

# ONESOURCE™ INDIRECT TAX INTEGRATION FOR SAP (BASIC US/CA)–5.2B

## DOWNLOAD INSTRUCTIONS FOR UNIX

SAP JCO Integration (Basic US/CA)

VERSION 5232B

Document Version 1

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## Change Log

Version	Comments
5220B	<p>Updated the following sections:</p> <p><b>Download and installation instructions</b></p> <ul style="list-style-type: none"> <li>Support for latest SAP JCO Library version 3.1.10 (page 4)</li> <li>Download instructions for SAP SNC Crypto Library (page 4)</li> </ul> <p><b>Configure environment variables</b></p> <ul style="list-style-type: none"> <li>Added instruction to configure SAP SNC environment variables (page 6)</li> </ul>
5221B	<p>Upgraded Integration logging library from Log4j to Log4j2 Version 2.17.1</p> <p>ONESOURCE Indirect Tax Integration for SAP (Basic US/CA) have been negatively impacted, as per the Apache log4j documentation the new version 2.17.1 is released to remediate log4j vulnerability.</p> <p><a href="https://logging.apache.org/log4j/2.x/security.html">https://logging.apache.org/log4j/2.x/security.html</a></p> <p>A new updated SabrixIntegrationServerLoggingConfig.xml file is now provided to introduce Log4j2 XML logging configuration in integration. Please refer to the Integration Install guide for more details related to Logging configurations under the sections “CONFIGURING LOGGING OPTIONS” and “APPENDIX 3: ADVANCED SECURITY AND LOGGING CONFIGURATIONS”</p>
5230B	<p>Support for SAP JCO Integration Server to start without dependency on Sabrix Version URL (regardless if it is empty or not valid or not configured properly).</p>
5231B	<ul style="list-style-type: none"> <li>Upgraded to fix Veracode Security issues.</li> <li>Upgraded Integration logging library from Log4j2 Version from 2.17.1 to 2.21.1</li> <li>Updated Solution Manager Registration Program (Solman) to fix Veracode Security issue. <ul style="list-style-type: none"> <li>Updated Solution Manager Registration Program to Encode dynamic SLD property values in the Solman XML Request.</li> <li>-Following Libraries are added/used by Solution Manager Registration Program</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>- Added Library org.owasp.encoder:encoder:1.2.3</li> <li>- Added Library 'org.apache.httpcomponents:httpClient:4.5.14'</li> <li>- Added Library 'org.apache.httpcomponents:httpcore:4.4.16'</li> <li>- Upgrade Library commons-codec-1.3.jar to 'commons-codec-1.11.jar'.</li> <li>- Updated SolutionManagerSubmit.bat and SolutionManagerSubmit.sh to add above libraries in classpath</li> </ul>
5232B	<ul style="list-style-type: none"> <li>○ Upgraded to fix Snyk Security issues.</li> <li>○ Updated to use AES Algorithm instead of Blowfish Algorithm for Encryption and Decryption.</li> </ul>

# DOWNLOAD AND INSTALLATION GUIDE FOR UNIX ENVIRONMENT

SAP JCO Integration (Basic Services) requires below software for UNIX OS.

- SAP JCO Integration Version- **52XXB**
  - Java Version- v8 (jre1.8.0\_261)
  - SAP JCO Library – V3.1.10
  - SAP Crypto Library (If SAP SNC is enabled)
1. Download and install Java version 8 Runtime environment and configure environment variables JRE\_HOME variable to the java installation root folder path and PATH variable to Java JRE bin path. Make sure to uninstall other/older Java versions and corresponding environment variables, if available.
  2. To download and install latest SAP JCO 3.1.10 library, please refer the SAP Portal URL for details. Follow the instructions given in the SAP portal to configure the environment variables (CLASSPATH, PATH) related to this SAP JCO library.
  3. Make sure to remove/uninstall older SAP JCO version and its corresponding environment variables, if available.
  4. Additionally, if you are enabling SAP SNC in your integration, download and install the SAP Crypto Library from the SAP marketplace URL. Choose your different OS Windows 64 bit, Windows 32 bit, Linux, etc. as applicable. Navigate to URL <https://support.sap.com> and click on Software Downloads. It is recommended to use the latest version of SAP JCO Library v3.1.10 or higher.
  5. Refer the section to [“CONFIGURE ENVIRONMENT VARIABLES”](#).
  6. For more configuration details please refer the Install Guide (InstallGuideONESOURCEIDTIntegrationSAP).
  7. To download and install this release in UNIX Environment:
    - a. Retrieve the ONESOURCEIDTIntegrationSAP-52XXB.zip file from the Customer Center. To do so:
      - Open the Customer Center at <http://customercenter.sabrix.com/sabrixcc>
      - Log on using the username and password provided by Technical Support.
      - Find Integration for SAP (Basic US/CA) in the Available Products list and verify that Installed Version is set to None.

- Click Download for Integration for SAP (Basic US/CA).
  - Save the file.
- b. Log on to the server where the current Integration for SAP is installed.
- c. Stop the Integration if currently running.
- d. Back up the following files, as you will need to reference them once you install the new release:
- SabrixConnection.propertiesIntegrationServerStartup.sh
  - IntegrationServerShutdown.sh
  - taxMappingsExtensons.xml
  - jcMappingsExtension.xml
  - authorityLanguageMappingsExtension.xml
  - SabrixIntegrationServerLoggingConfig.xml
- e. Unzip and extract the files in the .zip file to the directories where you installed the previous release of Integration for SAP.
- f. A new updated SabrixIntegrationServerLoggingConfig.xml file is now provided to introduce Log4j2 XML logging configuration in integration. Please refer to the Integration Install guide for more details related to Logging configurations under the sections “CONFIGURING LOGGING OPTIONS” and “APPENDIX 3: ADVANCED SECURITY AND LOGGING CONFIGURATIONS”
- g. Compare files saved in step 6d above with the new files. Merge custom configurations from the saved files with the newly provided ones if necessary or replace the empty templates with the saved ones if no changes were made.
- h. Restart the Integration.

# CONFIGURE ENVIRONMENT VARIABLES

- a. If Java JRE is installed,

Add the {java-JRE-install-path}\bin to the PATH environment variable.

Add the {java-JRE-install-path} to JRE\_HOME environment variable

Example:

```
JRE_HOME={java-JRE-install-path}\Java\jre1.8.0_261
PATH={java-JRE-install-path}\Java\jre1.8.0_261\bin
```

- b. If Java JDK is installed,

Add the {java-JDK-install-path}\jre\bin to the PATH environment variable.

Add the {java-JDK-install-path} to JAVA\_HOME environment variable

Example:

```
JAVA_HOME={java-JDK-install-path}\Java\jdk1.8.0_261
PATH={java-JDK-install-path}\Java\jdk1.8.0_261\jre\bin
```

- c. Add the {sapjco3-install-path} to the PATH environment variable.

- d. Add the {sapjco3-install-path}\sapjco3.jar to the CLASSPATH environment variable.

Example:

```
CLASSPATH={sapjco3-install-path}/sapjco3.jar
PATH={sapjco3-install-path}
```

- e. To enable SAP SNC in integration, configure SAP SNC environment variables in the *IntegrationServerStartup.sh* file in Integration Machine.

SNC\_LIB=/path/to/the/sapcrypto/lib/file

SECUDIR=/path/to/the/sapcrypto/lib/sec/folder

Example:

```
SNC_LIB=/home/xxxusr/Integration/SAPCrypto/libsapcrypto.so
SECUDIR=/home/xxxusr/Integration/SAPCrypto/sec
```