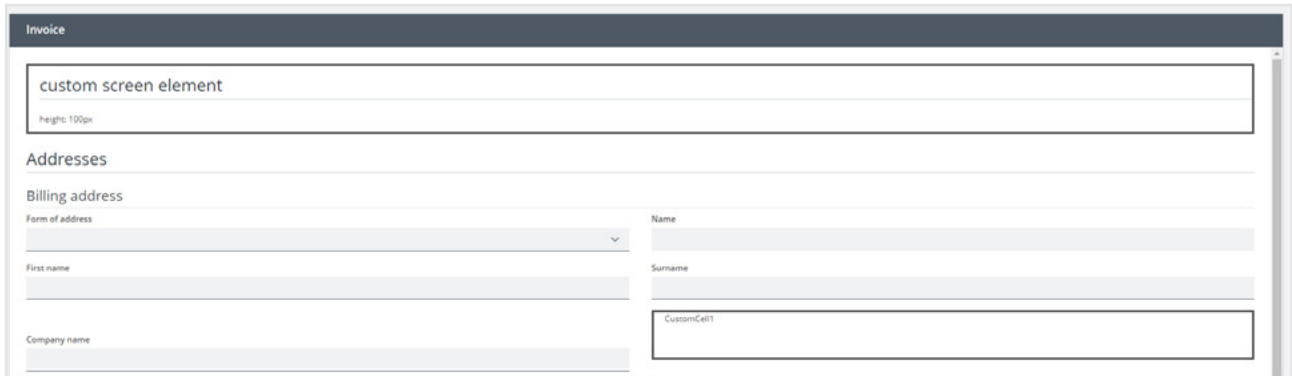
The A12 server-side Data Services component introduces a new architecture for handling file attachments. It provides browser download manager support and greater flexibility for scalable operation. Attachments are now made available for download via a temporarily provisioned, non-guessable, unsecured URL. This is implemented via the Content Store - a new module from Data Services. In addition to the Embedded Mode of operation (default), the Content Store can also run standalone. This allows multiple Content Store instances to run with one Data Services instance and vice versa. The configuration of the Content Store can be used to define, among other things, after how much time a URL expires, how large an attachment may be (10MB by default), and how many downloads from a URL are allowed (one by default).

MORE NEWS IN A NUTSHELL

- The A12 release **2023.06 LTS** is supported until the **end of June 2025**. Support for 2021.06 LTS has ended.
- For security relevant aspects around user management, authentication and authorization with the UAA component of A12 mgm now offers a **2-3 day UAA training course**.
- Due to a **major Spring Upgrade**, A12 **drops support for Java 11**. Since Release 2022.06, Java 17 is supported.

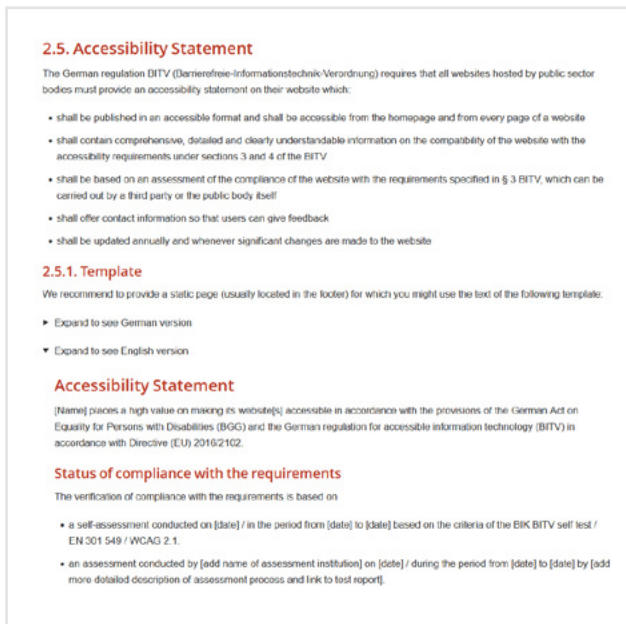
FMM CUSTOMIZATION

Form Modeling: Placeholders for Customized Content



Online forms are not subject to the limitations of paper. There are no limits to their design. In order to extend the A12 form standard to include customized content more conveniently, placeholders for such content can now also be defined in the form editor - the SME's Form Modeling Module. They are displayed as black boxes in the preview of the form. The de-

velopment team fills the area with content by implementing the respective render function. The key benefit of placeholders is a more seamless collaboration between the modeling and development teams. Any customized form content is reflected in the respective model from the very beginning.



AY11 GETA12 TEMPLATE

Accessibility Statement: New Template in GetA12

Accessibility is mandatory for software projects in the public sector in Germany. According to the Barrierefreie-Informationstechnik-Verordnung (BITV), all government websites must include an accessibility statement. A new template for this declaration is now available in A12's documentation on the GetA12 platform.

