Agile Business Suite Developer 10.0

Product Information Sheet

Unisys Agile Business Suite is a low-code development platform that enables IT organizations to rapidly build, deploy, run and maintain business-critical applications that respond to changing business requirements. You can use Agile Business Suite Developer to define and maintain complete solutions or services that can interact with other applications. Generated applications can run in Unisys ClearPath® MCP, ClearPath® OS 2200 or Microsoft Windows.

Product overview

Agile Business Suite Developer is a powerful tool that enables developers to work collaboratively with business users to create transaction-oriented solutions. Built as a package within Microsoft Visual Studio, Agile Business Suite Developer leverages the strengths of this industry-popular integrated development environment. It adds model-driven techniques along with the ability to generate a complete optimized solution for multiple deployment environments.

AB Suite can be integrated with Azure DevOps Services and Azure DevOps Server to manage the life cycle of an AB Suite application, from managing code, building and testing your AB Suite applications.

Product highlights

Agile Business Suite Release 10.0 Developer highlights components that:

- Can build complete applications or unique services defined in a platform-independent model
- Personalize the development experience — the look, feel and the features to suit your development style
- Use industry-standard tools and OO concepts
- Enable developers to specify business actions in business terms using a powerful high-level scripting language
- Generate all solution elements — online transactions, reports, database schema and numerous end-user interface options from a single model
- Can be configured for large development groups with Azure DevOps Services and Azure DevOps Server
- Interact through a SQL server-based repository that stores information about all aspects of the solution

- Dynamic validation and live assistance to enable you to develop with confidence and minimize errors

Key product components

The key product components are the system modeler, version control, debugger, builder, automated test tool, client and XML framework.

System Modeler

With System Modeler, developers can work within a sophisticated development environment to:

- Create scalable, platform-independent applications using well-known, object-oriented concepts
- Work side-by-side with end users to define application functionality in business terms
- Design end-user screen presentations that can then be generated in several different formats, including ASP.NET Web Forms, graphical forms, or independent Visual Basic .NET client applications

Life cycle management

AB Suite Developer works in a well-integrated way with application life cycle features offered by Azure DevOps Services. From System Modeler, developers can check in and check out elements, maintain multiple versions, and group them for release by label. Branching allows developers to work on a set of revisions without affecting different sets of revisions. Merging can be done eventually to create a single version of the project.

Agile Business Suite Developer also includes utilities to compare different versions of an application and report on the differences. Building and testing an AB Suite application can be done using Azure DevOps.

Debugger

Using the debugging capabilities of Visual Studio, Agile Business Suite Developer enables you to perform unit and functional testing without having to generate the complete application. Moreover, with the Debugger, you can emulate the characteristics of the targeted deployment platform.

Key capabilities include:

- Setting breakpoints
- Setting and changing data values
- Watching the code as it is interpretively executed
- Editing the logic and continuing debugging
- Accessing external components

Automated Test Tool

The Automated Test Tool (ATT) is integrated with Visual Studio, allowing you to define and run test cases right inside Visual Studio.

When ATT is installed with Developer it becomes a "Custom Test Type" in Visual Studio. This makes it easier to run unit tests for the application components that are changing.

Developers won't need to launch a separate program to run their tests – and they can script the tests to have them run automatically. Plus, if they are using Azure DevOps, a project manager can assign testing tasks – and track them to confirm they have been successfully carried out before changes are integrated into a release.

For many IT organizations, testing is the costliest and least favorite development activity. With the Automated Test Tool, developers can:

- Capture test steps for later replay
- Compare results from different test sessions
- Modify test steps using an easy-to-use graphical interface. AB Suite ATT is integrated with Azure DevOps Test Plans, which makes unit testing a standard process. It enables you to run test scripts automatically, for example, directly after a build.

Builder

As the engine in Agile Business Suite Developer, you use Builder to generate and deploy a solution or individual services from the defined model. With Builder, you can define multiple configuration sets that identify a target deployment platform and a specific location for the deployed solution elements. Once you define the configuration sets, you can store them for reuse or modify them as needed.

You can generate and deploy solutions in one step, or you can generate them and then deploy them later. After you have generated a solution the first time, Builder analyzes the changes and then generates only what is

required to implement them. The generated solution is automatically optimized for the target platform environment.

The Builder is integrated with Azure Pipelines. With this integration, the build process becomes a standard and automated process.

Component Enabler

Component Enabler connects Agile Business Suite applications to the latest web technologies, enabling fast, secure, and seamless integration with modern client tools. By converting existing Ispec interface definitions into object-based components and ready-to-use Presentation Client applications, it provides a quick path to web enable your solutions. With support for both auto generated interfaces and custom web pages, Component Enabler helps you modernize, extend, and deliver Agile Business Suite applications to users anywhere, anytime.

Integration with ClearPath ePortal

AB Suite Developer and ClearPath ePortal leverage Visual Studio.

This combination offers the ability to create a single Visual Studio solution that contains projects for your AB Suite model, an ePortal ClearPath Data Source project, and one or more ClearPath ePortal Presentation projects. This will make it even easier for backend application developers and front-end client developers to coordinate their activities.

Software requirements

- Microsoft Visual Studio 2022 Professional
- SQL Server 2022 Enterprise, Express, Standard Edition
- Azure DevOps Services/Azure DevOps Server 2022
- Windows 11 Enterprise Edition
- Windows Server 2025 Datacenter

What's new?

Enhanced Developer Efficiency

- Simpler and more consistent coding standards with mandatory statement termination and simplified multiline syntax, improving readability and maintainability.

- Introduces modern arithmetic and assignment operators to enable more expressive and efficient logic development.

Enhanced Application Modeling and Modernization

- Enables applications to directly derive from REST API frameworks, simplifying the creation of modern, service-based architectures.

- Enable modernization/development of new client components using .NET 8

More Accessible and Powerful Debugging

- Allow non-administrative users to run the Debugger, increasing accessibility across development teams.

- Improves debugging focus by collapsing inserted logic by default, with enhanced navigation options for stepping through execution.

Stronger Version Control and Collaboration

- Improves difference report usability by generating browser-friendly HTML reports alongside XML, avoiding local security restrictions

Summary

Agile Business Suite Developer is an industry-leading, model-driven development software product that leverages popular industry tools and industry-standard technologies to provide maximum business agility. With Agile Business Suite Developer, IT organizations can provide both flexibility and long-term investment protection.

For more details, please visit our support website and look for the Software Qualification Matrix. Please email any question.

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