Installing ABAP Development Tools for SAP NetWeaver
Client Version 2.83
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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 SAP NetWeaver (ADT) on a local drive. It also includes information on how to connect ABAP Development Tools to an ABAP back-end system.

Target Audience

- ABAP system administrators and developers who want to install, build, or provide ADT installation packages 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 ADT

Validity of Documentation

This documentation belongs to the ABAP Development Tools for SAP NetWeaver client version 2.83 and refers to the range of functions that have been shipped as part of the standard delivery for:

- 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 NetWeaver AS for ABAP 7.52 SP00 and higher

Prerequisite

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.

For this, you need to configure an ABAP back-end system first, before you can enable ABAP Development Tools for SAP NetWeaver (ADT).

For more information, see the backend configuration guide Configuring the ABAP Back-end for ABAP Development Tools
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ABAP Development Tools for SAP NetWeaver 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 Service Market Place (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.
2. **One Central Reference Installation:** The additional manual steps are only required for one administrator who assembles a complete reference installation. SAP is responsible and will provide support and maintenance for the SAP features in this central reference installation.

3. **Several Decentralized Customer Installations:** The administrator can copy and extend the reference installation with more features and takes over the responsibility for this customer specific installation. The administrator will then provide this customer specific installation to many developers (without S-User or internet access). Thus the majority of developers in the SAP customer and partner community will not have to perform the mentioned manual installation steps of some additional Eclipse features.

4. **Innovation:** SAP is able to support the current Eclipse release with this product at an earlier point in time than in the past.

5. **Transparency:** SAP customers and partners know exactly for which features SAP is responsible and for which SAP will provide support and maintenance. With an automatic installation of the required additional features, this would not be transparent.

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January 2004

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2.3 Documentation in the SAP Service Marketplace

You can find this documentation at the following address:

http://service.sap.com/
3 Support and Maintenance Strategy

ABAP Development Tools for SAP NetWeaver include a server and a client part. For both the Support and Maintenance Strategy is different from SAP NetWeaver 7.3 EHP1. As SAP GUI the ABAP Development Tools for SAP NetWeaver 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 SAP NetWeaver” are a Downward-Compatible Software Component Version. This means that starting with SAP NetWeaver 7.3 EHP1 SP04 the most current client version of the ABAP Development Tools for SAP NetWeaver will always be compatible with all future SAP NetWeaver 7.3 EHP1 Service Packs. But this requires the users to regularly update to the current client version of the ABAP Development Tools for SAP NetWeaver. Because the client has many dependencies this may require additional updates on the PC which will be listed in the following client section.

3.1 General Terms

ABAP Development Tools for SAP NetWeaver depend 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.

3.2 Support Platform Matrix

ABAP Development Tools for SAP NetWeaver is only supported for a subset of the individual platform and Operating System versions for which Eclipse and SAP GUI are supported. The various individual operating system versions, Java runtime versions, Eclipse versions, SAP GUI versions, Microsoft VC runtime versions and Browser versions for which ABAP Development Tools for SAP NetWeaver is supported are listed in the ABAP Development Tools for SAP NetWeaver Support Platform Matrix. Running ABAP Development Tools for SAP NetWeaver on operating system versions, Java runtime versions, Eclipse versions, SAP GUI versions, Microsoft VC runtime versions and Browser versions that are not listed in the ABAP Development Tools for SAP NetWeaver is not supported by SAP.
3.3  ABAP Development Tools for SAP NetWeaver Support Platform Matrix

Table 3:

<table>
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<tr>
<th>Software</th>
<th>Version</th>
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| Operating System       | ● Windows 7  
                        | ● Windows 8  
                        | ● Windows 10  
                        | ● Apple Mac OS X 10.11 or higher  
                        | ● Linux distribution: supported in SAP environments |
| Java Runtime           | ● Windows OS: JRE 1.8 or higher, 32-Bit or 64-Bit  
                        | ● Mac: JRE 1.8 or higher, 64-Bit |
| MS VC Runtime          | 10, 32-Bit or 64-Bit (Windows OS)                                      |
| SAP GUI for Windows    | 7.40 (Windows OS) or higher                                            |
| SAP GUI for Java       | 7.40 (Mac and Linux OS)                                               |
| Browser                | Internet Explorer 7.0 or higher / Firefox 4.0 or higher               |
| Eclipse Platform       | Eclipse 4.6 - 4.7                                                     |

3.4  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 for SAP NetWeaver. An operating system that is no longer supported by its manufacturer should no longer be used in conjunction with ABAP Development Tools for SAP NetWeaver. 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 for SAP NetWeaver on such operating systems anymore.

3.5  Special Terms for Java Runtime Versions

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3.6 Special Terms for Eclipse Versions

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3.7 Special Terms for SAP GUI Versions

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3.9 Special Terms for Browser versions

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3.10 Language Support

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

3.11 SAP Shipment Channel and License Agreement

The use of ABAP Development Tools for SAP NetWeaver 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 for SAP NetWeaver has been initially been downloaded and installed from. SAP does not support to update ABAP Development Tools for SAP NetWeaver with software from a different SAP shipment channel than the initial installation of ABAP Development Tools for SAP NetWeaver has been done. Example: An update of an older ABAP Development Tools for SAP NetWeaver installation which has originally been downloaded and installed from the SAP Service Marketplace with a newer ABAP Development Tools for SAP NetWeaver version which is provided on the SAP Developer Center is not recommended and not supported by SAP.
4 Introduction

ABAP Development Tools for SAP NetWeaver (in short: ABAP Development Tools) is the ABAP IDE (Integrated 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 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 order to work with ABAP Development Tools, the ABAP system administrator needs to configure the corresponding ABAP system. 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.

To enable SNC for an ABAP system ...

Procedure

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.

To enable SSO for an ABAP system...

**Procedure**

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 (either for 32- or 64-Bit).
2. Configure the Secure Network Communication between ABAP Development Tools client and the ABAP back-end system. For more information, see [http://scn.sap.com/community/netweaver-sso](http://scn.sap.com/community/netweaver-sso)
6 Installation

The subsequent installation procedure comprises all front-end components (SAP and Eclipse installation packages) that are required to run the ABAP IDE 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:

- **Windows** 7, 8, or 10
- **Apple Mac** OS X 10.11 or higher
- **Linux** distribution

**Note**

For more information about supported Linux distributions in SAP environments, choose here: [http://scn.sap.com/docs/DOC-8760](http://scn.sap.com/docs/DOC-8760)

Java Runtime Environment (JRE)

Java Runtime Environment (JRE) 1.8 is installed on your local drive.

In accordance to the Eclipse version where you want to install ABAP Development Tools, use the following JRE version:

- **32-Bit** for the 32-bit Eclipse version
- **64-Bit** for the 64-bit Eclipse version

If this is not the case, install, for example, the latest version of the SAP Java Virtual Machine from the [SAP Software Download Center](http://sp.sap.com/downloadcenter) on the [SAP Service Marketplace](http://servicemarketplace.sap.com/marketplace).

**Note**

The Java Development Kit (JDK) is also convenient because it includes JRE.
Eclipse

You have already installed a suitable Eclipse installation package Eclipse 4.6 Release (Neon) or 4.7 Release (Oxygen).

**Note**

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

SAP Software and SMP Access

- For Windows OS, SAP GUI for Windows 7.40 or higher, is installed on your local drive. For Apple Mac or Linux OS, SAP GUI for Java 7.40, is installed on your local drive.

  **Note**
  
  If this is not the case, install the SAP GUI first from the SAP Software Download Center on the SAP Service Marketplace.

  You will need this SAP GUI for integration of GUI-based tools in the new ABAP IDE.

- You have an S User that enables to download the ABAP Development Tools package from the SAP Service Marketplace (SMP).

Internet Browser

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

- **Internet Explorer** 7.0 or higher
- **Firefox** 4.0 or higher

Microsoft Components

**Microsoft Runtime DLLs VS2010** (for Windows OS) is installed on your local drive. You need this component for communication with the backend system.

**Note**

- If you are using SAP GUI for Windows, the 32 bit version of this runtime component will already be installed on your local machine anyway.
- If you are using a 64 bit version of Eclipse, you need to install this 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 are installed from the SAP Software Download Center on the SAP Service Marketplace. From here, you download the archive file with the corresponding IDE components onto your local drive.

6.1.2.1 Use Cases

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

Which Eclipse installation is suitable depends, among other things, on use cases for which you implement the Eclipse platform or Eclipse IDE. Some examples of such use cases could be as follows:

- **ABAP development only**: For this use case, you only need the minimum Eclipse installation 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 edition running as your development environment. You can add ABAP Development Tools to your existing Eclipse installation.
- **ABAP development on SAP HANA**: For this use case, you already have SAP HANA Studio 2.1.14 (revision 102.01 or higher) installed on your local drive.

6.1.3 Installation Steps

Procedure

1. Downloading the ABAP Development Tools package from the (SAP Service Marketplace):
   a. Launch the **SAP Software Download Center** on the SAP Service Marketplace.
   b. In the **Search Term** input field, enter **ABAP in Eclipse 2.83** for the name of the installation package.
   c. In the **Search Results** view, choose the **SAP ABAP in Eclipse 2.83** package.
   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 platform or Studio (see prerequisites 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, specify the update site from which you downloaded the Eclipse installation package.
   d. For convenient selection, uncheck the **Group items by category** field on the wizard page.
Select the following Eclipse features from the table below – depending whether you are going to install ABAP Development Tools on top of Studio or not.

**Note**

1) This Eclipse feature is already part of the “Eclipse IDE for Java Developers” installation package.

2) This Eclipse feature is required only if you intend to install the “ABAP Connectivity and Integration Development Tools”.

If the installation is for a Studio:

**Table 4: List of additional features required for running ABAP Development Tools for SAP NetWeaver**

<table>
<thead>
<tr>
<th>Feature Name</th>
<th>Feature ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMF Model Query</td>
<td>org.eclipse.emf.query</td>
</tr>
<tr>
<td>Graphiti (Incubation) 2)</td>
<td>org.eclipse.graphiti.feature</td>
</tr>
</tbody>
</table>
Table 5: List of additional features required for running ABAP Development Tools for SAP NetWeaver

<table>
<thead>
<tr>
<th>Feature Name</th>
<th>Feature ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMF Edit Data Binding</td>
<td>org.eclipse.emf.databinding.edit</td>
</tr>
<tr>
<td>EMF Model Query</td>
<td>org.eclipse.emf.query</td>
</tr>
<tr>
<td>EMF Model Transaction Workbench Integration</td>
<td>org.eclipse.emf.workspace</td>
</tr>
<tr>
<td>EMF Validation Framework</td>
<td>org.eclipse.emf.validation</td>
</tr>
<tr>
<td>Graphiti (Incubation)</td>
<td>org.eclipse.graphiti.feature</td>
</tr>
<tr>
<td>Mylyn Commons</td>
<td>org.eclipse.mylyn.commons</td>
</tr>
<tr>
<td>Mylyn Task-Focused Interface</td>
<td>org.eclipse.mylyn.context_feature</td>
</tr>
<tr>
<td>Web Services Tools</td>
<td>org.eclipse.wst.ws_ui.feature</td>
</tr>
<tr>
<td>Graphical Editing Framework Zest Visualization Toolkit</td>
<td>org.eclipse.zest</td>
</tr>
</tbody>
</table>

**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 identical link below the checkbox above.

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

- 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 workbench 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:”. 
Figure 2: 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 all ABAP Development Tools for SAP NetWeaver items and choose Next.

**Note**

The ABAP Core Development tool is a mandatory installation whereas installation of other tools is optional. Select optional tools based on your requirements.
On the next page, review the feature groups to be installed and choose Next again.
f. While content is being fetched for installation you will receive a warning that unsigned software content is installed, click **OK** to continue with the wizard.

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

h. In the **Certificates** dialog box, confirm the certificates from Eclipse.org and SAP with **OK**.

![Figure 4: List of SAP feature groups to be installed](image)

**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.

![Figure 5: A certification dialog will interrupt the installation process](image)
i. To apply the changes of the installation procedure, restart the Eclipse IDE.

6.1.4 Result

The successful installation procedure provides you (as a system administrator at SAP customer side) with a ready-to-use ABAP IDE. It contributes the ABAP perspective to the Eclipse workbench.

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

![Welcome page](image)

*Figure 6: The Quick Launch on the Overview tab provides you with compact knowledge that you may need when working with the new ABAP IDE 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 Service Marketplace. Here you will always find the most current version as an archive file with the corresponding IDE components.

Note

If you want to add new functionality like “ABAP Connectivity 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 21].

Procedure

1. Download the new version of the ABAP Development Tools package from the SAP Service Marketplace to your local installation directory.

   Note

   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.

Figure 7: 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 above description of the installation and update procedure is geared particularly toward you as system administrator on the SAP customer side and provides you with a **central reference installation**. So that the installation of the ABAP Development Tools is made available within your organization to the ABAP development team, the following options are recommended:

- You make the downloaded zip file for the ABAP Development Tools package available on a file share. Each developer performs steps 2 and 3 of the above installation description (Installing ABAP Development Tools [page 21]) on his or her local drive.

- You build a separate update site that contains both the required Eclipse as well as the SAP feature groups. These updates are available to all ABAP developers concerned – either through a Web server or a file share – for internal use. This option has the advantage that you can use the standard Eclipse update mechanism in full within your organization. Use the “Eclipse P2 Publisher” tool provided by Eclipse to build such a combined update site.
7 Post-Installation

7.1 Configuring Eclipse Runtime Options

Context

Note

The following configuration step is NOT required if you have installed the ABAP Development Tools on top of an SAP HANA Studio installation. They can be set in addition.

In order to avoid out-of-memory errors while running ABAP Development Tools, you have to ensure that sufficient memory is available on the heap. For this purpose, you can request the Java VM to increase the total amount of memory. This is done by adding VM arguments to configure the JAVA VM that is used to run Eclipse.

Procedure

1. In the Eclipse installation folder, open the `eclipse.ini` file.
2. Add the following Java VM start-up options:
   ○ to set default encoding of Java VM
   ○ to set a heap dump when you get an out-of-memory error
   ○ to set the minimum Java version that is required to launch Eclipse

   `-Xms512m
   -Xmx1g
   -Dfile.encoding=UTF-8
   -XX:+HeapDumpOnOutOfMemoryError`

7.2 [Optional-] 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:

Table 6:

<table>
<thead>
<tr>
<th>VM Parameter</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>com.sap.adt.sapgui.javaGuiInstallationPath=&lt;path&gt;</td>
<td>null</td>
<td>Installation path of the SAP GUI for Java in order to specify the location in case if it is not automatically detected</td>
</tr>
</tbody>
</table>

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 Mac OS installation:

```
-Dcom.sap.adt.sapgui.javaGuiInstallationPath=/Applications/SAP Clients/SAPGUI 7.40/
```

7.3 [Optional-] Configuring Support-Relevant VM Parameters

Context

In case of a support issue, you can provide additional information to SAP support.
For this, you have to define the following VM parameters in the `eclipse.ini` file:

### Table 7:

<table>
<thead>
<tr>
<th>VM Parameter</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
</table>
| `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 |
<p>| <code>sapguiconfig.trace.file=&lt;full_path&gt;</code>             | &lt;workspace&gt;   | Full path of the trace file for the SAPGUIConfig library. Full path: <code>&lt;workspace&gt;\.metadata\.plugins\com.sap.adt.sapgui.config\sapguiconfig.log</code> as the default location of the trace file |
| <code>com.sap.adt.sapgui.ui.win32.pipeConnectionTimeout=&lt;time_m_s&gt;</code> | 30,000        | Timeout in ms in order to affect the SAP GUI startup process (sapguiserver.exe)                                                            |</p>
<table>
<thead>
<tr>
<th>VM Parameter</th>
<th>Default Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>com.sap.adt.destinations.model.landscape.parser.official= &lt;value&gt;</td>
<td>true</td>
<td>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.</td>
</tr>
</tbody>
</table>

**Procedure**

1. 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.

2. Save your changes.
3. Restart your IDE.

**Results**

The IDE is restarted and now traces the relevant data.

**Example**

In the following example, the timeout for the SAP GUI startup process is defined with 60000 ms:

```
-Dcom.sap.adt.sapgui.winguiTraceLevel=1
-Dcom.sap.adt.sapgui.ui.win32.pipeConnectionTimeout=60000
```
7.4 [Optional] Configuring Accessibility Features of ADT

Eclipse and ABAP Development Tools (ADT) offer various accessibility features for use with a screen reader, such as bigger 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
   a. Launch your Eclipse workbench – if this has not already been done.
   b. Choose the menu \textit{Help} \rightarrow \textit{About…}.
   c. Click the \textit{Installation Details} button.
   d. Select the corresponding nodes, such as \textbf{ABAP Core Development Tools} and \textbf{ABAP Development Tools for SAP HANA}, etc.
   e. Click the \textit{Uninstall…} button.

The Uninstall Details page displays a list of feature groups that will be uninstalled.
f. To start the uninstall process, choose **Finish**.

2. [Optional] If you have installed the MS Runtime DLLs VS2010 manually, you need to remove them.

![Figure 9: Removing MS runtime DLLs](image)

Figure 9: Removing MS runtime DLLs
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 40]
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...

   ![Figure 10: Launching the Support Information Collection using the menu](image)

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 ABAP Development Tools can be enriched with additional plug-ins from various providers (3rd parties).

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.
Important Disclaimers and Legal Information

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Any software coding and/or code lines / strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended to better explain and visualize the syntax and phrasing rules of certain coding. SAP does not warrant the correctness and completeness of the Code given herein, and SAP shall not be liable for errors or damages caused by the usage of the Code, unless damages were caused by SAP intentionally or by SAP’s gross negligence.

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