

Implementation and Operations Manual

The Intercompany Integration Solution for SAP Business One
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CUSTOMER

Implementation and Operations Manual The Intercompany Integration Solution for SAP Business One

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1 Introduction

1.1 Purpose

This document is a key document which contains information on the blueprint, implementation, and operation phase

- To gather detailed information and requirements for the business processes in the blueprint phase. The questions are generic and listed for each business process. Questions that are not suitable for your localization or market can be removed.
- To provide a checklist of the most important topics on implementation and test phase.
- To safeguard the operations phase.

1.2 Related documents

Find implementation relevant documents in chapter [3.2 Training Materials for Installation and Implementation](#) in this document.

See the dedicated page on [SAP Help Portal](#) for various assets on the intercompany integration solution such as the [Administrator's Guide](#) and the [User Guide](#).

2 Blueprint – Process Questions



Caution in the Blueprint phase

Please make sure that every project member understands the exact meaning of each question.

When asking the questions, try to use the customer's terminology, not SAP terminology.

During the information gathering workshops, it is essential to capture the customer's responses to each question.

2.1 Project Requirements

Question	Yes	Remarks / Tasks										
Do you already know all relevant requirements of the customer? <ul style="list-style-type: none">For a successful project this needs to be assured.	<input type="checkbox"/>											
Have you evaluated the intended project scope and customer requirements in respect to the "Intercompany Integration Solution" or the "Multiple Branches" functions? <ul style="list-style-type: none">For a successful project this needs to be assured. See also the document " Intercompany Integration Solution vs. Multiple Branches "	<input type="checkbox"/>											
Which functions are planned to be used?		<table border="1"><tbody><tr><td>Financial Consolidation</td><td><input type="checkbox"/></td></tr><tr><td>Master Data Replication</td><td><input type="checkbox"/></td></tr><tr><td>Intercompany Trade</td><td><input type="checkbox"/></td></tr><tr><td>Centralized Payment</td><td><input type="checkbox"/></td></tr><tr><td>Intercompany Allocation</td><td><input type="checkbox"/></td></tr></tbody></table>	Financial Consolidation	<input type="checkbox"/>	Master Data Replication	<input type="checkbox"/>	Intercompany Trade	<input type="checkbox"/>	Centralized Payment	<input type="checkbox"/>	Intercompany Allocation	<input type="checkbox"/>
Financial Consolidation	<input type="checkbox"/>											
Master Data Replication	<input type="checkbox"/>											
Intercompany Trade	<input type="checkbox"/>											
Centralized Payment	<input type="checkbox"/>											
Intercompany Allocation	<input type="checkbox"/>											

2.2 Preparation

2.2.1 Infrastructure

Question	Yes	Remarks / Tasks
Is the <i>hardware</i> according to the Sizing Guide of Intercompany Integration Solution and SAP Business One Hardware Requirements Guide ? <ul style="list-style-type: none">• If not, there could be performance problems and the hardware must be changed.	<input type="checkbox"/>	
Is there another reason of using the Integration Framework besides operating the Intercompany Integration Solution? <ul style="list-style-type: none">• Specify which ones	<input type="checkbox"/>	
Is the <i>software</i> per the SAP Business One Hardware Requirements Guide and the Administrator's Guide for the Intercompany Integration Solution ? <ul style="list-style-type: none">• If not, update or install the required software.	<input type="checkbox"/>	
Which version of SAP Business One and Intercompany Integration Solution are considered for installation? <ul style="list-style-type: none">• The compatibility must be according to SAP Note 1844555.		
Is it planned to use MS SQL or SAP HANA?		
Within the configuration of Intercompany Integration Solution, you can use templates which are based on MS Excel. Is MS Excel installed? <ul style="list-style-type: none">• If not, all configuration data must be gathered manually.	<input type="checkbox"/>	
Are you considering using the integration framework on the same server as SAP Business One? <ul style="list-style-type: none">• As a best practice, it is recommended to have separate servers.	<input type="checkbox"/>	

2.2.2 Basic Setup of the Environment

Question	Yes	Remarks / Tasks
<p>To have an easy mapping of the chart of accounts to the chart of accounts of the consolidation (using the template with MS Excel, this template can be used in all companies), it is recommend having the same chart of accounts for each company, if possible.</p> <p>Is the chart of accounts identical in each company?</p> <ul style="list-style-type: none"> • If not, an expert must map the chart of accounts in each company (using the template with MS Excel, the template can only be used in the respective company). Please consider this time-consuming task in you planning. 	<input type="checkbox"/>	
<p>Do you use only one localization?</p> <p>When using cross-localization you must define company templates for each localization. You also must set up the companies according to the localizations, or you can define a template for each localization. This takes more time than using only one localization and must be planned.</p> <ul style="list-style-type: none"> • If using multiple localizations, you must define only one company template and you can create a template for each localization. 	<input type="checkbox"/>	
<p>It is necessary to define a language for the replication of master data across the landscape. Have you defined the main language for master data?</p> <ul style="list-style-type: none"> • If not, please define a language 	<input type="checkbox"/>	

2.2.3 Landscape

Question	Yes	Remarks / Tasks
<p>For the consolidation process, the local or system currency can be used. If there are different local currencies in the companies, it might be better to consolidate by system currency.</p> <p>Do you use system currency?</p> <ul style="list-style-type: none"> • If not, you must set the decimal places of the amounts to 6. 	<input type="checkbox"/>	
<p>For each company you must define a unique branch code.</p> <p>Is a branch code defined?</p> <ul style="list-style-type: none"> • If not, please define a branch code. It is recommended using an appropriate naming convention. The result is a flat structure in the landscape and more flexibility in the reporting (Prefix country, branch (optional), company description or ID (for example, DE_VK_COMPANY). The branch code is the filter criterion in the consolidation company. 	<input type="checkbox"/>	
<p>How many Head Offices and how many branches are you planning for?</p> <ul style="list-style-type: none"> • It is important to consider the number of branches for the workplan schedule. 		
<p>Are there only two companies in the landscape?</p> <ul style="list-style-type: none"> • If there more than two companies it is recommended to setting up a separate company for master data only. This is necessary for having an overview of all master data and reducing duplicates. 	<input type="checkbox"/>	

2.3 Roll-Out

2.3.1 Installation

Question	Yes	Remarks / Tasks
If you use more than one company, each localization and all the companies have the same chart of accounts. Is it possible to create a template company? <ul style="list-style-type: none">• If not, you must set up each company separately, which is time-consuming.	<input type="checkbox"/>	
Do you have all users and passwords for servers, software, and the access rights for installation? <ul style="list-style-type: none">• If not, please organize and document it appropriately.	<input type="checkbox"/>	
During the installation process of the add-on for each company, the use of the companies is not allowed, to avoid inconsistencies. Have you defined the date and time for the installation and communicated it? <ul style="list-style-type: none">• If not, schedule date and time, and communicate it to the users.	<input type="checkbox"/>	

2.3.2 Training

Question	Yes	Remarks / Tasks
Do the implementation consultants have experience on installing, configuring, and operating the Intercompany Integration Solution from previous customer projects? <ul style="list-style-type: none">• If not, please define a training schedule and dates.	<input type="checkbox"/>	
Are key users defined? <ul style="list-style-type: none">• If not, please define key users.	<input type="checkbox"/>	
Do you have scheduled an end-user training? <ul style="list-style-type: none">• If not, please define a training scope and schedule.	<input type="checkbox"/>	

2.4 Master Data

2.4.1 Synchronization

Question	Yes	Remarks / Tasks
<p>If you have existing companies, the items and business partners need to have the same item codes or card codes in each company; otherwise, the items or business partners would be overwritten if they are set as global.</p> <p>Do you have the same item code and card code?</p> <ul style="list-style-type: none">• If not, please create new items and business partners for the global ones.	<input type="checkbox"/>	
<p>According to the Administrator's Guide for the Intercompany Integration Solution, you can define the objects in the company template which you want to replicate.</p> <p>Do you have objects defined?</p> <ul style="list-style-type: none">• If not, please define the objects (see Appendix in the Administrator's Guide) for replication.	<input type="checkbox"/>	
<p>According to the Administrator's Guide for the Intercompany Integration Solution, you can define the fields for the objects in the company template which you want to synchronize.</p> <p>Do you have fields defined?</p> <ul style="list-style-type: none">• If not, please define the fields for the objects (see Appendix in the Administrator's Guide) for replication.	<input type="checkbox"/>	
<p>If you have defined the objects and fields and you don't use the default company template, you must create your own company templates.</p> <p>Is there a dedicated person responsible and time allocated?</p> <ul style="list-style-type: none">• If not, please define a person responsible and care for time allocation.	<input type="checkbox"/>	
<p>Have you defined the person responsible for the harmonization of the master data of the objects you defined previously and have you a time allocated?</p> <ul style="list-style-type: none">• If not, please define a person responsible and care for time allocation.	<input type="checkbox"/>	

<p>Do you have defined the rules for the distribution templates for replication of the master data of items, business partners, bills of material, and price lists?</p> <ul style="list-style-type: none"> • If not, the customer must define the rules. 	<input type="checkbox"/>	
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2.5 Accounting

2.5.1 Chart of Accounts

Question	Yes	Remarks / Tasks
<p>You must define the chart of accounts for the consolidation company. You can use the default chart of accounts of the company(ies). Remove the account determination and the control accounts or define a new one. If you define a different chart of accounts for the consolidation company, please make sure to plan enough time for the mapping.</p> <p>Have you defined a chart of accounts for the consolidation company?</p> <ul style="list-style-type: none"> • If not, please define a chart of accounts for the consolidation company. 	<input type="checkbox"/>	
<p>For the consolidation of foreign currency, you must define the consolidation translation method for each account in the company (ies) (historical rate, closing rate, or average rate).</p> <p>Have you defined the consolidation translation method?</p> <ul style="list-style-type: none"> • If not, the accountant must define the consolidation translation method for each account. 	<input type="checkbox"/>	

2.5.2 Cost Center/ Project

Question	Yes	Remarks / Tasks
<p>You can use dimensions and cost centers. The dimension and cost center must be defined from a global perspective.</p> <p>Do you have defined global dimensions and cost centers?</p> <ul style="list-style-type: none"> • If not, please define global dimensions and cost centers for a proper reporting in the consolidation company. 	<input type="checkbox"/>	
<p>You can use financial projects. The financial projects must be defined from a global perspective.</p> <p>Do you have global financial project definitions?</p> <ul style="list-style-type: none"> • If not, please set global financial project definitions. 	<input type="checkbox"/>	

2.5.3 Consolidation

Question	Yes	Remarks / Tasks
<p>For the consolidation you can define a rule for automation. You can have manually, daily, weekly, or monthly consolidation.</p> <p>Have you defined the rule?</p> <ul style="list-style-type: none"> • If not, please define the consolidation rule. 	<input type="checkbox"/>	
<p>If the consolidation chart of accounts is different from the chart of accounts in the companies, the accountant has to map the chart of accounts in each company to the consolidation chart of accounts. If the mapping is wrong, the consolidation report is wrong!</p> <p>Have you assigned an accountant with the proper knowhow for the mapping?</p> <ul style="list-style-type: none"> • If not, please assign an accountant with the required knowledge for the mapping. 	<input type="checkbox"/>	
<p>To eliminate the intercompany transactions, you can create report templates for P/L and balance sheet or use the UDF for intercompany documents for filtering.</p>	<input type="checkbox"/>	

<p>Have you assigned an accountant to define the report templates?</p> <ul style="list-style-type: none"> • If not, please assign an accountant with the required knowledge. 		
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2.6 Intercompany Transactions

2.6.1 Intercompany Trade

Question	Yes	Remarks / Tasks
<p>For the elimination of intercompany trade, you can define an income account and an expense account.</p> <p>Have you defined an income account and an expense account?</p> <ul style="list-style-type: none"> • If not, define an income account and an expense account. See chapter Default Account Setup in User Guide 	<input type="checkbox"/>	
<p>If you want to eliminate the intercompany trade by using accounts others than accounts from the account determination, it is necessary to activate Advanced G/L Account Determination. You also must create a supplier and customer group for the rules.</p> <p>Have you activated Advanced G/L Account Determination?</p> <ul style="list-style-type: none"> • If not, please activate Advanced G/L Account Determination and set the rules. See Advanced G/L Account Determination Rules Window 	<input type="checkbox"/>	
<p>You can use global credit limit for business partners. You must define the limit for each business partner.</p> <p>Have you defined the global credit limit for the business partners?</p> <ul style="list-style-type: none"> • If not, please define the credit limit for each business partner. 	<input type="checkbox"/>	
<p>For the intercompany trade, there is a predefined document process flow, which cannot be changed.</p>	<input type="checkbox"/>	

<p>Have you explained the document process flow to the team?</p> <ul style="list-style-type: none"> • If not, please explain the document process flow. 		
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2.6.2 Intercompany Allocation

Question	Yes	Remarks / Tasks
<p>For the allocation, you must define an asset account and a liability account (or one for both) for each branch.</p> <p>Do you have an asset account and a liability account defined for each branch?</p> <ul style="list-style-type: none"> • If not, you must define an asset account and a liability account for each branch. 	<input type="checkbox"/>	
<p>There are several settings for allocation. You can define the default allocation (journal entry or invoice). You can also define a replication for dimensions, cost centers, and financial projects (optional).</p> <p>Do you have the basic settings defined?</p> <ul style="list-style-type: none"> • If not, please define the basic settings for allocation. See User Guide 	<input type="checkbox"/>	
<p>If you have many allocations, it makes sense to automate the account determination. To automate the allocation, you must set up</p> <ul style="list-style-type: none"> - the Default Accounts By Balance Sheet, - the Default Accounts By Profit Loss, and - on the chart of accounts, the Account Classification for each company. <p>Please be sure to plan enough time for the mapping.</p> <p>Do you have a lot of allocations?</p> <ul style="list-style-type: none"> • If not, the setup is optional. 	<input type="checkbox"/>	

3 Implementation

3.1 Important Documents for Installation and Implementation

Please make sure to use the following documents:

- [Platform Support Matrix](#) for Integration Solutions
- [Sizing Guide](#) for the Intercompany Integration Solution for SAP Business One
- [Administrator's Guide](#) for Intercompany Integration Solution 2.0 for SAP Business One
- [User Guide](#) for Intercompany Integration Solution 2.0 for SAP Business One
- Questions in chapter 2 of this document
- SAP Note [1844555](#) – Troubleshooting in Intercompany Integration Solution for SAP Business One
- SAP Note [1921119](#) – Intercompany Integration Solution 2.0 for SAP Business One: Known Limitations

3.2 Training Materials for Installation and Implementation

These materials cover the installation and configuration of the Intercompany Integration Solution:

- [Introduction](#)
- [Installation](#)
- [Multiple Instances Configuration](#)
- [Initial Configuration](#)
- [Additional Configuration](#)
- [Intercompany – The Working Process](#)
- [Consolidation Process](#)

3.3 Integration Framework

To run the Intercompany Integration Solution smoothly please consider the recommendations:

- Run the Integration Framework for SAP Business One on a separate server.
- Follow the hardware requirements to avoid performance issues – use the [Sizing Guide](#)



Caution

It is important to validate memory consumption as it differs for different hardware technology.

- Check that B1i user is active in the integration framework, under [MAINTENANCE > User Administration > Runtime Users > Active: true](#)

3.4 Performance

Follow SAP Note [1844555](#) – Troubleshooting in Intercompany Integration Solution for performance optimizations, described in chapter 8.

For optimal performance it is strongly recommended to have multiple Proxy Groups defined and assigned to each database.

See

- [Administrator's Guide for the Intercompany Integration Solution](#) (chapter 8 Optimizing Performance)
- SAP Note [1844555](#) and
- Video [Define Multiple Proxy Groups](#)



Example

A Proxy Group can include multiple Proxy services, e.g. 3 to 5. This number needs to be considered for each individual landscape and specific customer requirements. Please assign not more than 15 proxy services to each group.



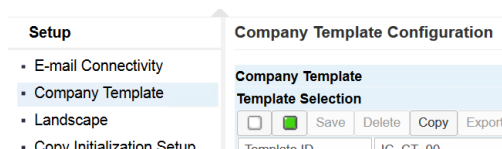
Caution

It is important to perform performance tests of the landscape setup before go-live.

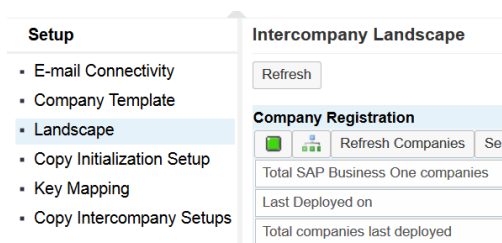
3.5 Intercompany Integration Landscape

Check the Intercompany Integration Landscape setup:

- A company template must be assigned. The green status indicates that selected data will be replicated between different companies.



- The Landscape must have green status indicating that the setup in all involved companies is correct.



- The status of the objects in key mapping must be “ok”, ensuring the correct synchronization of data between companies.

Key Mapping Data						
Save Reset Auto Map						
Object Name	CORPO	CONS_01	SUC_01	SUC_02	Status	
BusinessPartnerGroup(10)	Clientes (C) : 100	N/A	Clientes (C) : 100	Clientes (C) : 100	OK	
BusinessPartnerGroup(10)	Proveedores (S) : 101	N/A	Proveedores (S) : 101	Proveedores (S) : 101	OK	
BusinessPartnerGroup(10)	Intercompany C (C) : 102	N/A	Intercompany C (C) : 102	Intercompany C (C) : 102	OK	
BusinessPartnerGroup(10)	Intercompany P (S) : 103	N/A	Intercompany P (S) : 103	Intercompany P (S) : 103	OK	
UnitOfMeasurementGroups(1000)	Manual : -1	N/A	Manual : -1	Manual : -1	OK	
UnitOfMeasurement(10000199)	Manual : -1	N/A	Manual : -1	Manual : -1	OK	
Currency(37)	## : 0	## : 0	## : 0	## : 0	OK	
Currency(37)	Canadian Dollar : 1	Canadian Dollar : 1	Canadian Dollar : 1	Canadian Dollar : 1	OK	

3.6 Intercompany Integration Solution Settings

Please make sure the following:

- Assign license for the Intercompany Integration Solution to each user in SAP Business One under [Administration > License > License Administration](#)
- All databases are connected to the Intercompany Integration Solution to fulfill intercompany transactions under [Setup > Definition > Intercompany > BI Server Details](#).
When clicking on “OK” everything must be correct.
When working on a test environment and the BI Server is pointing to the productive system please be aware that you are work on the productive system for consolidation and remote query execution!

BI Server Details

☐ HTTPS

BI Server Address: [Redacted]

BI Port: 0080

User Name: B1admin

Password: ****

OK Cancel

- Run the [Intercompany Initialization Wizard](#) in each database.
Verify the correct connection to the integration framework in each database (see previous [BI Server Details](#))
- Run the [Intercompany Consolidation Setup Wizard](#) in **consolidation databases** only.
- Run the [Intercompany Setup Wizard](#) in all databases **without consolidation**.
- Map the branch company accounts with the consolidation companies under [Consolidation > Consolidation Account Mapping](#)
- If compensation between companies is used, the accounting catalogs need to be synchronized under [Administration > System Initialization > Company Details > Accounting Data > Allocation Accounts Synchronization](#)
See details in the [User Guide](#) page 60ff.

3.7 Final Tests

Before go-live, extensive system tests are highly recommended, such as:

- The different business scenarios which the customer requires. Setup a test plan.

-
- Performance tests
 - Replication and creation time of intercompany documents
 - Consolidation duration

4 Operations

4.1 Important Documents

Please make sure to use the [User Guide](#) for Intercompany Integration Solution 2.0 for SAP Business One.

4.2 Check

During runtime check the [Monitoring](#) and [Message Log](#) in the Intercompany Integration Solution 2.0 for SAP Business One.



4.3 Currencies

Define the relevant [exchange rates](#) for foreign currencies which are used in the different localizations, to avoid errors on the intercompany trade process and consolidation.



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