



SAP Web IDE

Frequently Asked Questions

May 2019

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General

What is SAP Web IDE?

SAP Web IDE is a powerful, extensible, web-based integrated development tool that simplifies end-to-end development of business applications

Efficiently develop business applications for intelligent enterprise scenarios such as: SAP S/4HANA extensions, SAP Fiori, mobile, and Internet of Things (IoT) apps.

To learn more on SAP Web IDE visit the [SAP Web IDE home page](#).

What is SAP Fiori UX?

SAP Fiori is the new user experience for SAP software. It applies modern design principles for a completely reimagined user experience. SAP Fiori UX represents a personalized, responsive and simple user experience across devices and deployment options. SAP Fiori is based on SAPUI5.

What is SAPUI5?

SAPUI5 lets you build enterprise-ready web applications with modern, rich user interfaces, responsive to all devices, running on almost any browser of your choice. It's based on JavaScript, using JQuery as its foundation and following web standards. It eases your development with a client-side HTML5 rendering library including a rich set of controls and supports data binding to different models (JSON, XML and ODATA).

OpenUI5 is an open source version of SAPUI5.

How enterprise ready is SAP Web IDE?

Security:

- SAP Web IDE relies on SAP Cloud Platform infrastructure for authentication and secure connectivity to different systems (SAP Gateway) or other components (user workspace, Git).
As part of the cloud platform, SAP Web IDE adheres to the SAP standard terms and conditions for cloud products related to data protection and privacy.
SAP Web IDE could use any Identity provider (IdP) including customer defined IdPs and use the SAP Cloud Connector for secure connection to on-premise systems.
- SAP Web IDE relies on authorization checks done by other systems (SAP Gateway, user workspace and Git).

Privacy

Your account in SAP Cloud Platform is strictly separated from other customer's accounts and other customer's data. Customers have every right on their data and coding, e.g. regarding intellectual property.

Your business data is not stored in SAP Cloud Platform. Your application coding is stored in the individual developer's workspace of SAP Web IDE on the platform. If pushed to a Git repository it is stored in that Git repository. If deployed to your backend SAPUI5 ABAP repository it is stored in database tables of the respective NetWeaver system.

Administration / Configuration:

Settings for the development environment can be easily maintained and controlled centrally from the SAP Cloud Platform cockpit.

Develop Once, Run Everywhere:

Applications developed with SAP Web IDE can run on different platforms like SAP Cloud Platform, SAPUI5 ABAP repository and SAP Portal.

Lifecycle Management:

SAP Web IDE supports the entire application lifecycle, from development and testing to deployment and extensibility.

Installation/Supportability:

SAP Web IDE hosted on the SAP Cloud Platform provides a low TCO environment (zero installation). Local installations are not required.

Integration:

SAP Web IDE enables seamless integration with other SAP Cloud Platform capabilities like SAP Fiori launchpad, Git code repository, SAP Fiori Cloud and SAP Cloud Platform Mobile Services. SAP Web IDE also securely connects to your SAPUI5 ABAP Repository to enable consumption of business data and app import / deployment.

What offline features are included (i.e. when data connection is temporarily lost)?

You need to be online to be able to work with SAP Web IDE on SAP Cloud Platform.

SAP Web IDE has an auto-save feature that allows a user to have the changes in all open documents saved automatically at preset intervals. This should be enabled in the Preferences.

In addition, SAP Web IDE enables session restoration in case of session loss, session timeout and connectivity issues.

Working offline is available via SAP Web IDE, personal edition. See more details in the SAP Web IDE, personal edition section.

Is it possible to leverage SAP Build prototypes to jumpstart the SAP Fiori app development?

You can jumpstart your development in SAP Web IDE by importing Build prototypes using the SAP Build Extension/Feature in SAP Web IDE. Because SAP Build prototypes are created with real controls, the resulting SAP Web IDE project will have the initial UI layout including interactions and sample data. This code can be used as a specification for your app, which makes the transition from design to development smooth.

Is it possible to import a project from Eclipse to SAP Web IDE?

Yes, this is possible.
For more information, please refer to the following [blog](#).

Do I have to connect SAP Web IDE to my systems?

No. SAP Web IDE supports a mock service that enables the decoupling of the front-end application development from the server. In addition, it enables application testing without backend connectivity. The mock service supports automatic data generation, editing of mock data and more.

For testing the finalized application, we recommend connecting to your backend system via SAP Cloud Platform Connectivity / Cloud Connector.

Instead of the integrated deployment option SAP Web IDE also supports exporting your projects. It can be imported into e.g. an SAP ABAP Server with an up-/download report (see note [1793771](#))

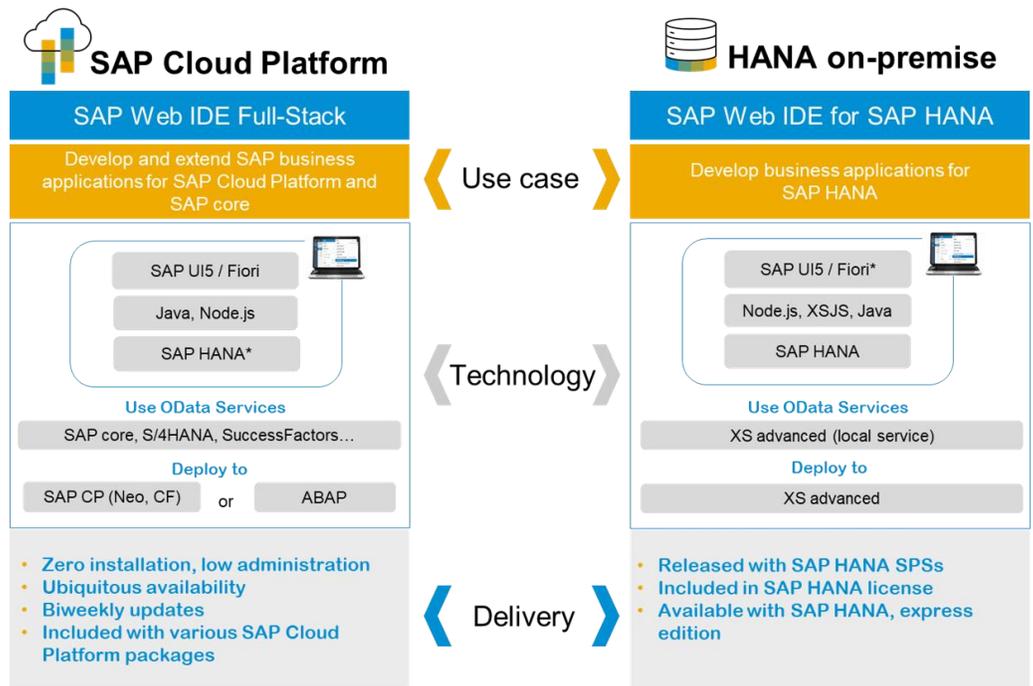
Which browser versions are supported by SAP Web IDE?

Check this [page](#) in our documentation.

SAP Web IDE Different Deliveries/Versions

There are all kinds of SAP Web IDE versions, which one should I use?

This [blog](#) can help you better understand the difference between the SAP Web IDE versions. Likewise, the Q&A below will provide you more insights on them.



* Partial support

SAP Web IDE full-stack

What does SAP Web IDE full-stack offer?

- High productivity tools, such as: Sample applications, templates and wizards, code editors, and graphical editors, for creating SAP Fiori applications, business applications, and SAP HANA database modeling.
- Full stack business application development based on SAP Cloud Application Programming Model.
- Extend SAP delivered applications using code editors and a visual extensibility pane.
- Instantly preview applications for any device screen size - desktop, tablet or smartphone.
- Use the sophisticated mock service for decoupling front-end development from the server and for testing purposes.
- Develop SAPUI5 hybrid mobile apps (based on Apache Cordova and Kapsel), and native mobile apps using Mobile Development Kit and Mobile Card Kit.
- Deploy to SAP Cloud Platform, SAPUI5 ABAP Repository, and SAP Cloud Platform Mobile Services, and register to SAP Fiori launchpad (FLP).
- Team development and collaboration via the integrated Git support.
- Extend SAP Web IDE through extensions (features), plugins and templates leveraging its modular and extensible framework.

Can I work with the same project in SAP Web IDE Full-Stack version and SAP Web IDE personal edition?

Yes, you can migrate your projects between the two versions as described [here](#). However, some functionality is not available yet in the personal edition. You can find more details [here](#).

Also please note that all changes you make in the project settings must be copied manually.

SAP Web IDE, personal edition

Is it possible to install SAP Web IDE locally on your computer?

We recommend our cloud offering as this allows you to work with the latest SAP versions without any installation effort. It also enables seamless integration with SAP Cloud Platform services e.g. SAP Fiori launchpad, Git, Mobile Services, SAP Build and one central set of rules for account projects.

SAP Web IDE is available as a Personal Edition for productive or trial usage. It is a complementary IDE to the cloud version of SAP Web IDE. It is intended to be installed on a personal workstation, for offline development by a single developer. The personal edition offers developers the flexibility to develop even when disconnected from the Internet, and then resume the work on the cloud after a brief sync.

For more information, please visit the [SAP Development Tools \(SAPUI5 tab\)](#).

SAP Web IDE for SAP HANA

When should the SAP Web IDE for SAP HANA be used?

Use the SAP Web IDE for SAP HANA when developing SAP HANA native apps.

Which capabilities are provided by SAP Web IDE for SAP HANA?

SAP Web IDE for SAP HANA provides a comprehensive web-based development experience for creating SAP HANA native applications. This includes the development of SAP HANA content and models, UI development with SAPUI5 and Java, Node.js or XSJS business code for SAP HANA extended application services, advanced model. For more information, see this [blog](#).

What is the rationale behind introducing SAP Web IDE for SAP HANA?

SAP has consolidated the development experience for SAP-based applications on the cloud and on premise. For this SAP Web IDE for SAP HANA comprises capabilities of SAP HANA Studio, SAP HANA Web-based Development Workbench and SAP Web IDE to develop with the SAP HANA XS advanced platform. It consolidates technologies, follows industry trends, and leverages industry standards where possible, while retaining a competitive innovation focus of SAP's current tool offering.

What happens to SAP HANA Studio and SAP HANA Web-based Development Workbench?

Using SAP Web IDE for SAP HANA you might be required to use external and command line tools to develop for SAP HANA XS advanced. The existing tools for SAP HANA extended application services, classic model remain part of SAP HANA to provide 100% backwards capability until full migration will be possible.

Can I use the SAP Web IDE for SAP HANA for developing Fiori applications?

Yes, but note that SAP Web IDE for SAP HANA is designed to deploy applications (including Fiori apps) to SAP HANA and its XSA application server, and not to the ABAP repository (front-end server) or SAP Cloud Platform. Also, some advanced Fiori features are not included.

What is the difference between SAP HANA and SAP HANA Express Edition (HXE)?

HXE was minimized and functionally reduced to work on hosts with a relatively small amount of memory, including personal workstations. For more details see [here](#). From a development perspective, there are no differences, and SAP Web IDE for SAP HANA can be used for all editions of SAP HANA.

Licensing

SAP Web IDE for SAP HANA is included in SAP HANA license. It is also available with SAP HANA, express edition. For more information refer to [SAP HANA](#) and [SAP HANA, express edition](#) on developer.sap.com.

Functionality

General

How does team development and version management work in SAP Web IDE?

SAP Web IDE on SAP Cloud Platform is connected to Git (free and open source software used for distributed revision control and source code management), hosted on SAP Cloud Platform.

SAP Web IDE also supports [connecting to your corporate on-premise Git repository](#).

What kind of deployment options are provided by SAP Web IDE?

SAP Web IDE comes with integrated deployment options for:

- SAP Cloud Platform – Neo and Cloud Foundry* environments
- SAPUI5 ABAP Repository on an SAP ABAP system
- SAP Fiori launchpad on SAP Cloud Platform
- SAP Cloud Platform Mobile Services

* SAP Web IDE Full-Stack supports deployment to SAP Cloud Platform, Cloud Foundry environment.

Does SAP Web IDE support development of SAP Fiori apps for the SAP Cloud Platform Cloud Foundry environment?

Yes. Developing SAP Fiori apps for the SAP Cloud Platform Cloud Foundry environment is supported in SAP Web IDE Full-Stack.

For this purpose, the project needs to be a Multi-Target Application (MTA) project with HTML5 module. SAP Web IDE high productivity tooling for SAP Fiori development are available for HTML5 module development, e.g. instant preview, layout editor, storyboard, etc.

Running the app on Cloud Foundry: As a MTA project, it needs to go through the last phases of MTA development, which are packaging the app and deploying it to a target production system.

What kind of rapid app development capabilities come with SAP Web IDE?

SAP Web IDE offers Project Explorer, Storyboard, WYSIWYG, wizards, templates, purpose-built editors, instant preview, etc. for rapid application development.

In addition, SAP Web IDE offers the **SAP Mobile Development Kit**, which is a metadata-driven tool that allows users to customize native SAP applications, as well as create new native mobile applications. For more details refer to the “Mobile Development” section in this document.

Is there any debugging feature introduced with SAP Web IDE?

In the SAP Web IDE Full-Stack, Java and node.js debugging are available.

There are no particular debugging features for UI development, but as this is a browser-based development environment, the browser debugging capabilities can be used.

You can create a run configuration to include the [Support Assistant](#) tool, which checks whether your application is built according to the best practices for building SAPUI5 apps.

You may open the SAPUI5 Diagnostics to help in debugging by Ctrl+Alt+Shift+S. Also see Chrome extension [UI5 Inspector](#).

Does SAP Web IDE provide any ABAP workbench extensions?

No, currently there is no ABAP workbench extension available in SAP Web IDE.

Can I use SAP Web IDE for development in Angular and React technologies?

No, currently there is no support for developing in Angular and/or React in SAP Web IDE.

Does SAP Web IDE support an automated CI process for development of SAP Fiori/SAPUI5 applications?

Yes. SAP Cloud Platform Continuous Integration and Delivery service, currently available as a **restricted beta** (i.e. for a limited number of customers), offers cloud-based Continuous Integration and Delivery (CI/CD) for your Fiori/ SAPUI5 applications. Check out [this](#) blog for more details.

Also, check out [this](#) tutorial and see how SAP Web IDE takes part in automating the CI process for development of SAP Fiori or SAPUI5 applications running on SAP Cloud Platform.

Extending SAP Web IDE

Is it possible to create customer-specific templates?

Yes, this is possible.

The template gallery can be enriched with custom templates, be it customer-specific, LoB-specific, Industry-specific, etc.

A new template is implemented and delivered within an SAP Web IDE Extension/Feature project.

SAP Web IDE supports the full process of template creation:

Out of the box wizards that assist with the creation of custom templates.

Ability to reuse existing templates and to create a new template from scratch.

Auto-complete option for editing template files in the code editor.

Ability to test the template in SAP Web IDE using *Run as Extension/Feature*.

For more information refer to [SAP Web IDE SDK](#).

Can SAP Web IDE be integrated with other services, such as: online collaboration, task management, bug management, etc.?

Yes. SAP Web IDE has a modular and extensible framework. This framework allows developing new SAP Web IDE extensions that offer additional functionality and provide them to others. Following are some ideas on what you can do: create project templates with customer-specific branding, connect to a service, such as: online collaboration and task management system, create a shortcut to a set of common operations and more.

SAP Web IDE supports the development of SAP Web IDE extensions (i.e. Feature and Plugins), starting from a dedicated template and code assistance, build and deploy.

For more information refer to [SAP Web IDE SDK](#).

Where should a partner deploy a SAP Web IDE extension to be consumed by customers?

If partners would like their extensions to be used by customers or other organizations, they need to obtain an ePaaS account. For more information on ePaaS, visit [Embedded PaaS \(ePaaS\) for SAP Cloud Platform](#). For additional options, contact sapwebide@sap.com.

For SAP Web IDE licensing options, refer to the licensing section in this document.

For more information, refer to [SAP Web IDE SDK](#).

Mobile Development

What kind of mobile development options are offered within SAP Web IDE?

SAP Web IDE enables multiple features to enable mobile app development:

- SAPUI5, which is used for creating SAP Fiori apps, is an HTML5 framework designed to build cross-platform, responsive, enterprise-grade applications. It provides a comprehensive set of responsive controls and libraries that make a web app run appropriately on different devices (desktop, tablets, and smartphones). For more details see the [SAPUI5 product page](#) and the [SAPUI5 Demo Kit](#).
- Via integration with **SAP Cloud Platform Mobile Services**, SAP Web IDE supports two additional development approaches:
 - To enable a hybrid web experience, Mobile Services provides the **Hybrid Application Toolkit (HAT)** extension to SAP Web IDE. By using **HAT** with Mobile Services, developers can create and operate mobile apps with full offline support, notification services, superior back-end integration and enterprise-grade security. It supports cloud-based build service for iOS and Android. You can find more information at [SAP Cloud Platform Mobile Service](#), [SAP Web IDE mobile enablement](#), and the [HAT online help](#).
 - For an experience that enables the use of web development skills while at the same time delivering a native end user experience, Mobile Services offers the **SAP Mobile Development Kit (MDK)** extension to SAP Web IDE. **MDK** is a metadata-driven tool that allows users to customize native SAP applications, as well as create new native mobile applications. Those applications are deployed via Mobile Services; when received by the client runtime UX controls are transformed into native SAP SDK for iOS controls to enable a native experience. For more details refer to this [blog](#) and [documentation](#).

What kind of rapid app development for mobile platform comes with SAP Web IDE?

SAP Web IDE offers layout editor (WYSIWYG), wizards, templates and code editor with SAPUI5 and Kapsel code completion for rapid development. **HAT** can be used to transform SAPUI5 content into a hybrid web app for a more feature rich mobile experience.

The **MDK** extension also provides a layout editor for rapid UI creation as well as a visual editor to quickly enable developers to enable complex client-side business logic. Apps built using **MDK** are deployed through **Mobile Services** and render provide a native end user experience.

Does SAP Web IDE support the SMP Hybrid SDK (Kapsel)?

Yes, the **HAT** feature supports the Kapsel SDK through code completion, code snippets and API reference documentation for an optimized hybrid web experience. Clients can also choose to create a fully customizable version of the SAP Fiori Client.

Does HAT support third party Cordova plugins?

Yes, HAT allows you to build and package an app with publicly available (in npm) Cordova plugins enabled or preview these plugins using the Developer Companion app that can be built on demand.

What kind of mobile deployment options are provided by SAP Web IDE?

Apps built using the **MDK** are deployed as metadata to **Mobile Services**. Using **Mobile Services'** app management features, admins can control deployment to end user devices seamlessly. When using **HAT**, a dialog is presented to the developer when cloud build is complete. This dialog contains a QR code that can be scanned to deploy the app to a mobile device directly. A download link is also provided to support deployment through third party tools.

Can we do native (mobile) development with SAP Web IDE?

The **MDK** feature enables developers to leverage web skills, within SAP Web IDE to customize existing SAP apps and to create new custom mobile apps. These apps are represented as metadata and are deployed via Mobile Services; when received by the client runtime UX controls are transformed into native **SAP SDK for IOS** controls to enable a native experience.

Licensing

How does licensing work with SAP Web IDE?

There are several ways for customers/partners to access SAP Web IDE:

1. For SAP Cloud Platform customers: SAP Web IDE is included in several platform packages:

Get Started

- Developer edition (Non-Production Use) on the platform's Trial
- Starter editions

Small Business

- Professional edition
- Single application edition
- Multiple application edition

Enterprise

- SAP Cloud Platform, app services package, standard edition
- SAP Cloud Platform, app services package, professional edition
- SAP Cloud Platform, app services package, premium edition

Extension packages

- SAP Cloud Platform, extension package, standard edition
- SAP Cloud Platform, extension package, premium edition

For more information, see <https://cloudplatform.sap.com/pricing.html>.

2. SAP Web IDE is also included with SAP Fiori Cloud
 - SAP Fiori Cloud demo edition for test and evaluation
 - SAP Fiori Cloud standard edition
 - SAP Fiori Cloud premium edition

For more information, see

<https://cloudplatform.sap.com/capabilities/ux/fiori.html>

3. In addition to the packages above SAP offers the “SAP Web IDE” package (material no. 8003103). This license entitles you to use a platform account with SAP Cloud Platform, Web IDE and the SAP Web IDE, personal edition, for the development of productive apps.

For runtime, you can deploy these apps to your on-premise system, or purchase one of the above mentioned packages that include SAP Web IDE and a runtime environment.

You can purchase “SAP Web IDE” package in a subscription or consumption based model, for more information, see

<https://cloudplatform.sap.com/pricing.html>

For purchasing via the SAP Store, see

<https://www.sapstore.com/solutions/60009/Web-IDE>

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4. SAP Web IDE, personal edition is intended as a complementary IDE. It can be installed on a personal workstation for offline development by a single developer. Customers with a paid subscription to SAP Web IDE on SAP Cloud Platform can use it productively. Information on how to obtain the SAP Web IDE, personal edition and its documentation can be found on [SAP Development Tools \(SAPUI5 tab\)](#).
 5. For partners: SAP Web IDE is included in multiple SAP PartnerEdge program packages. Description of SAP PartnerEdge packages, license terms and prices is available [here](#) (SAP employees and SAP partners access only).
 6. Trial versions: The cloud-based version is available on the [platform Trial](#). Information on how to obtain SAP Web IDE, personal edition and its documentation can be found [here](#).
 7. For SAP HANA customers: SAP Web IDE for SAP HANA is available starting from SAP HANA SPS 11. More information is available under the HANA integration chapter of this document.
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How can I get one of those packages?

Contact your SAP Account Executive or search for [SAP Web IDE](#) on [SAP Store](#), or [SAP Cloud Platform Pricing and Packaging](#).

Find Out More

SAP Web IDE Homepage: <https://www.sap.com/community/topics/web-ide.html>

SAP Web IDE Roadmap: [sap.com/roadmaps](https://www.sap.com/roadmaps)

Have an idea for a new feature or capability: <https://influence.sap.com/SAPWebIDE>

Contact us: sapwebide@sap.com