

# **SAP Business One**

## **Managing Intercompany 2.0 in Different Servers**

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April 16, 2015

# Agenda

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- Identifying the Environment
- Installation Process
- Particularities
- Q&A

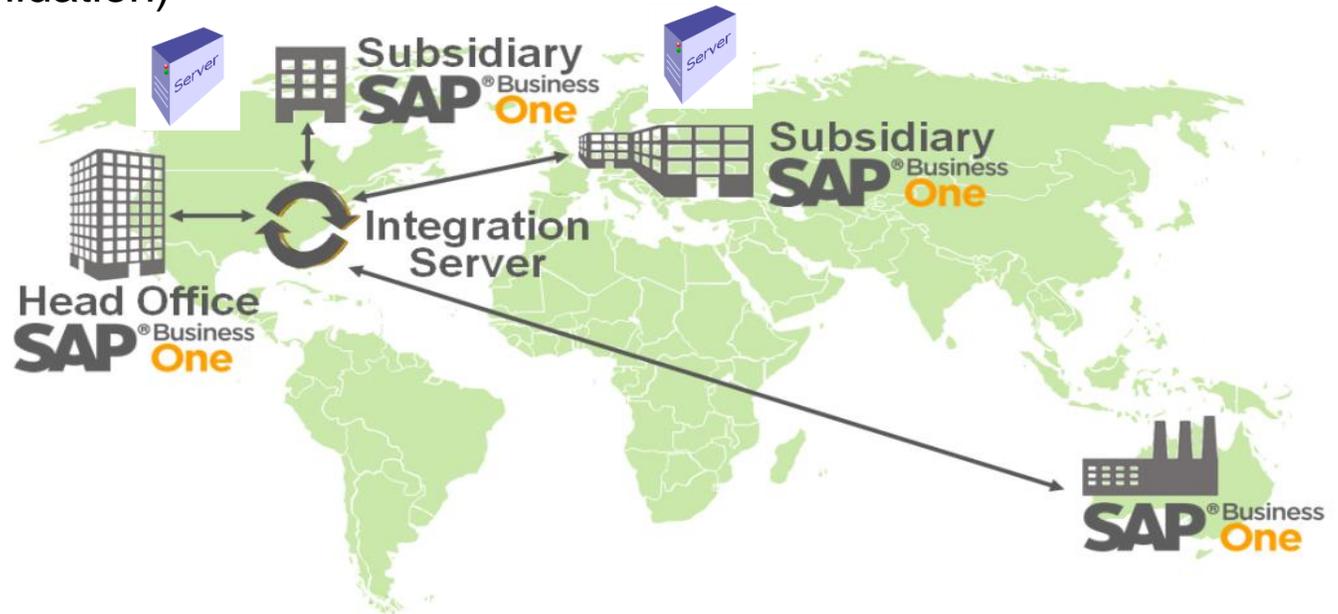
# Agenda

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- **Identifying the Environment**
- Installation Process
- Particularities
- Q&A

# Identifying the Environment

- Quantity of servers available in the environment (i.e. 2 servers: **Americas** and **EMEA+APJ**)
- Desire Landscape by the customer (i.e. Consolidation)
- Localizations needed in the implementation
- Maintaining the environment (complexity)



# Identifying the Environment

## Server 1: Americas

- Microsoft SQL Server
- SAP Business One 9.1 PL X\*
- SAP Business One DI Proxy Service
- SAP Business One EventSender Service
- Intercompany Add-on (all databases using ICO)
- **SAP Business One Integration Service**
- **Intercompany Scenario**

## Server 2: EMEA + APJ

- Microsoft SQL Server
- SAP Business One 9.1 PL X\*
- SAP Business One DI Proxy Service
- SAP Business One EventSender Service
- Intercompany Add-on (all databases using ICO)

*\* Same PL for ALL databases in the environment*

# Agenda

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- Identifying the Environment
- **Installation Process**
- Particularities
- Q&A

# Installation Process

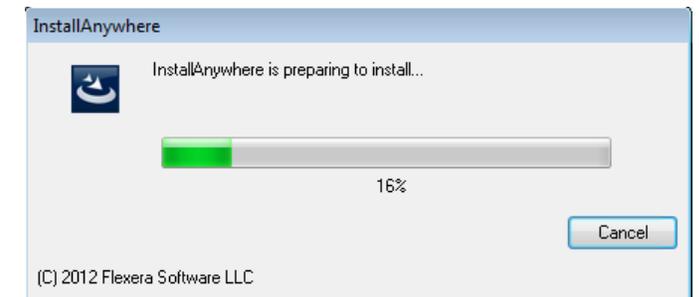
**Important:** SAP Business One 9.1 Server and Client Components are already installed in the customer's environment



# Installation Process (Server 1)

## Server 1: Americas

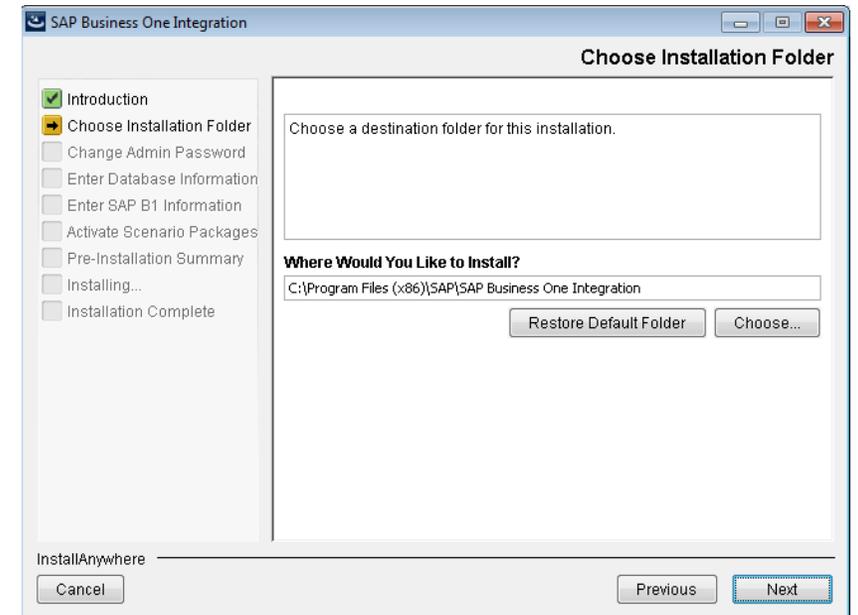
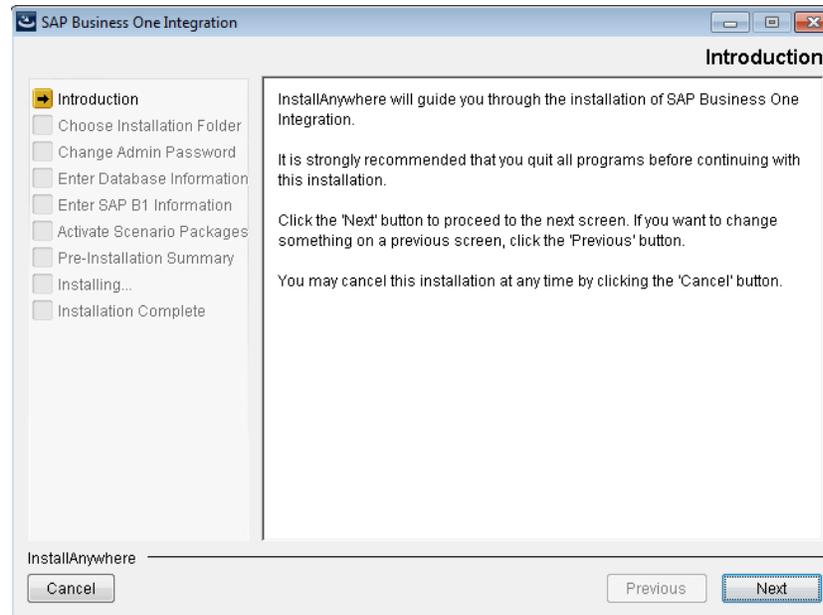
- From the SAP Business One package, install the Integration Solution Components



# Installation Process (Server 1)

## Server 1: Americas

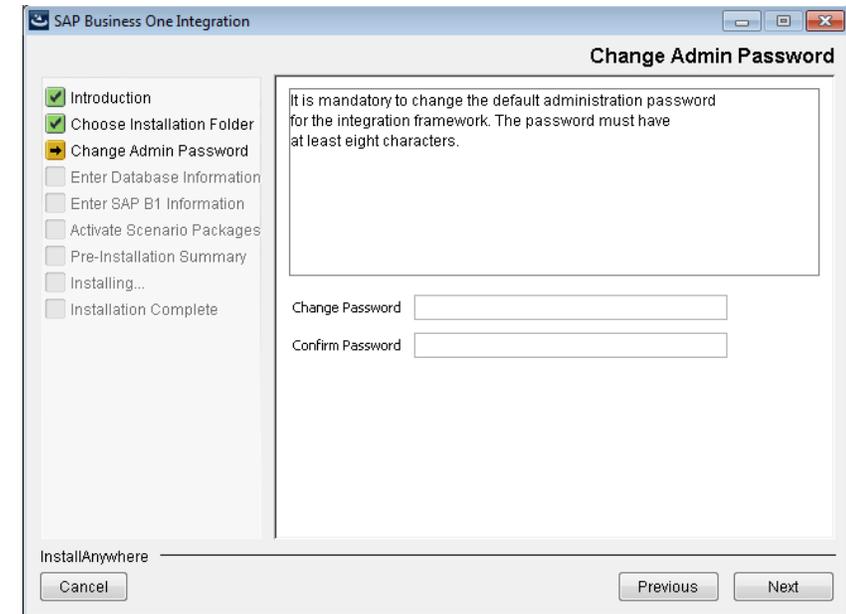
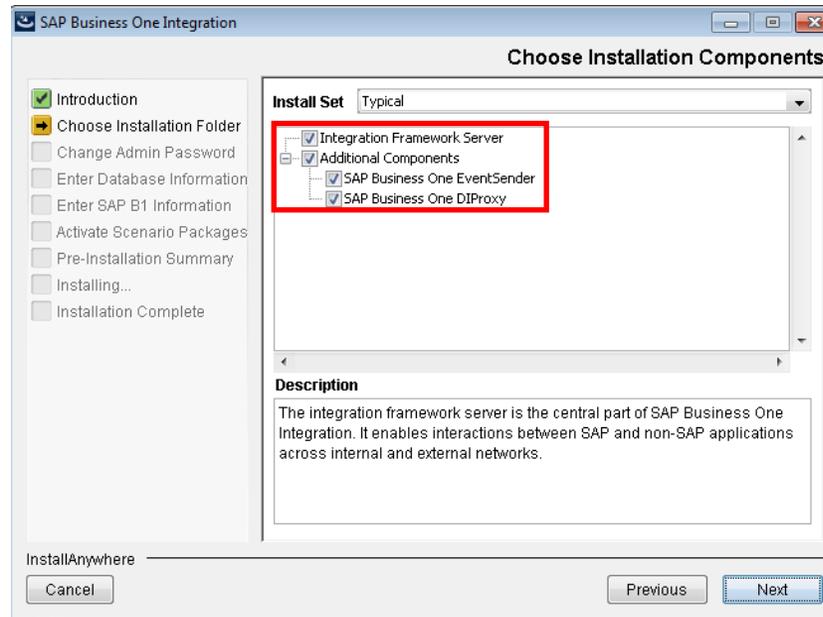
- Define a path where you want the integration to be installed



# Installation Process (Server 1)

## Server 1: Americas

- Ensure this server presents all components from the Integration package installed
- Include an administrator password to be used by the B1iadmin user



# Installation Process (Server 1)

## Server 1: Americas

- Select the correct database type (SQL, HANA etc)
- Include the correct password to connect to the server
- Include the B1i password

The screenshot shows the 'Enter Database Connection Parameters' dialog box. The left sidebar has a progress list with 'Enter Database Information' selected. The main area contains the following fields:

Field	Value
Database Type	SQL Server 2012
Database Server	DEWDFWTEC4003
Database Port	1433
Database Name	IFSERV
Database User Name	sa
Database Password	••••••••

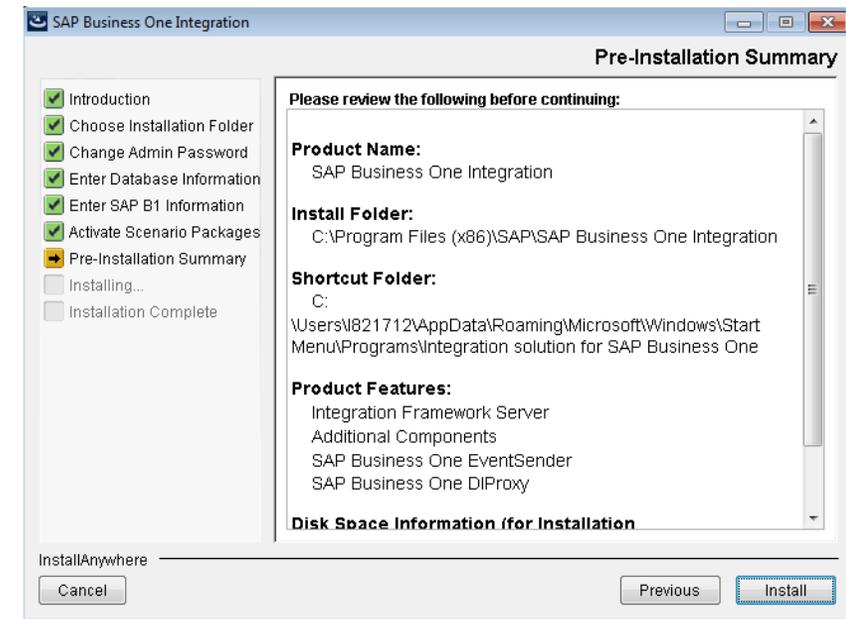
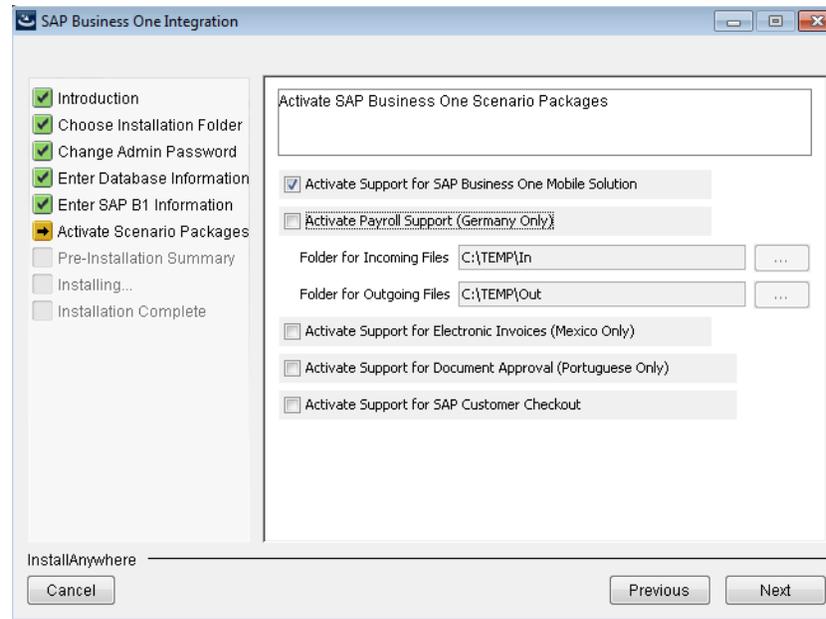
The screenshot shows the 'SAP Business One Common DB Information' dialog box. The left sidebar has a progress list with 'Enter SAP B1 Information' selected. The main area contains the following fields:

Field	Value
On Premise / On Demand	On Premise (selected)
Database Type	SQL Server 2012
B1 Server	DEWDFWTEC4003
Database Port	1433
License Server	DEWDFWTEC4003:30000
Database User Name	sa
Database Password	••••••••
32bit / 64bit(Recommended)	64bit(Recommended) (selected)
B1DI JCO PATH	C:\Program Files\SAP\SAP Business One DI API\JCO\LIB
B1i User Name	B1i
B1i Password	••••••••

# Installation Process (Server 1)

## Server 1: Americas

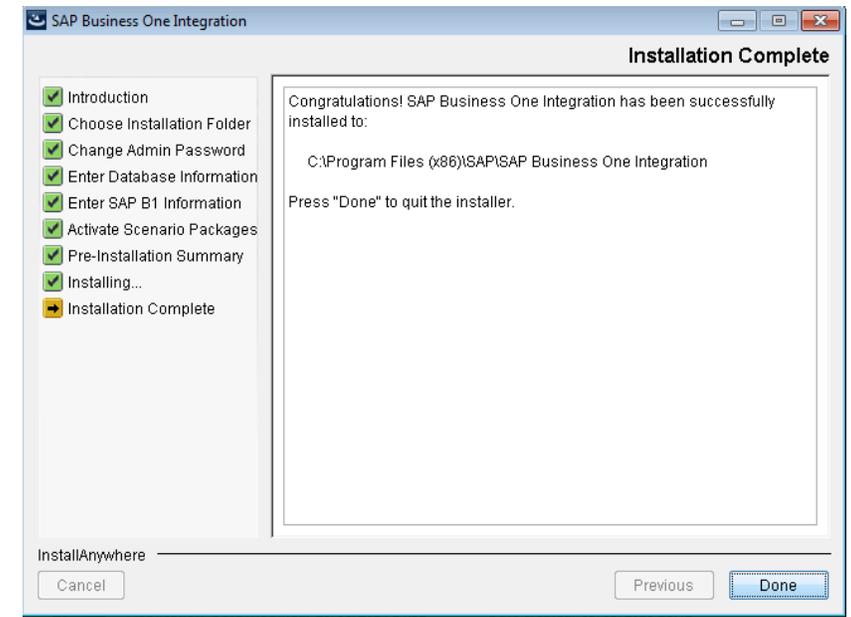
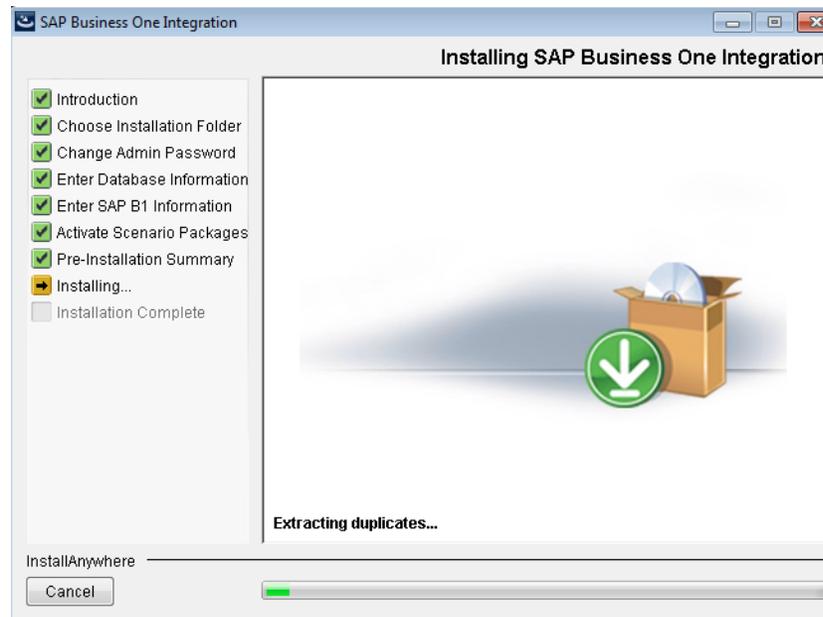
- Activate the desired packages (i.e. Mobile)
- Verify the summary and Install the Integration package



# Installation Process (Server 1)

## Server 1: Americas

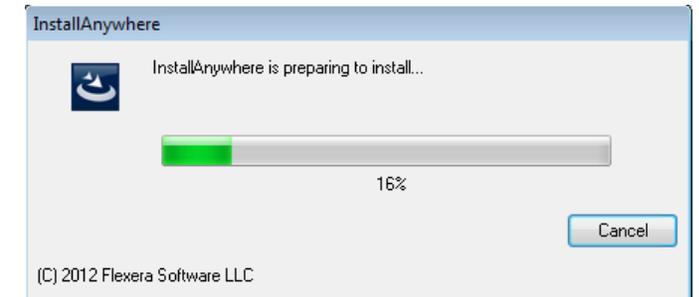
- Start the installation process
- Make sure to complete the installation properly



# Installation Process (Server 2)

## Server 2: EMEA + APJ

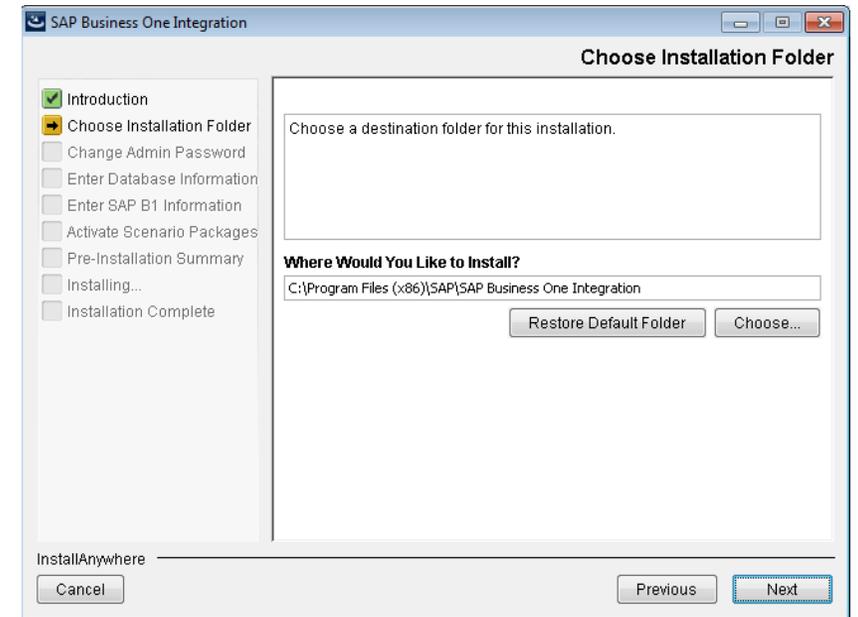
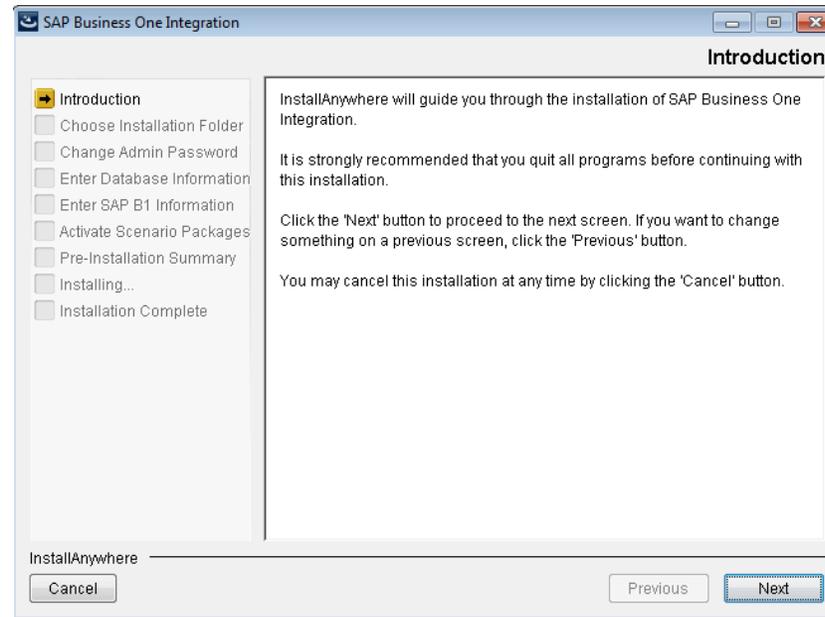
- From the SAP Business One package, install the Integration Solution Components



# Installation Process (Server 2)

## Server 2: EMEA + APJ

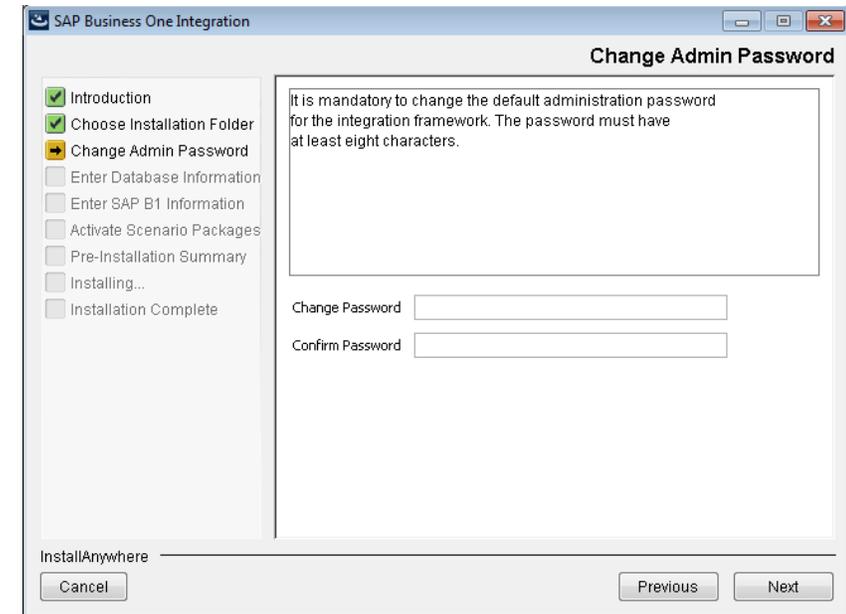
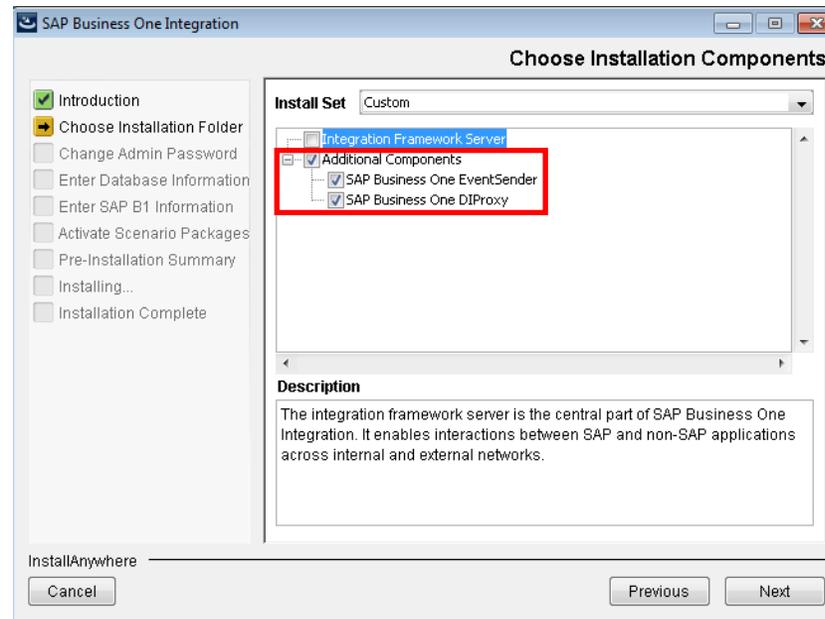
- Define a path where you want the integration to be installed



# Installation Process (Server 2)

## Server 2: EMEA + APJ

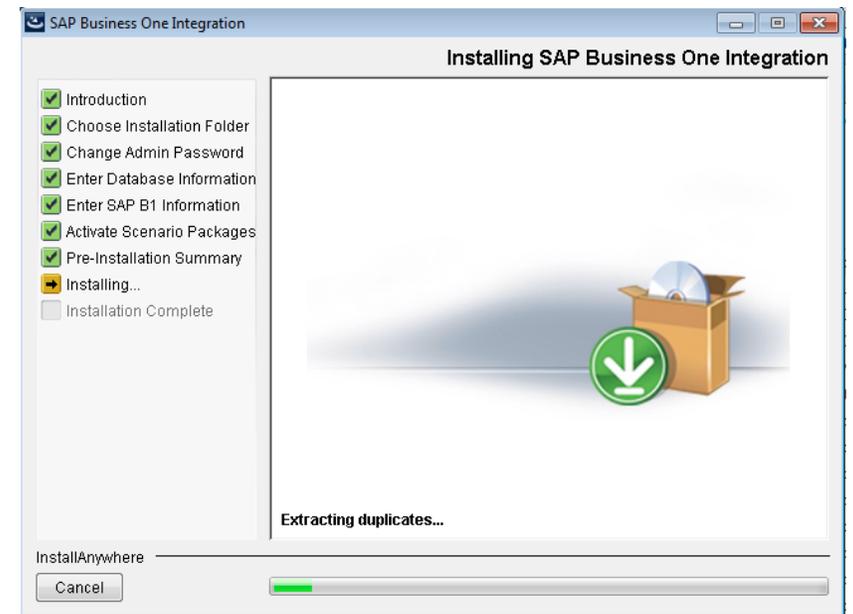
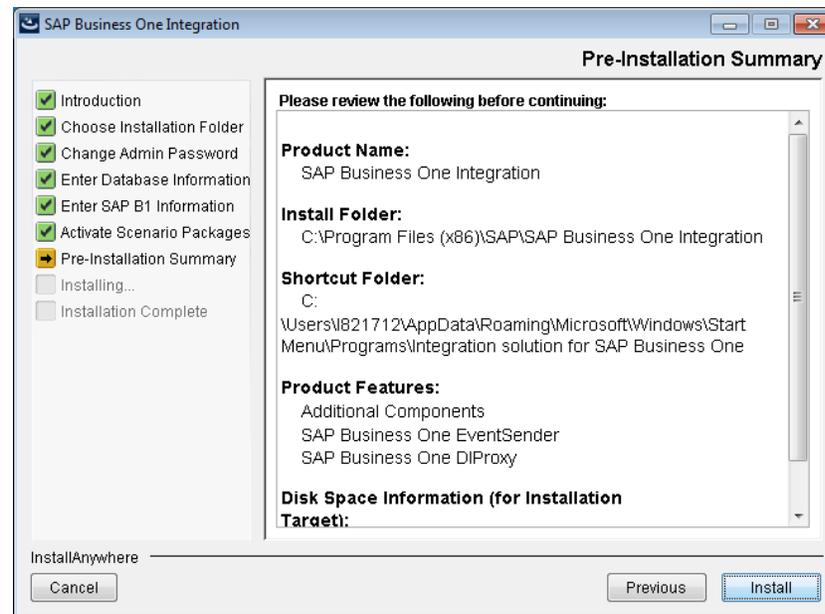
- Make sure to UNCHECK “Integration Framework Service”
- SAP Business One EventSender is **mandatory**
- SAP Business One DI Proxy is **optional**



# Installation Process (Server 2)

## Server 2: EMEA + APJ

- Since the “Integration Framework Service” will not be installed, wizard jumps to the “Summary” screen
- Press Install



# Installation Process

Important: This training does **NOT** include the installation of the components highlighted in **RED** below

## Server 1: Americas

- Microsoft SQL Server
- SAP Business One 9.1 PL X\*
- SAP Business One DI Proxy Service
- SAP Business One EventSender Service
- **Intercompany Add-on (all databases using ICO)**
- SAP Business One Integration Service
- **Intercompany Scenario**

## Server 2: EMEA + APJ

- Microsoft SQL Server
- SAP Business One 9.1 PL X\*
- SAP Business One DI Proxy Service (optional)
- SAP Business One EventSender Service
- **Intercompany Add-on (all databases using ICO)**

\* Same PL for ALL databases in the environment

# Agenda

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- Identifying the Environment
- Installation Process
- **Particularities**
- Q&A

# Particularities

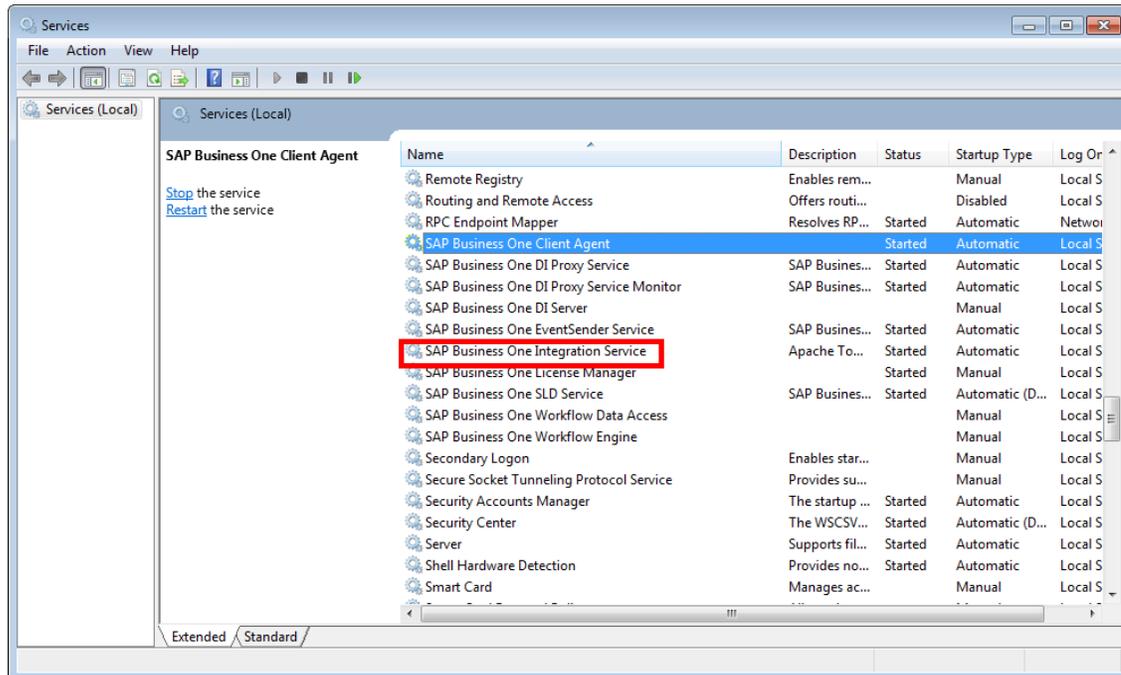
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- All the components must be maintained in the same version and path level
- After the complete installation, EventSender from **server 2** needs to point to Integration Service from **server 1**
- Connections must be working properly for all databases in the SLD (Integration – **server 1**)
- Entries in SLD from **server 2** must be created manually in **server 1**
- The environment will present 2 SBO-Commons (which is OK)
- Only databases necessary for the Intercompany solution need to be created in the integration server
- Important to create a strategy to backup all databases at the same time
- Mixing Intercompany and Multi-branch functionalities is **NOT** supported in the same environment

# Particularities

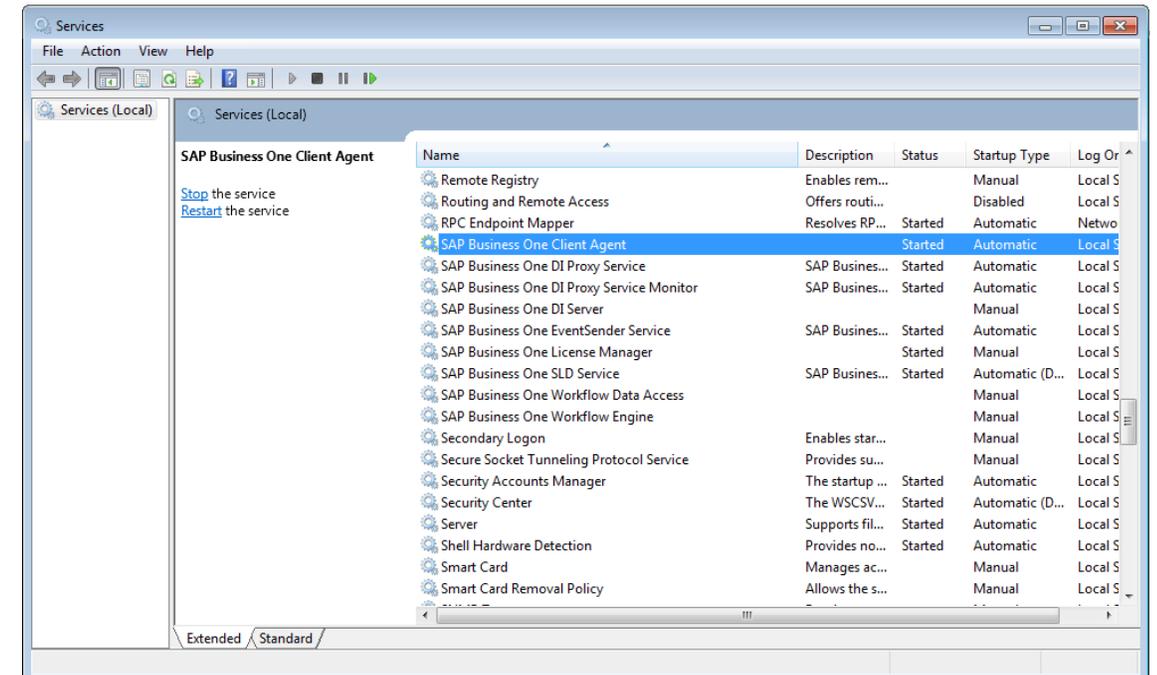
## Server 1: Americas

- SAP Business One Integration Service installed



## Server 2: EMEA + APJ

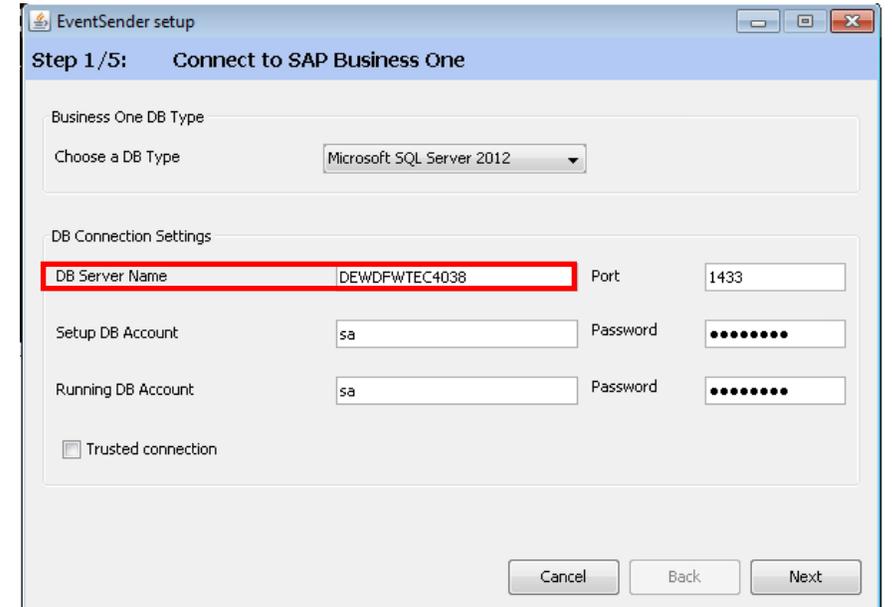
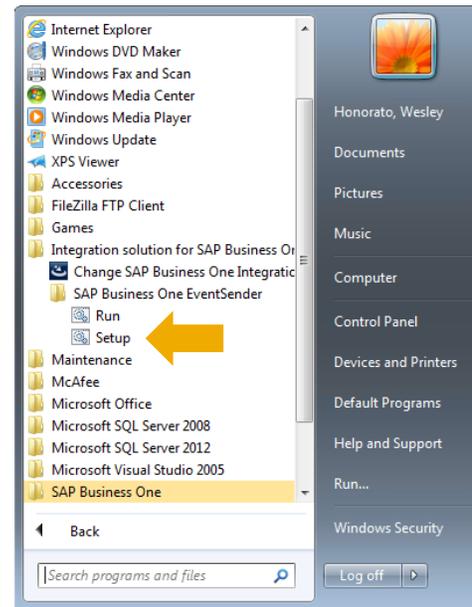
- SAP Business One Integration Service **NOT** installed



# Particularities (Server 2)

## Server 2: EMEA + APJ

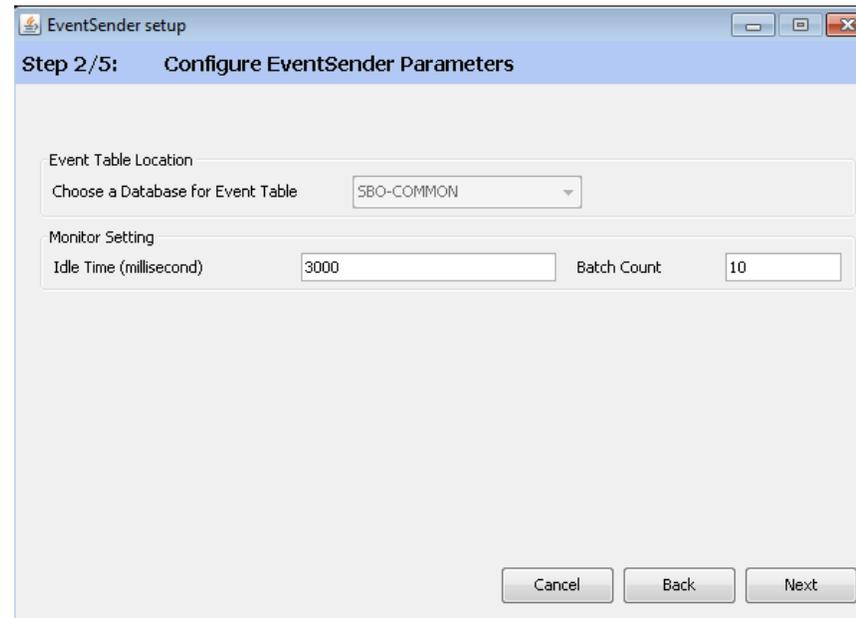
- Start -> All Programs -> Integration Solution for B1 -> SAP Business One EventSender -> Setup
- Select correct DB Type (SQL or HANA)
- Include local server name (from **Server2**)
- SQL password for sa user



# Particularities (Server 2)

## Server 2: EMEA + APJ

- Step 3/5 requires the B1i Server Host and the B1iadmin password
- The information should be retrieved from [server1 \(Americas\)](#)
- Next slides shows how to find the information

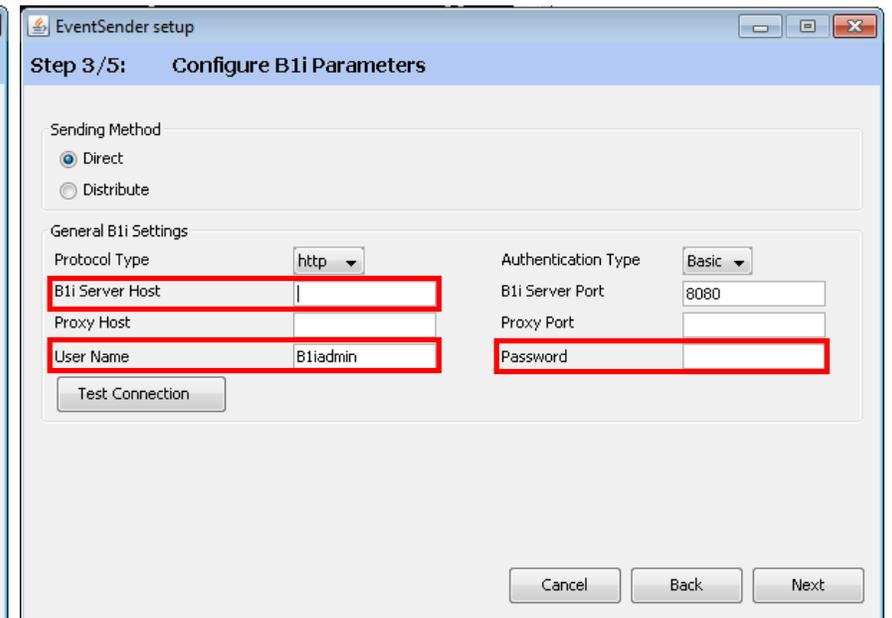


EventSender setup  
Step 2/5: Configure EventSender Parameters

Event Table Location  
Choose a Database for Event Table: SBO-COMMON

Monitor Setting  
Idle Time (millisecond): 3000    Batch Count: 10

Cancel    Back    Next



EventSender setup  
Step 3/5: Configure B1i Parameters

Sending Method  
 Direct  
 Distribute

General B1i Settings  
Protocol Type: http    Authentication Type: Basic  
B1i Server Host: [redacted]    B1i Server Port: 8080  
Proxy Host: [redacted]    Proxy Port: [redacted]  
User Name: B1iadmin    Password: [redacted]

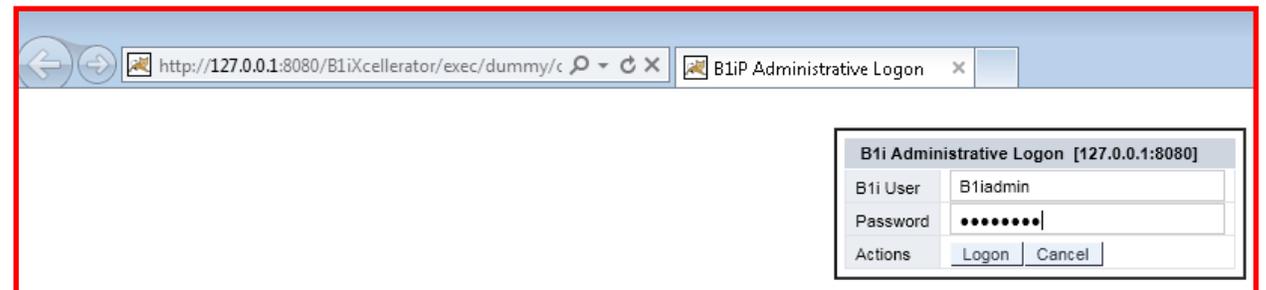
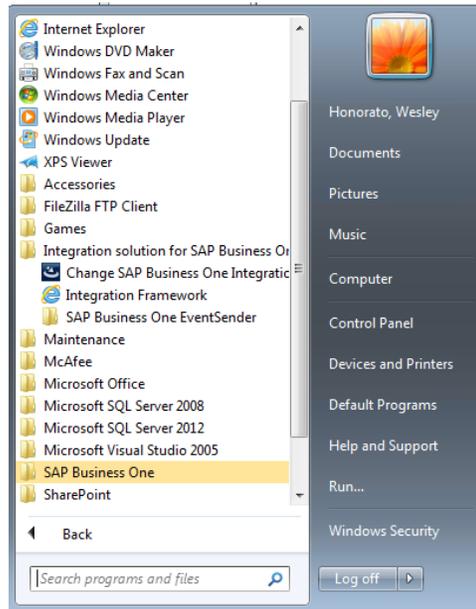
Test Connection

Cancel    Back    Next

# Particularities (Server 1)

## Server 1: Americas

- Retrieving the B1i Server Host to be used in the **server 2** EventSender
- Start -> All Programs -> Integration Solution for B1 -> Integration Framework
- Include the B1i User (B1iadmin) and password of the **server 1**



# Particularities (Server 1)

## Server 1: Americas

- Maintenance -> Cfg Runtime
- Look for Integration Framework Server
- Copy the entire path (i.e.: DEWDFWTEC4003.dhcp.wdf.sap.corp)

Integration solution for SAP Business One  
Integration Framework

SLD Maintenance Scenarios Monitoring Tools Help Duplicate About Logout

Configuration Runtime

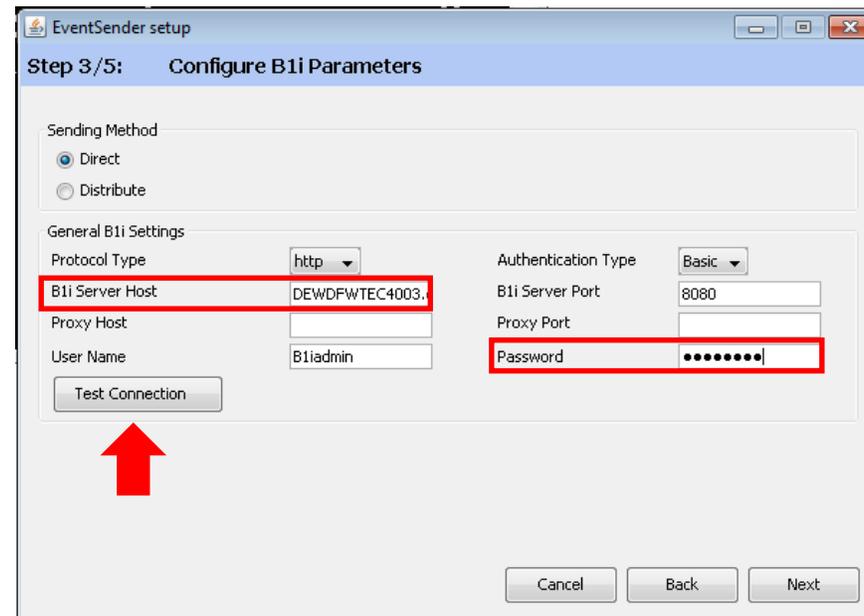
Selection Criteria [127.0.0.1:8080]

Integration Framework HTTP Port	8080
Integration Framework HTTPS Port	8443
Integration Framework Server	DEWDFWTEC4003.dhcp.wdf.sap.corp
Temporary Path	C:\Program Files (x86)\SAP\SAP Business One Integra
Synchronization Mode	No Regulation
Actions	

# Particularities (Server 2)

## Server 2: EMEA + APJ

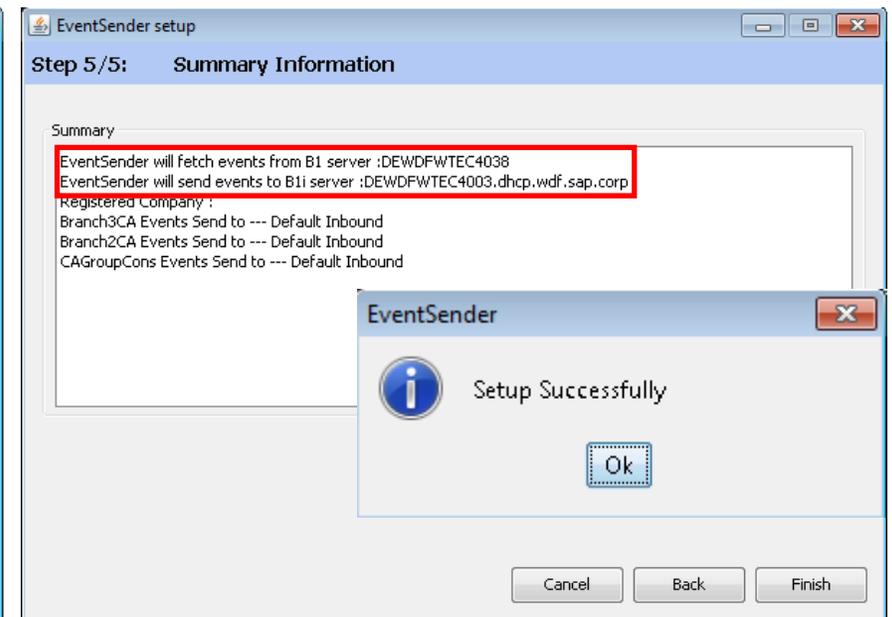
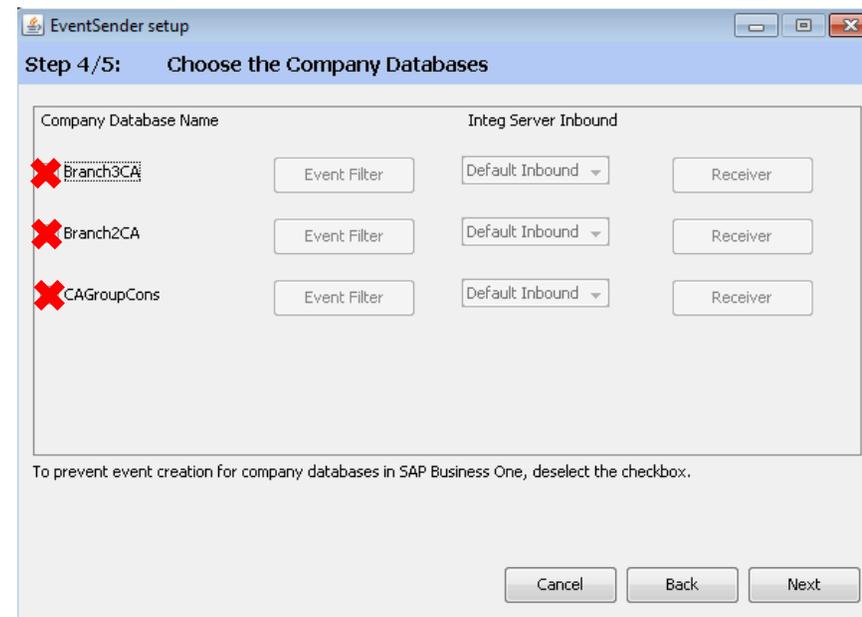
- Copy the “Integration Framework Server” extracted from **server 1** in the “B1i Server Host” field in **server 2**
- Include the B1iadmin password from **server 1 (Americas)**
- Press “Test Connection” to ensure successful message appears



# Particularities (Server 2)

## Server 2: EMEA + APJ

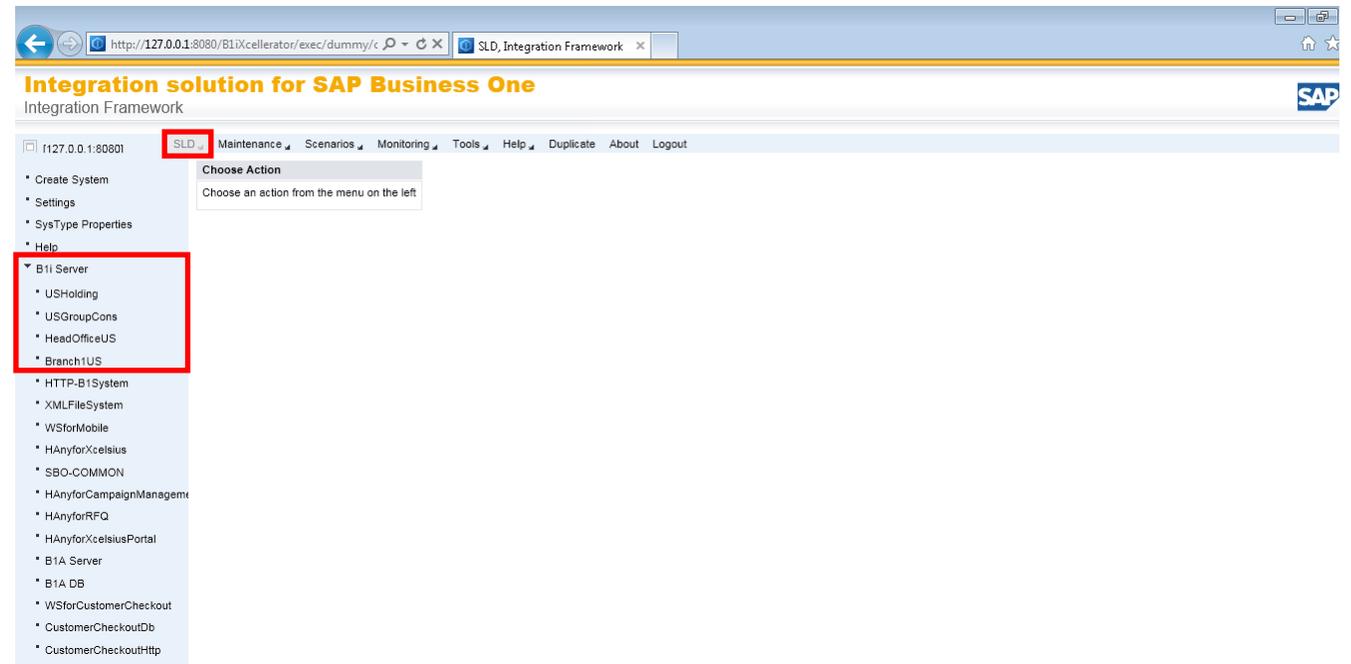
- Select the required databases necessary for the environment
- The databases selected will send event (transactions) to the Integration located in **server 1 (Americas)**
- Step 5/5 shows **B1 Server** from **server 2 (EMEA + APJ)** and **B1i server** from **server 1 (Americas)**
- Process returns a “Setup Successfully” message



# Particularities (Server 1)

## Server 1: Americas

- The database entries in SLD will NOT be created automatically
- User needs to manually create the SLD entries to successfully connect the databases to the Integration server
- 3 DBs will be created (CAGroupCons, Branch2CA and Branch3CA)



# Particularities (Server 1)

## Server 1: Americas

- Select one of the existing companies available in the Integration server
- Press “Copy”
- System returns a message to be confirmed by the user

The screenshot displays the SAP Integration Framework interface. The browser address bar shows the URL `http://127.0.0.1:8080/B1Xcellerator/exec/dummy/c`. The page title is "Integration solution for SAP Business One" and the sub-page is "Integration Framework". The navigation menu includes "Maintenance", "Scenarios", "Monitoring", "Tools", "Help", "Duplicate", "About", and "Logout". The left sidebar shows a tree view with "B11 Server" expanded, and "USHolding" selected and highlighted with a red box. The main content area shows the configuration for "USHolding" with fields for "Type" (B1.9.0), "Name" (USHolding), and "ID" (0010000101). Below this is a "Connectivity List (Active)" section with a "Test Co" button. The list contains various system parameters such as "b1Server", "licenseServer", "company", "dbType", "dbUser", "dbPassword", "userName", "password", "language", "isTrust", "jcoPath", "diProxyhost", "diProxyport", "proxyHost", and "proxyPort". A "Copy" button is highlighted with a red box. A "Message from webpage" dialog box is overlaid on top, containing a question mark icon and the text "Do you really want to make a copy of system USHolding?". The dialog has "OK" and "Cancel" buttons.

# Particularities (Server 1)

## Server 1: Americas

- Relevant information in this step:

- 1) Name;
- 2) B1Server;
- 3) licenseServer
- 4) Company
- 5) SQL password
- 6) B1i password
- 7) diProxyHost
- 8) url from JDBC

The screenshot shows the 'Integration Framework' configuration window for a B1i Server. The 'General Information' tab is active, showing the following fields:

Type	B1.9.0
Name	Branch2CA
ID	0010000105

The 'Connectivity List (Active)' tab is also active, showing the following fields:

B1DI	
b1Server	DEWDFWTEC4038
licenseServer	DEWDFWTEC4038:30000
company	
dbType	Microsoft SQL Server 2012
dbUser	sa
dbPassword	.....
userName	B1i
password	.....
language	English(US)
isTrust	false
jcoPath	
diProxyhost	DEWDFWTEC4038
diProxyport	2099
proxyHost	
proxyPort	

The 'JDBC' tab is also active, showing the following fields:

driver	com.microsoft.sqlserver.jdbc.SQLServer
url	jdbc:sqlserver://DEWDFWTEC4038:1433
username	sa

# Particularities (Server 1)

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## Server 1: Americas

- Relevant information in this step:

- 1) Name: Branch2CA - *created manually* (normally the DB name available in **server 2**)
- 2) B1Server: DEWDFWTEC4038:30000 (from **Server 2**)
- 3) licenseServer: DEWDFWTEC4038:30000 (from **Server 2**)
- 4) Company: Branch2CA - *created manually* (normally the DB name available in **server 2**)
- 5) SQL password: password from SQL available in **server 2**
- 6) B1i password: password from B1i user in SAP Business One (**server 2**)
- 7) diProxyHost: DEWDFWTEC4038 (either from **server 1** or **server 2**)
- 8) url from JDBC: jdbc:sqlserver://**DEWDFWTEC4038**:1433;integratedSecurity=false;databaseName=**Branch2CA**;selectMethod=cursor

- **Apply the same process for ALL databases necessary in the Integration server**

# Particularities (Server 1)

## Server 1: Americas

- Make sure the connections works for ALL databases (especially the DBs located in **server 2**)
- For troubleshooting refer to note [1619422](#)

The screenshot displays the SAP Integration Framework interface. On the left, a tree view shows the system hierarchy under 'B11 Server', with 'HeadOfficeUS' highlighted in red. The main area shows the configuration for 'HeadOfficeUS', including 'General Information' (Type: B1.9.0, Name: HeadOfficeUS, ID: 0010000103) and 'Connectivity List (Active)'. The 'B1DI' section is expanded, showing fields for b1Server, licenseServer, company, dbType, dbUser, dbPassword, userName, password, language, isTrust, jcoPath, diProxyhost, diProxyport, proxyHost, and proxyPort. The 'JDBC' section is also expanded, showing the driver 'com.microsoft.sqlserver.jdbc.SQLServer'. Two 'Test Connection' dialog boxes are open, both showing 'Connect to HeadOfficeUS(B1DI) successfully' and 'Connect to HeadOfficeUS(JDBC) successfully'.

# Particularities

## Server 1 and Server 2

- Follow the normal Intercompany Integration Solution Installation
- Scenario is ONLY installed in **Server 1 (Americas)**
- Initialization Wizard (**step 7**) requires details from B1i server



# Particularities (Upgrade)

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## Server 2: EMEA + APJ

- When upgrading the databases in **Server 2** user get the error message:  
"Microsoft SQL Server JDBC Driver "
- Make sure the Integration components of **Server 1** were stopped
- Refer to note [1605253](#)



# Questions



# Thank you

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**Business One North America**

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