

SAP Business One

Managing Intercompany 2.0 in Different Servers

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April 16, 2015

Agenda

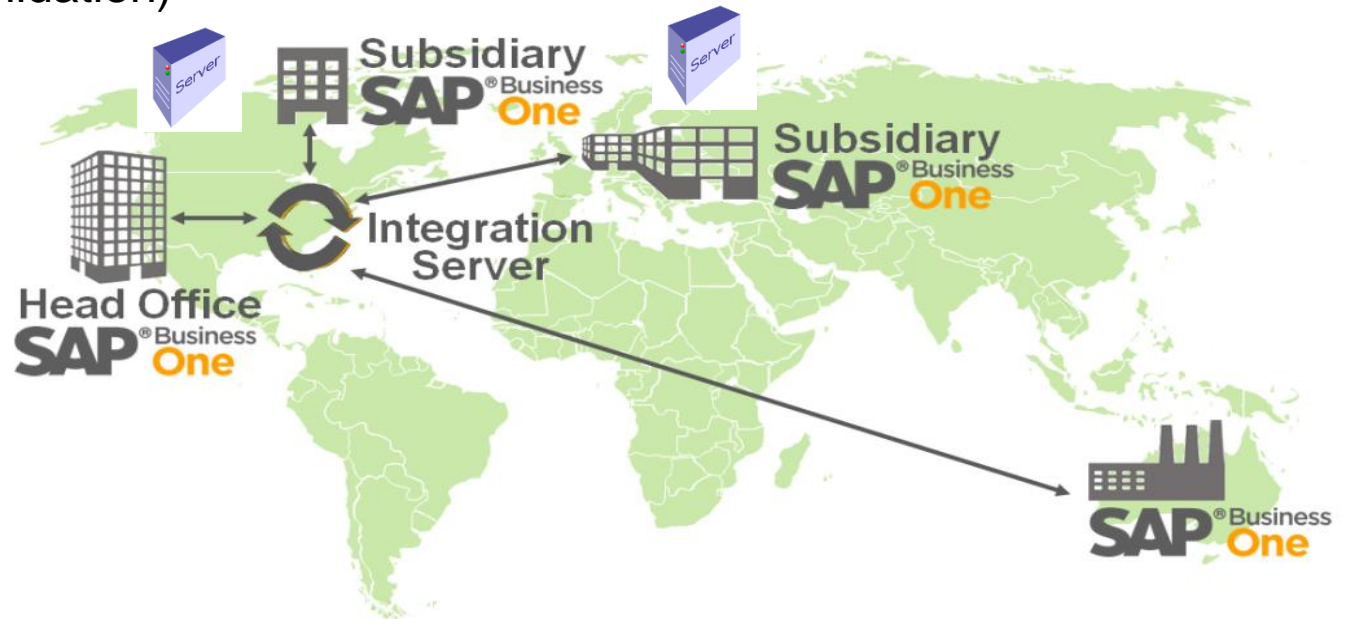
- Identifying the Environment
- Installation Process
- Particularities
- Q&A

Agenda

- **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)

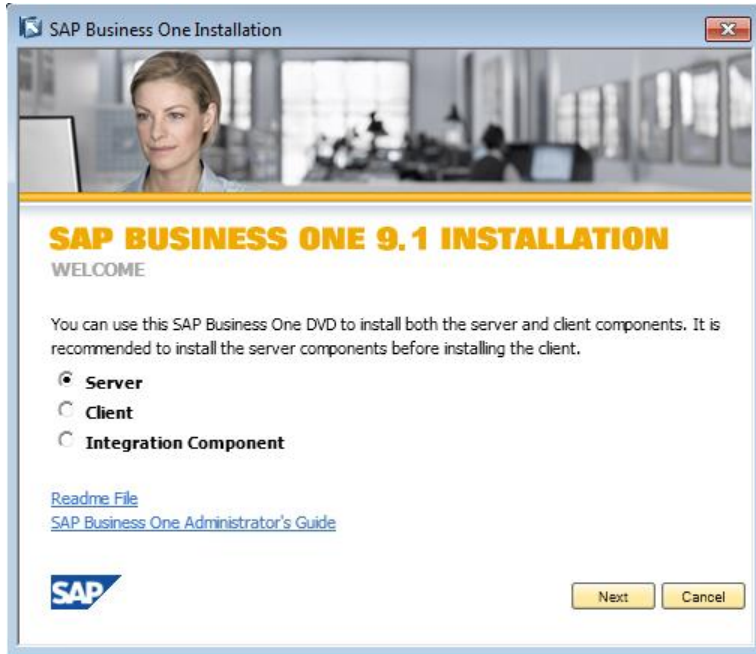
** Same PL for ALL databases in the environment*

Agenda

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

Installation Process

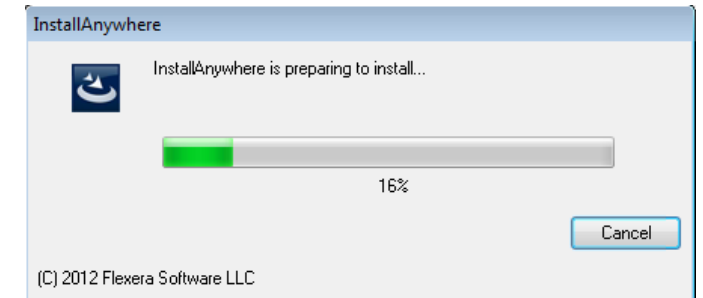
Important: SAP Business One 9.1 Server and Client Components are already installed in the customer's environment



Installation Process (Server 1)

Server 1: Americas

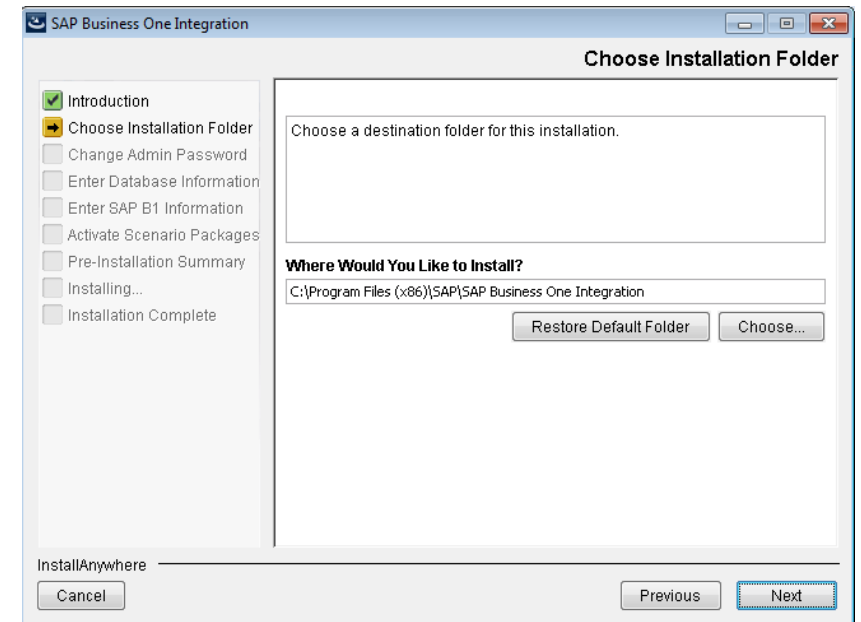
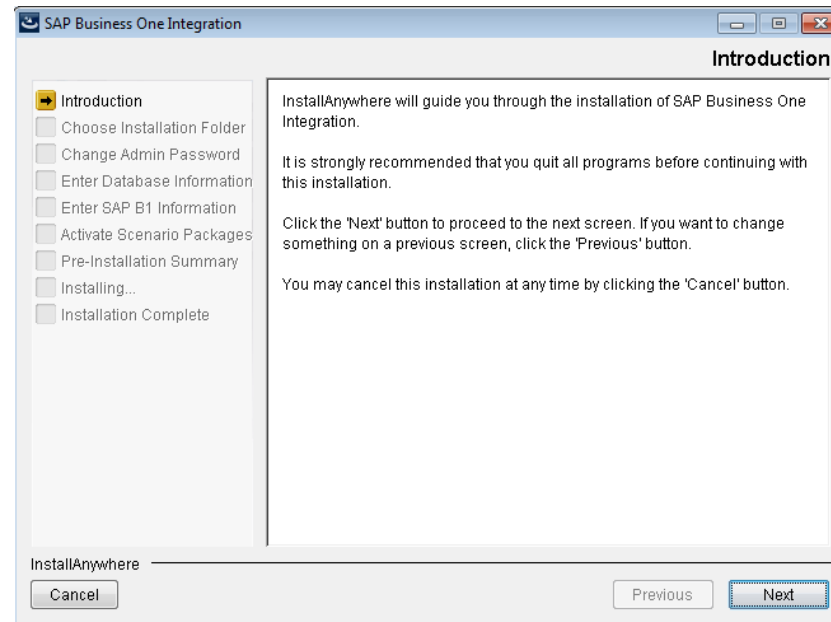
- From the SAP Business One package, install the Integration Solution Components



Installation Process (Server 1)

Server 1: Americas

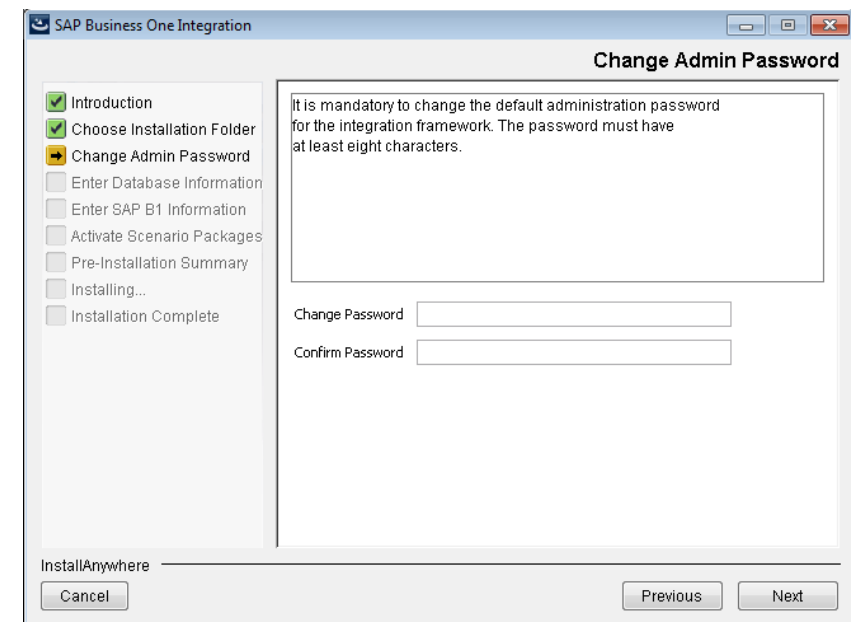
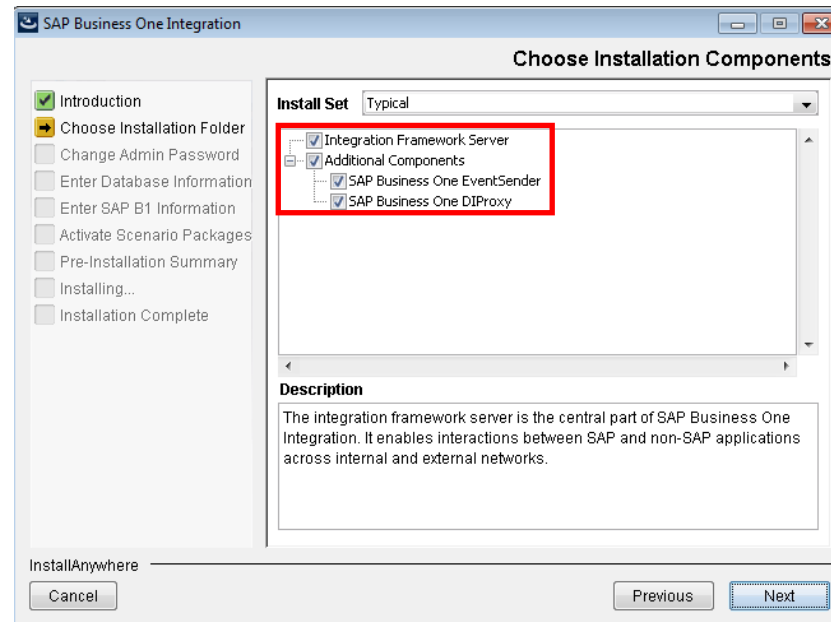
- Define a path where you want the integration to be installed



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

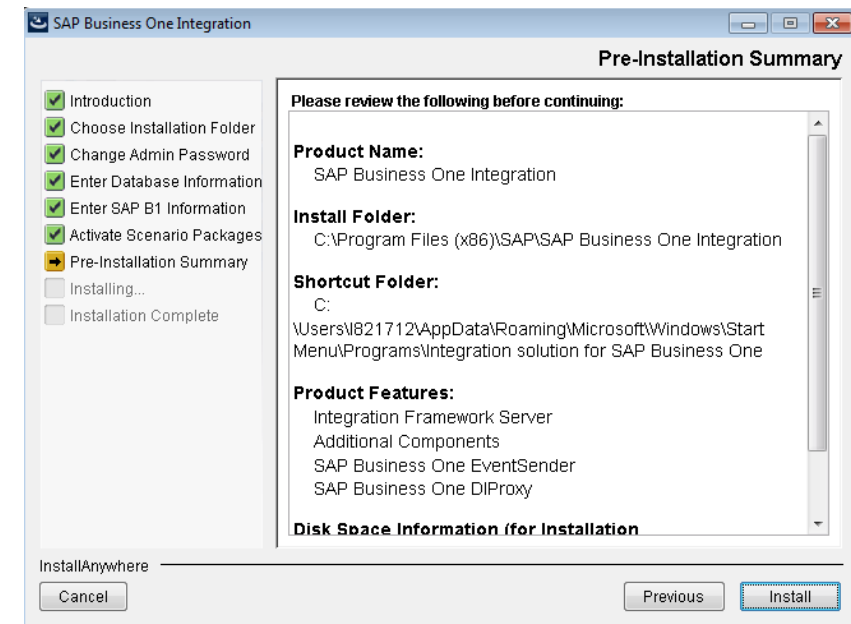
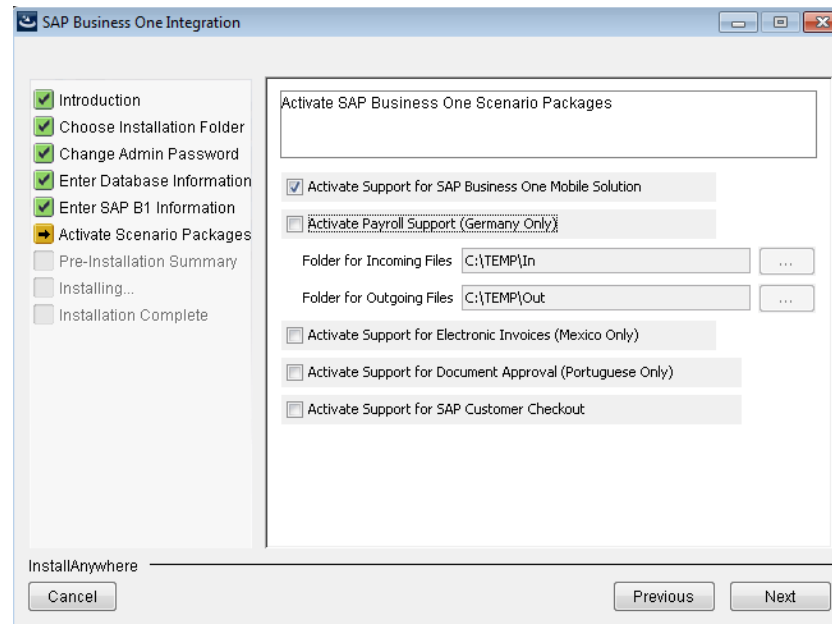
The screenshot shows the 'Enter Database Connection Parameters' window. On the left, a list of installation steps is shown with checkboxes: Introduction (checked), Choose Installation Folder (checked), Change Admin Password (checked), Enter Database Information (checked and highlighted with a yellow arrow), Enter SAP B1 Information (unchecked), Activate Scenario Packages (unchecked), Pre-Installation Summary (unchecked), Installing... (unchecked), and Installation Complete (unchecked). The main area contains fields for: Database Type (SQL Server 2012), Database Server (DEWDFWTEC4003), Database Port (1433), Database Name (IFSERY), Database User Name (sa), and Database Password (masked with dots). At the bottom, there are 'Cancel', 'Previous', and 'Next' buttons.

The screenshot shows the 'SAP Business One Common DB Information' window. On the left, the same list of installation steps is shown, with 'Enter Database Information' checked and highlighted. The main area contains fields for: SAP Business One Common DB Information (title bar), On Premise (selected radio button), On Demand (unselected radio button), Database Type (SQL Server 2012), B1 Server (DEWDFWTEC4003), Database Port (1433), License Server (DEWDFWTEC4003:30000), Database User Name (sa), Database Password (masked with dots), 32bit (unselected radio button), 64bit(Recommended) (selected radio button), B1DI JCO PATH (C:\Program Files\SAP\SAP Business One DI API\JCO\LIB), B1i User Name (B1i), and B1i Password (masked with dots). At the bottom, there are 'Cancel', 'Previous', and 'Next' buttons.

Installation Process (Server 1)

Server 1: Americas

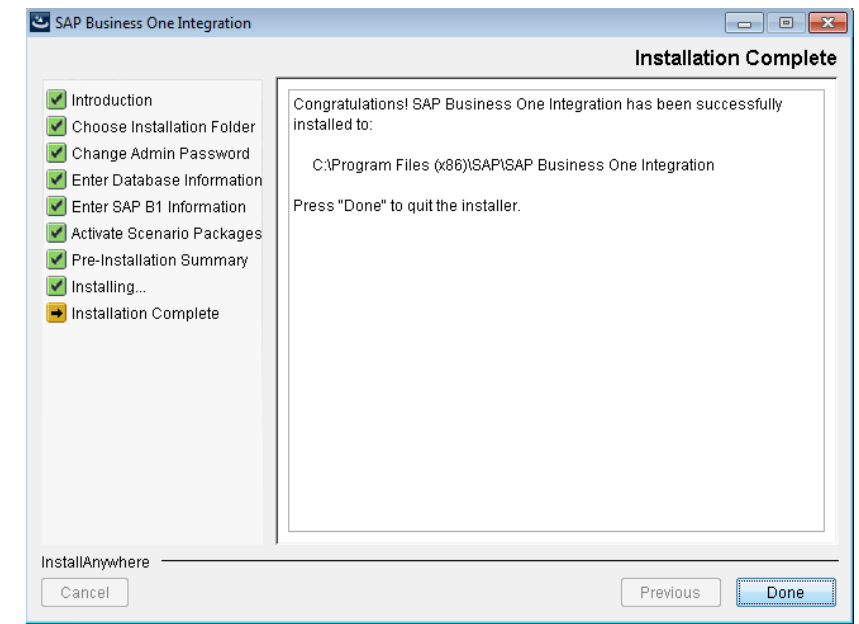
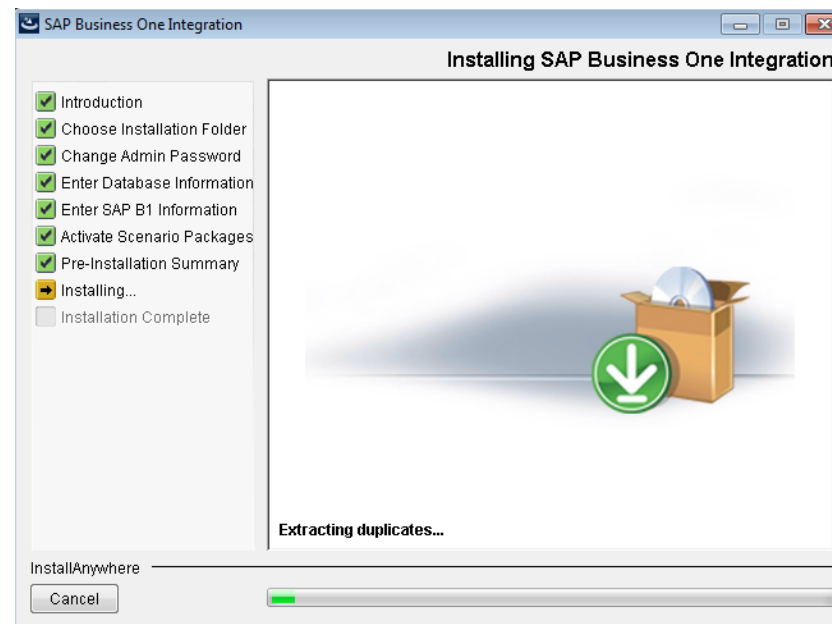
- Activate the desired packages (i.e. Mobile)
- Verify the summary and Install the Integration package



Installation Process (Server 1)

Server 1: Americas

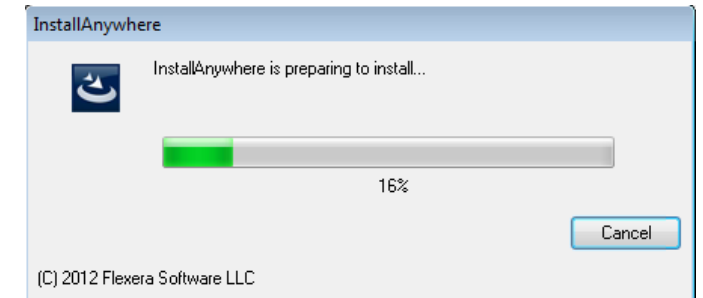
- Start the installation process
- Make sure to complete the installation properly



Installation Process (Server 2)

Server 2: EMEA + APJ

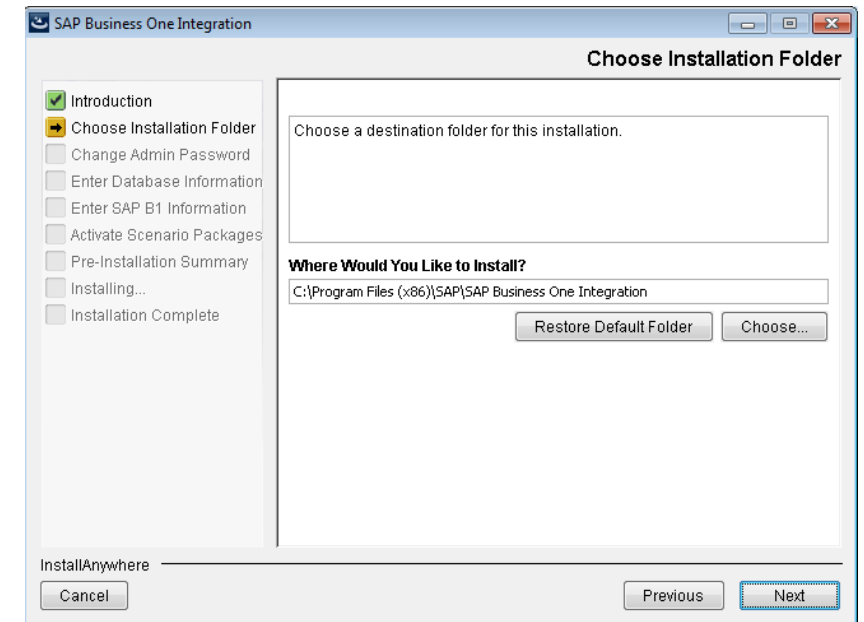
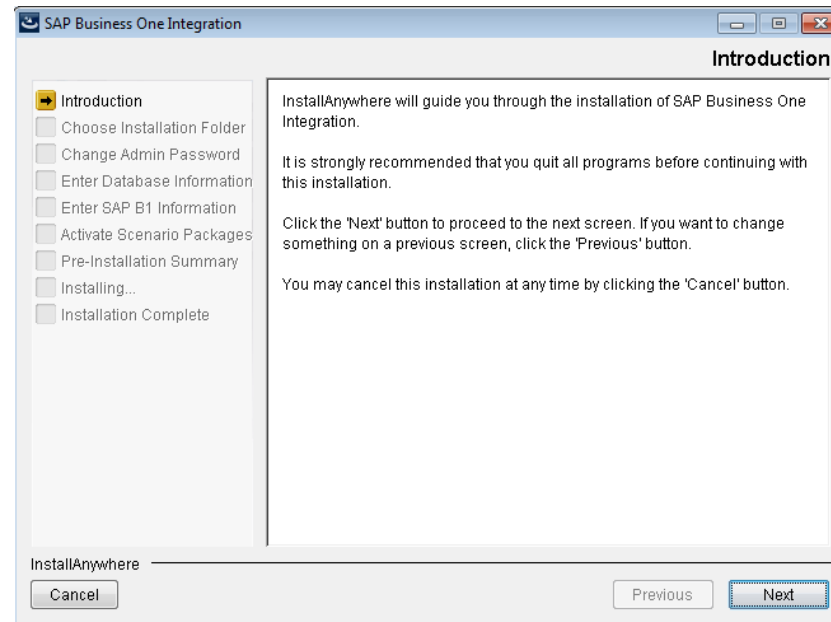
- From the SAP Business One package, install the Integration Solution Components



Installation Process (Server 2)

Server 2: EMEA + APJ

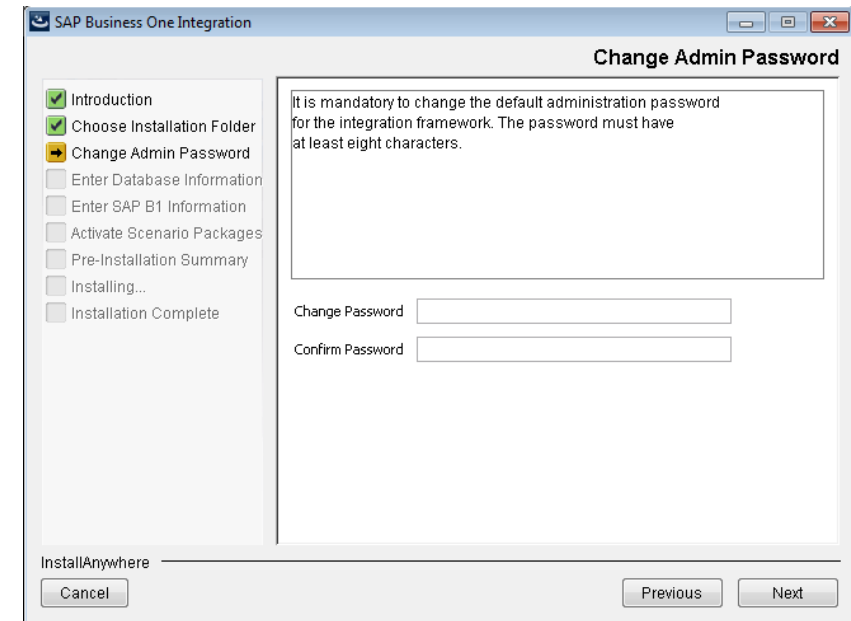
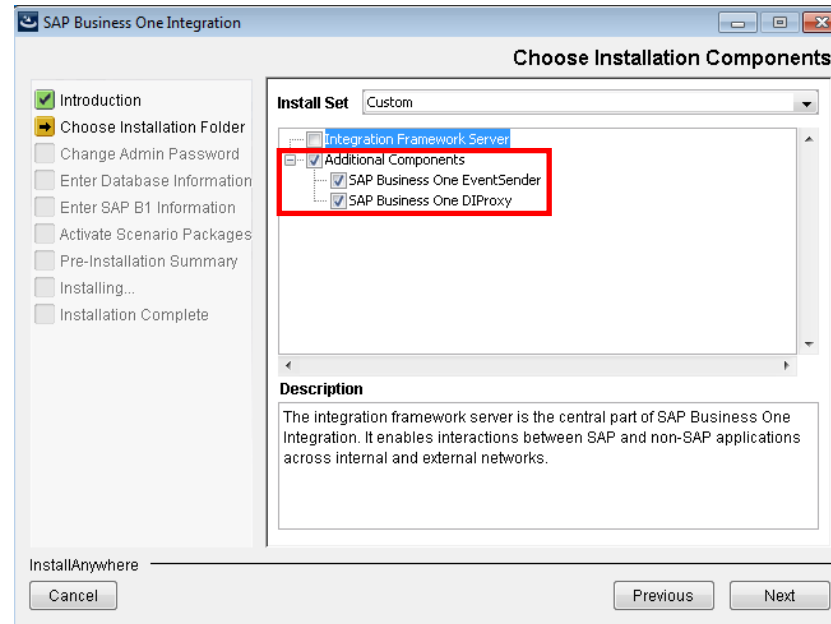
- Define a path where you want the integration to be installed



Installation Process (Server 2)

Server 2: EMEA + APJ

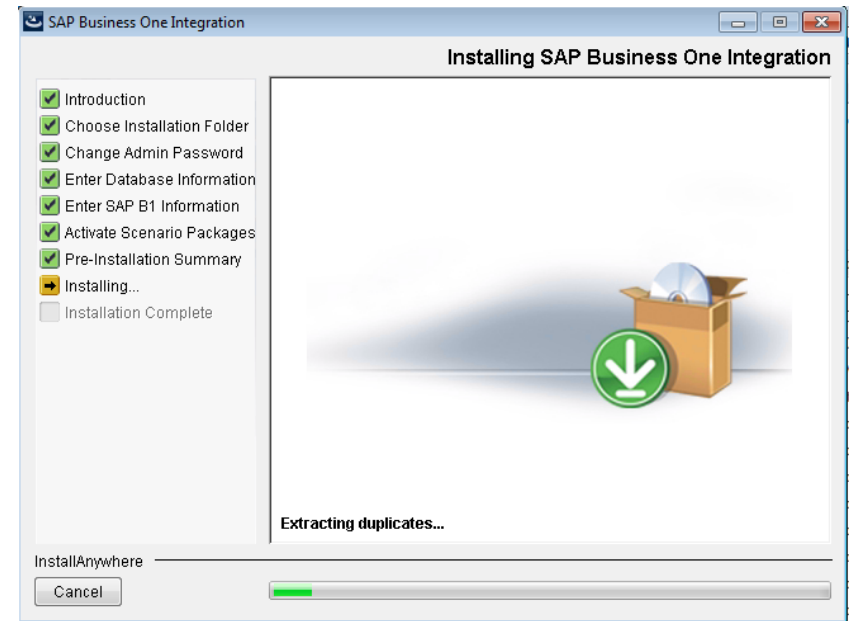
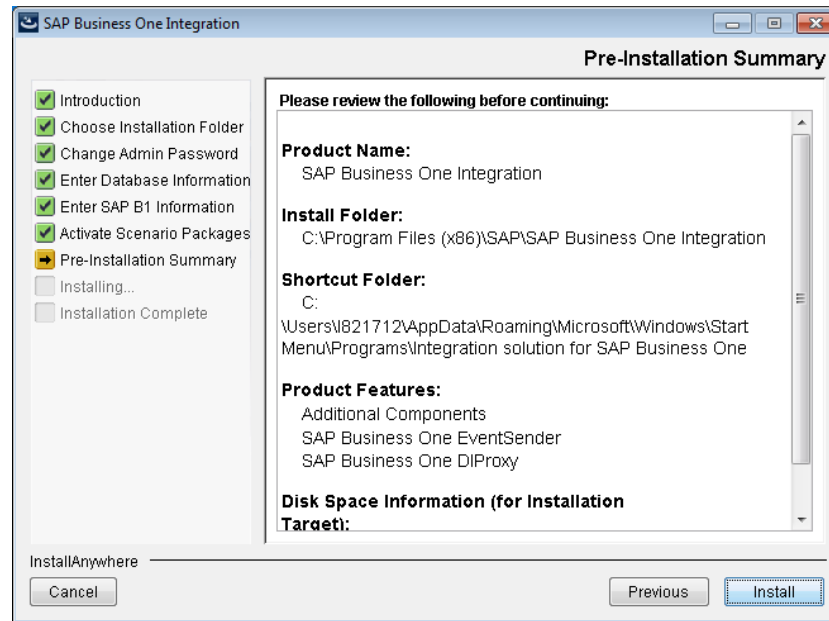
- Make sure to UNCHECK “Integration Framework Service”
- SAP Business One EventSender is **mandatory**
- SAP Business One DI Proxy is **optional**



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

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

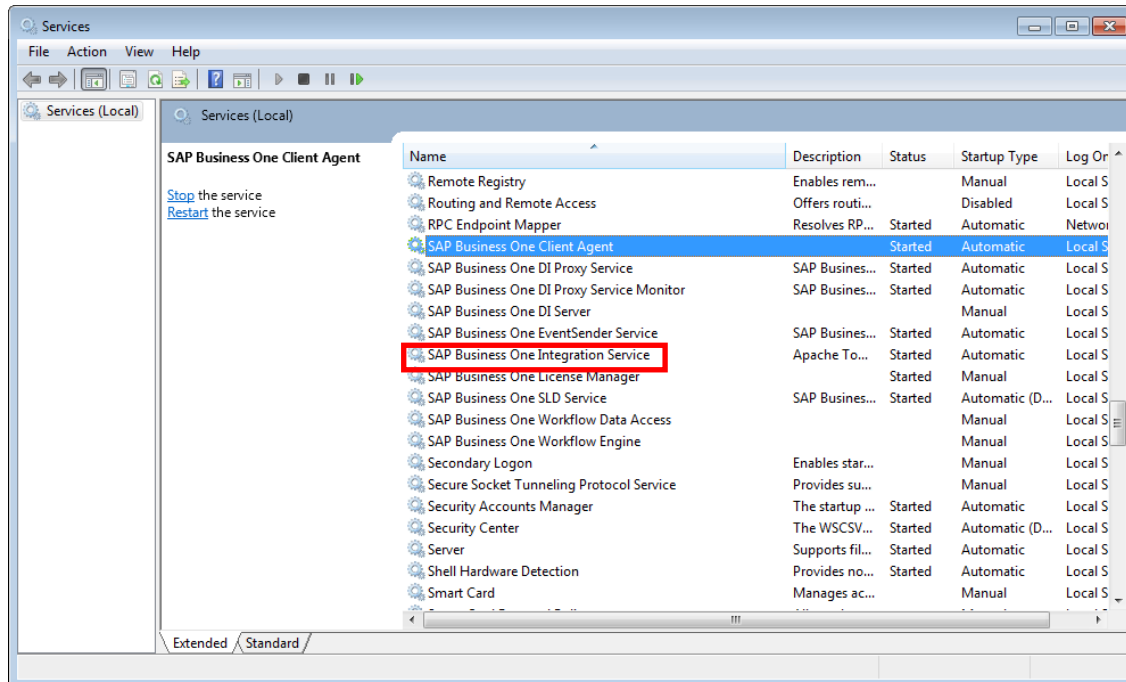
Particularities

- 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

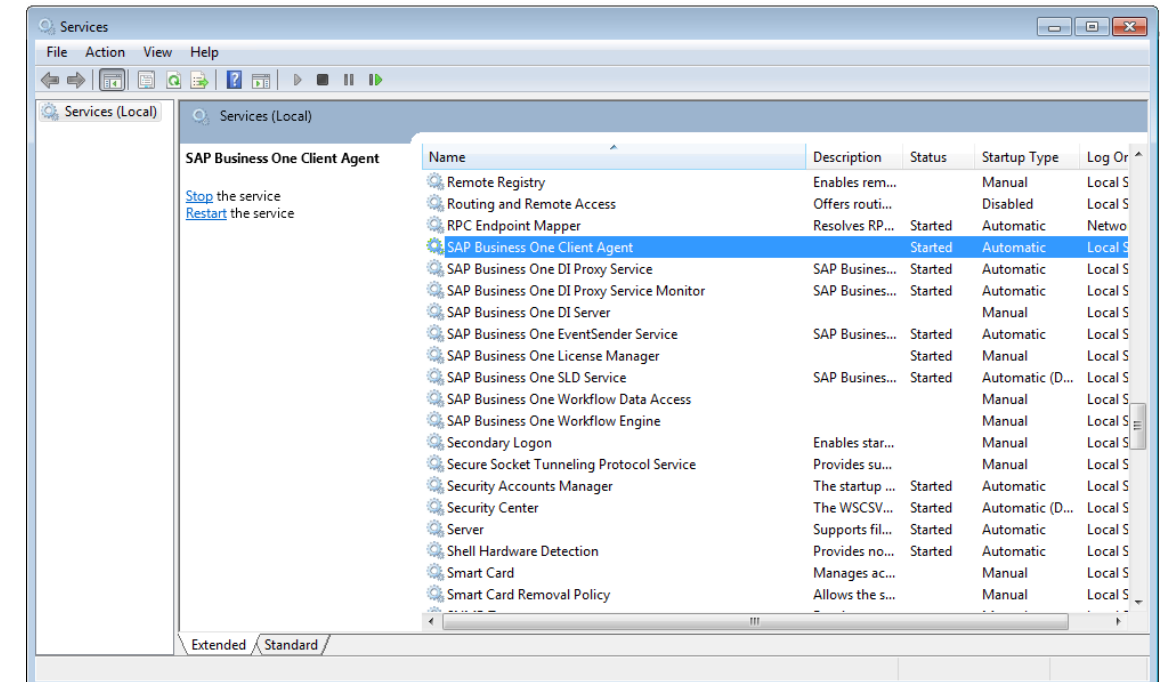
Server 1: Americas

- SAP Business One Integration Service installed



Server 2: EMEA + APJ

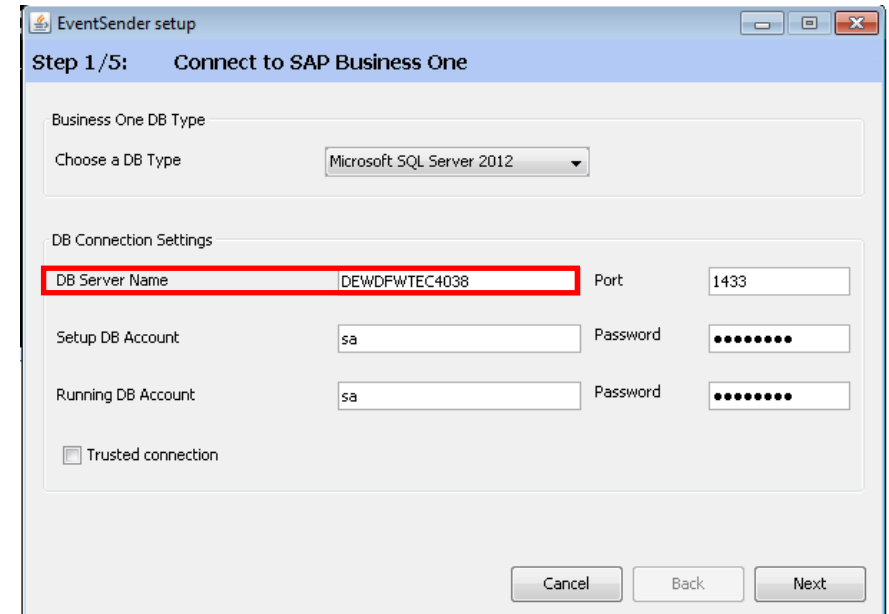
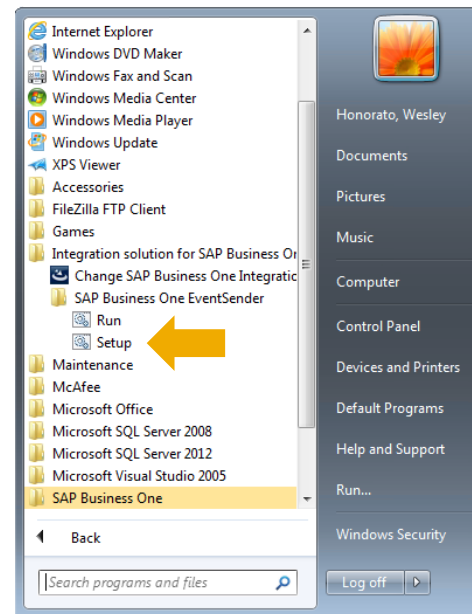
- SAP Business One Integration Service **NOT** installed



Particularities (Server 2)

Server 2: EMEA + APJ

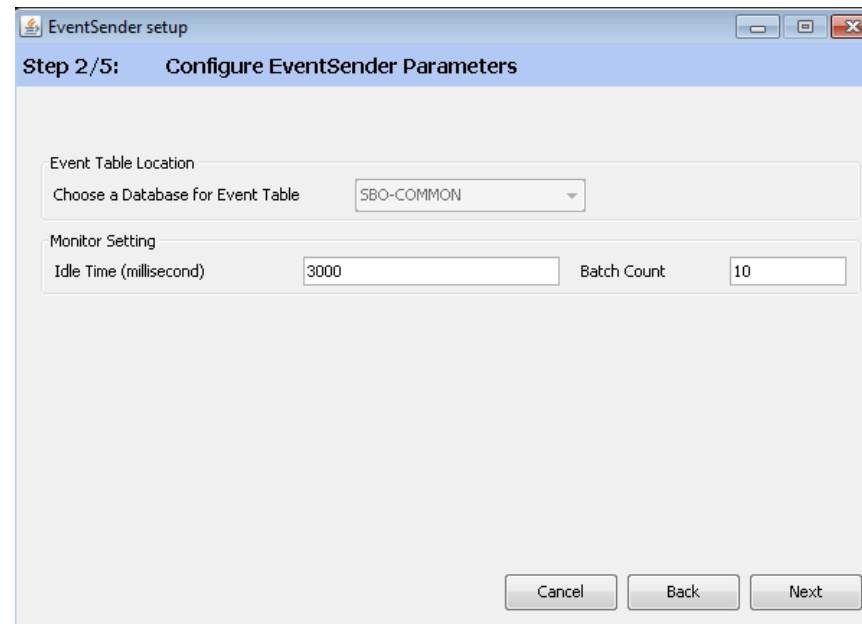
- Start -> All Programs -> Integration Solution for B1 -> SAP Business One EventSender -> Setup
- Select correct DB Type (SQL or HANA)
- Include local server name (from **Server2**)
- SQL password for sa user



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

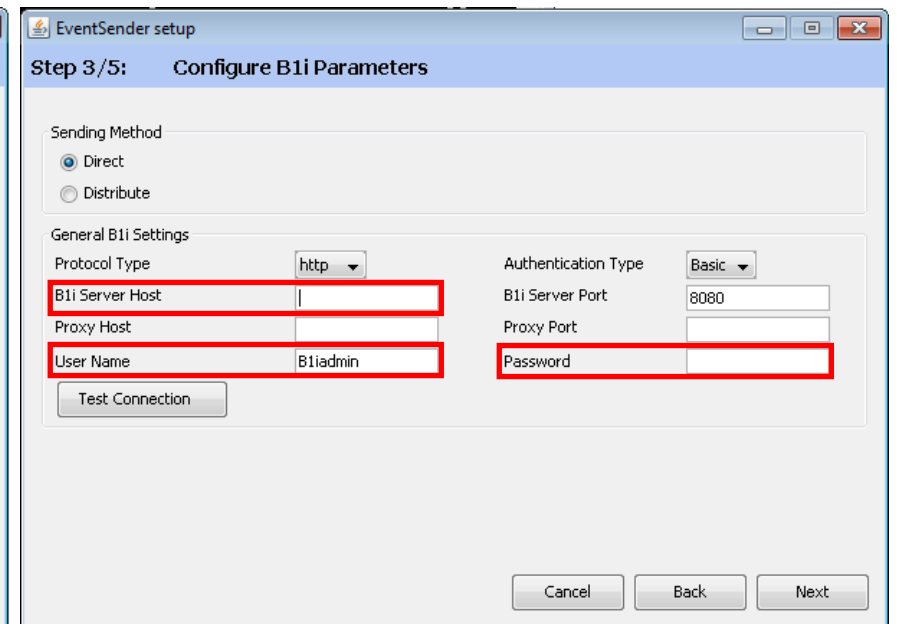
Choose a Database for Event Table: SBO-COMMON

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

B1i Server Host:

Proxy Host:

User Name: B1iadmin

Authentication Type: Basic

B1i Server Port: 8080

Proxy Port:

Password:

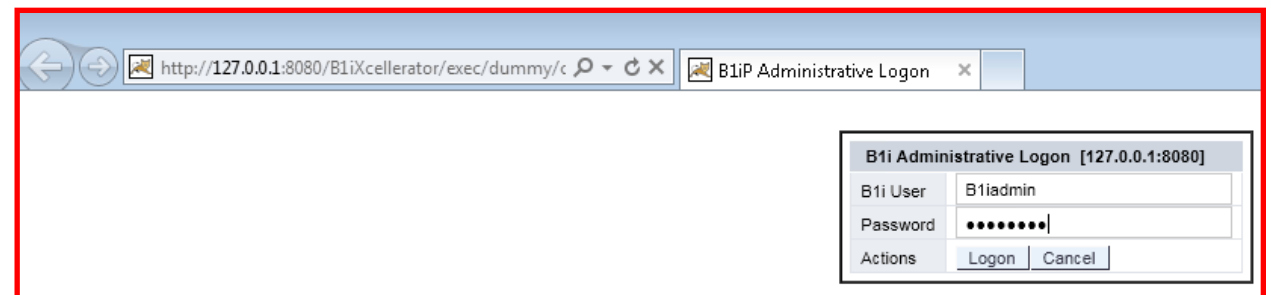
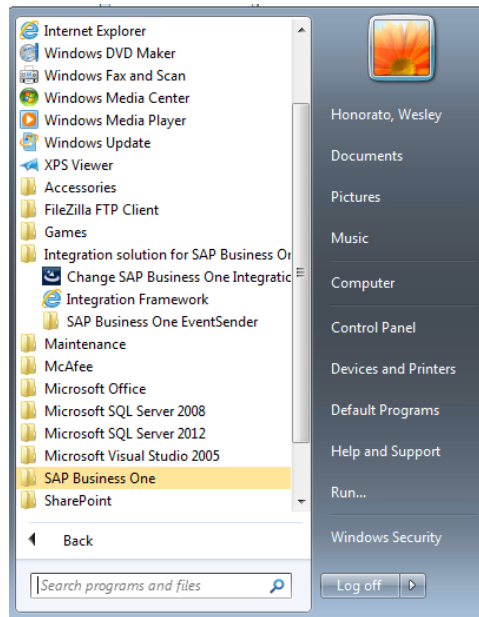
Test Connection

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)

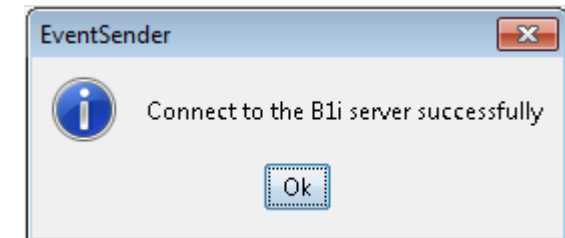
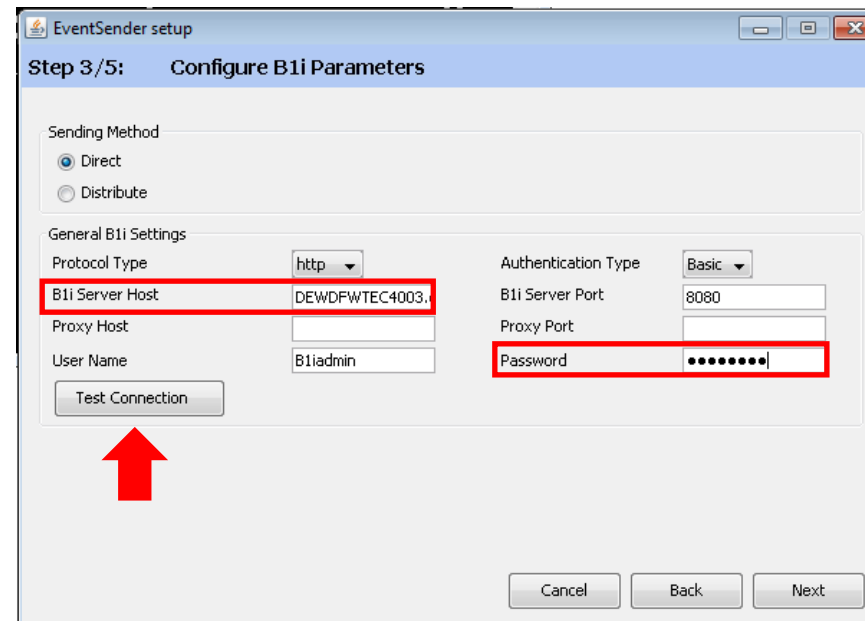
The screenshot shows the SAP Integration Framework Maintenance console. The browser address bar indicates the URL: `http://127.0.0.1:8080/B1iXcellerator/exec/dummy/c`. The page title is "Integration solution for SAP Business One". The main navigation bar includes tabs: SLD, Maintenance, Scenarios, Monitoring, Tools, Help, Duplicate, About, and Logout. The left sidebar shows a tree view with the following items: System Info, ZIP Import, Cfg Dev Env., Cfg Runtime (highlighted with a red arrow), Cfg Connectivity, Cfg SAP II, Cfg Metadata, and Cfg B1 Cloud. The main content area displays the "Configuration Runtime" configuration for the "Selection Criteria [127.0.0.1:8080]". The configuration table is as follows:

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	[Icons]

Particularities (Server 2)

Server 2: EMEA + APJ

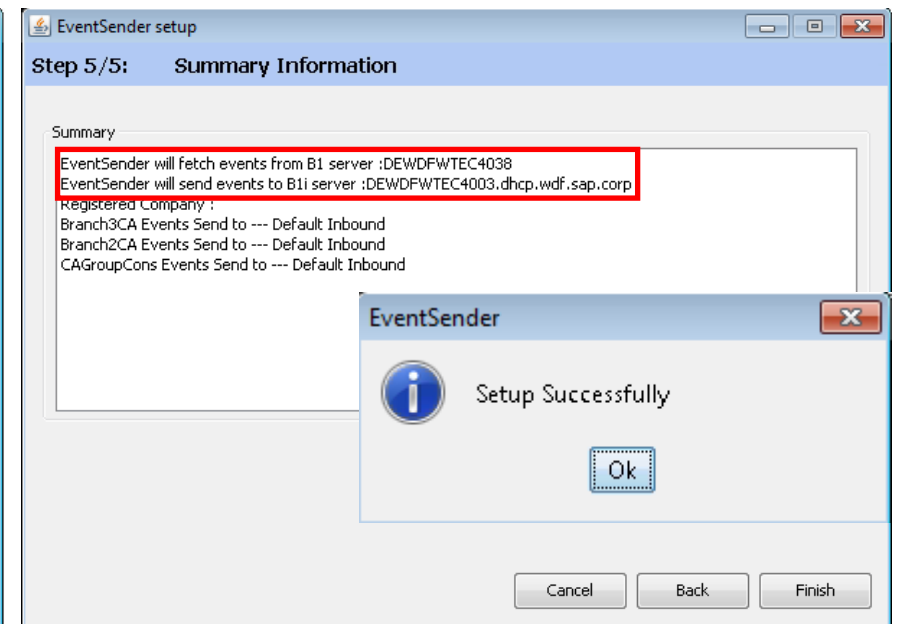
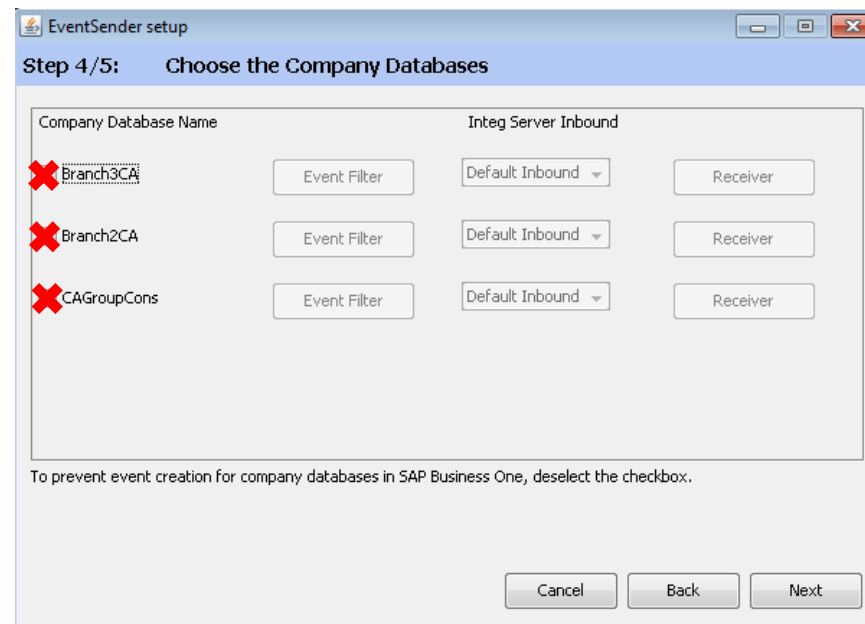
- Copy the “Integration Framework Server” extracted from **server 1** in the “B1i Server Host” field in **server 2**
- Include the B1iadmin password from **server 1 (Americas)**
- Press “Test Connection” to ensure successful message appears



Particularities (Server 2)

Server 2: EMEA + APJ

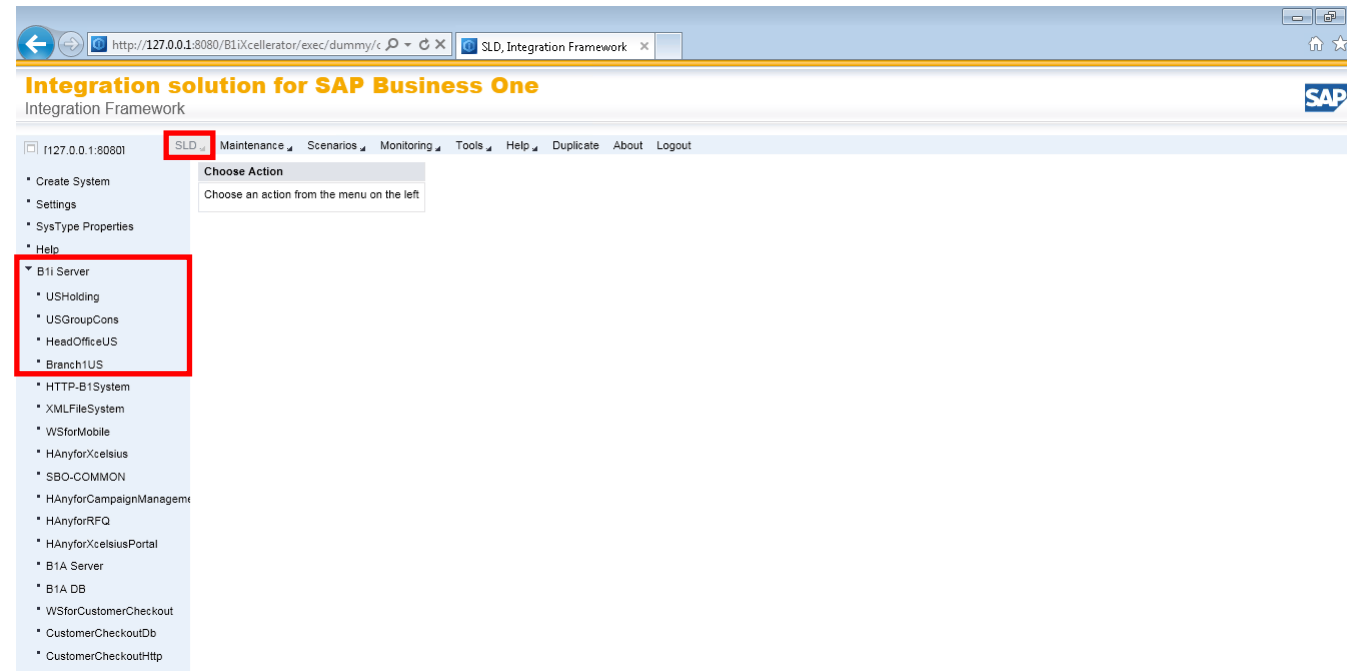
- Select the required databases necessary for the environment
- The databases selected will send event (transactions) to the Integration located in **server 1 (Americas)**
- Step 5/5 shows **B1 Server** from **server 2 (EMEA + APJ)** and **B1i server** from **server 1 (Americas)**
- Process returns a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



Particularities (Server 1)

Server 1: Americas

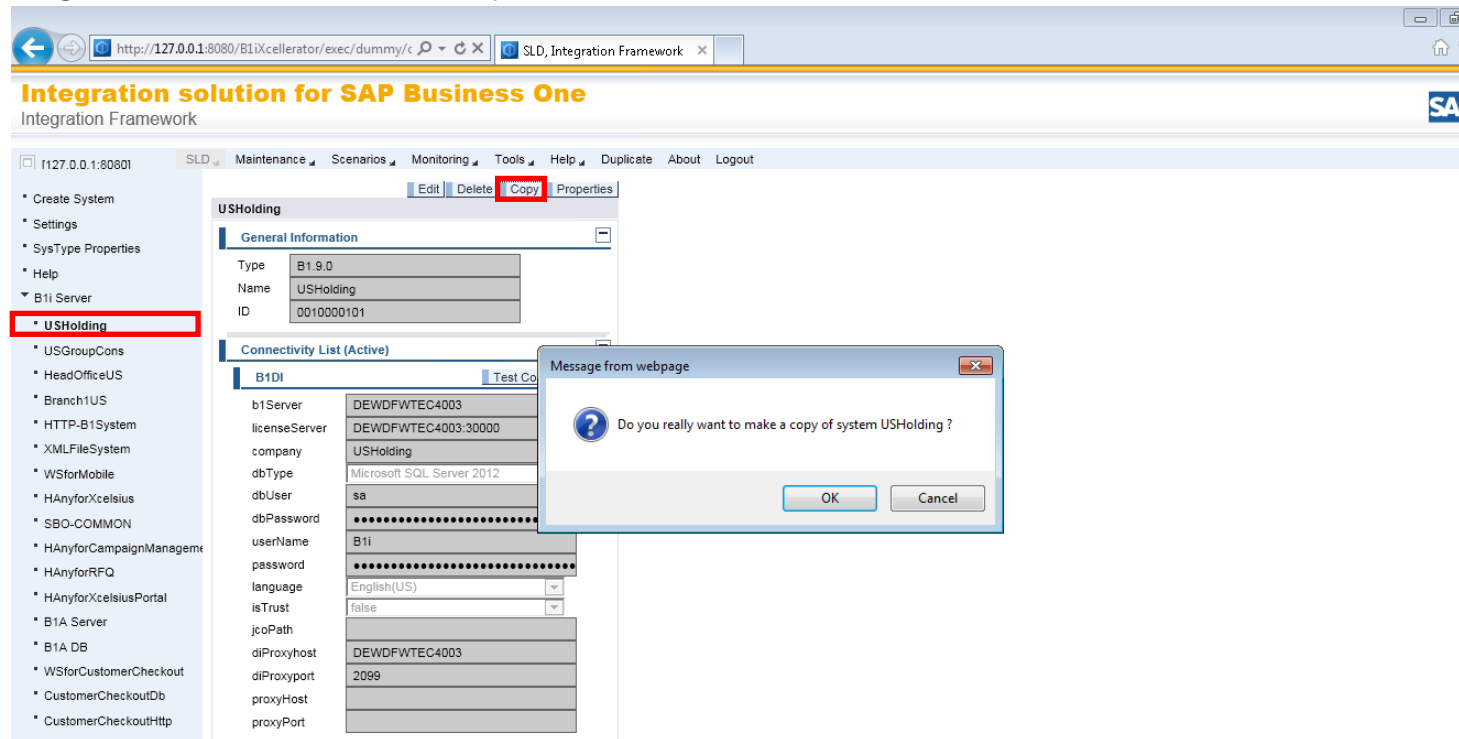
- The database entries in SLD will NOT be created automatically
- User needs to manually create the SLD entries to successfully connect the databases to the Integration server
- 3 DBs will be created (CAGroupCons, Branch2CA and Branch3CA)



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



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 'Branch2CA'. The left sidebar lists various system components, with 'Branch2CA' selected. The main panel displays the 'General Information' tab, which contains the following fields:

- Type: B1.9.0
- Name: Branch2CA (highlighted with a red box)
- ID: 0010000105

Below the general information is the 'Connectivity List (Active)' tab, which contains the following fields:

- B1Server: DEWDFWTEC4038 (highlighted with a red box)
- licenseServer: DEWDFWTEC4038:30000 (highlighted with a red box)
- company: (highlighted with a red box)
- dbType: Microsoft SQL Server 2012
- dbUser: sa
- dbPassword: (highlighted with a red box)
- userName: B1i
- password: (highlighted with a red box)
- language: English(US)
- isTrust: false
- jcoPath: (highlighted with a red box)
- diProxyhost: DEWDFWTEC4038 (highlighted with a red box)
- diProxyport: 2099
- proxyHost: (highlighted with a red box)
- proxyPort: (highlighted with a red box)

At the bottom is the 'JDBC' tab, which contains the following fields:

- driver: com.microsoft.sqlserver.jdbc.SQLServerDriver
- url: jdbc:sqlserver://DEWDFWTEC4038:1433 (highlighted with a red box)
- username: sa

Particularities (Server 1)

Server 1: Americas

- Relevant information in this step:

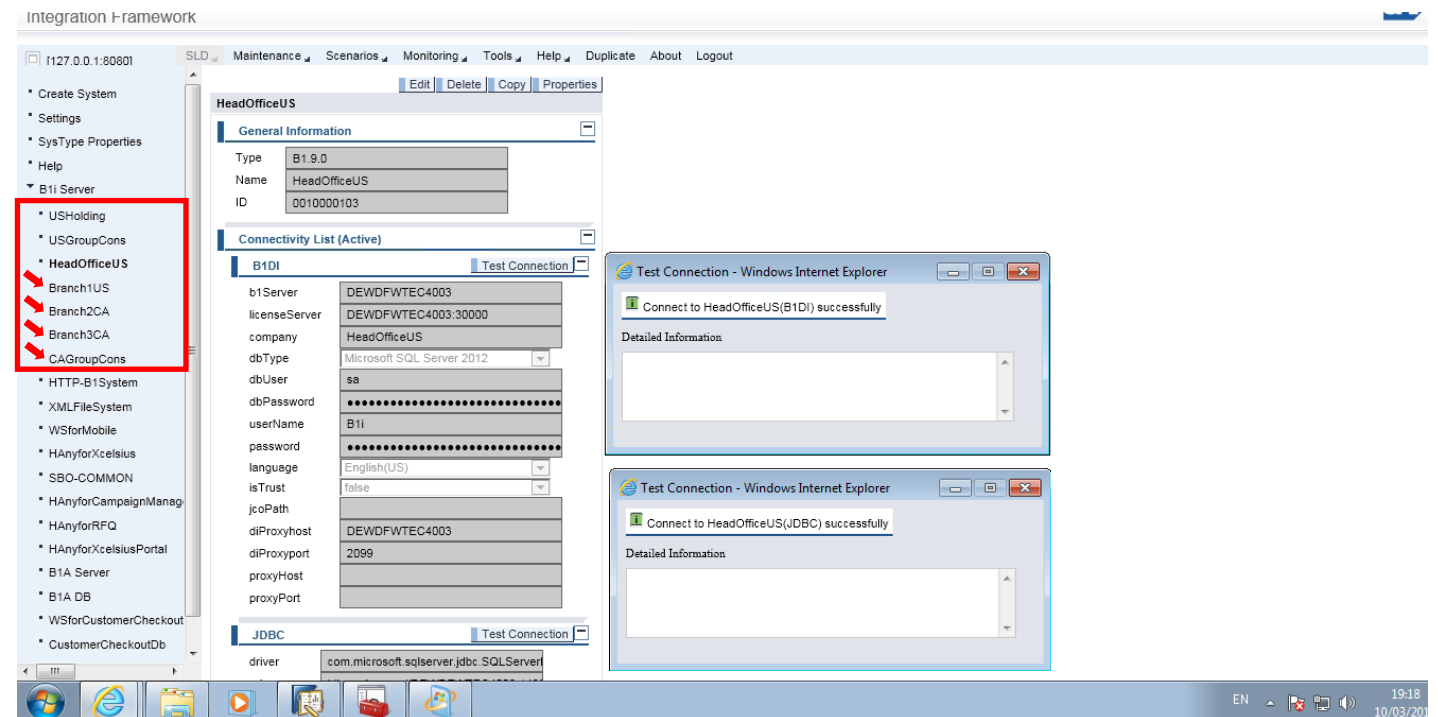
- 1) Name: Branch2CA - *created manually* (normally the DB name available in **server 2**)
- 2) B1Server: DEWDFWTEC4038:30000 (from **Server 2**)
- 3) licenseServer: DEWDFWTEC4038:30000 (from **Server 2**)
- 4) Company: Branch2CA - *created manually* (normally the DB name available in **server 2**)
- 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

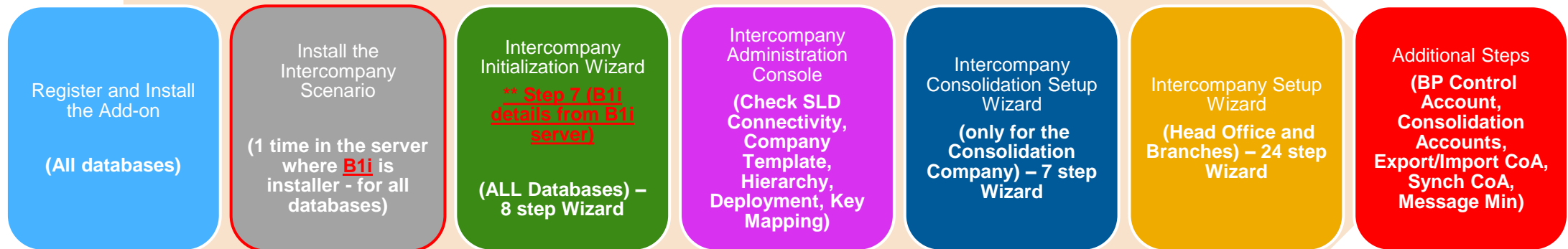
- Make sure the connections works for ALL databases (especially the DBs located in **server 2**)
- For troubleshooting refer to note [1619422](#)



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)

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

SME Ecosystems and Channels Readiness