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Installing ABAP Development Tools for Eclipse

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1 About This Installation Guide

Scope of Documentation

This documentation describes how to install the Eclipse-based front-end components of ABAP development tools for Eclipse (ADT) on a local drive.

Target Audience

- ABAP system administrators and developers who want to install, build, or provide the installation packages from ABAP development tools for Eclipse for ABAP developers who work with an Eclipse-based IDE.
- ABAP system administrators who configure the ABAP server for each back-end system in order to connect them with ABAP development tools for Eclipse.

Context

provides features that are client-specific or require a specific back-end version. To highlight and contrast back-end-specific help content in the relevant context, the following SAP icon fonts are used:

Icon	Deployment Model	Description
Home	On-premise/Private Cloud	Used for SAP NetWeaver, SAP S/4HANA and for SAP S/4HANA Cloud Private Edition
Cloud	Public Cloud	Used for SAP BTP ABAP environment and SAP S/4HANA Cloud Public Edition

Validity of Documentation

This documentation belongs to ABAP development tools for Eclipse with the client version **3.52** and refers to the range of functions that have been shipped as part of the standard delivery for:

- *Home* On-premise/Private Cloud shipments:
  - SAP NetWeaver 7.3 EHP1 **SP04 and higher**
  - SAP NetWeaver 7.4 **SP02 and higher**
  - SAP NetWeaver 7.5 **SP00 and higher**
  - SAP NetWeaver AS for ABAP 7.51 innovation package **SP00 and higher**
  - SAP S/4HANA 1709 **FPS00 and higher**

- SAP S/4HANA 1809 **FPS00 and higher**
- SAP S/4HANA 1909 **FPS00 and higher**
- SAP S/4HANA 2020 **FPS00 and higher**
- SAP S/4HANA 2021 **FPS00 and higher**
- SAP S/4HANA 2022 **FPS00 and higher**
- SAP S/4HANA 2023 **FPS00 and higher**
- SAP S/4HANA 2025 **FPS00 and higher**
- SAP S/4HANA Cloud Private Edition

  > **Note**
  >
  > SAP S/4HANA Cloud Private Edition is supported as of SAP S/4HANA 1709 **FPS00 and higher**.

- *Cloud* Public Cloud shipments:
  - SAP BTP ABAP environment 2508
  - SAP S/4HANA Cloud Public Edition 2508

Home Prerequisite

To enable development using ABAP development tools for Eclipse in releases ≥ SAP NetWeaver 7.3 EHP1 SP04 and ≥ SAP products based on ABAP platform 1909 (Application Server ABAP 7.54) the ABAP system administrator needs to configure each back-end first.

For more information, see the back-end configuration guide Configuring the ABAP Back-end for ABAP Development Tools for Eclipse

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Third Party Component	License
Eclipse Platform: • 2026-03 (4.39) • 2026-06 (4.40)	Eclipse Public License v 1.0
Eclipse Semantic File System (SFS) (SAP), 0.6.1	Eclipse Public License v 1.0
Standard URI Template, 2.0.8	Apache License 2.0
Lz4 Compression Algorithm, 1.9.4	BSD Two Clause "Simplified" License
Swagger UI, 5.32.4	Apache License 2.0
CommonMark Java Core 0.28.0	BSD Two Clause "Simplified" License
Jackson-annotations 2.21	Apache License 2.0
Jackson-core 3.1.2	Apache License 2.0
Jackson-databind 3.1.2	Apache License 2.0
Jakarta-servlet-api 6.1.0	Eclipse Public License 2.0
Java MCP SDK Core 1.1.2	MIT License
Java MCP SDK JSON Jackson 3 1.1.2	MIT License
JsonSchemaValidator 3.0.2	Apache License 2.0
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Reactive-streams 1.0.4	MIT-0 License

Third Party Component	License
Reactor-core 3.8.5	Apache License 2.0

List of additional features required for running ABAP Development Tools

Feature Name	Feature ID
EMF Edit Data Binding	org.eclipse.emf.databinding.edit.feature.group
EMF - Eclipse Modeling Framework Core Runtime	org.eclipse.emf.ecore.feature.group
EMF Model Transaction Workbench Integration	org.eclipse.emf.workspace.feature.group
Graphiti (Incubation)	org.eclipse.graphiti.feature.feature.group
GEF Classic Zest	org.eclipse.zest.feature.group

ABAP development tools for Eclipse (ADT) requires manual installation of the above mentioned additional Eclipse features before the ABAP Development Tools package installation due to the following reasons:

1. **Customer Requirement:** Many developers at customer and partner organizations do not have internet access or an official SAP Support Portal (S-) User. Thus, SAP decided to provide an installation scenario for a person who usually has an `S User` and internet access: that is, an administrator who is responsible for the development landscape in the customer or partner organization.
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2.7 Documentation in the SAP Help Portal

You can find this documentation at the Product Finder on the SAP Help Portal in the *Technology Platform* area.

3 Support and Maintenance Strategy

ABAP development tools for Eclipse include a server and a client part. For both the Support and Maintenance Strategy is different from **SAP NetWeaver 7.3 EHP1**. Just as SAP GUI, the ABAP development tools for Eclipse follow the SAP Maintenance Strategy Rule 11: "Downward-compatible software component versions can be replaced by a higher version in the course of the life of the application release they are built into, without adaptations or changes to other software component versions within the release. Therefore downward-compatible software component versions are usually not maintained for the entire mainstream and extended maintenance period of the application release they are built into. Instead they have to be replaced by a higher version."

ABAP development tools for Eclipse is a Downward-Compatible Software Component Version. This means that starting with **SAP NetWeaver 7.3 EHP1** the most current client version of the ABAP development tools for Eclipse will always be compatible with all future SAP NetWeaver 7.3 EHP1, ABAP Platform 1809 (AS ABAP 7.53) and higher, as well as SAP BTP ABAP environment shipments. However, this requires users to regularly update to the current client version of the ABAP development tools for Eclipse. Since the client has many dependencies, this may require additional updates on the PC. These will be listed in the following client section.

> ⓘ Note
>
> For more information, see SAP Note 1856565.
>
> ☁ *Cloud* SAP GUI is not relevant in the context of SAP BTP ABAP environment.

3.1 General Terms

ABAP Development Tools (ADT) depends on Eclipse and SAP GUI. It will not be shipped as a bundle with Eclipse and SAP GUI but separately as an Eclipse p2 repository. Both Eclipse and SAP GUI are supported for different individual platforms. The support of individual platforms also depends on the support of the operating systems by the manufacturers. SAP cannot provide support for a platform or for an operating system that is no longer supported by its vendor or manufacturer. By the same token, SAP cannot provide support for an Eclipse version or any other Open Source software version that is no longer supported by the Eclipse Foundation or the Open Source community.

> ⓘ Note
>
> ☁ *Cloud* SAP GUI is not relevant in the context of SAP BTP ABAP environment.

3.2 Support Platform Matrix

ABAP development tools for Eclipse is only supported for a subset of the individual platform and operating system versions for which Eclipse and SAP GUI are supported. These are:

Software	Version
Operating System	• Microsoft Windows 10™ or higher • Apple macOS 14 or higher
Java Runtime	JRE version 21 (64-Bit, LTS) **Note** • Starting with Eclipse version **2024-06**, Eclipse will require Java version 21. • ADT is validated and tested against Java version 21 (Oracle Java and OpenJDK). • The latest Eclipse packages are bundled with Eclipse Temurin, an OpenJDK binary distribution provided by the Eclipse Adoptium project. Any other JRE found on the system is not used. If you want to remove the bundled JRE and use a custom one, see SAP note 3035242.
Microsoft Visual C++ Runtime	Microsoft Visual C++ v14 Redistributable
Home SAP GUI for Windows	8.00 or higher **Note** *Cloud* SAP GUI is not relevant in the context of SAP BTP ABAP environment.

Software	Version
Home SAP GUI for Java (macOS)	8.10 or higher **Note** • *Cloud* SAP GUI is not relevant in the context of SAP BTP ABAP environment • SAP recommends to use the latest version of SAP GUI for Java to be compatible with the newer versions of Eclipse Temurin bundled with the standard Eclipse packages as well as the *x86_64* and *AArch64* architectures of the macOS operating system. Regarding *AArch64/x86_64* compatibility, see SAP Note 3251738. If you want to remove the bundled JRE from Eclipse and use a custom one, see SAP Note 3035242. JavaFX is no longer required since SAP GUI for Java version 8.10. For more information, see SAP Note 2971147.
Browser	Chromium-based Browser / Firefox / Microsoft Edge / Safari
Eclipse Platform	• 2026-03 (4.39) • 2026-06 (4.40)

3.3 Special Terms for Operating Systems

SAP recommends that you always use a current Support Package for the relevant operating system listed in the ABAP Development Tools. An operating system that is no longer supported by its manufacturer should no longer be used in conjunction with ABAP Development Tools. If an issue occurs only on an unsupported operating system SAP will not analyze nor solve the issue, but instead reply by recommending an operating system upgrade. Additionally SAP does not test ABAP Development Tools on such operating systems anymore.

3.4 Special Terms for Java Runtime Versions

SAP recommends that you always use a current Java runtime version listed in the ABAP Development Tools. A Java runtime version that is no longer supported by the Java runtime version manufacturer should no longer be used in conjunction with ABAP Development Tools. If an issue occurs only on an unsupported Java runtime version SAP will not analyze or solve the issue, but instead reply by recommending a Java runtime version upgrade. Additionally SAP does not test ABAP Development Tools on such Java runtime versions anymore.

3.5 Special Terms for Eclipse Versions

SAP recommends that you always use a current Eclipse version listed in the ABAP Development Tools. An Eclipse version that is no longer supported by the Eclipse foundation should no longer be used in conjunction with ABAP Development Tools. If an issue occurs only on an unsupported Eclipse version SAP will not analyze or solve the issue, but instead reply by recommending an Eclipse version upgrade. Additionally SAP does not test ABAP Development Tools on such Eclipse versions anymore.

3.6 *Home* Special Terms for SAP GUI Versions

SAP recommends that you always use a current SAP GUI version listed in the ABAP Development Tools.

A SAP GUI version that is no longer supported by SAP should no longer be used in conjunction with ABAP Development Tools. If an issue occurs only on an unsupported SAP GUI version SAP will not analyze or solve the issue, but instead reply by recommending a SAP GUI version upgrade. Additionally SAP does not test ABAP Development Tools on such SAP GUI versions anymore.

> ⓘ Note
>
> *Cloud* SAP GUI is not relevant in the context of SAP BTP ABAP environment.

3.7 Special Terms for Microsoft Visual C++ Runtime Versions

A Microsoft Visual C++ runtime version that is no longer supported by Microsoft should no longer be used in conjunction with ABAP Development Tools.

If an issue occurs only on an unsupported Microsoft VC runtime version SAP will not analyze or solve the issue, but instead reply by recommending a Microsoft VC runtime version upgrade.

> ⓘ Note
>
> SAP does not test ABAP Development Tools on such Microsoft VC runtime versions anymore.

> → Recommendation
>
> SAP recommends that you always use a current Microsoft VC runtime version. For more information, see Prerequisites [page 29]

3.8 Special Terms for Browser Versions

SAP recommends that you always use a current browser version listed in the ABAP Development Tools. A browser version that is no longer supported by the browser manufacturer should no longer be used in conjunction with ABAP Development Tools. If an issue occurs only on an unsupported browser version SAP will not analyze or solve the issue, but instead reply by recommending a browser version upgrade. Additionally SAP does not test ABAP Development Tools on such browser versions anymore.

3.9 Language Support

SAP does not explicitly release different language versions of ABAP Development Tools other than English.

3.10 SAP Shipment Channel and License Agreement

The use of ABAP Development Tools (ADT) is subject to the terms and conditions of your license agreement with SAP which is directly related to the SAP shipment channel where ABAP Development Tools has been initially been downloaded and installed from. SAP does not support to update ABAP Development Tools with software from a different SAP shipment channel than the initial installation of ABAP Development Tools has been done.

> ✤ Example
>
> An update of an older ABAP Development Tools installation which has originally been downloaded and installed from the SAP Support Portal with a newer ABAP Development Tools version which is provided on the SAP Developer Center is not recommended and not supported by SAP.

4 Introduction

ABAP Development Tools (ADT) is the integrated ABAP development environment built on top of the Eclipse platform.

Its main objective is to support developers in today's increasingly complex development environments by offering state-of the art ABAP development tools.

These tools include strong and proven ABAP lifecycle management on the open Eclipse platform with powerful UI (user interface) capabilities.

5 Home Preparation

The preparation prior to the installation of front-end components includes all steps that you must perform in order to work smoothly with ABAP Development Tools on the ABAP back-end system. It includes the completion of the subsequent activities for each back-end system you want to work with and the establishing of the Secure Network Communication (SNC).

5.1 Preparing the ABAP Back-End System

In the context of on-premise scenarios, each back-end system you want to work with ADT, the ABAP system administrator needs to configure the corresponding ABAP systems first.

For this, the Configuration Guide for Configuring the ABAP Back-end for ABAP Development Tools is provided where you can find further information.

5.2 Establishing Secure Network Communication

Prerequisites

For security reasons, however, you must ensure that the **Secure Network Communication (SNC)** is implemented for the corresponding system and enabled for the selected system connection.

Context

In ABAP Development Tools, developers always work with ABAP projects to access repository objects from back-end systems. An ABAP project represents a real system connection on the front-end client and, therefore, it requires an authorized user to access the back-end system. With the standard authentication method, the user enters his or her user ID and password at the front-end client to log on to the back-end system.

Procedure

To enable SNC for an ABAP system, proceed as follows:

1. Add the relevant ABAP system to the **SAP Logon Pad** – if not already done.

2. In the SAP Logon Pad, open the **Properties** page for the ABAP system.
3. Enable the **Secure Network Communication** for the selected system – if not already done.

5.2.1 Recommendation

Context

For the sake of convenience, and again for security reasons, use also the single sign-on (SSO) option for system authentication (if it is available in your SAP NetWeaver system landscape). Compared with SNC, SSO meets the security requirements for working with ABAP projects even more. Using SSO, the user does not need to enter a user ID and password, but can access the specific system directly after the system has checked the validity of the logon ticket.

Procedure

To enable SSO for an ABAP system, proceed as follows:

1. Install the SAP NetWeaver **Single Sign-On 1.0 SP03 or higher** (either `Secure LoginClient` or `Enterprise Single Sign-On`) for the corresponding platform (64-Bit).
2. Configure the Secure Network Communication (SNC) between ABAP Development Tools and the ABAP back-end system.

   For more information, see SAP Single Sign-On Community

6 Installation

The subsequent installation procedure comprises all front-end components (SAP and Eclipse IDE packages) that are required to run ABAP development tools for Eclipse (ADT) on your local drive.

6.1 Installing ABAP Development Tools

6.1.1 Prerequisites

Operating System

The following operating system (OS) is installed on your local PC:

- **Microsoft Windows**™ 10 or higher
- **Apple** macOS 14 or higher

Java Runtime Environment (JRE)

One of the following JRE versions is installed:

JRE version 21 (64-Bit, LTS)

> ⓘ Note
>
> - Starting with Eclipse version **2024-06**, Eclipse will require Java version 21.
> - ADT is validated and tested against Java version 21 (Oracle Java and OpenJDK).
> - The latest Eclipse packages are bundled with Eclipse Temurin, an OpenJDK binary distribution provided by the Eclipse Adoptium project. Any other JRE found on the system is not used. If you want to remove the bundled JRE and use a custom one, see SAP note 3035242.

Eclipse

You have already installed a suitable Eclipse IDE package based on one of the following releases:

- 2026-03 (4.39)
- 2026-06 (4.40)

> **Note**
>
> Technically any Eclipse IDE package with feature `org.eclipse.platform` of the corresponding release is installed, as a minimum, on your local drive.

SAP Software and SAP Support Portal Access

- *Home*For Windows™, SAP GUI for Windows 8.00 or higher, is installed on your local drive.
  For Apple macOS, SAP GUI for Java 8.10 or higher, is installed on your local drive.

  > **Note**
  >
  > If this is not the case, install the SAP GUI[1)] first from the SAP Software Download Center on the SAP Support Portal.
  >
  > You will need this SAP GUI[1)] for integration of GUI-based tools in the IDE for ABAP development.
  >
  > *Cloud*SAP GUI is not relevant in the context of SAP BTP ABAP environment.

- You have an `S User` that enables to download the ABAP Development Tools package from the SAP Support Portal.

Required Eclipse Features

To benefit from all ADT features, you need to install the following additional Eclipse features in accordance to the relevant installation:

Feature Name	Feature ID	SAP HANA Studio	Eclipse IDE for Java Developers
EMF Edit Data Binding	`org.eclipse.emf.databinding.edit.feature.group`	-	X
EMF - Eclipse Modeling Framework Core Runtime	`org.eclipse.emf.ecore.feature.group`	-	X
EMF Model Transaction Workbench Integration	`org.eclipse.emf.workspace.feature.group`	-	X
Graphiti (Incubation)	`org.eclipse.graphiti.feature.feature.group`	-	X
GEF Classic Zest	`org.eclipse.zest.feature.group`	-	X

> **Note**
>
> If required Eclipse features are **not** displayed, it might be that they are already installed.
>
> - To display all available features, deselect the *Hide items that are already installed* checkbox.
> - To check what is already installed, choose the *What is already installed?* link beside the checkbox from above.

Internet Browser

On your local drive, one of the following browsers is installed:

- Chromium-based Browser
- Firefox
- Microsoft Edge
- Safari

Microsoft Components for Windows™

Microsoft Visual C++ Redistributable Packages v14 (64 bit) is installed on your local drive.

> Note
>
> - You need this component for communication with the back-end system.
> - You need to install the runtime component separately from the Microsoft installation page.
> - If you start ADT before you have installed the DLLs, an error dialog might be opened stating that the ABAP communication layer is configured incorrectly. In this case, you need to restart Eclipse once with the "`-clean`" option. Afterwards, remove the "`-clean`" option again. For further information, see here The Eclipse runtime options

6.1.2 Context

The ABAP Development Tools package is available for download in the SAP Software Download Center on the SAP Support Portal.

6.1.2.1 Use Cases

The subsequent installation of SAP components requires that you already have a suitable Eclipse IDE package in operation on your computer.

Depending on your use cases, you might need different Eclipse IDE packages:

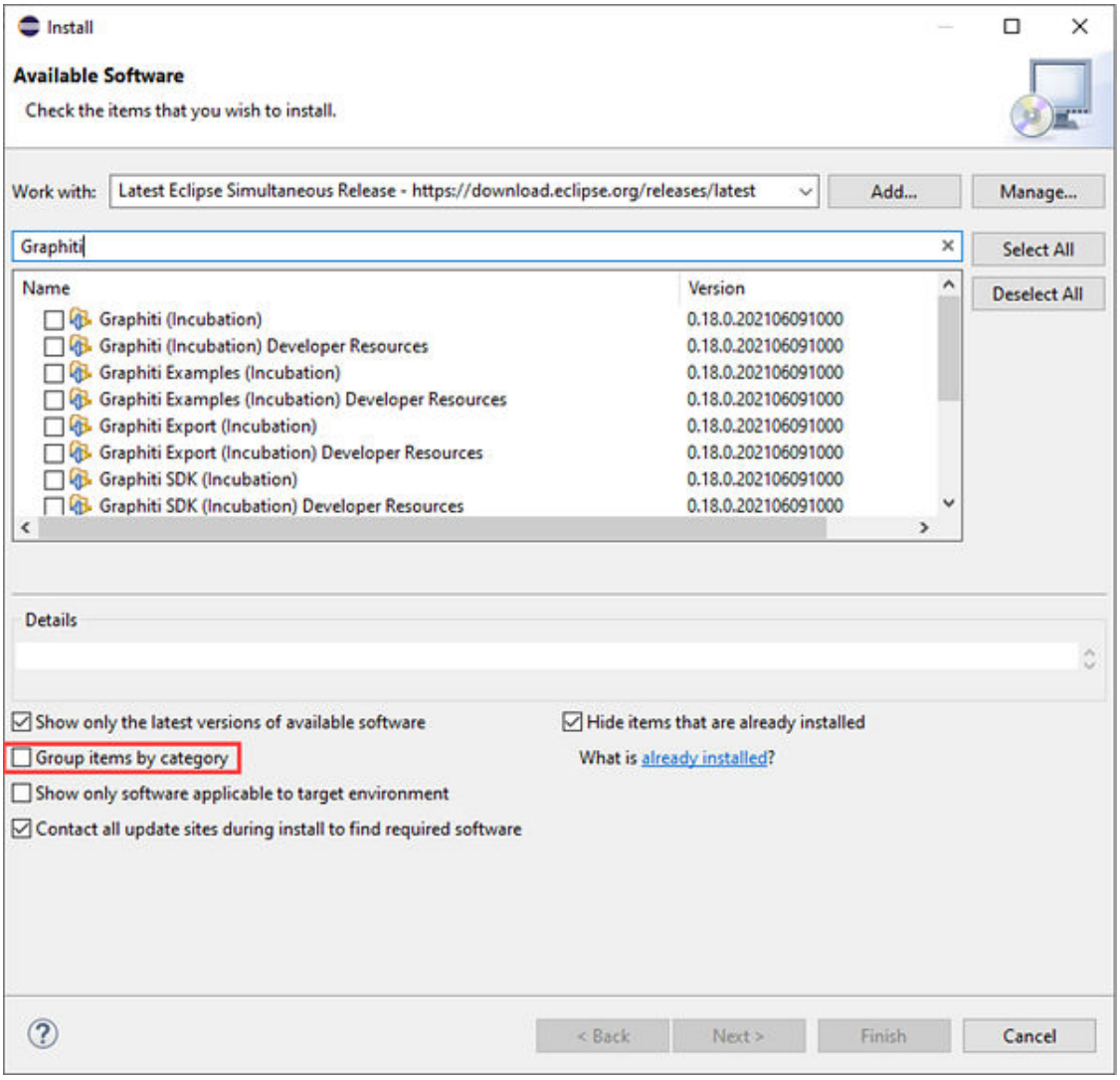
- **ABAP development only**: For this use case, you only need the minimum Eclipse IDE package – for example, the Platform Runtime Binary – from the Eclipse download page.
- **Side-by-side Java and ABAP development**: For this use case, you usually already have an Eclipse IDE running. Here you can add the ABAP Development Tools features.
- **ABAP development on SAP HANA**: For this use case, you have already installed the latest SAP HANA Studio version on your local drive.

> **Note**
>
> This use case is not relevant in the context of SAP BTP ABAP environment.

6.1.3 Installation Steps

Procedure

1. Downloading the ABAP Development Tools package from the SAP Support Portal:
   a. Launch the **SAP Software Download Center** on the SAP Support Portal.
   b. In the *Search Term* input field, enter **ABAP in Eclipse** for the name of the ADT package.
   c. In the *Search Results* view, choose the package with the highest version.
   d. Add the package to the download basket.
   e. Download the archive zip file to the local directory of your choice.
2. Installing additional Eclipse features that are required for running ABAP Development Tools:
   a. Launch the Eclipse IDE or SAP HANA Studio (see Prerequisites [page 29] above) that is installed on your local drive.
   b. Choose the menu *Help* > *Install New Software...* to start the installation wizard.
   c. In the *Work with* field of the wizard, choose the update site which fits to the Eclipse release of the downloaded Eclipse IDE package.
   d. For convenient selection, deselect the *Group items by category* checkbox on the wizard page.



Manual installation of a required feature provided by the latest Eclipse update site

e. Install the relevant Eclipse features – depending whether you are going to install ABAP Development Tools on top of SAP HANA Studio or not.

> ### Note
>
> For more information about the required Eclipse features, see Prerequisites [page 29]
>
> Ensure that the filter box is empty.
>
> If you cannot find a required Eclipse feature, it might be already installed. To check this, deselect the *Hide items that are already installed* checkbox.

f. When you have finished marking your selections, ensure first the filter box is empty and then choose *Next*.

g. On the next wizard page, review the list of features to be installed and choose *Next*.

h. After you have accepted the terms of license agreement, initiate the installation of the selected features with *Finish*.

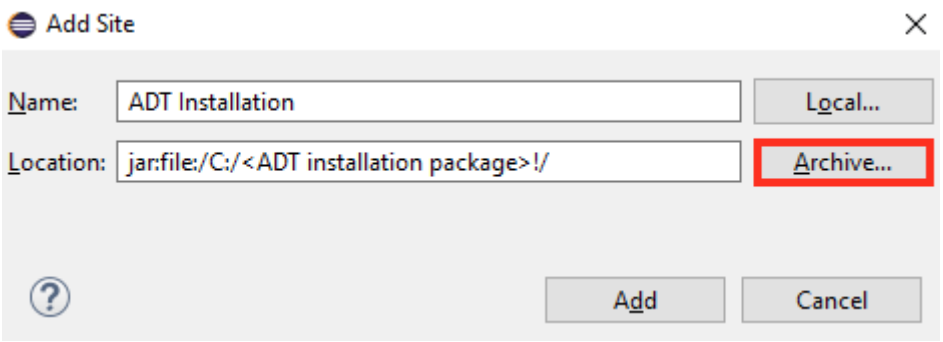
i. To apply the changes, restart the Eclipse IDE using the corresponding button in the information dialog that appears.

3. Installing the ABAP Development Tools package:

   a. Launch the installation wizard again through the menu *Help* > *Install New Software...*

   b. In the *Work with* field of the wizard, now specify the target directory where you downloaded the package using ABAP Development Tools.

> → Tip
>
> To add the new installation directory, click the *Add...* > *Archive...* button to specify the location and enter a name for your local software site. As highlighted in the screenshot below make sure the location path starts with "`jar:file:/`" and ends with "`!/`".

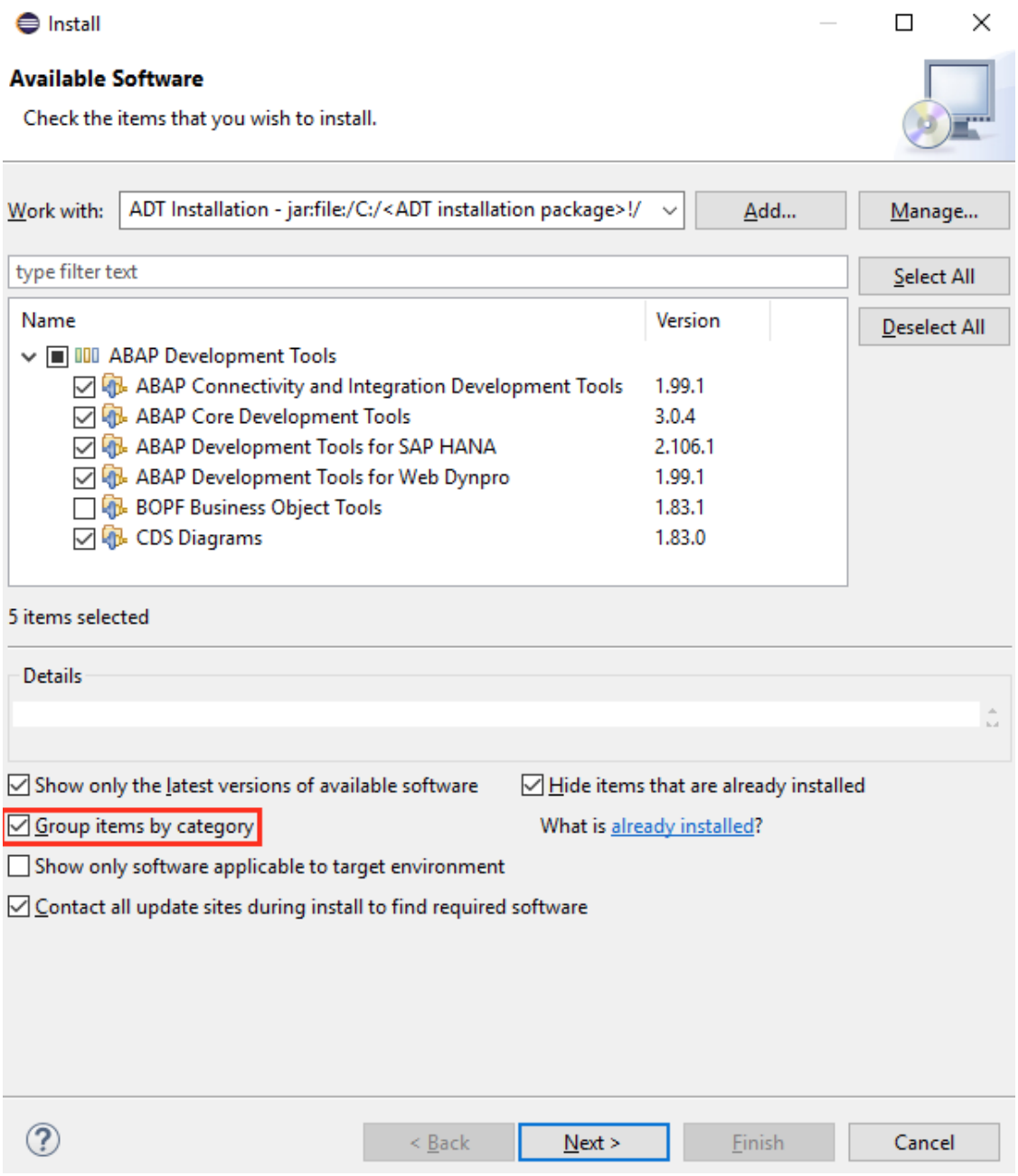


A software site that is located in the local file directory is specified by: jar:file:/<drive:>/<directory_with_zipped_content>!/

   c. For convenient selection, check the *Group items by category* field on the *Wizard* page.

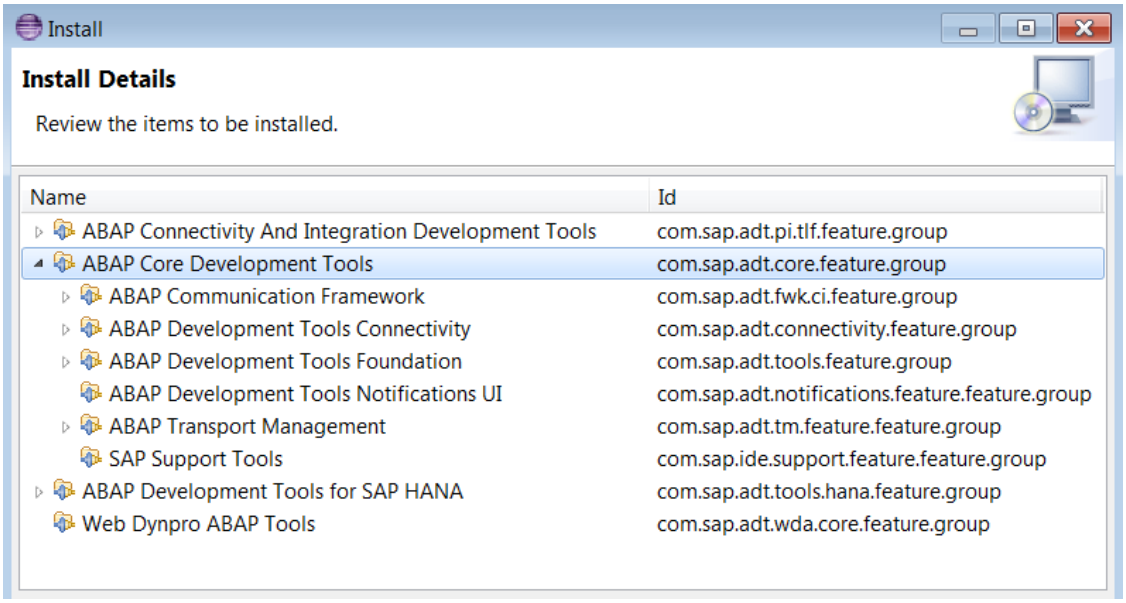
   d. Select the relevant *ABAP Development Tools* item(s) and choose *Next*.

> ⓘ Note
>
> The *ABAP Core Development Tools* are the mandatory installation whereas installation of other tools is optional. Select optional tools based on your requirements.
>
> In the context of SAP BTP ABAP environment, only the *ABAP Core Development Tools* is required.



The target directory where you extracted the zip file in step 1 d) serves as the local software site for installation of ABAP Development Tools.

e. On the next page, review the feature groups to be installed and choose *Next* again.



List of SAP feature groups to be installed

> **Note**
>
> In case one or more of the required Eclipse features are missing, the *Install Remediation Page* is displayed with a warning that the installation cannot be completed. In this case, check and ensure that you have installed all required Eclipse features.

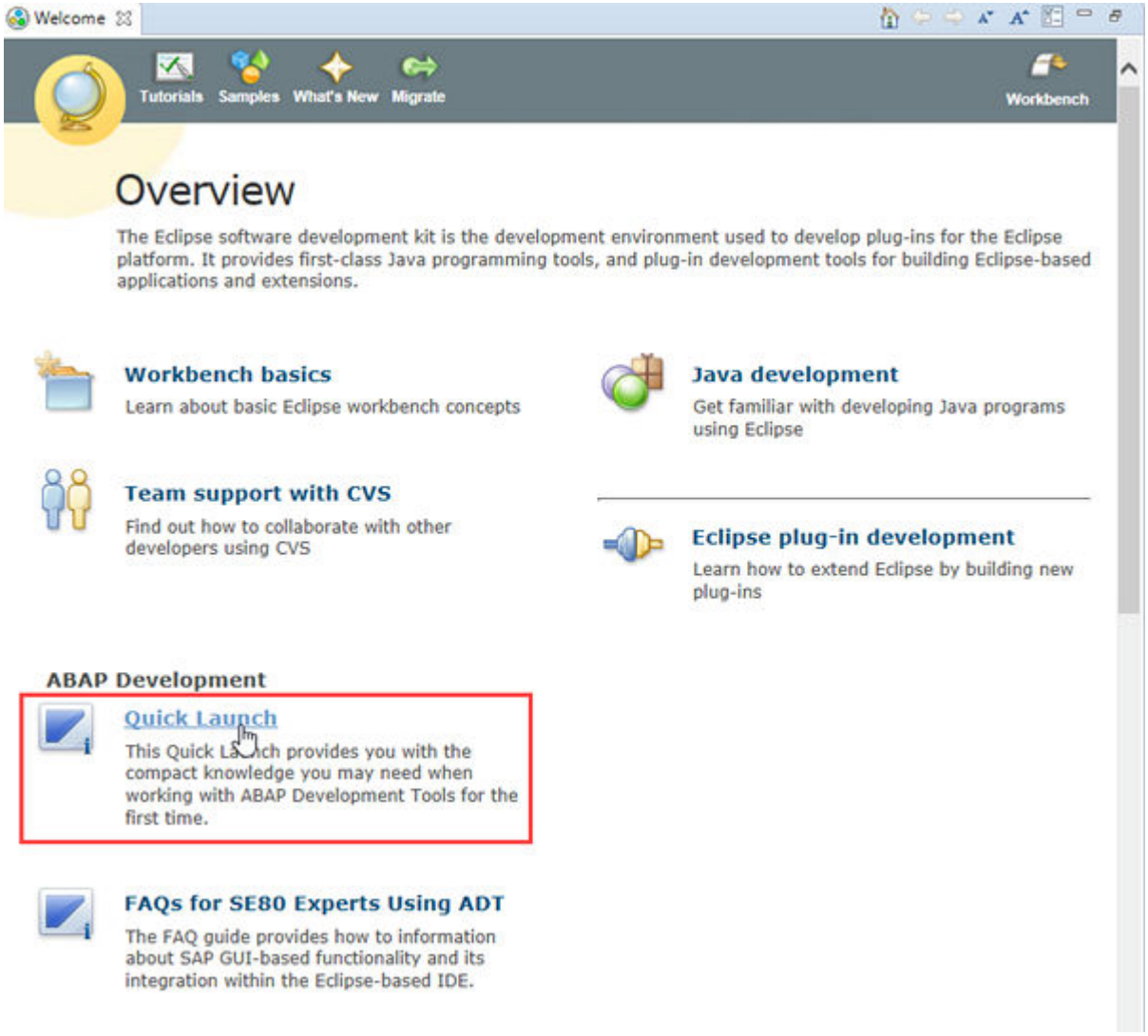
f. After you have accepted the terms of the license agreement, initiate the installation of selected SAP feature groups with *Finish*.

g. To apply the changes of the installation procedure, restart the Eclipse IDE.

6.1.4 Result

The successful installation procedure provides you with a ready-to-use ADT installation inside an Eclipse IDE package. It contributes the *ABAP* perspective to the Eclipse IDE.

The *Welcome* page (*Help* > *Welcome*) provides central access to knowledge material and provides links to related **ABAP Development User Guide** topics.



The Quick Launch on the Overview tab provides you with compact knowledge that you may need when working with ADT for the first time.

6.2 Updating ABAP Development Tools

Context

If you want to update an existing version of ABAP Development Tools, open the SAP Software Download Center on the SAP Support Portal. Here you will always find the most current version as an archive file.

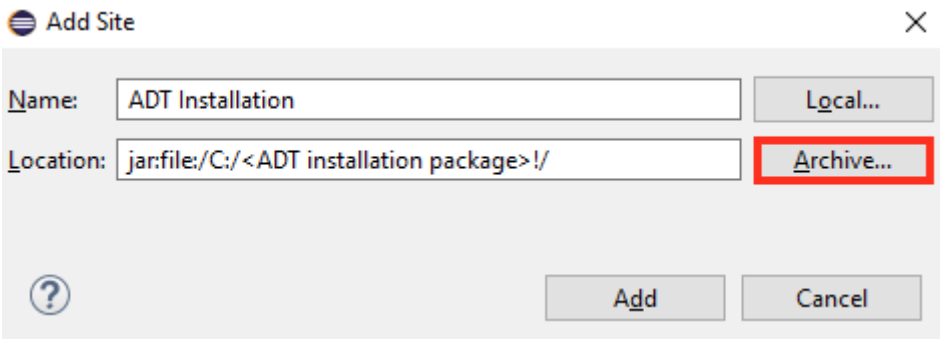
> **Note**
>
> If you want to add new functionality like "`ABAP Enterprise Services and Integration Development Tools`" or "`ABAP Development Tools for Web Dynpro`", you have to install these features by processing the installation steps from chapter Installing ABAP Development Tools [page 29].

Procedure

1. Download the new version of the ABAP Development Tools package from the SAP Support Portal to a location of your choice.

   > → Tip
   >
   > In case of the downloaded archive has the same name as the former archive, you can add the major and minor version to the name of the downloaded archive. So that you do not need to replace the former archive. This enables you to revert the update if it is required.

2. Configure the new archive as an update site.
   a. In the menu bar, select *Windows* > *Preferences*.
   b. In the Preferences window, select the *Install/Update* > *Available Software Sites*
   c. To add the new archive, select the *Add...* > *Archive...* button to specify the location and enter a name for your local software site.



A software site that is located in the local file directory is specified by: jar:file:/<drive:>/<directory_with_zipped_content>!/

3. Trigger the update by selecting the menu entry *Help* > *Check for Updates*

6.3 Recommendations for the System Administrator

The Installation Steps [page 32] above describe how to install all front-end components that are required to run ABAP Development Tools (ADT) on a local machine.

In addition, SAP system administrators or IT experts can build their own Eclipse IDE package, containing ADT. This package can be distributed to the ABAP developers using a standard distribution process.

> ✤ Example
>
> If ABAP developers in your company, have no permission to install ADT on their local machines, this option enables you to build Eclipse IDE packages containing ADT which can be distributed using the distribution process of your company.

To create the Eclipse IDE package for central distribution, you have the following options:

- Manual Building of a Distributable Eclipse IDE Package [page 39]: You want to define the configuration and creation of your Eclipse IDE package step-by-step.
- Automated Building of a Distributable Eclipse IDE Package [page 41]: You want to automate the configuration and creation of your Eclipse IDE package.
- Updating an Already Distributed Eclipse IDE Package [page 47]: You want to update an Eclipse IDE package which has already been distributed within your company.

6.3.1 Manual Building of a Distributable Eclipse IDE Package

You want to build an Eclipse IDE package, that is based on an existing Eclipse IDE package and contains ABAP Development Tools features, step-by-step. This package can then be centrally distributed within your company.

Prerequisites

Download and extract an Eclipse IDE package (for example, Eclipse IDE for Java Developers) or install an SAP HANA Studio. Herein, install the ADT features as described above [page 32].

The Eclipse IDE that has been previously installed needs to be closed.

> ⓘ Note
>
> To avoid unexpected behavior of the Eclipse IDE, do not work in folders that require specific write authorizations on your local machine. Such a folder would be, for example, *Program Files* on Microsoft Windows™.

Context

You want to manually prepare an Eclipse IDE package step-by-step for central distribution within your company.

> → Recommendation
>
> SAP recommends to use manual building before you start using the automated option [page 41].

Procedure

1. Navigate to the directory where you have extracted the Eclipse IDE package and have installed the ADT features.
2. Configure the default values for various preferences as follows:

a. Open the `eclipse.ini` file with a text editor.
b. After the `--launcher.appendVmargs` statement, ...

> **Note**
>
> To ensure that user-specific configuration data is **not** overwritten with the next update, define the configuration area and the location of the instance area (workspace) explicitly.
>
> For more information, see:
> - Eclipse Multi-User Installs
> - The Eclipse runtime options

1. Define the configuration area.

```
-configuration
@user.home\AppData\Local\ADT\configuration
```

2. Define the instance area.

```
-data
@user.home\AppData\Local\ADT\workspace
```

c. Save your changes.

3. [Optional:] Configure a default proxy as follows:

To define the proxy configuration of the Eclipse IDE using a configuration file, proceed as follows:

a. Navigate to the directory where you have extracted the Eclipse IDE package and have installed the ADT features.
b. Open the `eclipse.ini` file with a text editor.
c. At the beginning of the file, insert the following code snippet:

```
-pluginCustomization
plugin_customization.ini
```

d. Save your changes.
e. Create a new file named `plugin_customization.ini` with a text editor and save it in the same folder as the `eclipse.ini` file.
f. Insert the following code snippet:

```
org.eclipse.core.net/proxyData/HTTP/host=<your_proxy_host>
org.eclipse.core.net/proxyData/HTTP/port=<your_proxy_port>
org.eclipse.core.net/proxyData/HTTPS/host=<your_proxy_host>
org.eclipse.core.net/proxyData/HTTPS/port=<your_proxy_port>
org.eclipse.core.net/systemProxiesEnabled=false
```

g. Add the values for the proxy host and proxy port.
h. Save your changes.

> **Note**
>
> If there are no folders upon restart of the Eclipse IDE, preconfigured folders are used or created.

4. Provide the Eclipse IDE package to your IT organization for distribution.

Results

You have manually created a preconfigured Eclipse IDE package, that contains ADT features.

This package can, for example, be compressed, and centrally distributed to ABAP developers through the distribution process of your company.

> **Note**
>
> ABAP developers can change the predefined configuration in the preferences of the Eclipse IDE. These changes are stored in their instance area or configuration area. Consequently, these preferences are **not** overwritten with the next update.

Related Information

Prerequisites [page 29]
Automated Building of a Distributable Eclipse IDE Package [page 41]

6.3.2 Automated Building of a Distributable Eclipse IDE Package

You want to build an Eclipse IDE package, that is based on an existing Eclipse IDE package and contains ABAP Development Tools features, in an automated way, using an Ant script. This package can then be centrally distributed within your company.

Prerequisites

- Download and extract an Eclipse IDE package (for example, Eclipse IDE for Java Developers) from http://www.eclipse.org or install an SAP HANA Studio.

> **Note**
>
> To ensure that the added features will be located inside the Eclipse IDE package, do **not** work in folders that require specific write authorizations on your local machine. Such a folder would be, for example, *Program Files* on Microsoft Windows™.
>
> For more information, see Eclipse multi-user installs .

- Download the ADT package from the SAP Software Download Center on the SAP Support Portal.

Context

You want to centrally distribute an Eclipse IDE package containing ABAP Development Tools in an automated way within your company.

> **Note**
>
> To run an Ant script, you need an Ant Runner, that is included in any Eclipse IDE package.
>
> Execution of the Ant script automatically accepts **all** questions regarding licensing, **without** further notification or information! It also triggers the installation of all the required Eclipse features [page 30].
>
> The steps of the subsequent procedure are only relevant for Windows™.

Procedure

You can define your own Ant script step-by-step **or** use a sample code [page 57] and adopt it.
To develop your own Ant script, proceed as follows:

1. Create a file named `installSAPtools.xml` with a text editor in the location of your choice.

   > **Note**
   >
   > You can reuse this script for upcoming releases.

2. Insert the following code snippet:

   > **Source Code**
   >
   ```
   <project name="<your_project_name>" default="install">
       <target name="install">
           <!-- Insert your code here -->
       </target>
   </project>
   ```

3. Within the `target` element, define the properties to declare the Eclipse IDE release you work with as well as the repositories from which you retrieve the required Eclipse features and ADT features that need to be installed as follows:
   a. Specify the release of the used Eclipse IDE.

Add the `property` element and the following attributes and values:

- `name` with the value `eclipse.release`
- `value` with the name of the Eclipse release, for example `2022-06`.

> **Note**
>
> The value of properties can be reused using the `${<property_name>}` placeholder.

> **Sample Code**
>
> ```
> <property name="eclipse.release" value="2022-06"/>
> ```

b. Configure the repositories that are used for downloading the Eclipse and ADT features.

Add another `property` element and the following attributes and values:

- `name` with the value `repo`
- `value` with the URLs of the Eclipse update site and the file location of the downloaded ADT package

> **Note**
>
> You can add several values. Use commas to separate them.

> **Sample Code**
>
> ```
> <property name="repo" value="jar:file:/C:/<ADT package>!/,http://
> download.eclipse.org/releases/${eclipse.release}/"/>
> ```

c. Configure the installable units of Eclipse (in short "iusRequiredEclipseFeatures") to define which Eclipse features are to be installed from the Eclipse update site by your Ant script.

Add the `property` element and the following attributes and values:

- `name` with the value `iusRequiredEclipseFeatures`
- `value` with the feature ID of the Eclipse feature

For more information, see Eclipse features [page 30].

> **Sample Code**
>
> Sample code snippet that contains the feature IDs required for ADT:
>
> ```
> <property name="iusRequiredEclipseFeatures"
>     value="org.eclipse.emf.databinding.edit.feature.group,
>         org.eclipse.emf.workspace.feature.group,
>         org.eclipse.graphiti.feature.feature.group,
>         org.eclipse.zest.feature.group"/>
> ```

d. Configure the installable units of ADT (in short "iusADT") to define which ADT features are to be installed by your Ant script.

Add the `property` element and the following attributes and values:

- `name` with the value `iusADT`

- `value` with the name of the relevant ADT feature groups

Sample Code

Sample code snippet that contains the plug-in IDs of the ADT features:

```
<property name="iusADT" value="com.sap.adt.tools.bopf.feature.group,
    com.sap.adt.pitools.tlf.feature.group,
    com.sap.adt.core.feature.group,
    com.sap.adt.tools.hana.feature.group,
    com.sap.adt.wda.core.feature.group"/>
```

Note

You can add several values. Use commas to separate them.

The following table provides you an overview of the feature IDs and ADT features to be installed:

Value	Description
`com.sap.adt.tools.bopf.feature.group`	ABAP Business Object Tools
`com.sap.adt.pitools.tlf.feature.group`	ABAP Enterprise Services And Integration Development Tools
`com.sap.adt.core.feature.group`	ABAP Core Development Tools
`com.sap.adt.tools.hana.feature.group`	ABAP Development Tools for SAP HANA
`com.sap.adt.wda.core.feature.group`	ABAP Development Tools for Web Dynpro

4. Within the `target` element, define how to run the installation of the Eclipse and ADT features by adding the following code snippet:

   For more information, see Installing software using the p2 director application .

Source Code

```
<java classname="org.eclipse.equinox.launcher.Main" failonerror="true">
    <classpath>
    <fileset dir="plugins">
    <include name="org.eclipse.equinox.launcher_*.jar"/>
    </fileset>
    </classpath>
    <arg value="-application"/><arg
value="org.eclipse.equinox.p2.director" />
    <arg value="-repository"/><arg value="${repo}" />
    <arg value="-installIU"/><arg value="${iusRequiredEclipseFeatures}" />
    <arg value="-installIU"/><arg value="${iusADT}" />
</java>
```

5. [Optional:] If you want to set certain preferences, such as proxy settings, add the `propertyfile` element within the target element and define access for default values of various preferences.

> ### Note
>
> ABAP developers can change the preferences at any time. These changes are stored in their instance area or configuration area. Preferences that are changed in the `plugin_customization.ini` are considered with a lower priority.

a. To make the script generate the `plugin_customization.ini`, add the following code snippet:

> ### Source Code
>
> Sample code snippet which contains various preferences:

```
<propertyfile file="./plugin_customization.ini">
    <entry key="org.eclipse.core.net/proxyData/HTTP/host"
value="<proxy_host>"/>
    <entry key="org.eclipse.core.net/proxyData/HTTP/port"
value="<proxy_port>"/>
    <entry key="org.eclipse.core.net/proxyData/HTTPS/host"
value="<proxy_host>"/>
    <entry key="org.eclipse.core.net/proxyData/HTTPS/port"
value="<proxy_port>"/>
    <entry key="org.eclipse.core.net/systemProxiesEnabled"
value="false"/>
    <entry key="org.eclipse.equinox.p2.ui.sdk.scheduler/enabled"
value="false"/>
</propertyfile>
```

The following table provides you an overview of the preferences to be enabled or disabled:

Key	Value	Description
`org.eclipse.core.net/systemProxiesEnabled`	`true|false`	Enables/disables the usage of the proxy settings, that are defined by the operating system
`org.eclipse.equinox.p2.ui.sdk.scheduler/enabled`	`true|false`	Enables/disables automatic check for updates on startup of the Eclipse IDE

6. Define the location of the instance area (workspace) and configuration area as follows:

a. Within the target element, add the `replace` element and add the following code snippet:

> ### Note
>
> The `replace` element defines how to search, replace, and add content within the `eclipse.ini` file. If the content to be replaced cannot be found, execution is terminated with an error.
>
> In SAP HANA Studio, the file with the content to be replaced is named `hdbstudio.ini`.

> ### Sample Code
>
> The `replacetoken` element defines the value to be replaced. The `replacevalue` element defines the new value to be added.

```
<replace file="./eclipse.ini" failOnNoReplacements="true">
```

```
<replacetoken>--launcher.appendVmargs</replacetoken>
<replacevalue>--launcher.appendVmargs
-configuration
@user.home\AppData\Local\ADT\configuration
-data
@user.home\AppData\Local\ADT\workspace
-pluginCustomization
plugin_customization.ini
</replacevalue>
</replace>
```

b. Within the `replacevalue` element, define the location of the instance area and configuration area as well as the reference for the defined `plugin_customization.ini` file.

> **Note**
>
> To ensure that user-specific configuration data is not overwritten with the next update, define the configuration path and the location of the installation area (workspace) explicitly.
>
> For more information, see:
>
> - Eclipse Multi-User Installs
> - The Eclipse runtime options

- Define the folder to be used as configuration area.

  Sample Code

  ```
  -configuration
  @user.home\AppData\Local\ADT\configuration
  ```

- Define the folder to be used as an instance area.

  Sample Code

  ```
  -data
  @user.home\AppData\Local\ADT\workspace
  ```

- If you have defined a `plugin_customization.ini` file, define the path to the corresponding `plugin_customization.ini` file.

  Sample Code

  ```
  -pluginCustomization
  plugin_customization.ini
  ```

7. After the `replace` element, add the following code snippet to remove all update sites from the distributable Eclipse IDE package.

Sample Code

```
<delete>
    <fileset dir="./p2/org.eclipse.equinox.p2.engine/profileRegistry"
includes="**/*.repository.prefs" />
</delete>
```

8. Manually copy the `installSAPtools.xml` file containing the Ant script into the same directory where you have downloaded and prepared the Eclipse IDE package.
9. Open a new command line and navigate to the directory of the Eclipse IDE package.
10. Execute the Ant script by triggering it from the command line.

> {·} Source Code
>
> Sample for a command in the command line:
>
> ```
> .\eclipsec.exe -nosplash -application org.eclipse.ant.core.antRunner -f
> installSAPtools.xml -data <C:\path\to\temporary\directory>
> ```

Results

The command starts the Eclipse Ant runner, that uses the script to create a preconfigured Eclipse IDE package, that contains the ADT features.

This package can, for example, be compressed, and centrally distributed to ABAP developers through the distribution process of your company.

> → Recommendation
>
> SAP recommends to create a copy of the newly created Eclipse IDE package for testing the result of the script before distribution. Otherwise, any user-specific or workspace-specific settings might become part of the distributed package.

Related Information

Updating an Already Distributed Eclipse IDE Package [page 47]
Apache Ant™ Manual
Installation Steps [page 32]
Prerequisites [page 29]
Disclaimer [page 6]

6.3.3 Updating an Already Distributed Eclipse IDE Package

Prerequisites

As a system administrator, you have already generated and distributed an Eclipse IDE package containing ADT within your company.

Your IT organization has to remove the former Eclipse IDE package before installing a new one.

> **Note**
>
> Do not delete the instance area (workspace) or configuration area. Keep their folders and names consistent. Otherwise, ABAP developers might loose their preferences or workspace.
>
> The location and name of the Eclipse IDE package itself can vary.

Context

You want to update to a newer ADT version or Eclipse release that has already been distributed.

Procedure

1. Download and extract the newest version of the
   - Eclipse IDE package (for example, Eclipse IDE for Java Developers) or install an SAP HANA Studio.
   - ADT package from the SAP Support portal.
2. Depending on your choice, proceed as follows:
   - For manual building, follow the steps described in chapter Manual Building of a Distributable Eclipse IDE Package [page 39], and continue with step 4.
   - For automated building, adjust the `eclipse.release` attribute and the corresponding repositories in your Ant script.
3. Rerun the Ant script.
4. Delete the former installation and distribute the new Eclipse IDE package.

   > **Note**
   >
   > If the configuration area and instance area (workspace) are set to a path **within** the Eclipse IDE package directory, you will loose user-specific configuration data [page 40].

Results

The updated Eclipse IDE package is available to your ABAP developers.

ABAP Development Tools runs on the latest version.

Related Information

Automated Building of a Distributable Eclipse IDE Package [page 41]

7 Post-Installation

7.1 [Optional] Home Configuring SAP GUI for Java

Context

If you are using SAP GUI for Java, ensure that the qualified paths are defined for the configuration files in the preferences of SAP GUI for Java.

In addition, you can use the following VM parameters in the `eclipse.ini` file to configure the installation path of SAP GUI for Java :

VM Parameter	Default Value	Description
`com.sap.adt.sapgui.javaGui InstallationPath=<path>`	null	Installation path of the SAP GUI for Java in order to specify the location in case if it is not automatically detected

Procedure

In the Eclipse installation folder, open the `eclipse.ini` file.

At the end of the existing command lines, add the support-relevant VM parameters starting with "`-D`".

> **Note**
>
> Add the specific value after the equal mark at the end of the VM parameter.
>
> **Example**
>
> The following example is taken from a macOS installation:
>
> ```
> -Dcom.sap.adt.sapgui.javaGuiInstallationPath=/Applications/SAP Clients/SAPGUI 8.10rev8.4/
> ```

7.2 [Optional] Configuring VM Parameters

Home Support-Relevant VM Parameters

In case of a support issue, you can provide additional information to SAP support.

You will then might be asked define the following VM parameters in the `eclipse.ini` file :

VM Parameter	Default Value	Description
`com.sap.adt.sapgui.winguiTraceLevel=<n>`	`0`	Setting in order to switch the GUI trace (**DPTRACE**) to the given level if Java GUI is not installed in the default folder. The following settings are available in order to activate the GUI trace: • Level 1: Errors: Only the errors are documented in the debug trace file. • Level 2: See level 1 plus warnings are documented in the debug trace file. • Level 3: A diagnose is started that writes all information in the debug trace file when an embedded trace file is started.
`sapguiconfig.trace.level=<value>`	`0`	Trace level that is used while parsing the SAP UI landscape configuration file using the `SAPGUIConfig` library. The following values can be set to define the data to be traced while parsing: • 0: Tracing is off • 1: URLs that are loaded while instantiation • 2: plus details how the SAP UI landscape configuration data is loaded • 3: plus the content of the SAP UI landscape configuration data is dumped • 4: plus all details about internal parsing steps, for example, resolving of the message servers, and so on **Note** The higher the value the more data is traced. For further information, see the Frontend Installation Guide (Microsoft Windows™) on SAP GUI Community

VM Parameter	Default Value	Description
`sapguiconfig.trace.file=<full_path>`	`<workspace>\.metadata\.plugins\com.sap.adt.sapgui.config\sapguiconfig.log` as the default location of the trace file	Full path of the trace file for the `SAPGUIConfig` library
`com.sap.adt.sapgui.ui.win32.pipeConnectionTimeout=<time_ms>`	`30.000`	Timeout in ms in order to affect the SAP GUI startup process (`sapguiserver.exe`)
`com.sap.adt.destinations.model.landscape.parser.official=<value>`	`true`	Setting to define which parser is used for parsing the landscape configuration file for SAP GUI integration. If true, the SAP GUI parser is used. Otherwise, the ADT proprietary parser is used.

> **Note**
>
> You can also add these parameters to your Ant script for automated building [page 45] of an Eclipse IDE package.

General Procedure

1. In the Eclipse installation folder, search and open the `eclipse.ini` file.
2. At the end of the existing command lines, add the VM parameter starting with "`-D`".

   > **Note**
   >
   > Add the specific value after the equal mark at the end of the VM parameter.

3. Save your changes.
4. Restart your IDE.

The IDE is restarted and the VM parameters are effective now.

> **Example**
>
> *Home* In the following example, the timeout for the SAP GUI startup process is defined with 60,000 ms:
>
> ```
> -Dcom.sap.adt.sapgui.winguiTraceLevel=1
> -Dcom.sap.adt.sapgui.ui.win32.pipeConnectionTimeout=60000
> ```

> **Example**
>
> *Cloud* This is how the VM parameter entry in the `eclipse.ini` for enabling a cloud pilot project looks like:
>
> ```
> -Dcom.sap.adt.tools.cloud.authentication.ui.cloud.pilot.project=true
> ```

7.3 [Optional] Configuring Accessibility Features of ADT

Eclipse and ABAP Development Tools (ADT) offer various accessibility features for use with a screen reader, such asbigger fonts, higher contrasts, for example. Some of these features are active by default; some have to be configured.

Procedure

To find more information, open the *SAP - ABAP Development User Guide* > *Concepts* > *Accessibility Features in ADT* > Help Contents in your Eclipse-based IDE.

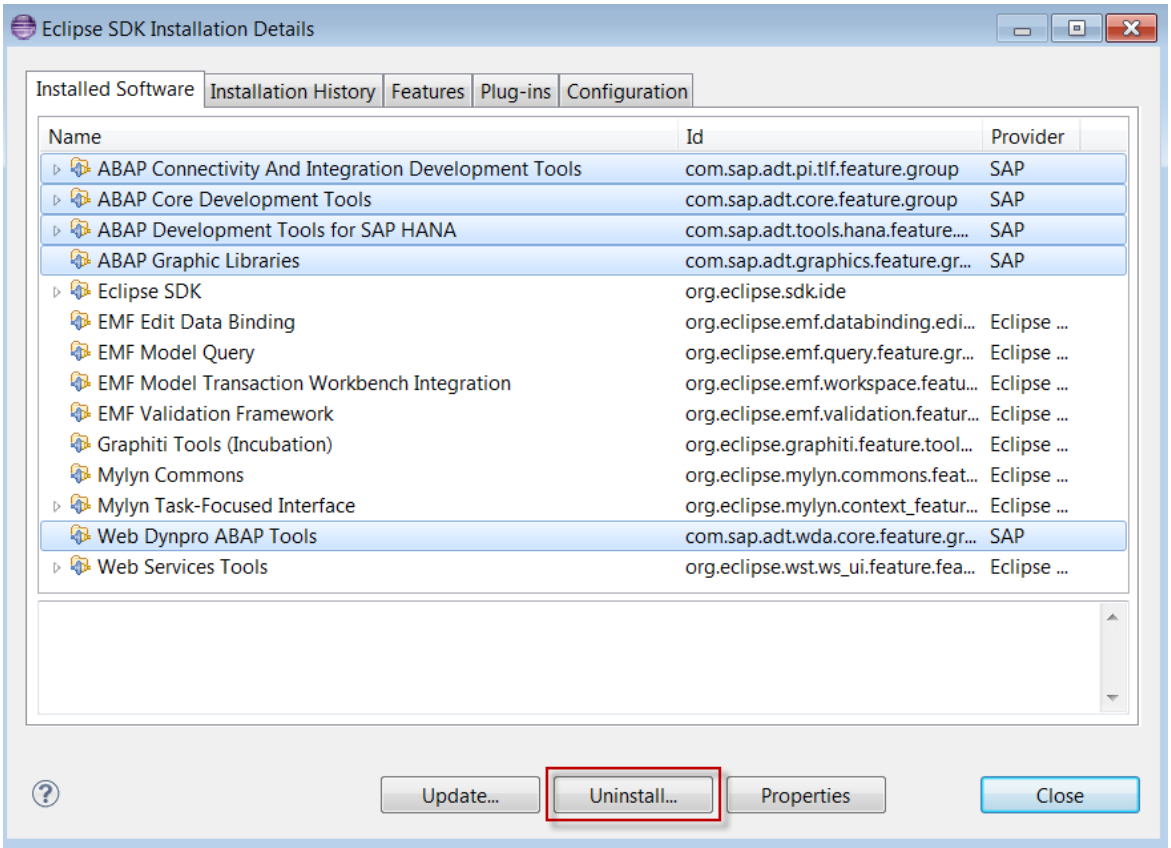
8 De-Installation

Context

To uninstall all front-end components required for running ABAP Development Tools, proceed as follows:

Procedure

1. To uninstall the ABAP Development Tools package, proceed as follows ...
2. Launch your Eclipse IDE – if this has not already been done.
3. Choose the menu *Help* > *About...*
4. Click the *Installation Details* button.
5. Select the corresponding nodes, such as **ABAP Core Development Tools, etc.**
6. Click the *Uninstall...* button.



Uninstalling ABAP Development Tools

The *Uninstall Details* page displays a list of feature groups that will be uninstalled.

7. To start the uninstall process, choose *Finish*.

Related Information

Support Platform Matrix [page 22]

9 Support Case

9.1 Providing Additional Information for Analyzing an Error

The Trace Configuration enables you to provide SAP additional information in case of errors in locations such as Debugger, Coverage, ABAP source code, etc.

Context

You set the Trace Configuration in the *Preferences* depending on the error location, proceed as follows:

Procedure

1. In the Eclipse workbench, choose the menu *Window* > *Preferences*.
2. In the *Preferences* window, select *ABAP Development* > *Trace Configuration*.
3. In the *Level* list box, choose *Info*.
4. In the *Location* area, open the ABAP Development Tools tree and choose the corresponding entry, for example, *Profiler* > *UI*.
5. Confirm with *OK*.

Results

Now, the Eclipse-based IDE traces additional information which you can collect and provide as a ZIP file to the SAP support.

> **Note**
>
> Only enable the Tracing Configuration in case of a specific error. Because, tracing is intense in memory consumption, deselect all locations after creating the support information file. Otherwise your client might work slower or after the next restart of the client, a corresponding dialog is opened.

Related Information

Getting Support Information [page 56]

9.2 Getting Support Information

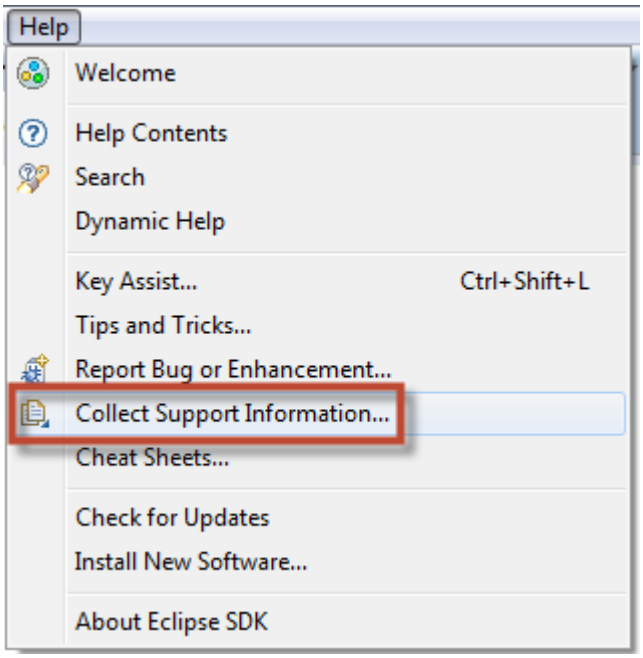
Context

Should errors occur in connection with ABAP Development Tools for which you, as an SAP customer, require more detailed support from SAP, it is of considerable importance that you provide all the required data for such a support case in order to speed up the troubleshooting process. For this purpose, ABAP Development Tools provides a comfortable tool support solution. With a few simple mouse clicks, you can generate a support information file. This file contains all the relevant data for your IDE or GUI version, as well as information on preference settings and technical system environment data. You can then add this support file to your OSS problem message as an attachment.

To collect the support information, proceed as follows:

Procedure

1. In the Eclipse workbench, choose the menu *Help* > *Collect Support Information...*



Launching the Support Information Collection using the menu

2. In the dialog box that appears, specify the location of the support file and choose **Finish**.

10 Additional Information

10.1 Installing Plug-ins from Third Parties

Your installation of Eclipse can be enriched with additional plug-ins from various providers (so called third party plug-ins) alongside ABAP Development Tools (ADT).

Risks

These plug-ins can gain control over your client installation or even your complete front-end PC.

Protection Measures

You should carefully decide on plug-ins that you are going to install. For this, only use plug-ins from trusted sources and which are using signatures.

> → Recommendation
>
> If you do not trust third party plug-ins for Eclipse in general, we recommend managing this via your corporate requirements.

10.2 Sample Code for Building an Ant Script

The following sample code can be used as an example how to develop an Ant script for automated building of a distributable Eclipse IDE package.

> ⓘ Note
>
> To make the sample code executable, you need to adopt the relevant placeholders and the name of used elements.

> {·} Sample Code

```
<project name="<prepareEclipse>" default="install">
    <target name="install">
        <property name="eclipse.release" value="<eclipse_release>"/>
        <property name="repo" value="jar:file:/C:/<ADT package>!/,http://
download.eclipse.org/releases/${eclipse.release}/" />
```

```
        <property name="iusRequiredEclipseFeatures"
            value="org.eclipse.emf.databinding.edit.feature.group,
                org.eclipse.emf.workspace.feature.group,
                org.eclipse.graphiti.feature.feature.group,
                org.eclipse.zest.feature.group"/>
        <property name="iusADT" value="com.sap.adt.tools.bopf.feature.group,
                com.sap.adt.pitools.tlf.feature.group,
                com.sap.adt.core.feature.group,
                com.sap.adt.tools.hana.feature.group,

com.sap.adt.wda.core.feature.group"/>
        <java classname="org.eclipse.equinox.launcher.Main"
failonerror="true">
            <classpath>
             <fileset dir="plugins">
                     <include name="org.eclipse.equinox.launcher_*.jar"/>
             </fileset>
            </classpath>
            <arg value="-application"/><arg
value="org.eclipse.equinox.p2.director" />
            <arg value="-repository"/><arg value="${repo}" />
            <arg value="-installIU"/><arg value="$
{iusRequiredEclipseFeatures}" />
            <arg value="-installIU"/><arg value="${iusADT}" />
        </java>
        <propertyfile file="./plugin_customization.ini">
            <entry key="org.eclipse.core.net/proxyData/HTTP/host"
value="<proxy_host>"/>
            <entry key="org.eclipse.core.net/proxyData/HTTP/port"
value="<proxy_port>"/>
            <entry key="org.eclipse.core.net/proxyData/HTTPS/host"
value="<proxy_host>"/>
            <entry key="org.eclipse.core.net/proxyData/HTTPS/port"
value="<proxy_port>"/>
            <entry key="org.eclipse.core.net/systemProxiesEnabled"
value="false"/>
        </propertyfile>
        <replace file="./eclipse.ini" failOnNoReplacements="true">
            <replacetoken>--launcher.appendVmargs</replacetoken>
            <replacevalue>--launcher.appendVmargs
                        -configuration
                        @user.home\AppData\Local\ADT\configuration
                        -data
                        @user.home\AppData\Local\ADT\workspace
                        -pluginCustomization
                        plugin_customization.ini
            </replacevalue>
        </replace>
        <delete>
            <fileset dir="./p2/org.eclipse.equinox.p2.engine/profileRegistry"
includes="**/*.repository.prefs" />
        </delete>
    </target>
</project>
```

Related Information

Additional Information [page 57]
Automated Building of a Distributable Eclipse IDE Package [page 41]

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