A12 Backstage Session - March 2026

Sneak Peak into selected development streams

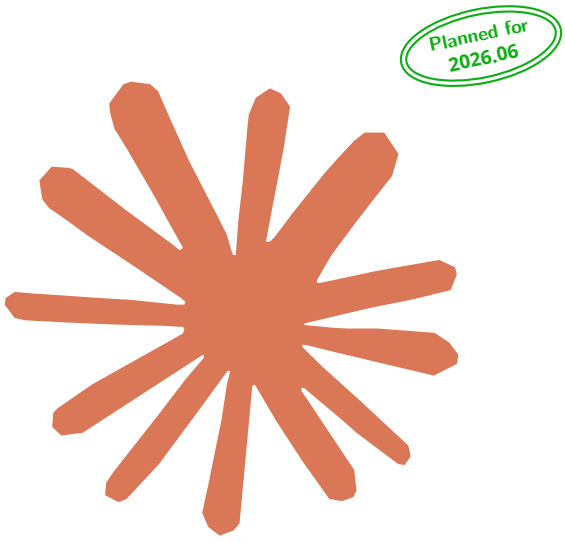
Basic information about A12
https://www.mgm-tp.com/a12.html

What is A12?

A12 is a platform for developing enterprise applications in complex IT landscapes. It relies on model-driven software engineering (MDSE) and brings the low-code principle to the world of enterprise software. As an open platform, A12 simplifies the integration of best-of-breed solutions and the use of AI at all levels. A12's Modeling Environment provides tools to create and maintain parts of an application over the long term as independent business logic modules without programming experience. A12's Runtime Platform provides the flexibility needed to evolve business-critical applications with professional individual software development, AI support and system integration into fully integrated enterprise applications.

CLAUDE | AGENTIC CODING

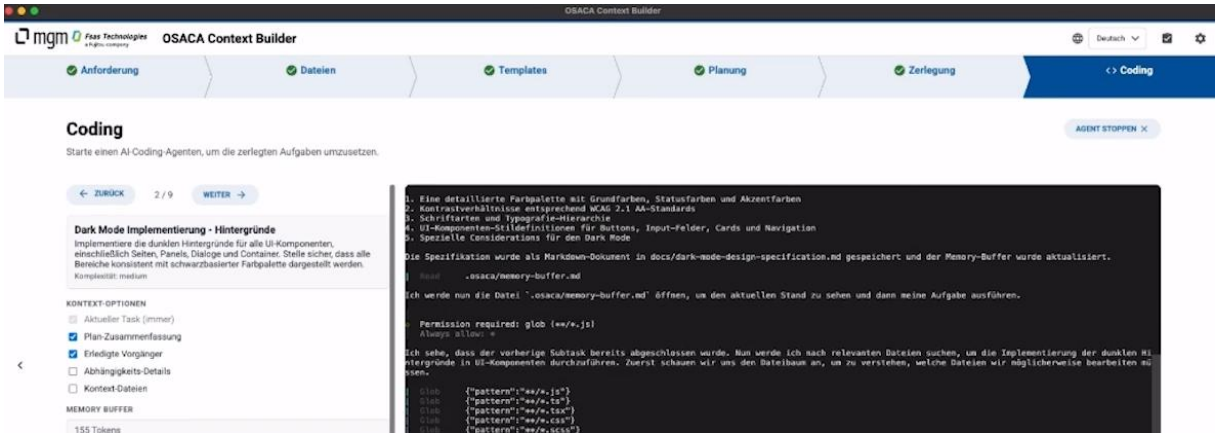
Agentic Coding & Modeling – Accelerate A12 Projects with Claude Code



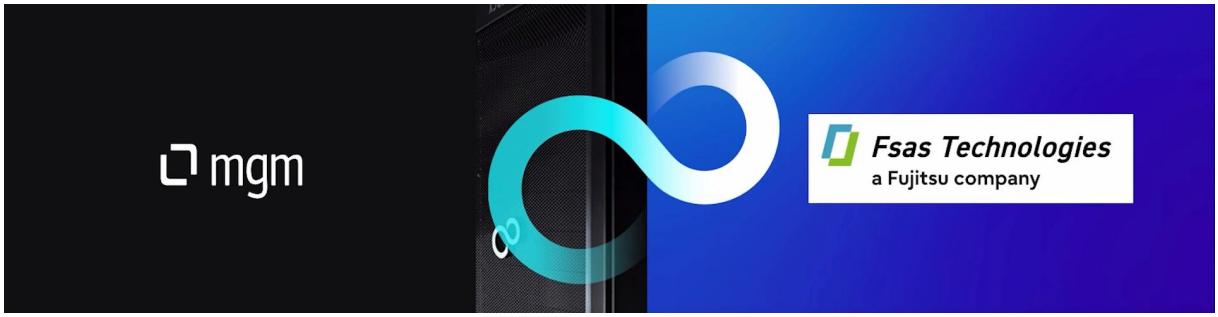
Claude Code has quickly emerged as one of the most powerful products for agentic software development. For this reason, we have significantly expanded A12 support for Claude Code. The *A12 Claude Plugin Marketplace* offers agents for modeling, coding, and orchestration, as well as skills for typical tasks such as updating the A12 version and validating models. Tools such as the Model Checker and an integrated MCP Knowledge Server with a direct link to the A12 documentation round out the offering. Development teams can thus use Claude to generate A12 models, develop features in A12 projects with agent support, and, eventually, code entire A12 applications. Currently, the Claude extensions are available internally at mgm and are being continuously developed. Starting this summer, they are planned to be made available to partners and customers as well.

AGENTIC CODING | OPEN SOURCE | COOPERATION

Open Source Agentic Coding Appliance (OSACA) – A Sovereign On-Premises Solution for Agent-Driven Software Development



Agentic coding is here. AI tools like Claude Code are revolutionizing the development process. However, they cannot be used in all projects. For security reasons, processing code and data on third-party infrastructure is often not permitted. Especially in government contexts, server locations in Germany or the EU are a must. The use of AI requires auditability and responsible operation without loss of control. Furthermore, it is expected that the costs for tools like Claude Code will soon rise rapidly and create new dependencies. For these reasons, mgm, together with the Fujitsu subsidiary Fsas Technologies, has developed a sovereign agentic coding solution in the OSACA project. It is designed from the outset to also be operated on-premises and ensures end-to-end auditability through the analysis of logs and reproducible runs. The solution design comprises the three phases “Smart Context,” “Agentic Execution,” and “Deterministic Validation.” It capitalizes on the fact that even smaller, locally operated AI models deliver excellent results when they draw on the outcomes of a human-coordinated planning phase. To this end, mgm and Fsas have developed specialized tools such as the OSACA Context Builder. mgm is currently already deploying this robust AI infrastructure in its own projects. Starting in May 2026, it will also be offered to customers and partners.



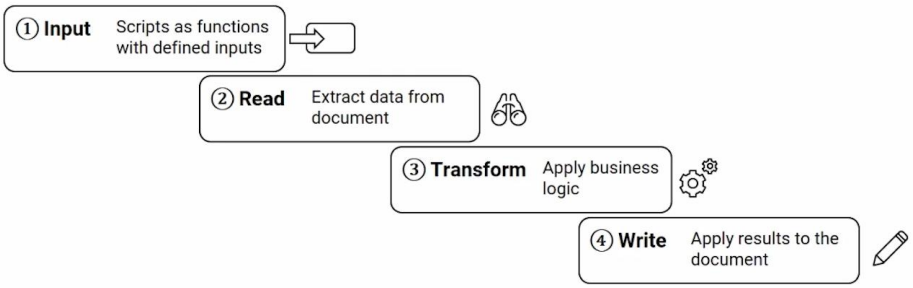
BUSINESS SCRIPTING | TYPESCRIPT | WORKFLOWS

Planned for 2026.06

Business Scripting – First Prototype Under Evaluation

Until now, the work of business analysts and domain experts with A12 has taken place mainly at the modeling level. They can design, test, and deploy comprehensive models as well as associated validation and computation rules in the available editors. Business Scripting opens up entirely new expressive capabilities: A simple scripting approach is designed to enable business analysts to capture more complex business logic in code as easily as possible—and, eventually, at all levels: in workflows, in server-side processes, and directly in the user interface. After the concept was developed last year, a first working prototype is now available and is currently being evaluated in the insurance sector. mgm relies on TypeScript as the scripting language. Access to common A12 operations is provided by an API specifically designed for easy use by business analysts. An early experimental version is planned for the A12 2026.06 release, which will initially support backend processes related to Workflows and Data Services. The API and the concept behind it are being continuously refined and further developed based on user feedback.

```
1 function assignOrderId(orderDocRef: DocumentReference, customerDocRef: DocumentReference): void {
2     const customerId :unknown  = A12.Documents.read(customerDocRef, ...elements: "/CustomerData/CustomerId");
3     const orderId :string  = customerId + "-" + A12.Utils.Uuid.createUuid();
4     A12.Documents.writeFields(orderDocRef, [{ field: "/OrderData/OrderId", value: orderId }]);
}
```



OVERVIEW | FILTER BAR | FILTER SELECTOR

Planned for 2026.06

Find Relevant Data Faster – Overview Filter Section Gets a Major Overhaul

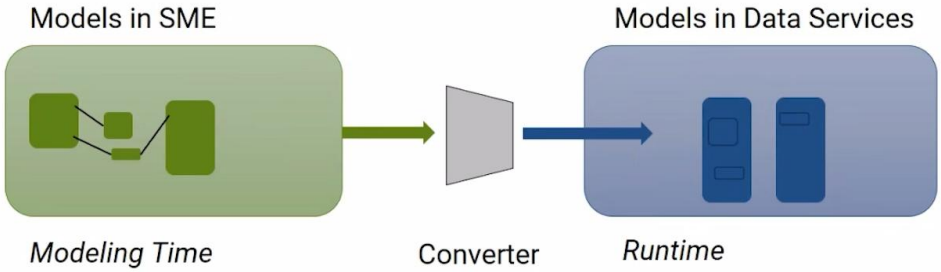
The Overview Engine is a true powerhouse for the model-driven, clear presentation of data in tables and lists. It has always offered very powerful, versatile filter options that allow users of an A12 application to precisely determine which data is displayed and how. However, the sheer variety of options can also overwhelm users. That is why A12 is now introducing a new two-tier filter concept for Overviews. It consists of a filter bar for quick access to the most frequently used filter operations, as well as a filter selector that provides full access to all filter options. Both filter control elements are responsive, accessible, support the Query API, and are fully modelable in the Overview Model. This allows modelers to specifically design the overviews in the user interface so that users can set the most frequently needed filters easily and find the data they are looking for even more conveniently and with fewer clicks.

WORKSPACE | MODEL | DATA SERVICES

Planned for 2026.06

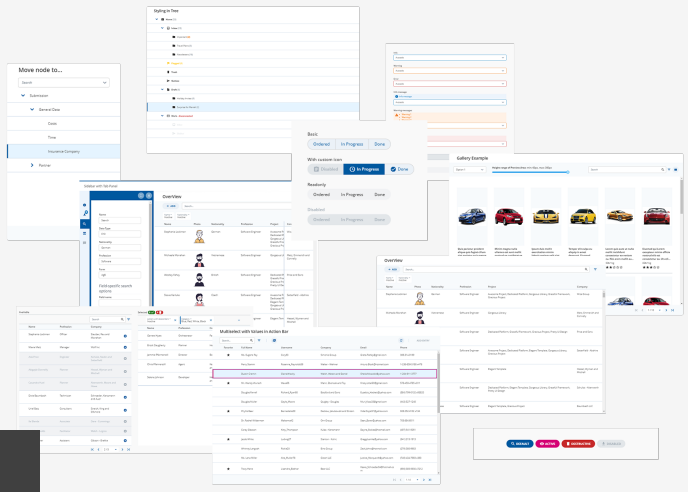
Workspace Converter – New Handoff Point for Models from Modeling to Runtime

On their way from the Simple Model Editor to deployment in an A12 application, A12 models undergo a technical conversion. This will ensure that no dependencies need to be resolved at runtime and that the models can be used as efficiently as possible. Until now, this conversion took place within the A12 Data Services component. With the new Workspace Converter, it now has its own dedicated space. The Workspace Converter can be integrated into build pipelines as a command-line tool and is also integrated into the optional Modeling Module of Data Services, as well as the Preview App and the Simple Model Editor. This reorganization lays the groundwork for further improving the modeling features with even greater flexibility in the future—e.g., with central settings for character sets in document models—and for implementing custom model manipulations on project side. These are then picked up in addition to the A12 standard converters by the Model Converter Framework and are executed in a reliable and concise way.



A12 Widgets

A12 Widgets is a comprehensive collection of prebuilt components designed to provide a pleasurable and accessible user experience.



A12-Widget-Showcase
https://www.mgm-tp.com/a12.htmlshowcase/