

Duet for Microsoft Office and SAP; SAP Master Guide

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Chapter 1: Getting Started

Duet™ for Microsoft® Office and SAP® consists of components jointly developed and delivered by SAP and Microsoft. For this reason, this guide provides information about components and guides from both SAP and Microsoft, which you require.

In this guide, you will find the following sections:

- Getting Started contains valuable information about using this document and related information (documentation and SAP notes) crucial to the installation of Duet.
- Overview of Duet contains the following information:
 - A short introduction to Duet.
 - The software component matrix that provides the information about the business applications.
 - Minimal system landscape.
 - Examples of how the different components interact, including technical infrastructure examples.
- Installation sequence provides the overall information for deploying Duet, and references to the related guides.
- Software Components Overview contains a short description of every software component that is part of Duet.

Target Audience

Duet for Microsoft Office and SAP is a product that uses technologies from both Microsoft and SAP. For this reason, the target audience of the related documentation mentioned in this guide is solution consultants, and project teams for implementations, who have some working knowledge of:

- Microsoft Windows® operating system, specifically the version on which you deploy Duet, Microsoft Windows Server™ 2003
- Directory services such as, Microsoft Active Directory® directory service.
- Microsoft Exchange Server 2003.
- Databases such as, Microsoft SQL Express™ 2005.
- Microsoft Office 2003 Professional Enterprise Edition.
- Microsoft Internet Information Services (IIS) 6.0, and the related protocols (TCP/IP)
- Authentication mechanisms such as Kerberos, X.509 client certificates, secure sockets layer (SSL), SAP logon tickets.

- SAP NetWeaver[®], specifically the SAP Web Application Server Java (SAP Web AS Java).
- User Management Engine in both the SAP Web Application Server Java and the SAP Web Application Server ABAP.
- SAP[®] R/3[®] system and mySAP[™] ERP 2004 System

Note: Where you do not have the necessary expertise to perform a specific configuration, we recommend that you seek the assistance of the administrator of the specific system in your organization.

Duet Documentation Types

The following is a list of the types of documentation available for Duet from SAP and Microsoft.

Overview of Duet Documentation Types from SAP

Below is a list and the description of the types of documentation for Duet provided by SAP.

Document Type	Explanation
SAPterm	<p>SAPterm is SAP's terminology database. It contains SAP-specific vocabulary in over 30 languages, as well as Duet definitions and glossary entries in English.</p> <p>Target group: Relevant for all target groups</p> <p>Current version: Located in the SAP Service Marketplace at service.sap.com/sapterm</p>
SAP Library	<p>The SAP Library is a collection of function and process-oriented documentation for SAP components. You will find the Duet application help on the SAP Library.</p> <p>In addition, the Duet application help is installed and available in Duet business applications running in Microsoft Office Outlook[®] 2003.</p> <p>Target group: End users</p> <p>Current version: Located in the SAP Help Portal at help.sap.com → SAP xApps → Duet → Duet 1.0</p>

Implementation Guide (IMG)	<p>The Implementation Guide is a tool for configuring the SAP® system to meet customer requirements for running Duet business applications. Its structure and documentation are component-oriented.</p> <p>Target group: Solution consultants, and project teams for implementations, or upgrades.</p> <p>Current version: In the SAP menu of the SAP system under <i>Tools</i> → <i>Customizing</i> → <i>IMG</i></p>
Duet for Microsoft and SAP; SAP Installation Guide	<p>Documents the installation and configuration of the Duet components from SAP in three different environments: Duet server, Duet Add-On, and Duet business applications.</p> <p>Target group: Solution consultants, and project teams for implementations.</p> <p>Current version: Located in SAP Service Marketplace at http://service.sap.com/instguides → <i>SAP xApps</i> → <i>Duet</i> → <i>Duet 1.0</i></p> <p>In addition, the installation package contains documentation for Duet components from SAP in the folder: ... \SAP\DOCS.</p>
Duet for Microsoft and SAP; SAP Administration Guide	<p>Documents maintenance and administration of the environments in which you run Duet components from SAP.</p> <p>Target group: Solution consultants, project teams for implementations, system administrators and the administrators of the SAP system.</p> <p>Current version: Located in SAP Service Marketplace at http://service.sap.com/instguides → <i>SAP xApps</i> → <i>Duet</i> → <i>Duet 1.0</i></p> <p>In addition, the installation package contains documentation for Duet components from SAP in the folder: ... \SAP\DOCS.</p>

Duet for Microsoft and SAP; SAP Operations Guide	<p>The Operations Guide is the starting point for configuration and maintenance tasks in the Duet landscape in which Duet components from SAP run.</p> <p>The guide refers users to the tools and documentation that are needed to carry out various tasks, such as monitoring, backup/restore, master data maintenance, transports, and tests.</p> <p>It also refers users to more detailed documentation in the SAP Library.</p> <p>Target group: Solution consultants, project teams for implementations, system administrators and the administrators of the SAP system.</p> <p>Current version: Located in SAP Service Marketplace at http://service.sap.com/instguides → SAP xApps → Duet → Duet 1.0.</p> <p>In addition, the installation package contains documentation for Duet components from SAP in the folder: ... \SAP\DOCS.</p>
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Overview of Duet Documentation Types from Microsoft

Below is a list and the description of the types of documentation for Duet provided by Microsoft.

Documentation Type	Explanation
Getting Started with Duet for Microsoft Office and SAP	<p>The Getting Started with Duet for Microsoft Office and SAP document provides a point of entry for the Duet documentation and provides a roadmap for using the documentation to install and deploy Duet.</p> <p>Target group: All target groups.</p> <p>Current version: Located at https://connect.microsoft.com/default.aspx.</p> <p>In addition, the installation package contains documentation for Duet components from Microsoft in the folder: ... \Microsoft\Documentation.</p>

<p>Duet for Microsoft Office and SAP; Microsoft Installation and Deployment Guide</p>	<p>The Duet for Microsoft Office and SAP; Microsoft Installation and Deployment Guide, documents installation and deployment of Duet Metadata Service, the Request Handler service, and the Duet client components.</p> <p>In addition, it provides administration and security guidelines.</p> <p>Target group: Solution consultants, project teams for implementations, and system administrators.</p> <p>Current version: Located at https://connect.microsoft.com/default.aspx.</p> <p>In addition, the installation package contains documentation for Duet components from Microsoft in the folder: ...\<i>Microsoft</i>\Documentation.</p>
<p>Duet for Microsoft Office and SAP; Microsoft Planning Guide</p>	<p>The Duet for Microsoft Office and SAP; Microsoft Planning Guide, documents planning, preparation, and management of the systems running Duet components from Microsoft.</p> <p>Target group: Solution consultants, project teams for implementations, system administrators.</p> <p>Current version: Located at https://connect.microsoft.com/default.aspx.</p> <p>In addition, the installation package contains documentation for Duet components from Microsoft in the folder: ...\<i>Microsoft</i>\Documentation.</p>
<p>Duet for Microsoft Office and SAP; Microsoft Administration Guide (Microsoft)</p>	<p>The Duet for Microsoft Office and SAP; Microsoft Administration Guide, documents maintenance and administration of the environments in which you run Duet components from Microsoft.</p> <p>Target group: Solution consultants, project teams for implementations, system administrators.</p> <p>Current version: Located at https://connect.microsoft.com/default.aspx.</p> <p>In addition, the installation package contains documentation for Duet components from Microsoft in the folder: ...\<i>Microsoft</i>\Documentation.</p>

Duet for Microsoft Office and SAP; Microsoft Readme	<p>The Duet for Microsoft Office and SAP; Microsoft Readme, provides important information not contained in the documentation, as well as descriptions of known issues.</p> <p>Target group: Solution consultants, project teams for implementations, system administrators.</p> <p>Current version: Located at https://connect.microsoft.com/default.aspx.</p> <p>In addition, the installation package contains documentation for Duet components from Microsoft in the folder: ...\<i>Microsoft\Documentation</i>.</p>
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Cross-Phase Documentation

- Duet for Microsoft and SAP; SAP Master Guide and Getting Started with Duet for Microsoft Office and SAP Guide

As a starting point of entry to the Duet documentation, use both *Duet for Microsoft and SAP; SAP Master Guide*, and *Getting Started with Duet for Microsoft Office and SAP Guide*.

Both guides provide a roadmap for using the documentation to install, deploy, configure, and manage the required Duet components and applications.

In addition, the two guides offer references to other documents, such as installation, and administration guides.

- Duet for Microsoft and SAP; SAP Installation Guide and Duet for Microsoft Office and SAP; Microsoft Installation and Deployment Guide

The *Duet for Microsoft and SAP; SAP Installation* and *Duet for Microsoft Office and SAP; Microsoft Installation and Deployment* guides describe the implementation of Duet components from SAP and Microsoft, respectively.

We recommend that you use the appropriate guide to install and deploy Duet components, accordingly.

- Duet for Microsoft and SAP; SAP Administration Guide and Duet for Microsoft Office and SAP; Microsoft Administration Guide

Both *Duet for Microsoft and SAP; SAP Administration Guide* and *Duet for Microsoft Office and SAP; Microsoft Administration* guides supplement each other, as they both describe the various administration tasks and tools you require for maintaining and managing Duet components from SAP and Microsoft, respectively.

- Duet for Microsoft and SAP; SAP Operations Guide and Duet for Microsoft Office and SAP; Microsoft Planning Guide

The Duet for Microsoft and SAP; SAP Operations Guide and Duet for Microsoft Office and SAP; Microsoft Planning Guide supplement each other. You will find explanation for planning the Duet landscape, and a description of the various tasks and tools you require for maintaining and managing Duet components from SAP and Microsoft, respectively.

- Implementation Guide (IMG)

The Implementation Guide (IMG) is a tool in the SAP system that explains all the steps for customizing settings for Duet business applications, and describes the system configuration activities.

Important SAP Notes

You can find the SAP notes in SAP Service Marketplace at: service.sap.com/notes

Read and implement the corrections in the following SAP notes:

SAP Note Number	Title	Comment
975602	Duet 1.0 SP01 Central Note	Contains relevant information available after the release of Duet 1.0 Support Package 1.
762419, option 2	Multi-Domain Logon Using Microsoft Active Directory	In the SAP Web AS Java system, configure the data source to support multi-domain logon with Microsoft Active Directory Service.
946455	Check Tool for ABAP components Host	Describes the tool for verifying various aspects of Duet installation in the Duet landscape.
948499	Quality enhancements of Duet 1.0 after NetWeaver	Addresses what to do, when SAP BW reports are not delivered to Microsoft Office Outlook Inbox. Also, it specifies how to create log outputs when a report is not delivered, or if the SAP Web AS is down and the output is not received, not recorded, and lost.
976480	Duet 1.0: Patch Installation Packages	A patch installation package, provided in a zipped file is available for Duet. The patch should be deployed on top of a full installation version, Duet 1.0 SP00, to upgrade it to current support package Duet 1.0 SP01.

Chapter 2: Overview

Duet allows your employees to easily access SAP[®] business processes and enterprise information from Microsoft[®] Office environments.

From Microsoft[®] Office Outlook[®] 2003, Duet enables Microsoft Office users to access SAP[®] data and processes using the following business applications:

- Time Management

Lets Microsoft Office users use the Outlook calendar to report time entries in SAP[®] software, and to get a detailed overview of their current time balance.

For example, tracking billable time that has been assigned to various projects for the week, which is then processed within the SAP enterprises systems.

- Budget Monitoring

Allows users to receive alerts and reports from the SAP system in their Outlook Inbox.

End users control the information they need and receive. They can schedule a report, modify the template of the report, or change the frequency of how often a specific report is delivered (daily, weekly, and monthly).

If more information about a report is required, the end user can take actions and drill-down into the details of an online report in the specific SAP system.

- Leave Management

Allows end users to obtain calendar items about their current vacation day balance, the number of days they have taken, as well as the amount of time they have left.

Users can create a new all day appointment in Microsoft Office Outlook for their time off, and select the type of leave they want to request.

In addition, they can trigger follow-up actions like setting the out-of-office assistant, and leverage the stated corporate processes and policies concerning various types of leave.

The leave request is routed to the correct person for approval, and the response returns in the users' Inbox.

- Team Management

Managers and other employees with the appropriate permissions can access information about colleagues, open positions, and organizational structures.

In addition, they can process managerial approvals integrated from SAP software directly into the Outlook Contacts area and Microsoft Office documents.

- Report Management

Users can subscribe to reports generated from one or more SAP systems. The solution includes the possibility of creating role based catalogs, and making them available to users from Microsoft Office Outlook.

Report management allows the delivery of existing ALV reports, BW Queries, BW templates and BW Workbooks.

Business Applications Relationships and Dependencies on ERP Applications

You can choose which Duet business applications to use in your organization, for that reason, you need to understand and manage the relationship and interdependency on the ABAP components in mySAP ERP or BI for use with the business applications.

Note: Failure to install any of the related and depended ABAP components can affect the proper functioning of a specific business application.

The checked cells in the table below show the relationship and dependence on the ABAP components for use with the business applications:

Applications in SAP System	Time Management	Leave Management	Team Management	Budget Monitoring	Reporting with ERP 2004	Reporting with R/3 4.6C or Older
Personnel Administration	√	√	√	√		
Benefits			√			
Compensation Mgt			√			
Organization Mgt		√	√	√		
HR Time Mgt	*	√				
Cross Application Time Sheet	√*					
FI/CO (only controlling)			√	√		
SAP ESS 100 (Enterprise Portal package)**						
SAP MSS 100 (Enterprise Portal package)**						
SAP NW 04 - BI ***						√

	<p>The character * indicates that, at least one of the following SAP® applications is required in the SAP system:</p> <p>PT HR Time Management or PY Payroll CO Controlling PM Plant Maintenance PS Project System CS Customer System PT-IN-ES External Service Management FI-TV Travel Management</p> <p>The characters ** indicate that, ERP portal package is optional; however, ESA ECC-SE 501 is a MUST for all Duet business applications.</p> <p>The characters *** indicate that, SE38 Reporting is available with no requirement for additional components.</p>
	The grey areas indicate the optional components which provide enhanced capabilities, when they are available.

In addition, you can quickly make the following Duet business applications available to users of business packages for Employee Self-Service (ESS), and Manager Self-Service (MSS):

Business application	User
Time Management	ESS user
Leave Management	ESS user
Team Management	ESS user (for employee functionality) Limited professional user or professional user (for manager functionality).
Budget Monitoring	Limited professional user, or professional user
Reporting & Analytics	Employee user, or limited professional user, or professional user

Software Component Matrix

Duet consists of the set of software components developed and delivered by SAP and Microsoft. You install these components on both client and server computers.

The following tables provide an overview of the various software components required in the three different environments for running Duet.

Duet Server Environment

The Duet server environment describes the software components and procedures that handle the metadata designated for the Duet Metadata Service and the Request Handler Service.

This is a virtual environment that consists of the Duet server components from SAP, and the Duet Metadata Service and the Request Handler Service from Microsoft.

Software components required in the Duet server environment:

Software Components	SAP	Microsoft
Operating system	Microsoft Windows Server™ 2003, SP1	Microsoft Windows Server 2003, SP1
Database	All databases supported by SAP NetWeaver®	Microsoft SQL Express™ 2005
Microsoft .NET Framework	Not applicable	Microsoft® .NET Framework 2.0
Internet Information Service Manager	Not applicable	Microsoft Windows Server™ 2003 Internet Information Services (IIS)
SAP Web Application Server	SAP Web Application Server Java 6.40 SP17, or higher	Not applicable
Domain Controller	Not applicable	Microsoft Exchange Server 2003
	Not applicable	Microsoft Active Directory Service 2003
Duet software	Duet server	Duet Metadata Service
		Request Handler Service

For information about the prerequisites for Duet Metadata Service, and the Request Handler Service, see *Duet for Microsoft Office and SAP; Microsoft Installation and Deployment Guide* available at: <https://connect.microsoft.com/default.aspx>, or from the installation package: ... \Microsoft\Documentation.

For information about the prerequisites for Duet server, see *Duet for Microsoft Office and SAP; SAP Installation Guide* available on SAP Service Marketplace at: <http://service.sap.com/instguides> → *SAP xApps* → *Duet* → *Duet* , or from the installation package: ... \SAP\DOCS.

Duet Add-On Environment

The Duet Add-On is a virtual environment that consists of the Duet Add-On components, and the ABAP components required in mySAP ERP systems for Duet.

It is also described as mySAP ERP environment. Software components required in the Duet Add-On environment are:

Software Components	SAP
Operating system	All operating systems supported by SAP NetWeaver
Database	All databases supported by SAP NetWeaver
SAP Web Application Server	SAP Web Application Server Java 6.40 SP17, or higher
SAP system	mySAP ERP™ 2004, SP12 Note: Not required for reporting management only solution. mySAP ERP 2004 supports Unicode; Duet does not support <i>Multi-Display/Multi-Processing</i> (MDMP).
	SAP Business Information Warehouse (SAP BW 3.5). Note: Optionally, you can configure SAP BW for use in Duet.
Duet software	Duet 1.0 Support Package 1.0

For information about the prerequisites for preparing mySAP ERP system for Duet, and Duet Add-On, see *Duet for Microsoft Office and SAP; SAP Administration Guide* available on SAP Service Marketplace at: <http://service.sap.com/instguides> → *SAP xApps* → *Duet* → *Duet 1.0* , or from the installation package: ... \SAP\DOCS.

Duet Business Applications Environment

The Duet business applications environment consists of the components for the applications from SAP that are to be used in Microsoft Office Outlook® 2003, and the Duet client components from Microsoft.

Software components required in the client environment:

Software Components	SAP	Microsoft
Operating system	Microsoft Windows XP®, SP2	
Microsoft Office	Microsoft Office Professional Edition 2003, SP2	
Microsoft .NET Framework	Microsoft® .NET Framework 2.0	
Duet software	Duet business applications (Time Management, Budget Monitoring, Team Management, Leave Management)	Duet client components
<p>For information about the prerequisites for Duet client components, see <i>Duet for Microsoft Office and SAP; Microsoft Installation and Deployment Guide</i> available at: https://connect.microsoft.com/default.aspx, or from the installation package: ... \Microsoft\Documentation.</p> <p>For information about the prerequisites for Duet business applications, see <i>Duet for Microsoft Office and SAP; SAP Installation Guide</i> available on SAP Service Marketplace at: http://service.sap.com/instguides → SAP xApps → Duet → Duet , or from the installation package: ... \SAP\DOCS.</p>		

Duet requires SAP NetWeaver 2004 Web Application Server Java 6.40 SP17, or higher in both the Duet server, and the Duet Add-On environments. For that reason, we recommend that you read also the Product Availability Matrix in SAP Service Marketplace at: service.sap.com/pam → SAP NetWeaver → SAP NetWeaver 04.

Duet System Landscape

This section provides an overview of the Duet system landscape. The system landscape describes both the technical infrastructure, and the system infrastructure.

Technical infrastructure describes the software components of Duet, the supporting software required, and the hardware to run a complete Duet solution, and system infrastructure describes the functional operations, communications and interactions in the Duet architecture.

Technical Infrastructure

Duet comprises of components that extend the reach of Microsoft Office applications into SAP systems, allowing Microsoft Office applications users to access SAP® data and business processes in their familiar desktop environment.

For that matter, you need to implement Duet by designing it into your existing landscape: where you maintain Windows servers, and domain controllers, and in the landscape in which you run the SAP systems.

Depending on your needs, you can plan the implementation of Duet environments to consist of the following:

- A single computer running both the Duet server, Duet Metadata Service, and the Request Handler service in the same landscape as your existing Windows servers and Windows-based systems.

This system can be connected to a single computer running the Duet Add-On in the same landscape as mySAP ERP, and configured to interface with one or more SAP systems.

- Alternatively, you can implement a single computer that runs the Duet server, the Duet Metadata Service, and the Request Handler service, to interface with more than one computer, each running an instance of the Duet Add-On.

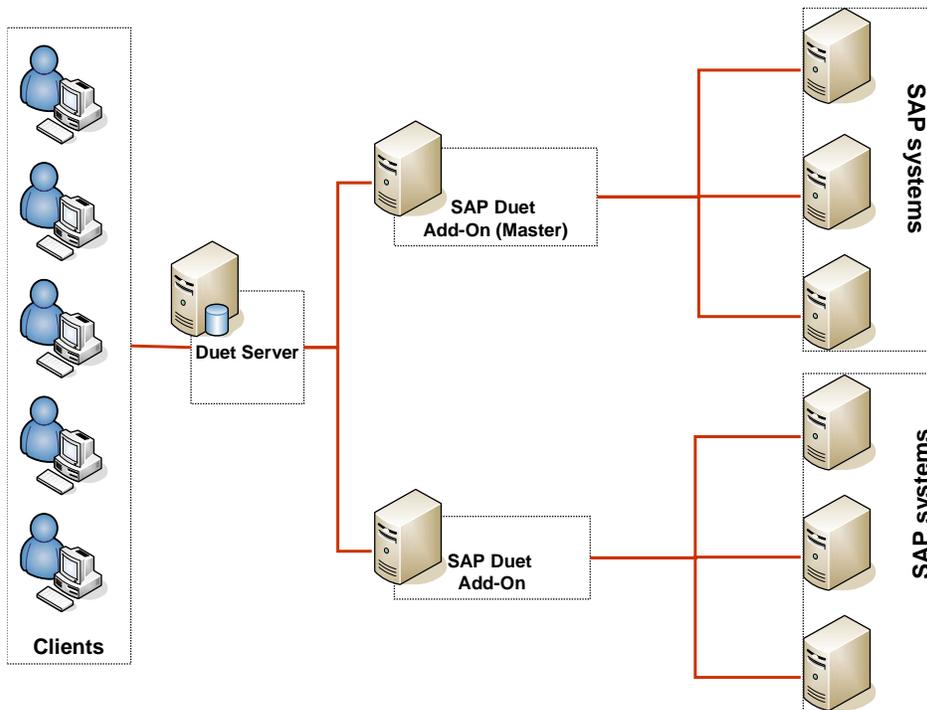
Each instance of the Duet Add-On can be configured to connect to more than one SAP system.

Note: In a cluster for the Duet Add-On, you set up the metadata repository in a single computer. This becomes the Master Duet Add-On, which is configured to interface with other servers running instances of the Duet Add-On.

Find information about the hardware requirements for the Duet components from SAP, see *Duet for Microsoft and SAP; SAP Installation Guide* in SAP Service Marketplace at: <http://service.sap.com/instguides> → SAP xApps → Duet → Duet 1.0.

In addition, the installation package contains documentation for Duet components from SAP in the folder: ... \SAP\DOCS.

The following illustrates the infrastructure of Duet as discussed above:



System Infrastructure

The system infrastructure illustrates the interactions between the Duet components in three environments: client, Duet server, and the Duet Add-On in mySAP ERP environment.

Both the technical and system infrastructure come together to define the system landscape, which depicts the architecture of Duet.

For information about the architecture of Duet, see *Duet for Microsoft Office and SAP; SAP Administration Guide* available on SAP Service Marketplace at:

<http://service.sap.com/instguides> → *SAP xApps* → *Duet* → *Duet 1.0*, or from the installation package: ... \SAP\DOCS.

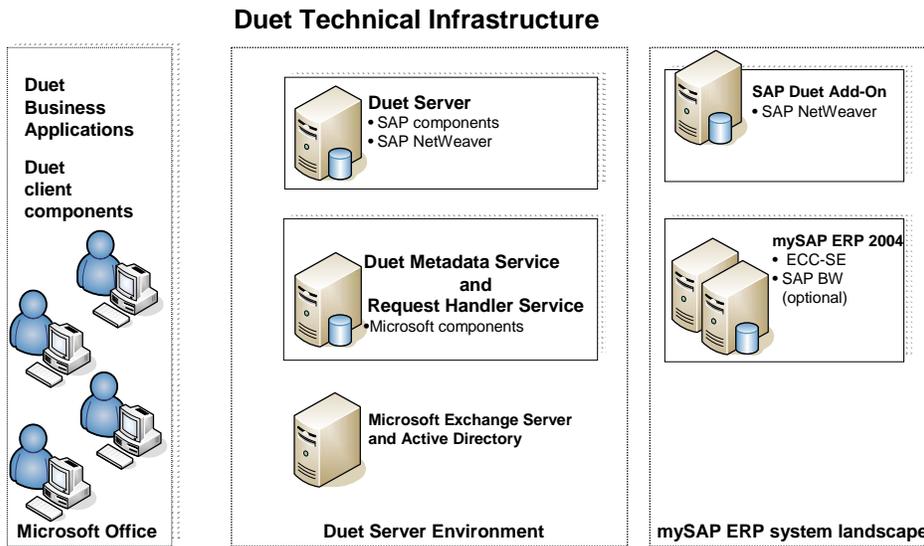
For clients, you implement the presentation layer by installing the Duet client components and the Duet business applications.

There are two sets of components in the middle-tier: the Duet server components from SAP, and the Duet Metadata Service, and the Request Handler Service from Microsoft.

Although you can install both sets of components in a single computer, we recommend that you install them in separate computers to enhance the performance, scalability and availability of the Duet landscape.

The Duet server interfaces with your existing mySAP ERP environment through the Duet Add-On components.

The figure below shows an overview of the system landscape for Duet:



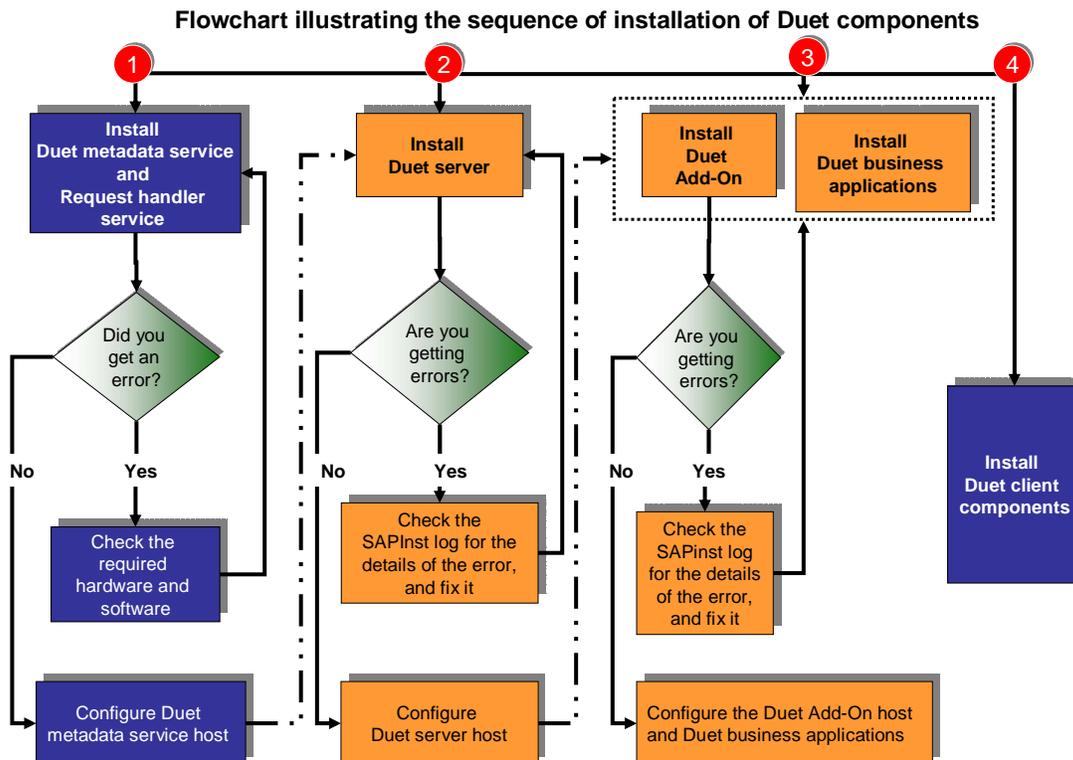
Note: Make sure that you install the Duet Metadata Service, and the Request Handler service, before you begin to prepare the environments in which you deploy Duet components from SAP.

Chapter 3: Installation Sequence and References to Related Guides

The following are the components to install:

- Duet client components
- Duet Metadata Service
- Request Handler Service
- Duet server components
- Duet Add-On components
- Duet business applications: Time Management, Leave Management, Budget Monitoring, and Team Management.

The following shows the installation flow of Duet components:



Install the Duet components from both Microsoft and SAP in the following sequence:

1. Install the Duet Metadata Service and Request Handler Service from Microsoft.

Use the *Duet for Microsoft Office and SAP; Microsoft Installation and Deployment Guide*, to install and deploy the Duet Metadata Service and the Request Handler Service in the Duet server environment.

The current version of the guide is located at
<https://connect.microsoft.com/default.aspx>.

In addition, the installation package contains documentation for these Duet components from Microsoft in the folder: ...*Microsoft\Documentation*.

Note: We recommend that you read the *Duet for Microsoft and SAP; SAP Operations Guide*, and *Duet for Microsoft Office and SAP; Microsoft Planning Guide* to help you plan, before setting up the Duet landscape.

2. Install and configure the Duet server components from SAP.

Use the *Duet for Microsoft and SAP; SAP Installation Guide*, to install and configure the Duet components from SAP in the Duet server environment.

The guide documents the installation, and configuration of the Duet components from SAP, in three different environments: Duet server, Duet Add-On, and Duet business applications.

The current version of the guide is located in SAP Service Marketplace at
<http://service.sap.com/instguides> → *SAP xApps* → *Duet* → *Duet 1.0*.

In addition, the installation package contains documentation for Duet components from SAP, in the folder: ...*SAP\DOCS*.

3. Set up and configure the Duet Add-On components from SAP.

Use the *Duet for Microsoft and SAP; SAP Installation Guide*, to install and deploy the Duet components from SAP in the Duet Add-On environment.

The current version of the guide is located in SAP Service Marketplace at
<http://service.sap.com/instguides> → *SAP xApps* → *Duet* → *Duet 1.0*.

In addition, the installation package contains documentation for Duet components from SAP in the folder: ...*SAP\DOCS*.

4. Install the Duet business applications from SAP.

Use the *Duet for Microsoft and SAP; SAP Installation Guide*, to guide you during the installation of the Duet business applications from SAP in the client component.

The current version of the guide is located in SAP Service Marketplace at
<http://service.sap.com/instguides> → *SAP xApps* → *Duet* → *Duet 1.0*.

In addition, the installation package contains documentation for Duet components from SAP in the folder: ...*SAP\DOCS*.

5. Set up and configure the Duet client components from Microsoft.

Use the *Duet for Microsoft Office and SAP; Microsoft Installation and Deployment Guide*, to install and deploy the Duet client components from Microsoft in the client computer.

The current version of the guide is located at
<https://connect.microsoft.com/default.aspx>.

In addition, the installation package contains documentation for these Duet components from Microsoft in the folder: ...*Microsoft\Documentation*.

Chapter 4: Software Components Overview

This section provides information about the set of software components in Duet that are developed and delivered by SAP and Microsoft, respectively.

SAP Components

The software components in Duet present predefined services that communicate with each other.

The following software components are delivered in Duet, by SAP:

Software component	Description
Duet Server	The Duet server serves as a bridge over which the business applications implemented in clients, use available services and components to retrieve, and process data from SAP systems.
Duet Add-On	<p>The Duet Add-On creates the environment that supports the implemented Duet business applications in the Microsoft Office applications.</p> <p>The Duet Add-On must be deployed in the existing landscape for mySAP™ ERP, so that it interfaces with Enterprise Service Architecture (ESA) service, which defines how business applications access business objects in SAP systems.</p>
Components to support Duet in mySAP ERP system	Capabilities of Duet business applications require specific ABAP components to be available in the SAP system.
Duet business applications	<p>Duet business applications comprise of the following solutions that run in Microsoft Office Outlook® 2003: Time Management, Leave Management, Budget Monitoring, and Team Management.</p> <p>When the business applications are deployed, the runtime engine of the Duet client component enables:</p> <ul style="list-style-type: none"> • Various caching of metadata on the local client for the specific user. • Integration with the host Microsoft Office application, such as, Microsoft Office Outlook, Microsoft Office Excel, and Microsoft Office InfoPath®. • Loading assemblies from the assembly cache.

Microsoft Components

The following software components are delivered in Duet, by Microsoft:

Software component	Description
Duet Metadata Service	<p>The Duet Metadata Service is installed in the same environment as the Duet server from SAP.</p> <p>It enables the use of metadata retrieved from SAP systems in the client computers running Duet business applications.</p>
Request Handler Service	<p>The Request Handler service is installed in the same host as the Duet Metadata Service, and in the same environment as the Duet server from SAP.</p> <p>It interfaces with specific Duet server components from SAP to set up, control and deliver formatted messages to client computers.</p>
Duet client components	<p>The Duet client components provide the client framework into which Duet business applications are integrated, and enabled in Microsoft Office Outlook for information workers.</p>