

ONESOURCE™ INDIRECT TAX DETERMINATION

RELEASE NOTES

VERSION 5.13.8.1

Document Version 18

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DOCUMENT HISTORY

VERSION NUMBER	VERSION DATE	SUMMARY
1	February 2021	Initial release for 5.13.0.0.
2	March 2021	Release for 5.13.0.1.
3	June 2021	Release for 5.13.1.0.
4	August 2021	Added the 5.13.2.0 Release Notes.
5	October 2021	Added the 5.13.3.0 Release Notes.
6	December 15, 2021	Added the 5.13.3.1 Release Notes.
7	December 27, 2021	Added the 5.13.3.2 Release Notes and the 5.13.4.0 Release Notes.
8	January 7, 2022	Added the 5.13.3.3 Release Notes and the 5.13.4.1 Release Notes.
9	January 24, 2022	Added the 5.13.4.2 Release Notes.
10	March 23, 2022	Added the 5.13.4.3 Release Notes.
11	April 11, 2022	Added the 5.13.5.0 Release Notes.
12	May 2, 2022	Added the 5.13.6.0 Release Notes.
13	June 8, 2022	Added the 5.13.4.4 Release Notes.
14	June 10, 2022	Added the 5.13.7.0 Release Notes.

VERSION NUMBER	VERSION DATE	SUMMARY
15	July 19, 2022	Added the 5.13.7.1 Release Notes.
16	August 30, 2022	Added the 5.13.7.2 Release Notes.
17	September 16, 2022	Added the 5.13.8.0 Release Notes.
18	September 27, 2022	Added the 5.13.8.1 Release Notes.

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DETERMINATION 5.13.8.1 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.8.1 includes addressed issues, known issues, and introduces the features detailed below.

NEW FEATURES

The topics below describe features added in this release.

Union Versus Non-Union OSS (346570, 346652)

There are three types of One Stop Shop (OSS): Union OSS, Non-Union OSS and IOSS (explained below). Previously, the system supported only OSS and IOSS. Union and Non-Union OSS were grouped under OSS. ONESOURCE Determination added additional support within OSS to differentiate between Union and Non-Union OSS.

- Union OSS is applicable to B2C goods and services transactions within the EU. The VAT registration number starts with the country code of the country where the OSS is opted for. This supports the following transaction types: Goods, Electronic Services, and Physical Performance.
- Non-Union OSS is applicable to B2C services transactions that are provided from non-EU countries. The VAT registration number for Non-Union OSS starts with the EU prefix. This supports the following transaction types: Default Services, Customer Location Services, Electronic Services, and Physical Performance.
- IOSS is applicable to B2C goods transactions that are provided from Non-EU countries. The VAT registration number for IOSS starts with an IM prefix. This supports the transaction type of Low Value Goods only.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Issue with Tax Content Export/Import (346578)

Tax engine performance improvements for Brazil related transactions that were made in the 5.13.8.0 release resulted in an issue with the processing of International Tax Content updates. This version was immediately removed from the Indirect Tax Customer Center at <https://customercenter.sabrix.com/>.

The issue with the processing of International Tax Content updates is resolved in the 5.13.8.1 release.

Incorrect Document Rounding for Reverse Charge Transactions (351246)

ONESOURCE Determination was incorrectly rounding reverse charge lines when a reverse charge line was included along with other forward charge lines in a document. This occurred when document rounding was enabled, and impacted both input and output tax blocks of the line(s) subject to reverse charge.

This issue is resolved. ONESOURCE Determination now correctly applies rounding only to the forward charge tax amounts.

System Security Updates - Cross Site Request Forgery (CSRF) (351514)

As part of this release, CSRFGuard has been upgraded from version 3.1.0 to 4.0.0 to address a vulnerability issue found in version 3.1.0.

KNOWN ISSUES

The topics below describe the known issues in this release.

Seller Registration Number Does Not Appear in the System Messages and XML Output of Tax Results for Union OSS Transactions (497620)

An issue was identified for EU Union OSS transactions with a transaction type of Electronic Services (ES). Because of the issue, the seller registration number does not appear in the System Messages and XML output of the tax results. This issue will be resolved in an upcoming release.

DETERMINATION 5.13.8.0 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.8.0 includes addressed issues and introduces the features detailed below.

NEW FEATURES

The topics below describe features added in this release.

Mexico - Reverse Charge for Physical Performance (New Logic and New Jurisdiction Eligibilities) (TE-11613/346564, and TE-11071/346557)

New Jurisdiction Eligibilities (JEs) for the **Physical Performance** Transaction Type were added for Mexico. As part of the new JEs, new logic was developed to apply a reverse charge when importing physical performance transactions for Mexico.

To trigger the JEs:

- Both the seller primary and buyer primary locations must be entered.
- In the advanced authority configuration (click **Menu > Tax Data > Authority > Advanced Configuration** to access), **PP - Physical Performance Reverse Charge** must have the **Condition: Foreign Transaction** set to **Value: Not Applicable**.

Brazil - PMPF Amount from the Product Price Provided into Brazil ICMS PMPF Authority - Pharma (TE-10585/350665, TE-11468/351286, TE-11470/351288, TE-11489/351305, TE-11547/351347, TE-11725/346569, TE-11798/346622, TE-11799/346625, 369520, TE-11546/351346 and TE-11637/351396)

This functionality is an enhancement for the pharmaceutical sector. It allows the system to calculate the PMPF amount by getting the unit value of PMPF from the rule order of the Brazil ICMS PMPF <State> authority.

A field was added to the Rules page for the Brazil ICMS PMPF <State> authority. The values in this field are automatically updated based on content.

The logic to trigger the PMPF amount that is used to calculate the ICMS-ST is:

- If the PMPF value is provided in the input, the system assumes this as the total PMPF amount. The PMPF value in the rules and the quantity passed (if any) are ignored.
- If the PMPF value is not provided in the input, the system calculates the PMPF amount as equal to the PMPF unit price from the rules multiplied by the quantity (provided by the XML input).

The following graphic shows an example of the quantity:

```
<LINE_NUMBER>1</LINE_NUMBER>
<PRODUCT_CODE>OPDIVO 40Mg</PRODUCT_CODE>
- <QUANTITIES>
  - <QUANTITY>
    <AMOUNT>30</AMOUNT>
    <UOM>each</UOM>
  </QUANTITY>
</QUANTITIES>
```

If the quantity value passed in the input is zero and the ICMS-PMPF<State> is triggered to bring a rule with the PMPF unit price, then the following error is displayed:

ICMS PMPF tax amount cannot be calculated as Quantity from ERP source was not provided.

Increase in Custom Attributes (TE-11737/346571, 346572/TE-11738, 346603/TE-11792, and 346574/TE-11740)

The number of custom attributes at the invoice level and the line level was increased from 50 to 200 (there are an additional 150 custom attributes available at each level). Multiple changes at the database level were made for the following tables as well as the related history tables:

- TB_SCENARIOS
- TB_SCENARIO_LINES
- TB_INVOICES
- TB_INVOICE_LINES

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

TransEditor Condition to Copy Buyer Registration Number from Invoice to Line Level Was Not Triggered (346550)

The following TransEditor was set up to copy a buyer registration number from the invoice level to the line level:

```
LINE.REGISTRATIONS.BUYER_ROLE = INVOICE.REGISTRATIONS.BUYER_ROLE
```

This TransEditor was not triggered. This is now fixed.

Brazil Transactions – Tax Engine Performance Improvements (397540, 346578/TE-11764, 346579/TE-11769, 417498, and 397618)

The performance of the tax engine was reported as poor for Brazil related transactions. Changes were implemented, which substantially improved performance for Brazil transactions.

To enable the improvements:

1. Navigate to **Menu > System > Companies > Options**.
2. Select **Fetching rules with product category**.
3. Set the value to **Y** (for YES).



Sabrix Log Generation (465791)

Multiple log files were generated with a sequential sequence (YYYY-MM-DD.0, YYYY-MM-DD.1 and YYYY-MM-DD.2, and so on) due to a system configuration property that was omitted. This issue is fixed. A log file now generates based on your logging parameter selections in **System > Configuration**.

System Security Updates - Cross Site Scripting (XSS) (351465, and 351466)

The vulnerabilities related to Reflected Cross Site Scripting (RXSS) and Persistent Cross Site Scripting (PXSS) are fixed in this release.

KNOWN ISSUES

The topics below describe the known issues in this release.

Output XML Showing Incorrect Exempt and Non-Taxable Basis Amounts for Brazil ICMS-FCEP-ST Authority (481495)

Currently, Determination generates the correct tax amounts for the Brazil ICMS-FCEP-ST authority, but the output XML shows incorrect exempt and non-taxable basis amounts when there is a reduced basis percent. This issue will be addressed in an upcoming release.

DETERMINATION 5.13.7.2 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.7.2 includes addressed and known issues.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

JPA Transaction Manager (346551 - TE-10889)

To enhance the performance of the tax engine, the JPA transaction manager support was added and is used with the existing JTA transaction manager.

5.13.7 Auditinvoice Servlet Fails against Oracle 19c (351527 - TE-11802)

The system raised an exception when an invoice was searched using the Sabrix Audit Invoice Query tool. This issue is fixed.

Auditinvoice Servlet Error (409524)

ONESOURCE Determination returned an invoice servlet error when more than one audit call was attempted using the XML Invoice module. This issue is fixed.

The Operator IS NOT EU in Tax Code Qualifiers Was Not Working as Expected (368462)

The Tax Code Qualifier condition was not evaluated correctly when the **IS NOT EU** operator was used for transactions between the U.S. and any EU country (when either the ship from or ship to country was the U.S. and the other was any EU country). This issue is fixed.

KNOWN ISSUES

The topic below describes a known issue in this release.

Document Rounding for Reverse Charge Transactions (351246)

ONESOURCE Determination currently rounds only the reverse charge lines when a document contains multiple lines and at least one line is subject to a reverse charge. This occurs when document rounding is enabled and impacts input and output tax blocks. This issue will be addressed in an upcoming release.

DETERMINATION 5.13.7.1 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.7.1 includes addressed issues.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Maryland Bracket Issues - Rule Qualifier Condition and Negative Tier Evaluation (TE-11105)

The MD - STATE (BRACKET) SALES/USE TAX authority currently requires custom rules set to the Graduated Line amount, but there were some issues. By fixing the issues, the BRMD60 and BRMD6 rates are set up at the Invoice Amount tier level to correctly:

- Evaluate the decimal or bracket portion against the BRMD60 tier when the transaction total Taxable Amount is less than \$1.00.
- Evaluate the decimal or bracket portion against the BRMD6 tier when the transaction Taxable Amount is greater than \$1.00.

In addition, if the total Taxable Gross Amount is negative, then the rate tiers for the above are considered in reverse of the positive rate tiers provided in the content.

LVG Threshold Logic Not Triggered in Invoice Level when Exceeding the Threshold (TE-11695)

The LVG Threshold logic is expected to be triggered when the LV transaction type is set at either the line level or at the document level. An issue, which caused the system to not work as expected, was identified when the LV transaction type was set at the line level only and the total Gross Amounts of the LV lines exceeded the threshold. This issue is now fixed.

Issue with Tomcat DS Credentials Encryption Algorithm (TE-11698)

An issue, which is related to the Tomcat credentials AES encryption implemented in 5.13.5.0 (TE-11514), occurs while decrypting the user credentials of the SQL server using the standard XML tags in the *determination-xa-ds.xml* file. This issue is now addressed.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.7.0 RELEASE NOTES

NEW FEATURES

The topics below describe features added with this release.

Brazil - DIFAL and FECF for Non-Taxpayer Buyer (TE-11614, TE-11616, TE-11636, TE-11639, TE-11640, TE-11649, TE-11650 and TE-11651)

This enhancement addresses the calculation of ICMS DIFAL in interstate transactions with non-taxpayers, which is regulated in the Complementary Law 190/22 and in the Convention 236/2021 (for all States). The ICMS-DIFAL and ICMS-FCEP authorities are triggered for a seller transaction when the registrations for the buyer at the federal (CNPJ) and/or state level (IE) are filled and a NON-TAXPAYER is identified. This is in addition to the current behavior when the registrations are not informed for the buyer.

This impacts:

- **Company Role:** Seller
- **Business Supply:** No
- Interstate transaction
- Brazil ICMS, Brazil IPI, Brazil PIS, Brazil COFINS, Brazil ICMS-DIFAL, Brazil ICMS-FCEP, Brazil ICMS-RD
- **Calculation method:** Tax on Contributing Authorities (ICMS-DIFAL)
- Standard and Inclusive
- **CEST:** not inform
- **Transaction Type:** Goods only. Other transaction types, such electronic services, are not impacted.

The **TaxPayer Type** drop-down list, which is enabled only when the company role is seller, was added to the **Invoice** details on the **Main** tab of **Workbench**. The default value is **None**.

CUSTOMER_TAXPAYER element has also been added to request and response XMLs. This is an optional field and appears in request and response XMLs only if the value is provided.

```
<INDATA version="G">
  <SCENARIO_NAME>TE-11650_02</SCENARIO_NAME>
  <INVOICE>
    <CALCULATION_DIRECTION>F</CALCULATION_DIRECTION>
    <COMPANY_ID>2265</COMPANY_ID>
    <COMPANY_NAME>TE-11650</COMPANY_NAME>
    <COMPANY_ROLE>S</COMPANY_ROLE>
    <CUSTOMER_TAXPAYER>NT</CUSTOMER_TAXPAYER>
    <CURRENCY_CODE>BRL</CURRENCY_CODE>
    <DOCUMENT_TYPE/>
    <EXTERNAL_COMPANY_ID>TE-11650</EXTERNAL_COMPANY_ID>
    <FILTER_GROUP_NAME>TE-11650_11</FILTER_GROUP_NAME>
    <FILTER_GROUP_OWNER>TE-11650</FILTER_GROUP_OWNER>
    <INVOICE_DATE>2022-05-12</INVOICE_DATE>
    <IS_AUDITED>false</IS_AUDITED>
    <IS_REPORTED>false</IS_REPORTED>
    <IS_REVERSED>false</IS_REVERSED>
    <POINT_OF_TITLE_TRANSFER>I</POINT_OF_TITLE_TRANSFER>
    <REGISTRATIONS>
      <SELLER_ROLE>123456789012</SELLER_ROLE>
      <SELLER_ROLE>12345678901234</SELLER_ROLE>
    </REGISTRATIONS>
    <SHIP_FROM>
      <COUNTRY>BR</COUNTRY>
      <PROVINCE>SAO PAULO</PROVINCE>
    </SHIP_FROM>
  </INVOICE>
</INDATA>
```

The INVOICE.CUSTOMER_TAXPAYER TransEditor element was added so that the Taxpayer value can be set. When INVOICE.CUSTOMER_TAXPAYER = NT is set, sell - side transactions satisfying any prior condition in the TransEditor are considered non-tax paying buyer transactions.

Actions:**THEN**`INVOICE.CUSTOMER_TAXPAYER = NT`

If the value passed is not equal to **NT** or is an empty string, then the following error message is displayed in the output messages:

The taxpayer type passed is not valid. "value" is not in the accepted set of values.



The value is case sensitive.

System Security Update - Removal of Log4J Library (TE-11102)

As a part of this release, Log4J 1.x or 2.x have been excluded from .ear and .war files and ESAPI log back mechanism is being used instead.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Incorrect Document Rounding for Turkey and Italy (TE-11564)

An issue was found with document rounding in Turkey and Italy when the same is enabled for transactions with negative gross amounts in single or multiple lines. The negative tax amounts were incorrectly rounded and a change in the rounding algorithm has fixed this issue.

Mismatch in TAX_AMOUNT Field in Workbench Results and XML Output Compared to Database Tables (TE-11672)

An issue was identified where, in some cases, the amounts in the TAX_AMOUNT field in the audit database were inconsistent with the Workbench results and XML output. This resulted in minor rounding variances. This issue was corrected for all International, Brazil and Canada scenarios so that the correct values are stored in the audit database. U.S. scenarios were not impacted by this issue.

Error when Running Report for Application Event History (TE-11572)

When **Application Event History** report which shows the event changes by users was executed, an error was being returned and report couldn't be generated. This has been fixed.

System Security Updates – Outdated Third Party Libraries (TE-11659)

Addressed some critical, high and medium level security system vulnerabilities that were identified in third party libraries utilized by the application:

- csrfguard library version 4.0.0
- spring library version 5.2.21.RELEASE
- spring-data-jpa library version 2.3.7
- springws library version 3.0.10.RELEASE
- springsecurity library version 5.3.8.RELEASE
- xstream library version 1.4.18
- xercesImpl library version 2.12.2
- esapi library version 2.2.2.0
- guava library version 30.0-jre
- freemarker library version 2.3.30
- bcprov-jdk15on library version 1.70
- xmlsec library version 2.3.0

KNOWN ISSUES

Determination Not Loading on IBM Websphere 9.0.5.0 (TE-11721)

The recent enhancements that include multiple third party library upgrades are compatible with all supported platforms except for IBM Websphere 9.0.5.0. For IBM Websphere 9.0.5.0, ONESOURCE Determination - Original Cloud fails to load. This issue will be addressed in a future release.

DETERMINATION 5.13.6.0 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.6.0 includes addressed issues and introduces the features detailed below.

NEW FEATURES

The topics below describe features added with this release.

Low Value Goods Threshold Setup and Its Comparison (TE-11537 and TE-11538)

The expected tax treatment for low value goods, which is applicable to Australia, the European Union (EU) member states, New Zealand and the United Kingdom (UK), can be achieved by assigning a Transaction Type of LV (Low Value Goods) to the applicable transactions. However, there was no provision in the system to define the threshold limits per currency and to compare the threshold limit with the line gross amounts in the document to achieve the desired results. This is addressed in the current release.

To support the Low Value Goods (LVG) threshold setup, the LVG Threshold feature was added to the **Tax Preferences** tab (click **System > Companies** to access). The **Tax Preferences** tab facilitates input of the threshold value per currency. Multiple entries are not allowed for the same currency in this table unless the previous one is end dated.

The threshold comparison functionality works for invoices that have a Transaction Type of LV at the document level or line level. This Transaction Type can be passed as input data from the source system or it can be assigned by a TransEditor. For transactions with the LV transaction type, the transactional currency is compared with the currencies maintained on LVG Threshold screen. If a matching currency is found, then the gross amount of all the lines in a document with the LV transaction type are aggregated and compared with the currency threshold setup. The following actions are performed as an outcome of comparison:

- If Total Gross Amount <= Currency threshold then Transaction Type LV is retained.
- If Total Gross Amount > Currency threshold then Transaction Type LV is changed to GS (Goods).

If the transactional currency does not match with any of the currencies maintained in LVG Threshold screen, but the same is provided with an exchange rate, then the system compares the translated currency with the currencies on the LVG Threshold screen. It performs the above steps if a matching currency is found. If there is no matching currency, then no action is performed.

Recalculate Total Tax Amount (TE-11275 and TE-11457)

The value in the TOTAL_TAX_AMOUNT field at the line level was derived by rounding the aggregate of all unrounded tax amounts of all the tax authorities applicable for a line. This logic changed. Now, the rounded tax amounts of all the authorities applicable for a line are aggregated to derive the line level TOTAL_TAX_AMOUNT.

Old Logic:

TOTAL_TAX_AMOUNT = Rounding of (sum of unrounded <TAX_AMOUNT><UNROUNDED_DOCUMENT_AMOUNT> per Authority)

New Logic:

TOTAL_TAX_AMOUNT = Sum of rounded tax amount <TAX_AMOUNT><DOCUMENT_AMOUNT> per Authority

The existing logic for the TOTAL_TAX_AMOUNT field at the document or invoice level (aggregating values in the TOTAL_TAX_AMOUNT field of all lines in the document) remains unchanged.

Spring Framework Upgraded – System Security Update (TE-11633)

The Spring4Shell library in Original Determination is now upgraded to version 5.2.21.

Removal of Log4j-jcl-2.5.jar File (TE-11503)

The log4j-jcl-2.5.jar file was removed from all areas in the Determination application because there is no dependency on this file. With this change, only the log4j 2.17.1 file is included as part of the 2.x version library of log4j.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Change in Canada and US Currency Rounding Algorithm (TE-11490 and TE-11533)

Transactions with U.S. tax output and USD currency or Canada tax output and CAD currency were incorrectly rounding down the tax amounts instead of rounding them to the nearest decimals in certain remote scenarios. For example, a single authority transaction within the following line:

```
<TAX_AMOUNT>  
<DOCUMENT_AMOUNT>23.33</DOCUMENT_AMOUNT>  
<UNROUNDED_DOCUMENT_AMOUNT>23.3350000000</UNROUNDED_DOCUMENT_AMOUNT>
```

Resulted in an inconsistent <TOTAL_TAX_AMOUNT>23.34</TOTAL_TAX_AMOUNT>.

The issue was fixed for both single authority and multiple authorities within an invoice line.

The currency rounding algorithm used in Determination can be accessed [here](#).

Change in Canada Currency Rounding Logic for RC Transactions (TE-11505)

An issue was found with the rounding logic for transactions with Canada tax output and CAD currency. Either one of the tax blocks (input or output) involved in reverse charge (RC) or import (IM) transactions within an invoice line was adjusted with a rounding difference. This adjustment resulted in an unsuccessful posting of reverse charge documents in the source system because Determination returned unequal input and output tax amounts.

This issue is fixed. The input and output tax amounts remain the same because the rounding differences are not adjusted with reverse charge or import transactions within a line in the invoice.

Corrections in GCC Logic for Transaction Type Goods (TE-11528)

The logic for certain GCC transactions with a Transaction Type of GS (Goods) was changed in a previous release. The new logic will be effective from July 1, 2022. Certain issues with the new logic, such as incorrect message descriptions and the non-application of buyer registration numbers for certain scenarios, were corrected.

The issue with the FAILED_TO_CALCULATE_TAX error for Intra-GCC B2B Goods transactions where the seller and buyer are in different GCC countries and both are VAT registered in their respective countries is now fixed.

Correction in GCC Logic for Transaction Type Default Services (TE-11529)

The DS (Default Services) Transaction Type logic for Intra-GCC sales and purchase transactions was changed in a previous release. The new logic will be effective from July 1, 2022. Under the new logic, the FAILED_TO_CALCULATE_TAX error was incorrectly returned with blank supply address elements. Under the revised logic, the supply address elements are optional for Intra-GCC transactions with a DS Transaction Type.

The tax type for Intra-GCC sales transactions was changed from Zero Rated Exports (ZE) to Zero Rated (ZR).

Correction in GCC Logic for Transaction Type Physical Performance (TE-11530)

The logic for certain GCC transactions with Transaction Type PP (Physical Performance) was changed in the previous release. The new logic will be effective from July 1, 2022. The new logic requires the Seller Primary, Buyer Primary and Supply address elements for tax calculations with the PP Transaction Type. This logic was revised to make Seller Primary and Buyer Primary address elements optional.

Correction in GCC Logic for Transaction Type Transport Services (TE-11531)

The logic for certain GCC transactions with Transaction Type TS (Transport Services) was changed in the previous release. The new logic is effective from July 1, 2022. The messages for certain transactions that were incorrect under the new logic were corrected.

Incorrect Tax Results Due to Non-Validation of Bahrain and Oman Registration Numbers (TE-11020)

The system was not validating Bahrain and Oman registration numbers passed in the transaction against the registration mask maintained in the respective authorities. As a result, incorrect tax results were returned without displaying any error message for transactions with invalid registration numbers. This issue is fixed.

Brazil - Rounding Difference for Negative Gross Amount Lines (TE-11552)

For Brazil transactions that have single or multiple lines with negative gross amounts and the tax result includes the Brazil ICMS authority, a penny difference was observed between the sum of rounded tax amounts and unrounded tax amounts. This issue is fixed.

Enabling Domestic Reverse Charge Check Box in the Standard Content (TE-11643)

The **Domestic Reverse Charge (DRC)** check box (along with the new rule qualifier element) was added in the 5.13.2.0 version of Determination, and is used in certain goods-related rules for the following DRC authorities: Austria, Czech Republic, Germany, Spain and Sweden. However, the check box was not enabled for the appropriate rules for the DRC authorities. The check box values (Y/N) were not included in the content export file due to a Standard Data Interchange (SDI) issue. This was corrected.



Since the changes to fix this issue were made at the SDI level, all previous versions that included the **Domestic Reverse Charge (DRC)** check box will include the correct content value when the latest content is adopted.

Brazil - Alternative Taxable Basis Brings Incorrect Tax Results For ICMS-ST when Company Option Set (TE-11605)

An incorrect tax amount for ICMS-ST was calculated when the **Brazil - Alternative Taxable Basis** company admin option was set to exclude ICMS for the seller, buyer, or both. This is fixed so that the ICMS-ST considers the rate brought by IVA to calculate the taxable basis for FCEP-ST and ICMS-ST.

In addition, this fix also corrects the tax calculations for interstate seller side transactions regarding DIFAL (EC87) when the standard calculation method is used because the **Brazil - Alternative Taxable Basis** or **Brazil-PIS and COFINS Taxable Basis** company admin option is not set.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.5.0 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.5.0 includes addressed issues and introduces the features detailed below.

NEW FEATURES

The topics below describe features added with this release.

Encrypt Data Source Credentials Using AES-256 (TE-11514)

If you require Tomcat data source credentials to be encrypted, Determination now provides the additional option. Both the tax data source and the audit data source username and password credentials can now be encrypted using a utility that encodes the username and password using the AES-256 mechanism. For details, click [here](#) to access the *Oracle Database and Tomcat Installation Guide* or *Microsoft SQL Server and Tomcat Installation Guide*.

Change in Application Logic of Registration Numbers for Sales Transactions (TE-11310)

For cross border service-related sales transactions from an EU country to a non-EU country that have a transaction type of **Customer Location (CL)**, the system returns tax blocks pertaining to the seller's primary and the buyer's primary or supply authorities. In the tax results, the seller's registration number was applied to the tax block for the seller's primary authority, and the buyer's registration was applied to the tax block for the buyer's primary or supply authority.

This application posed challenges to users who opted for consumption of a single tax block in their source system because the registration number was also filtered with the other curtailed tax block. To address this, the logic used to apply the registration number was changed to include both the buyer and seller registration numbers in all of the tax blocks involved in the transaction. If multiple seller registration numbers are involved in the transaction, then the registration number relevant to seller's primary authority is applied. The registration number relevant to the buyer's primary or supply authority, as appropriate, is applied to the transaction if it involves multiple buyer registrations.

In compliance with country-specific place of supply rules, this logic change is not applicable for countries where the **Customer Location (CL)** transaction type is linked to a physical performance.

Electronic Services Change for Latin American Countries (TE-11347)

For the Latin American countries of Mexico, Ecuador and Columbia, the tax logic was updated to evaluate the correct tax when the Transaction Type = Electronic Services. The new logic ensures the correct taxation of specific tax rules for Electronic Services, such as taxing operations when the seller is outside of Mexico, Ecuador or Columbia but is registered in the country and the tax is due there.

The tax content required to support the above tax engine change will not be released until later.

Brazil - New Company Admin Option for Alternative Calculation of PIS/COFINS (TE-11469, TE-11471, TE-11535 and TE-11605)

This enhancement addresses the need to provide a solution to exclude ICMS from PIS and COFINS taxable basis by providing an alternative calculation method that can be configured at the company level. The **Brazil - Alternative Taxable Basis** company option was added. There are three permissible values (buyer, seller, or both) for this option. When selected, this alternative calculation method readjusts the factor used for calculation of ICMS, FCEP II, FCEP, DIFAL and IPI taxable basis, which changes their tax value in addition to impacting the PIS and COFINS taxable basis. If no value is selected, then the default calculations for seller/buyer transactions that include ICMS in PIS and COFINS taxable basis apply.

The **Brazil - Alternative Taxable Basis** company option is in addition to the existing **Brazil - PIS and COFINS Taxable Basis** company option. Both options cannot be set at the same time for a company.

After setting, the **Brazil - Alternative Taxable Basis** company option can be overridden using the ICMS_INCLUDE flag at the line and invoice level using TransEditors. This flag can be set to **True** through an Action expression for a given condition in TransEditors so that PIS and COFINS taxable basis is calculated as per the default (factor) calculations. The default calculations include ICMS in their taxable basis and, as a result, override the company option after the condition is satisfied.

Brazil - Users Cannot Set Values for Both Company Options for Changing PIS And COFINS Taxable Basis (TE-11488 & TE-11511)

Users can set only one of the following Brazil options, which are available by clicking **System > Companies > Options**:

- **Brazil - Alternative Taxable Basis**
- **Brazil - PIS and COFINS Taxable Basis**

If either option was previously set in the company options (or if you selected the other option then submitted it), the following warning message displays:

Please select either-"Brazil - Alternative Taxable Basis" or "Brazil - PIS and COFINS Taxable Basis"

Add Qualifier in Rules (TE-11576)

The **Qualifier** check box was added to the Rules page to easily identify whether there is a Rule Qualifier (RQ) tied to the specific rule. The check box is selected when there is an associated RQ. The check box is clear when there is no associated RQ. This field is not mandatory when adding a custom rule.

Brazil - ICMS-ST/FCEP ST Calculation with PMC and PF Values (TE-11346, TE-11443)

This enhancement addresses the need to calculate ICMS-ST for interstate scenarios that have the business supply flag set to **Yes** when both PF and PMC values are provided in the input. The system considers the PMC value as a gross amount and triggers a rule under the ICMS-PMC and ICMS-ST authority to calculate the ICMS-ST and FCEP-ST value.

This impacts the following authorities: BRAZIL ICMS-PMC, ICMS-ST, and FCEP-ST - Ship to All States that applies PMC (Buyer and Seller) - for Pharma.

This enhancement applies to only the inclusive calculation method.

The screenshot displays the 'Workbench' interface with a navigation bar at the top containing tabs: Main, Locations, Registrations, Establishments, Exemptions, Licenses, Overrides, Attributes, Inclusive, Qualifiers, Tax Types, Calcs, and Reports. The 'Calcs' tab is active.

Below the navigation bar, there are several input fields and dropdown menus:

- Movement Type:** A text input field.
- Business Supply:** A dropdown menu set to 'None'.
- Simplification:** A dropdown menu set to 'None'.
- CEST:** A text input field.
- Movement Date:** A date input field with a calendar icon.
- CFOP:** A text input field.
- ORIGIN:** A text input field.

Below these fields, there is a section for 'Line Items' with a table header:

Line:	Product Code:	Product Code Type:	Commodity:	Part Number:	Quantity:	Gross Amt:
1						1000

Below the table, there are more input fields and dropdown menus:

- Allocation Group:** A dropdown menu set to '- None -'.
- Allocation Name:** A text input field.
- Can be Allocated:** A dropdown menu set to '(Default)'.
- Movement Type:** A text input field.
- Industry Product Code:** A text input field.
- Input Recovery Amount:** A text input field.
- Product Price PF:** A text input field.
- CEST:** A text input field.
- CST:** A text input field.
- Basis Percentage:** A text input field.
- Tax Code:** A text input field.
- Business Supply:** A dropdown menu set to 'None'.
- Movement Date:** A date input field with a calendar icon.
- Industry Code:** A text input field.
- Input Recovery Percent:** A text input field.
- Product Price PMC:** A text input field.
- CFOP:** A text input field.
- Discount Amt:** A text input field.
- Item Value:** A text input field.
- Simplification:** A dropdown menu set to 'None'.
- CNAE Code:** A text input field.
- Manufacturing:** A checkbox.
- Product Price PMVG:** A text input field.
- Product Price PMPF:** A text input field.
- ORIGIN:** A text input field.

New Features

- In case both PMC and PF values are provided but no rule is found under the ICMS-PMC authority (as is seen currently in case of ICMS-PMC MG), the calculation for ICMS-ST should consider the MVA Adjusted rate and the PF value for calculating the basis for ICMS-ST.

Tax Calculation Results										
Scenario TEC-5998- ICMS-ST w/o PF with PMC- From SP to MG- Pharma_Seller:										
View Results: 1		Gross Amount: 331.16	Eff%: 45.17755768%							
Zone	Authority	Invoice Desc	Type	Dir	Fee	Rate	Tax Amt	TT	IT	
Province: SAO PAULO	Brazil ICMS Sao Paulo	ICMS	SI	O		4%	13.25	NONE	I	
Province: SAO PAULO	Brazil IVA Sao Paulo	Sao Paulo IVA Substituicao Tributaria	MP			65.89%	0.00	NONE		
Province: SAO PAULO	Brazil ICMS-FCEP II Sao Paulo	Fundo Estadual de combate e erradicacao da Pobreza	SI	O		0%	0.00			
Country: BRAZIL	Brazil IPI	RIPI Dec. 7.212/10	SI	O		0%	0.00			
Country: BRAZIL	Brazil PIS	PIS	SI	O		2.1%	6.95	NONE	I	
Country: BRAZIL	Brazil COFINS	COFINS	SI	O		9.9%	32.78	NONE	I	
Province: MINAS GERAIS	Brazil ICMS Minas Gerais	ICMS	MA	O		18%	0.00		I	
Province: MINAS GERAIS	Brazil ICMS-ST Minas Gerais	ICMS-ST	S	O		18%	85.64	NONE		
Province: MINAS GERAIS	Brazil ICMS-FCEP II Minas Gerais	Fundo Estadual de combate e erradicacao da Pobreza	MA	O		2%	0.00	NONE	I	
Province: MINAS GERAIS	Brazil ICMS-FCEP-ST Minas Gerais	Fundo Estadual de combate e erradicacao da Pobreza	S	O		2%	10.99			
							149.61 BRL			
Authority Messages:										
Authority	RuleOrder	Message								
Brazil ICMS Sao Paulo	1	BRSG5: Interstate tax applies to Ship From location.								
Brazil IVA Sao Paulo	1	BRSGIVA1: Tax Substitution Markup Percent.								
Brazil ICMS-FCEP II Sao Paulo	10000	BRSG5: Interstate tax applies to Ship From location.								
Brazil IPI	6590.2031	BRSG5: IPI applies to Ship To location.								
Brazil PIS	1	BRSG5: PIS applies to Ship To location.								
Brazil COFINS	1	BRSG5: COFINS applies to Ship To location.								
Brazil ICMS Minas Gerais	9999	BRSG16: ICMS internal rate in the Ship To for Markup Adjustment Percentage.								
Brazil ICMS-ST Minas Gerais	1	BRSS2: ICMS-ST applies in the ship to location.								
Brazil ICMS-FCEP II Minas Gerais	1	BRSG16: ICMS internal rate in the Ship To for Markup Adjustment Percentage.								
Brazil ICMS-FCEP-ST Minas Gerais	1	BRSS2: ICMS-ST applies in the ship to location.								

- The gross amount is considered in the calculation for ICMS-ST and FCEP-ST taxable basis when the business supply flag is set to **Yes** and when PMC is provided but PF is not.
- The gross amount is considered in the calculation for ICMS-ST and FCEP-ST taxable basis when the business supply flag is set to **Yes** and when PF is not provided, or PF is different from the gross amount.

Brazil - ICMS-ST/FCEP ST Calculation with PMPF Value (TE-11468, TE-11470)

These enhancements address the addition of the ICMS PMPF for Sao Paulo tax authority and the calculation of ICMS PMPF tax amounts for medicines based on the amounts provided for the PMPF. This applies for both company roles (seller and buyer)

Addition of PMPF to SOAP Services (TE-11489)

This enhancement addresses the addition of PMPF under the PriceTypeVal element of the SOAP 2011 XML schema definitions (XSDs). This version is now up to date regarding handling the PMPF value.

A correction was made to the previous behavior, which applied product price values sent through TransEditors into the transaction and overrode the same values passed through the line level.

Brazil - Correction of FECP (ST) Calculation - All DIFAL Types (TE-11512)

The calculation is corrected for ICMS DIFAL and FECP for interstate consumption type scenarios where the business supply flag is set to **No** for both the buyer and seller across all DIFAL types (1 to 6) in both standard and inclusive calculation methods.

When a value of FECP or FECP-ST configured, it is considered in the taxable basis of ICMS-RD and ICMS-RD ST.

Workbench																
Main	Locations	Registrations	Establishments	Exemptions	Licenses	Overrides	Attributes	Inclusives	Qualifiers	Tax Types	Calcs	Reports				
Movement Type: <input type="text"/>		Business Supply: <input type="text" value="None"/>		Simplification: <input type="text" value="None"/>												
CEST: <input type="text"/>		Movement Date: <input type="text" value="31"/>														
CST: <input type="text"/>		CFOP: <input type="text"/>				ORIGIN: <input type="text"/>										
Product Code:		Product Code Type:		Commodity:		Part Number:		Quantity:		Gross Amt: 1000.00						
<table border="0"> <tr> <td> ation Group: <input type="text" value="- None -"/> ation Name: <input type="text"/> pe Allocated: <input type="text" value="(Default)"/> ement Type: <input type="text"/> roduct Code: <input type="text"/> ury Amount: <input type="text"/> uct Price PF: <input type="text"/> CEST: <input type="text"/> CST: <input type="text"/> </td> <td> Basis Percentage: <input type="text"/> Tax Code: <input type="text"/> Business Supply: <input type="text" value="None"/> Movement Date: <input type="text" value="31"/> Industry Code: <input type="text"/> Input Recovery Percent: <input type="text"/> Product Price PMC: <input type="text"/> CFOP: <input type="text"/> </td> <td> Discount Amt: <input type="text"/> Item Value: <input type="text"/> Simplification: <input type="text" value="None"/> CNAE Code: <input type="text"/> Manufacturing: <input type="checkbox"/> Product Price PMVG: <input type="text"/> ORIGIN: <input type="text"/> </td> <td> Product Price PMPF: <input type="text"/> </td> </tr> </table>													ation Group: <input type="text" value="- None -"/> ation Name: <input type="text"/> pe Allocated: <input type="text" value="(Default)"/> ement Type: <input type="text"/> roduct Code: <input type="text"/> ury Amount: <input type="text"/> uct Price PF: <input type="text"/> CEST: <input type="text"/> CST: <input type="text"/>	Basis Percentage: <input type="text"/> Tax Code: <input type="text"/> Business Supply: <input type="text" value="None"/> Movement Date: <input type="text" value="31"/> Industry Code: <input type="text"/> Input Recovery Percent: <input type="text"/> Product Price PMC: <input type="text"/> CFOP: <input type="text"/>	Discount Amt: <input type="text"/> Item Value: <input type="text"/> Simplification: <input type="text" value="None"/> CNAE Code: <input type="text"/> Manufacturing: <input type="checkbox"/> Product Price PMVG: <input type="text"/> ORIGIN: <input type="text"/>	Product Price PMPF: <input type="text"/>
ation Group: <input type="text" value="- None -"/> ation Name: <input type="text"/> pe Allocated: <input type="text" value="(Default)"/> ement Type: <input type="text"/> roduct Code: <input type="text"/> ury Amount: <input type="text"/> uct Price PF: <input type="text"/> CEST: <input type="text"/> CST: <input type="text"/>	Basis Percentage: <input type="text"/> Tax Code: <input type="text"/> Business Supply: <input type="text" value="None"/> Movement Date: <input type="text" value="31"/> Industry Code: <input type="text"/> Input Recovery Percent: <input type="text"/> Product Price PMC: <input type="text"/> CFOP: <input type="text"/>	Discount Amt: <input type="text"/> Item Value: <input type="text"/> Simplification: <input type="text" value="None"/> CNAE Code: <input type="text"/> Manufacturing: <input type="checkbox"/> Product Price PMVG: <input type="text"/> ORIGIN: <input type="text"/>	Product Price PMPF: <input type="text"/>													

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Brazil - Incorrect Rule Order with CFOP, CEST AND Origin Fields in Custom Rules (TE-11399)

An issue was identified with the **CFOP**, **CEST** and **Origin** fields for **Rules**, which were added for Brazil authorities in the previous release. The issue is now fixed.

During the selection of a rule, if a commodity code is passed, then the rule(s) with matching commodity codes are considered first followed by matching for other input fields, like **CEST**, **CFOP** and **Origin** (if given) in that order. When no commodity code is passed and one or more of the input attributes (like **CEST**, **CFOP** and **ORIGIN**) are given, then the rule with the matching input attributes in their order of precedence is applied.

Brazil O2C and P2P Interstate Transactions (TE-11520)

This issue is a follow up to [Brazil - Incorrect Rule Order with CFOP, CEST AND Origin Fields in Custom Rules \(TE-11399\) \(page 25\)](#) included above. This follow up fix addressed tax amounts that were incorrectly calculated because incorrect rule orders were applied to Brazil Order-2-Cash (O2C) and Procure-2-Pay (P2P) interstate transactions with or without commodity codes for ICMS authorities. This issue is fixed.

Brazil - System Message with CENQ Code under Brazil IPI (TE-11390)

When the CENQ value is given in custom rules under the Brazil IPI authority, the following message is displayed:

Brazil CENQ (Tax Status Code) was applied to the [Brazil IPI] Tax Result :321<MESSAGE_TEXT>

Change in Sequence of Registration Number Application for EU Transactions (TE-11524)

For EU transactions, when a country specific registration number with a country code prefix and an EU registration number with an EU prefix were passed in the transaction details as seller or buyer registration numbers, the EU registration number was applied to the transaction instead of the country specific number. This was changed so that the country specific registration number always precedes the EU number when both are available in a transaction.

Adobe Flash Content Removed due to Obsolete Software (TE-11518)

Since Adobe no longer supports Flash content, an error message displayed when a user tried to access Adobe Flash content in the Determination help system. This issue was fixed by removing the Flash content from the Determination help system.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.4.4 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.4.4 includes an addressed issue.

NEW FEATURES

There are no new features added with this release.

ADDRESSED ISSUES

The topic below describes the issue addressed in this release.

Error when Running Report for Application Event History (TE-11681)

When the **Application Event History** report, which shows the event changes initiated by users, was run an error was returned and the report was not generated. This issue is fixed.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.4.3 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.4.3 includes addressed issues and introduces the time based cache eviction feature.

NEW FEATURES

The topics below describe features added with this release.

Time-Based Cache Eviction (TE-11501)

Time based cache eviction is the suggested way of clearing cache for Determination customers who have the application running on clustered nodes. As such, support for this is now available.



This is not the default cluster configuration offered by the application. For those customers who want to follow this, see the Installation Guides, which are available [here](#), for more details on how to configure your cluster for time based cache eviction.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Implementer Failure on First Run (TE-11496 and TE-11441)

Previous versions of the Determination application showed failures the first time the implementer was run for either an upgrade or a new installation. The issue cleared when the implementer was rerun. This issue with first time run is now fixed.

Error Message in Tomcat Console after New Hibernate Upgrade (TE-11585)

The following error message displayed in Determination Catalina:

```
ERROR org.jboss.jca.core.connectionmanager.listener.TxConnectionListener - IJ000315: Pool  
TaxDataSourceDS has 1 active handles
```

These are console error messages due to the use of latest third party Hibernate components. The errors, which are not actual errors in the application, are suppressed with this version of Determination.

As an alternative, the console error messages can be hidden by updating the `tracking="false"` option in the following lines of the Determination `xa-ds.xml` file:

```
<xa-datasource jndi-name="jdbc/TaxDataSource" pool-name="TaxDataSourceDS" enabled="true" use-java-context="true" tracking="false">  
  
<xa-datasource jndi-name="jdbc/AuditDataSource" pool-name="AuditSourceDS" enabled="true" use-java-context="true" tracking="false">  
  <driver>oracle.jdbc7.jar</driver>
```

The above workaround is for Oracle and is already implemented in the current release. This issue will be addressed for SQL Server in a future release.

KNOWN ISSUES

The topics below describe known issues in this release.

Cluster Issue (TE-11497 and TE-11566)

The latest Hibernate upgrade (specifically Infinispan) does not support clearing cache effectively. Due to this, customers who install the Determination application on a cluster need to complete the following steps to successfully run the application on a cluster:

1. Follow the existing process to install and upgrade all the cluster nodes by adding the `determination_application_overrides.properties` file.
2. Stop or shutdown all the nodes.
3. Go to the `lib` directory under `<TomcatHomeDirectory>` of Node 1.
4. Remove the `determination_application_overrides.properties` file in Node 1.
5. Start the Node 1 then run the Installer. The install should successfully complete without issues.

6. Stop the Node 1.
7. Go to lib directory then re-copy the determination_application_overrides.properties file.
8. Start the Node 1.
9. After the Node 1 is up and running, start the other nodes.

Due to the above limitation, these steps be completed each time you want to upgrade the application.

DETERMINATION 5.13.4.2 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.4.2 includes addressed issues.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Master Content Upload Failure (TE-11487)

When you upgrade Determination to a new minor version, the Master Content files need to be reloaded. For Determination 5.13.4.0 and 5.13.4.1, we identified an issue that prevented the Master Content file from being correctly uploaded. The issue is now fixed, and all Master Content files (US, Canada, INTL and TELCO) can be uploaded without issues.

Clustering Issues (TE-11476)

Clustering issues were reported for Determination 5.13.2.0 and above. The issues prevented additional nodes from coming up automatically unless the *determination_application_overrides.properties* was not configured in the *lib* folder. This clustering issue is now fixed with the following upgrades in the latest version of Determination:

- Upgraded Hibernate to 5.3.20.Final (from 5.2.10.Final).
- Upgraded Infinispan to 9.4.20.Final.
- Upgraded JGroups to 4.2.9.



For those customers who are hosted, this version of the application also resolves issues related to hosting on [Amazon Linux AMI](#).

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.4.1 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.4.1 includes an addressed issue.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topic below describes the issue addressed with the 5.13.4.1 release of ONESOURCE Indirect Tax Determination.

Log4j Library Upgrade - System Security Update (TE-11464)

To address the newly announced security vulnerability ([CVE-2021-44832](#)) impacting the Java logging library Apache Log4j version 2.17, an upgraded library, Log4j 2.17.1, is now available as part of this Determination version.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.4.0 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.4.0 includes addressed issues and introduces the following features:

NEW FEATURES

Product Start and End Dates (TE-11360, TE-11361 and TE-11362)

To properly manage products in Determination, the **Start Date** and **End Date** fields were added. These fields allow for identifying active products (rather than all products) in a product category. Key things to know:

- Products in all product categories are assigned with start and end dates.
- After the start date is entered, it cannot be edited. You can edit the end date.
- A child product without end date inherits the end date of its parent product when the end date for the parent product is edited.
- A child product cannot have an end date later than the end date of its parent product.

Under the **Search** tab on the Rules page, the **View Active Products** and **View All Products** options are available. The **View Active Products** option is active by default. This means that, by default, only the products without an end date are shown in the **Search** tab. You can choose to view all of the products (including the products with end dates) by switching to the **View All Products** option.

The start date for standard and custom product rules cannot precede the start dates of the underlying products. Similarly, the end date for product rules cannot extend beyond the end dates of the underlying products.

Brazil: XML Requirement from the New Rule Fields - CFOP, CEST, ORIGIN, CST and CENQ for Goods Transactions (TE-10194)

According to the CONFAZ guidelines and to Adjustment SINIEF 20/2021, new tags viz. ORIGIN and CENQ have been added into the XML output/tax calculation response for the Brazil authorities Brazil ICMS (all States) and Brazil IPI respectively.

1. **ORIGIN** of goods is expected as a line level input parameter into determination. For this reason, ORIGIN is added as an optional element in the XML input/tax request; in addition to Model Scenario (under **Document Line > Overrides > Calcs**) and to Rules page for Brazil ICMS authorities. The ORIGIN value passed is expected to be a single digit integer – 0,4,5,6,7 for goods of national origin while 1,2,3,8 for imported goods. To be matched, the ORIGIN value should be present in applicable Rules under ICMS (Ship From) authorities for a given transaction. Once the rule is applied, the ORIGIN tag with value can be located under Line tag and under ICMS authority Tax block level in the xml output as in the samples given below:

- a. Line ID level:

```

<MESSAGE><img alt="icon" data-bbox="338 311 371 328"/></MESSAGE>
<POINT_OF_TITLE_TRANSFER>I</POINT_OF_TITLE_TRANSFER>
<SHIP_FROM_COUNTRY>BRAZIL</SHIP_FROM_COUNTRY>
<SHIP_TO_COUNTRY>BRAZIL</SHIP_TO_COUNTRY>
<TOTAL_TAX_AMOUNT>460.32</TOTAL_TAX_AMOUNT>
<CFOP>5101</CFOP>
<CEST>01.075.00</CEST>
<ORIGIN>4</ORIGIN>
<TAX><img alt="icon" data-bbox="291 468 324 485"/></TAX>
<TAX><img alt="icon" data-bbox="291 488 324 505"/></TAX>
<TAX><img alt="icon" data-bbox="291 508 324 525"/></TAX>
<TAX><img alt="icon" data-bbox="291 528 324 545"/></TAX>
<TAX><img alt="icon" data-bbox="291 548 324 565"/></TAX>
<TAX><img alt="icon" data-bbox="291 568 324 585"/></TAX>
<TRANSACTION_TYPE>GS</TRANSACTION_TYPE>
<UNIT_OF_MEASURE>each</UNIT_OF_MEASURE>
<QUANTITIES><img alt="icon" data-bbox="371 628 404 645"/></QUANTITIES>
<IS_CREDIT>>false</IS_CREDIT>
<INVOICE_DATE>2021-09-07</INVOICE_DATE>
<CUSTOMER_GROUP_NAME>DEFAULT</CUSTOMER_GROUP_NAME>
<CUSTOMER_GROUP_OWNER>Brazil Standard</CUSTOMER_GROUP_OWNER>
<VENDOR_GROUP_NAME>DEFAULT</VENDOR_GROUP_NAME>
<VENDOR_GROUP_OWNER>Brazil Standard</VENDOR_GROUP_OWNER>
<BILLED_QUANTITY_TYPE>GROSS</BILLED_QUANTITY_TYPE>
<TAX_SUMMARY><img alt="icon" data-bbox="381 788 414 805"/></TAX_SUMMARY>
</LINE>

```

b. ICMS Tax block level:

```

<TAX>
  <ADDRESS_TYPE>SF</ADDRESS_TYPE>
  <ADMIN_ZONE_LEVEL>Province</ADMIN_ZONE_LEVEL>
  <AUTHORITY_NAME>Brazil ICMS Minas Gerais</AUTHORITY_NAME>
  <AUTHORITY_TYPE>ICMS</AUTHORITY_TYPE>
  <CALCULATION_METHOD>5</CALCULATION_METHOD>
  <COMMENT>BRZMG</COMMENT>
  <ERP_TAX_CODE>BRZMG</ERP_TAX_CODE>
  <EFFECTIVE_ZONE_LEVEL>Province</EFFECTIVE_ZONE_LEVEL>
  <INVOICE_DESCRIPTION>ICMS interestadual</INVOICE_DESCRIPTION>
  <JURISDICTION_TEXT>BRSG5: Interstate tax applies to Ship From location.</JURISDICTION_TEXT>
  <MESSAGE><img alt="icon" data-bbox="281 318 301 331"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 331 301 344"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 344 301 357"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 357 301 370"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 370 301 383"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 383 301 396"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 396 301 409"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 409 301 422"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 422 301 435"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 435 301 448"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 448 301 461"/></MESSAGE>
  <MESSAGE><img alt="icon" data-bbox="281 461 301 474"/></MESSAGE>
  <BUYER_REGISTRATION>123456789012</BUYER_REGISTRATION>
  <SELLER_REGISTRATION>1234567890123</SELLER_REGISTRATION>
  <RULE_ORDER>500</RULE_ORDER>
  <ORIGIN>5</ORIGIN>
  <CFOP>5101</CFOP>
  <CST>65</CST>
  <TAXABLE_COUNTRY>BR</TAXABLE_COUNTRY>
  <TAXABLE_COUNTRY_NAME>BRAZIL</TAXABLE_COUNTRY_NAME>
  <TAXABLE_PROVINCE>MINAS GERAIS</TAXABLE_PROVINCE>
  <TAX_DIRECTION>O</TAX_DIRECTION>
  <TAX_RATE_CODE>RR</TAX_RATE_CODE>
  <TAX_TYPE>ST</TAX_TYPE>

```

2. **CENQ** is not expected as an input into determination, rather its added to xml output from the Rule applied under IPI authority. For this reason, an input field for CENQ is added to Rules page for Brazil IPI authorities. Upon application of rule, the value of CENQ can be located under IPI authority Tax block as per the sample below:

```

<TAX>
  <ADDRESS_TYPE>SF</ADDRESS_TYPE>
  <ADMIN_ZONE_LEVEL>Country</ADMIN_ZONE_LEVEL>
  <AUTHORITY_NAME>Brazil IPI</AUTHORITY_NAME>
  <AUTHORITY_TYPE>IPI</AUTHORITY_TYPE>
  <CALCULATION_METHOD>5</CALCULATION_METHOD>
  <COMMENT>BRIPI</COMMENT>
  <ERP_TAX_CODE>BRIPI</ERP_TAX_CODE>
  <EFFECTIVE_ZONE_LEVEL>Country</EFFECTIVE_ZONE_LEVEL>
  <INVOICE_DESCRIPTION>RIPI Dec. 7.212/10</INVOICE_DESCRIPTION>
  <JURISDICTION_TEXT>BRS65: IPI applies to Ship To location.</JURISDICTION_TEXT>
  <MESSAGE></MESSAGE>
  <MESSAGE></MESSAGE>
  <MESSAGE></MESSAGE>
  <MESSAGE></MESSAGE>
  <MESSAGE></MESSAGE>
  <MESSAGE></MESSAGE>
  <MESSAGE></MESSAGE>
  <MESSAGE></MESSAGE>
  <MESSAGE></MESSAGE>
  <MESSAGE></MESSAGE>
  <BUYER_REGISTRATION>123456789012</BUYER_REGISTRATION>
  <SELLER_REGISTRATION>1234567890123</SELLER_REGISTRATION>
  <RULE_ORDER>400</RULE_ORDER>
  <CST>35</CST>
  <CENQ>630</CENQ>
  <TAXABLE_COUNTRY>BR</TAXABLE_COUNTRY>
  <TAXABLE_COUNTRY_NAME>BRAZIL</TAXABLE_COUNTRY_NAME>

```

3. **CFOP:** This field determines the nature of operation and should be determined per item of the invoice. Hence, its expected as a line level input parameter into Determination. Apart from being already present under Model Scenario's **Document Line > Overrides > Calcs**, CFOP was added to Rules page for Brazil ICMS authorities. The CFOP value passed is expected to be four-digit integer for example, 5105. To be matched, the CFOP value should be present in applicable Rules under ICMS (Ship To) authorities for a given transaction. Once the rule is applied, the CFOP tag with value can be located under Line tag and under ICMS Tax block level in the xml output as in the samples given above for ORIGIN.

4. **CST:** This field is related to the tax applied for each invoice item and should be determined per item of the invoice. A two-digit integer value for CST can be determined through the Rule applied under ICMS (Ship From), PIS, COFINS and IPI authorities. For this reason, CST field was added to the Rules page under ICMS, PIS, COFINS and IPI authorities. Once the rule is applied, the CST tag with value can be located under Tax block level block level in the xml output as in the sample given below:

<TAX>

```

<ADDRESS_TYPE>SF</ADDRESS_TYPE>
<ADMIN_ZONE_LEVEL>Province</ADMIN_ZONE_LEVEL>
<AUTHORITY_NAME>Brazil ICMS Minas Gerais</AUTHORITY_NAME>
<AUTHORITY_TYPE>ICMS</AUTHORITY_TYPE>
<CALCULATION_METHOD>5</CALCULATION_METHOD>
<COMMENT>BRZMG</COMMENT>
<ERP_TAX_CODE>BRZMG</ERP_TAX_CODE>
<EFFECTIVE_ZONE_LEVEL>Province</EFFECTIVE_ZONE_LEVEL>
<INVOICE_DESCRIPTION>ICMS interestadual</INVOICE_DESCRIPTION>
<JURISDICTION_TEXT>BRSG5: Interstate tax applies to Ship From locat
<MESSAGE><img alt="truck icon" data-bbox="298 355 328 370"/></MESSAGE>
<MESSAGE><img alt="truck icon" data-bbox="298 375 328 390"/></MESSAGE>
<MESSAGE><img alt="truck icon" data-bbox="298 395 328 410"/></MESSAGE>
<MESSAGE><img alt="truck icon" data-bbox="298 415 328 430"/></MESSAGE>
<MESSAGE><img alt="truck icon" data-bbox="298 435 328 450"/></MESSAGE>
<MESSAGE><img alt="truck icon" data-bbox="298 455 328 470"/></MESSAGE>
<MESSAGE><img alt="truck icon" data-bbox="298 475 328 490"/></MESSAGE>
<MESSAGE><img alt="truck icon" data-bbox="298 495 328 510"/></MESSAGE>
<MESSAGE><img alt="truck icon" data-bbox="298 515 328 530"/></MESSAGE>
<MESSAGE><img alt="truck icon" data-bbox="298 535 328 550"/></MESSAGE>
<BUYER_REGISTRATION>123456789012</BUYER_REGISTRATION>
<SELLER_REGISTRATION>1234567890123</SELLER_REGISTRATION>
<RULE_ORDER>500</RULE_ORDER>
<CST>65</CST>
<TAXABLE_COUNTRY>BR</TAXABLE_COUNTRY>
<TAXABLE_COUNTRY_NAME>BRAZIL</TAXABLE_COUNTRY_NAME>
<TAXABLE_PROVINCE>MINAS GERAIS</TAXABLE_PROVINCE>
<TAX_DIRECTION>0</TAX_DIRECTION>
<TAX_RATE_CODE>RR</TAX_RATE_CODE>
<TAX_TYPE>SI</TAX_TYPE>
<ZONE_NAME>MINAS GERAIS</ZONE_NAME>
<ZONE_LEVEL>Province</ZONE_LEVEL>
<TAX_RATE>0.12</TAX_RATE>
<NATURE OF TAX>P</NATURE OF TAX>

```


5. **CEST:** This field is a material characteristic, and it is used to determine if the product has or does not have tax substitution. It's expected as an alphanumeric input parameter applied at the item level. To be matched, the CEST value should be present in applicable Rules under Brazil IVA authorities for a given transaction. Once the rule is applied, the CEST tag with value can be located under Line tag and under IVA Tax block level in the xml output as in the sample given below:

```

<MESSAGE><img alt="icon" data-bbox="308 248 342 262"/></MESSAGE>
<POINT_OF_TITLE_TRANSFER>I</POINT_OF_TITLE_TRANSFER>
<SHIP_FROM_COUNTRY>BRAZIL</SHIP_FROM_COUNTRY>
<SHIP_TO_COUNTRY>BRAZIL</SHIP_TO_COUNTRY>
<TOTAL_TAX_AMOUNT>460.32</TOTAL_TAX_AMOUNT>
<CFOP>5101</CFOP>
<CEST>01.075.00</CEST>
<ORIGIN>4</ORIGIN>
<TAX><img alt="icon" data-bbox="262 412 296 426"/></TAX>
<TAX><img alt="icon" data-bbox="262 433 296 447"/></TAX>
<TAX><img alt="icon" data-bbox="262 454 296 468"/></TAX>
<TAX><img alt="icon" data-bbox="262 475 296 489"/></TAX>
<TAX><img alt="icon" data-bbox="262 496 296 510"/></TAX>
<TAX><img alt="icon" data-bbox="262 517 296 531"/></TAX>
<TRANSACTION_TYPE>GS</TRANSACTION_TYPE>
<UNIT_OF_MEASURE>each</UNIT_OF_MEASURE>
<QUANTITIES><img alt="icon" data-bbox="342 578 376 592"/></QUANTITIES>
<IS_CREDIT>>false</IS_CREDIT>
<INVOICE_DATE>2021-09-07</INVOICE_DATE>
<CUSTOMER_GROUP_NAME>DEFAULT</CUSTOMER_GROUP_NAME>
<CUSTOMER_GROUP_OWNER>Brazil Standard</CUSTOMER_GROUP_OWNER>
<VENDOR_GROUP_NAME>DEFAULT</VENDOR_GROUP_NAME>
<VENDOR_GROUP_OWNER>Brazil Standard</VENDOR_GROUP_OWNER>
<BILLED_QUANTITY_TYPE>GROSS</BILLED_QUANTITY_TYPE>
<TAX_SUMMARY><img alt="icon" data-bbox="358 745 392 759"/></TAX_SUMMARY>
</LINE>

```

With each of these fields being independent of each other's value, the precedence order of matching Rules through these input fields is CEST, then CFOP, and lastly ORIGIN.

The Rules page restricts to relevant fields based on the respective authority selected.

TaxCalculationService_2020-03-01.xsd and TaxCalculationService_2011-09-01.xsd are updated as per the addition of new (optional) input fields CFOP, CEST, ORIGIN, CENQ and CST.

Brazil: Add Line Level Fields for CFOP, CEST and ORIGIN under TransEditor Actions/Conditions (TE-11344)

Values for the CFOP, CEST and ORIGIN input fields can be set in TransEditor (**TransEditor > Actions/Conditions** to access) using the following line level element or expression fields:

- LINE.CEST (alphanumeric)
- LINE.CFOP (numeric)
- LINE.ORIGIN (numeric)

Brazil - PIS/COFINS Basis – XML Element in TransEditor for Exclusion of ICMS (TE-11323)

The applicability of excluding ICMS from the taxable basis of PIS and COFINS is not mandatory. The **Brazil PIS and COFINS Taxable Basis** company option was added to exclude ICMS from PIS and COFINS basis for the Seller, Buyer or both company roles. However, because start and end dates were unavailable for company option, selecting this option created issues for credit memos and returns for periods prior to when the **Brazil PIS and COFINS Taxable Basis** company option was enabled.

Due to this limitation, the XML element, INCLUDE_ICMS, was made available in TransEditors at the line level and invoice level. The values are: True and False. When the value for INCLUDE_ICMS is True, ICMS is included in the taxable basis of PIS and COFINS. When the value is False, ICMS is excluded.

Brazil - MVA Adjusted in Internal Operations and "Agreement 06/2009" - ICMS ST Interstate (TE-10563, TE-11349)

Two new types of tax substitution calculations are available under the **Tax Substitution (Brazil Only)** calculation method in ICMS ST Authority Rules. These calculations accommodate the use cases for intrastate and interstate transactions with MVA with and/or without a reduction basis percentage in the ICMS basis. This applies to scenarios with Inclusive and Standard type calculations on the net and gross amount, respectively.

For the above calculation methods, the **Tax Substitution** drop-down list was added. The selections include **None** (the default), **Type 1** and **Type 2**.

For intrastate transactions on certain goods identified through commodity and CEST codes, Type 1 calculations for the tax substitution calculation method in Rules under the ICMS-ST authority that have a matching CEST code would apply to the transactions considering the gross/recomposed ICMS basis across the Inclusive and Standard methods of calculation.

Per ICMS Agreement 06/2009 for interstate transactions on certain goods identified through commodity and CEST codes with reduction basis percentage in ICMS basis, Type 2 calculations for the tax substitution calculation method in Rules under the ICMS-ST authority would apply to the transaction across the Inclusive and Standard methods of calculation.

For the existing calculation for all other interstate transactions with no reduction in the ICMS basis, **None** would apply to keep the as-is calculations for MVA using the gross/recomposed basis for ICMS across the Inclusive and Standard methods of calculation.

Brazil - ICMS ST - Tax Burden Lower than the Normal ICMS Rate with Limited Credit - Type 3 (TE-10970)

ONESOURCE Determination provides the Type 3 calculation option for calculating the ICMS ST when the operation is subject to a reduction in the taxable basis of the ICMS and a proportional reversal of the ICMS from the acquisition is required. This was added to the ICMS ST calculation.

The calculation of the ICMS ST is applied over the ICMS of the operation. The percentage of the taxable basis reduction due in the subsequent operation limits the credit of the ICMS to the effective burden tax of the final operation.

The formulas applied to calculate the ICMS ST with a credit limit according to the effective ICMS burden tax are:

$$\text{ICMS ST Basis} = ((\text{Gross Amount} + \text{IPI Amount}) + ((\text{Gross Amount} + \text{IPI Amount}) * \% \text{MVA})) * \% \text{ICMS ST Basis}$$

$$\text{ICMS ST Amount} = ((\text{ICMS ST Basis} * \% \text{ICMS ST Amount}) - ((\text{ICMS Basis} * (\% \text{ICMS ST Amount} * \% \text{ICMS ST Basis}))))$$

Operating System New Version Support (TE-11182)

Reporting 6.8.1.0 now supports Microsoft Windows 2019 version.

Please refer to the *ONESOURCE Indirect Tax Determination 5.13.x.x Documentation and Platform Support* knowledge base article for more details related to supported platforms.

Microsoft SQL Server New Version Support (TE-10498)

Determination 5.13.4.0 now supports Microsoft SQL Server 2019 version.

Please refer to the *ONESOURCE Indirect Tax Determination 5.13.x.x Documentation and Platform Support* knowledge base article for more details related to supported platforms.

JBoss New Version Support (TE-11315)

Determination 5.13.4.0 now supports JBoss 7.3 & 7.4 Enterprise Edition versions of application server.

Please refer to the *ONESOURCE Indirect Tax Determination 5.13.x.x Documentation and Platform Support* knowledge base article for more details related to supported platforms.



JBoss 7.2 is not supported with this version of Determination. It is being considered for support in a future version based on need.

Java New Version Support (TE-10128)

Determination 5.13.4.0 now supports Oracle Java 11 version.

Please refer to the *ONESOURCE Indirect Tax Determination 5.13.x.x Documentation and Platform Support* knowledge base article for more details related to supported platforms.

ADDRESSED ISSUES

Log4j Library Upgrade - System Security Update (TE-11433/TE-11449)

To address the newly announced security vulnerability (CVE-2021-45105) impacting the Java logging library Apache Log4j, versions 2.14.1 and below, an upgraded library, Log4j 2.17, is now available as part of this Determination version.

Brazil: Determination Tax Calculation Improvements (TE-11366)

Slow performance issues were reported for transactions related to Brazil tax calculations. This improvement involved two things:

1. For Brazil transactions only, ignore any setup involving Cascading Rules.
2. Database changes in relation to how a Rule Qualifier is setup. Since there is a dependence on related tax content updates, the full performance improvements will not be reflected until those tax content changes get released in Q2 2022.

Brazil: Pauta Fiscal: Product Pricing File Import Error - Pharma (TE-11342)

The error that occurred when importing a Brazil Pauta Fiscal pricing file into ONESOURCE Determination is now resolved.

Invalid Tax Registration Number for Custom Authorities without a Registration Mask (TE-11006)

When a custom authority without registration mask was attached to a standard authority, the registration mask was not being validated thereby returning incorrect results. This issue was reported for Canada but has been corrected for all international authorities.

If **PRL-Parent Registration Lookup** is set to **Y** for an individual authority (standard or custom) the registration mask for the authority attached to the parent Zone (e.g., Canada) is used as the secondary check to validate the registration number provided. If this is set to **N** then only that authority's registration mask is considered.

Fixing Export/Import Transactions for Switzerland and Liechtenstein (TE-11135)

Incorrect results were returned for sales and purchase transactions from Liechtenstein to any EU country with transaction types Default Services (DS), Electronic Services (ES) and Customer Location Services (CLS). Similarly, sales and purchase transactions from any EU country to Switzerland with transaction types Default Services (DS) and Electronic Services (ES) were returning incorrect results. Both above scenarios are now corrected.

Also, Import of goods from EU countries to Switzerland is now corrected to return output and recovery tax blocks instead of returning only input tax block.

The corresponding messages for all the above scenarios have also been changed to reflect the corrected tax results.

Post-Brexit VAT Registration Results Return Two Tax Blocks (TE-11247)

For the scenario of domestic supply of services in United Kingdom within the same entity (VAT numbers of seller and buyer roles are same) where the transaction type is **Default Services (DS)**, two tax blocks were returned with same tax type 'NL' or 'IC' (when Post Version 5.1.1 tax types was enabled). The duplicated tax block is now removed.

Location Consideration for Electronic Services in EU (TE-11306, TE-11406)

For EU related sales and purchases services transactions (domestic, Intra-community, and cross border) where the Electronic Services (ES) transaction type is used, 'Ship From' and 'Ship To' address elements are being evaluated instead of 'Seller Primary', 'Buyer Primary' address elements like other transaction types. This was resulting in failure of transactions where 'Ship From' and 'Ship To' address elements were not passed.

The EU Electronic Services calculations logic has now been changed to

- Prioritize 'Seller Primary' and 'Buyer Primary' address elements for tax calculation purposes (even if other locations are provided).
- 'Ship From' and 'Ship To' address elements are considered when 'Buyer Primary' and 'Seller Primary' elements are absent.

The above changes will not impact the tax results of B2C cross border transactions where OSS is active and transaction type is set as **Electronic Services (ES)** but seller is not registered in OSS country, so that the results will be given also for the input including Seller Primary and Buyer Primary locations and won't be failing in case some other locations are provided. The Use Cases including the current and expected results will be attached soon.

Certificate Manager Creating Duplicate Records in Determination (TE-11372)

An issue was found when a certificate with no limited use criteria was created and later modified to include the limited use criteria. Instead of updating the existing certificate, a duplicate certificate was being created. This issue is now corrected.

Document Rounding Not Supported for Hungary (Forint) (TE-11382)

An issue was identified when Hungary was enabled for Document Rounding where the Minimum Accountable Unit (MAU) of 5 was not being correctly rounded by the tax engine. This issue is now fixed.

KNOWN ISSUES

Cluster Failing for SQL Server 2016 and Oracle Java 10 Combination (TE-11188)

An issue was identified in 5.13.1.0 version where the application was failing to run on a clustered setup when using a combination of MS SQL Server 2016 and Oracle Java 10.

As a temporary workaround, upgrade Determination without cluster setup. Enable the cluster setup after your upgrade of Determination is complete.

DETERMINATION 5.13.3.3 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.3.3 includes an addressed issue.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topic below describes the issue addressed with the 5.13.3.3 release of ONESOURCE Indirect Tax Determination.

Log4j Library Upgrade - System Security Update (TE-11466)

To address the newly announced security vulnerability ([CVE-2021-44832](#)) impacting the Java logging library Apache Log4j version 2.17, an upgraded library, Log4j 2.17.1, is now available as part of this Determination version.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.3.2 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.3.2 includes an addressed issue.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topic below describes the issue addressed with the 5.13.3.2 release of ONESOURCE Indirect Tax Determination.

Log4j Library Upgrade - System Security Update (TE-11451)

To address the newly announced security vulnerability (CVE-2021-45105) impacting the Java logging library Apache Log4j, an upgraded library Log4j 2.17.0 is now available as part of this Determination version.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.3.1 RELEASE NOTES

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.3.1 includes an addressed issue.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topic below describes the issue addressed with the 5.13.3.1 release of ONESOURCE Indirect Tax Determination.

Log4j Library Upgrade - System Security Update (TE-11429)

To address the newly announced security vulnerability (CVE-2021-44228) impacting the Java logging library Apache Log4j, versions 2.14.1 and below, an upgraded library, Log4j 2.16, is now available as part of this Determination version.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.3.0 RELEASE NOTES

NEW FEATURES - 5.13.3.0

Brazil DIFAL Type Scenario with Reduction Basis - Agreement 52/91 (TE-11239 and TE-11240)

To comply with Agreement 52/91 (Convênio ICMS 52/91), the tax engine was enhanced to consider the correct ICMS tax burden to calculate the Type 1, Type 2, Type 3, Type 4 and Type 5 DIFAL Buyer tax types when ICMS has the benefit of a reduction basis. The reduction percentage on ICMS is applied on the following:

- The ICMS (source/interstate) calculation basis
- The IRCMS-RD (buyer) and ICMS-RD ST (seller) (destination/intrastate) when calculating the DIFAL amount using the **Rate Differential (Brazil Only)** calculation method for buyer and seller transactions
- The Inclusive and Standard methods for net and gross amounts, respectively.

The rules under the relevant ICMS, ICMS-RD and ICMS-RD ST state authorities disclose that the percentage of the reduction basis is applicable for certain commodity codes.

Also, **Type 6** was added as a DIFAL type for both the buyer and seller. For seller operations in all states, selections were added to the existing DIFAL type **ST/CEST Code Type**. **Type 1, Type 2, Type 3, Type 4, Type 5** and **Type 6** can be selected in the rules for seller-side operations with CEST codes as well as the Qualifiers to separate them from buyer-side operations.

The changes detailed above apply to Business to Consumer (B2C) scenarios where the **Business Supply** flag is set to **No**.

Brazil MVA Adjusted for ICMS-ST when Destination State Has a Reduction Basis Benefit for the Authorities (TE-11242)

Tax calculations were enhanced to consider the ICMS ST reduction basis in the Markup Value Adjusted (MVA) adjustment formula. Both buyer and seller operations are addressed so that the BRAZIL IVA authority is triggered to calculate the correct amount for Brazil ICMS-ST and Brazil ICMS FCEP-ST for transactions where MVA is applied. The enhancement to the tax calculations is as follows:

ShipFrom ICMS = 1 - ICMS Ship From tax rate

ShipTo ICMS = 1 - {(ICMS Ship To tax rate * reduction Basis Percentage) + FCP tax rate}

MVA adjusted formula:

- If Ship From > Ship To is Yes, then IVA factor = $\{((1 + \text{IVA authority rate}) * (\text{ShipFrom ICMS}/\text{ShipTo ICMS})) - 1\} * 100$
- If Ship From > Ship To is No, then IVA rate is used as per Rule.

Brazil Differential Rate Zero or Negative (TE-11256)

The tax engine was enhanced so that the DIFAL amount is considered as zero if it is calculated as a negative value. This occurs in scenarios where there is a reduction basis percent for BRAZIL ICMS and/or BRAZIL ICMS-RD and BRAZIL ICMS-RD ST authorities, or in scenarios where the intrastate rate is less than the interstate rate. This change applies to buyer and seller roles for B2C transactions where the **Business Supply** flag is set to **No**. It applies to the **Rate Differential (Brazil Only)** calculation method and affects the Standard and Inclusive methods. It also applies to the Type 1 through Type 6 DIFAL types.

Brazil DIFAL Non-Taxpayer Enhancements - Agreement 153/15 (TE-11241)

To comply with Agreement 153/1515 (Convênio ICMS 153/15), the **Tax on Contributing Authorities** calculation method for a rule now considers the correct ICMS tax burden to calculate the DIFAL amount for a non-taxpayer when ICMS has a reduction basis and an exempt benefit. The reduction basis percent is applied to the taxable basis before calculating the value of the DIFAL amount.

Additionally, when the ICMS intrastate is exempt (or not liable), the factor is recalculated using the ICMS Interstate effective rate to recompose the gross amount value. Logic was added to recalculate the factor for the Standard method only when the DIFAL amount calculated in the first pass is a negative value. When the recalculated DIFAL amount is based on a new factor and the new factor is negative (for example, when the recalculated factor is the same as the one before), the DIFAL amount is zero.

The changes detailed above apply to seller-role transactions where the seller is registered, and to B2C transactions where the **Business Supply** flag is set to **No**. The changes also apply to Brazil ICMS-DIFAL (State) authorities where the authority type is ICMS-RD.

ADDRESSED ISSUES - 5.13.3.0

Brazil Buyer-Side Fix for MVA Scenarios (TE-11246)

The logic for buyer transactions is fixed to trigger the BRAZIL FCEP II authority to calculate the correct tax amount for Brazil ICMS-ST for interstate scenarios where MVA needs to be applied. No changes were required to the interstate scenarios for seller transactions.

Tax Not Calculated in Goods B2B Transactions when OSS Is Set Up (TE-11278)

For the Goods transaction type, setting the EU One Stop Shop (OSS) authority is applicable for only B2C transactions, and not for B2B transactions. An issue was identified where, during the period when OSS was active, the "Failed to calculate tax" error displayed for EU intra-Community dispatches (B2B goods transactions) between two EU member states.

This issue is addressed. The expected tax treatment is displayed for EU intra-Community dispatches even if the OSS set up is activated.

IOSS Scheme Incorrectly Applied to B2B Sales (TE-11308)

The Import One Stop Shop (IOSS) scheme is applicable for only B2B transactions from non-EU to EU countries where the company role is Buyer. However, when IOSS set-up was active and the transaction type was Low Value Goods (LV), IOSS reporting requirements were incorrectly applied to B2B sales.

The issue is addressed. The correct tax treatment is applied to B2B sales.

Filing Authority Not Populated in the Database for B2C Goods Transactions (TE-11279)

The EU country where OSS was set up becomes the reporting authority, and the authority's name did not display in the FILING_AUTHORITY_NAME audit database field for B2C Goods transactions. This issue was addressed.

Incorrect Unrounded Tax Amount (TE-11175)

An issue was identified where both UNROUNDED_DOCUMENT_AMOUNT and DOCUMENT_AMOUNT of <TAX_AMOUNT> were adjusted when document rounding is enabled. This was addressed. <UNROUNDED_DOCUMENT_AMOUNT> remains the same even if the DOCUMENT_AMOUNT is adjusted.

Correct Document Rounding for Transaction Lines with Multiple Authorities in Turkey (TE-11177)

An issue was identified where document rounding did not return correct values for a Turkish transaction involving multiple authorities. This issue was addressed when document rounding is enabled for Turkey.

Country Prefixed Registration Number to Be Applied (TE-10996)

An issue was identified for transactions with a **Default Services** transaction type where the registration number with the country prefix was not correctly evaluated and applied among other registration numbers provided for in the transaction. This issue is fixed now.

The Exempted Amount Displayed under the Taxable Basis (TE-11268)

This issue is related to identifying exemptions on graduated rates (a feature added in the 5.12.3.2 release). When the **Exempt** check box is selected for graduated rates, the exempt amount is displayed under both the TAXABLE_BASIS and EXEMPT_AMOUNT fields. This issue is addressed. The TAXABLE_BASIS is zero for transactions with an exempt graduated rate.

KNOWN ISSUES - 5.13.3.0

There are no known issues in this release.

DETERMINATION 5.13.2.0 RELEASE NOTES

NEW FEATURES - 5.13.2.0

Domestic Reverse Charge - Invoice Gross Amount for Qualifiable Line Items (TE-11108)

Domestic Reverse Charge (DRC) thresholds are required to be considered within the total invoice Gross Amount. In addition, the DRC total invoice Gross Amount threshold should consider only those line items in the invoice that qualify for DRC, and ignore those that do not. Determination now supports the identification of qualified line items for DRC by providing the following elements in **Rules**:

- The new **DRC** (Domestic Reverse Charge) check box.
- The new **INVOICE.DRC_GROSS_AMOUNT** Rule Qualifier Element.

After the two elements are set in a rule for an applicable authority, Determination groups only those line items in the transaction to check whether the threshold amount is met. This will be included as part of the standard tax content for applicable authorities (for instance, the Austria Domestic Reverse Charge) in a future release of content. Be sure to watch for the content release notice.



Determination addressed the DRC total invoice Gross Amount in a previous version (see [Support for Invoice Gross Amount \(TE-9947/TE-10795\) \(page 75\)](#) for details) but that feature works when all line items qualify for DRC, not when there is a mix of DRC and non-DRC eligible line items in the invoice.

One of the conditions for the threshold check for DRC is that all of the invoice line items should be for the same location. If some lines have locations that are different then the threshold cannot be applied because each DRC authority may have a different threshold defined. The system is not able to distinguish the threshold amount for the different authorities within the same invoice.

Brazil DIFAL - Logic Change for Buyer and Seller Operations (TE-10723 and TE-10724)

To comply with Brazilian legislation (Art. 155, § 2º, VII and VIII, Federal Constitution and each states' internal legislation), the logic for the DIFAL type calculation was updated to include IPI on an ICMS calculation basis. This change was applied into the logic of the rate differential (Brazil Only) calculation method (within a Rule), which can be applied to work with both Standard and Inclusive (Qualifiers) methods.

The following are part of the scope:

- The rate differential applies when the Ship From location does not equal the Ship To location.
- The company roles and authority types are:
 - Buyer and ICMS-RD (TE-10723)
 - Seller and ICMS-RD or ICMS-RD ST (TE-10724)
- The transaction is B2C (the Business Supply flag is set to **No**).
- For the Buyer side operation, this applies across all five DIFAL types. For the Seller side operation, this was applied to only one existing ST/CEST code type.

Tax content was already released to support this logic change.

Brazil Calculations - New Calculation Method to Exclude ICMS for Certain Transactions (TE-11056)

New Brazil (Standard) and **New Inclusive Tax (Brazil Only)** calculation methods (within a Rule) were created to exclude ICMS from the taxable basis of PIS and COFINS. These methods can be applied to both Buyer and Seller side scenarios for both the resale and consumption or capitalization of assets scenarios (B2B and B2C, where the Business Supply flag is set to **Yes** or **None** or **No**, respectively).



Since this new logic is applicable on a company-to-company basis, these rules are not available as part of the standard tax content. If the new logic is relevant to you, you must create custom rules.

Brazil Calculations - New Calculation Method to Exclude ICMS and Include IPI for Certain Transactions (TE-11057)

The **PIS COFINS (Brazil Only)** calculation method (within a Rule) was added to exclude ICMS from the taxable basis of PIS and COFINS. Since the IPI tax amount charged by the seller is taken as a cost by the buyer, PIS and COFINS needed to have the taxable basis increased to allow complete recovery of those taxes. Consequently, this method is applicable to only Buyer side transactions for both the resale and consumption or capitalization of assets scenarios (B2B and B2C, where the Business Supply flag is set to **Yes** or **None** or **No**, respectively).



Since this new logic is applicable on a company-to-company basis, these Rules are not available as part of the standard tax content. If the new logic is relevant to you, you must create custom rules.

This new calculation method can be used with the standard method only. The applicability with the Inclusive (in Qualifier) method in a future release (TE-11244).

Brazil -Company Options for PIS COFINS Taxable Basis (TE-11222)

The changes to the calculation method logic described in [Brazil Calculations - New Calculation Method to Exclude ICMS for Certain Transactions \(TE-11056\) \(page 62\)](#) and [Brazil Calculations - New Calculation Method to Exclude ICMS and Include IPI for Certain Transactions \(TE-11057\) \(page 62\)](#) require setting up custom rules. Rather than creating custom rules, you can set at the Company level the option to exclude ICMS from PIS and COFINS calculations. The Tax Logic & Company Admin screen now includes the **Brazil PIS and COFINS Taxable Basis** option. Selections include:

- **ICMS_EXCLUDE - BUYER** - When selected, ICMS is removed from the taxable basis of PIS COFINS for Buyer operations (Purchase to Payment (P2P) scenarios).
- **ICMS_EXCLUDE - SELLER** - When selected, ICMS is removed from the taxable basis of PIS COFINS for Seller operations (Order to Cash (OTC) scenarios).
- **ICMS_EXCLUDE - BOTH** - When selected, ICMS is removed from the taxable basis of PIS COFINS for both Buyer and Seller operations (P2P and OTC scenarios).

These selections remove ICMS from the taxable basis for PIS COFINS scenarios for the existing Brazil (Standard), Inclusive Tax (Brazil only), and PIS COFINS (Brazil Only) calculation methods (within a Rule).

If a selection is not made for the **Brazil PIS and COFINS Taxable Basis** option, the system will use the existing methods, which do not use the new logic to exclude ICMS from the taxable basis for PIS COFINS.

ADDRESSED ISSUES - 5.13.2.0

Log4j library upgrade - System Security Update (TE-11451)

To address the newly announced security vulnerability (CVE-2021-45105) impacting the Java logging library Apache Log4j, an upgraded library Log4j 2.17.0 is now available as part of this Determination version.

Brazil - Factor Calculation to Include PIS and COFINS Reduction Basis in Rule (TE-11220, TE-11154, TE-11165)

Fixed the error in the factor calculation for the calculation of the taxable basis for those scenarios where a reduction percentage for PIS and COFINS rates must be applied. This factor is applied to the recomposed basis calculation.

The calculation methods in this scope are for Brazil (Standard) and PIS COFINS (Brazil Only).

NL Results missing for Customer Location Services from EU to Non-EU Location (TE-11217)

An issue was identified where NL was not found in the results of the **Customer Location Services** (CL) transaction type. This issue is fixed. NL now shows in the results if one of the following conditions match for CL transactions:

- The Seller's primary and supply locations are inter-country.
- The Buyer is not registered in the Seller's location.
- The **UE - Used and Enjoyed** authority option is not set to **Both**.

No Tax Results for Non-Established Authorities in Arizona State (TE-11215)

An issue was identified for non-established authorities in the state of Arizona (AZ) where there was not an output result for the authority even though the system messages stated that the authorities were not established (USBG34). This issue is fixed. The NL result is now included in the output with the system messages stating USBG39.

NL to GB Movement Date (Brexit) (TE-11216)

For post-Brexit (2021 transactions to the United Kingdom (GB), the invoice date was considered even though the movement date was present in a transaction. This caused an incorrect tax result in the output. This issue is fixed. The movement date is correctly taken into consideration for a tax determination date after 2020.

KNOWN ISSUES - 5.13.2.0

Slow Calculation Performance Observed in Brazil (TE-11207)

With the recent changes to support Brazil tax calculations, slower performance is reported for Brazil-related transactions. The resolution is being analyzed and the issue is scheduled to be addressed in a future release.

Country Prefixed Registration Number to Be Applied (TE-10996)

An issue was identified for transactions with a **Default Services** transaction type where the registration number with the country prefix was not correctly evaluated and applied among other registration numbers provided for in the transaction. This issue will be fixed in a future release.

DETERMINATION 5.13.1.0 RELEASE NOTES

NEW FEATURES - 5.13.1.0

EU One Stop Shop (OSS) (TE-11125, TE-11126, TE-11127, TE-11128, TE-11129)

Determination now supports OSS (One Stop Shop) regulations that take effect from July 1, 2021. For more information on OSS, please refer here - https://ec.europa.eu/taxation_customs/business/vat/new-oss-schemes_en

The OSS regulations are supported by ONESOURCE Determination for the following Transaction Types only:

- Goods (GS)
- Low Value Goods (LV)
- Default Services (DS)
- Electronic Services (ES)
- Customer Location Services (CL)
- Physical Performance (PP)

The rest of the Transaction Types will be supported later.

For OSS tax results to apply to the transaction, ensure that you configure the OSS Authority in Determination from **Menu > System > Companies > Tax Preferences > European Union One-Stop Shop (OSS)**.

Note that **Import One Stop Shop (IOSS)** is the setting that applies to Low Value Goods (LV) transactions only. For this logic to apply to LV transactions, the IOSS Authority must be set on the screen mentioned above. In addition, the Registration Number should be prefixed as **IM** (this Registration Mask definition will be supported for applicable Authorities as part of standard tax content).

The new OSS/IOSS tax results only apply for transactions with an effective date starting July 1, 2021.

If you want to know more about how to set up EU OSS, please refer to the below article:

<http://tax.thomsonreuters.com/site/support/onesource/indirect-tax/?search=000106212>

New Authority Option Configuration for Low Value Goods (TE-10952)

A new option, **LV - Low Value Goods Reverse Charge** was added (**Menu > Tax Data > Authorities > Advanced Configuration > Options**) to meet the reverse charge regulations for applicable authorities in low value goods transactions. The applicable values for this setting are:

- Condition Foreign Transaction
- Value Registration Required

Minimum Accountable Unit (MAU) Update for Currencies (TE-10989)

Minimum Accountable Unit (MAU) is updated for the following currencies and set to 0.001;

- Bahraini Dinar (BHD)
- Kuwaiti Dinar (KWD)
- Libyan Dinar (LYD)
- Omani Rial (OMR)

Previously the MAU for these currencies were set as 0.01.

GCC - New Tax Logic for Transport Services and POTT (TE-10704, TE-10879)

Until the introduction of a common *Electronic Services System in all GCC countries*, the special VAT treatment of intra-GCC supplies is suspended. Therefore, a new logic is required to support the current VAT treatment in which there is no distinction between GCC and non-GCC countries in terms of cross-border transactions. This is being supported for certain Transaction Types such as Goods, Physical Performance, and Default Services in the previous Determination version. Transport Services and Goods, when Point of Title Transfer (POTT) is Origin or Destination, are addressed in this version.

ADDRESSED ISSUES - 5.13.1.0

Tax Treatment Issues When Adding new Authority to UK (TE-10718)

When adding new Authorities (regardless if they are turned on or off) to the main Authority of the United Kingdom, it was observed that the tax treatment for the supply of goods from the UK to other EU countries was changed from Zero-rated Intra-Community Dispatch to a locally (UK) taxed supply. This has now been addressed.

Default Services - Company's Buyer Registration Not Picked Up After 2020 (Brexit) (TE-10955)

If the Registration Number (Reg #) is stored within a company's setting (**Menu > Company Data > Registrations**), there was an issue where the tax engine was not considering that Reg # for buyer role transactions when the date of the transaction was after the year 2020. This affected transactions between the United Kingdom (UK) and the European Union (EU) related to the Brexit deal. This issue is now resolved.

Italy Tax Amount Rounding (TE-10919, TE-11029)

Previously, a generic application of rounding was applied based on the highest tax rate regardless of the number of line items in the transaction. The Italian government rules require the tax rounding to be applied to the tax rate where the rounding error was found. The tax engine has been updated to address the transaction rounding logic for Italy at the document level to comply with these rules.

Evaluation of B2B Company Setting (TE-10956)

Determination did not consider the company setting **Use Business Supply Flag for B2B Determination** in conjunction with `<IS_BUSINESS_SUPPLY>true</IS_BUSINESS_SUPPLY>` in transaction settings. This issue is now fixed.

Improper Seller's VAT Registration Number (VRN) on Import Transaction into GB (TE-11086)

Determination has addressed an issue where European Union (EU) seller's VRN was not properly picked up for importation into Great Britain (GB) for transactions starting 2021. The tax calculation is accurate, but the seller VRN was missing from output response messages (System Messages) from the tax engine. After this fix, the VRN of the seller will also be available in the output message.

Buyer and Seller Registration Numbers Being Populated Disregarding Company Role (TE-11042)

Registration number for both Buyer and Seller in a transaction needs to be picked up from Registrations (**Menu > Company Data > Registrations OR VAT Group Registrations**) based on the Company Role within the transaction.

Incorrect Registration Number Shown for Low Value Goods (TE-10927)

An issue was identified in Low Value Goods transactions where the registration number was not being picked up from the respective authority.

State Bracket Tax Issues (TE-10758)

Issues identified with other State Bracket Taxes, for instance, Florida & Pennsylvania, due to fixes done to the Maryland State Bracket Tax Authority, have been resolved.

Maryland Bracket \$0.00 Line Issue - Java Exception (TE-10654)

A Java ConcurrentModificationException error was occurring when the last line of an invoice Gross Amount is \$0.00. This has now been addressed.

Taxable Basis for PIS & COFINS to Include IPI Cost (TE-10998)

For B2B or B2C transactions in Brazil, the IPI tax amount that is charged by the seller is treated as a cost by the buyer. Therefore PIS & COFINS is to be increased to allow recovery of those taxes completely. To address this, not only is there a tax engine enhancement, but new Rules have been added to the PIS & COFINS Authorities with the addition of a new Calculation Method **PIS COFINS (Brazil Only)**.

Timeout Issue with Rules for Brazil IVA Authority (TE-10886)

An issue was reported with some Authorities for which the Rules page was loading very slowly or even timing out the application. This was identified as a problem caused by the loading of data in columns **Qualifier** and **Rule Output** on the Rules page. Determination is now automatically hiding the display of these two columns for those Authorities having more than 3500 Rules (active and inactive, since this seemed to be the threshold number at which the page timed out). The application does not time out after this change.

System Security Updates – Outdated Third Party Libraries (TE-11079, TE-11078, TE-11075, TE-10902, TE-10906, TE-11063, TE-10904, TE-10903, TE-10729)

Addressed some critical/high/medium level security system vulnerabilities that were identified in third party libraries utilized by the application:

- dom4j library version 1.6.1
- xalan library version 2.7.0
- bsh-core library version 2.0b4
- bcprov-jdk15on library version 1.57
- poi library version 3.16
- guava library version 22.0
- log4j-core library version 2.5
- beanutils library version 1.9.3
- commons-io library version 1.3.2
- commons-codec library version 1.10
- xstream version 1.4.10
- batik-dom version 1.7
- jackson-databind version 2.8.8

KNOWN ISSUES - 5.13.1.0

Overlapping Company Registration Numbers Not Being Allowed For "IM" and Others (TE-11208)

The current screen for company Registration Number setup (**Menu > Company Data > Registrations**) does not allow more than one effective Registration Number to be setup at a time for the same authority. This existing rule will prevent the IM Registration Number (specific to Low Value Goods transaction when IOSS authority is set) from being setup in conjunction with a different Registration Number for the same authority, or vice versa. This requirement will be addressed in a future release.

Until the fix is put into place, the company can pass one of those Registration Numbers within the transaction itself.

Outstanding Application Vulnerabilities with Third Party Libraries (TE-11082, TE-10728, TE-11080, TE-11076, TE-11077, TE-11102, TE-11103)

There are still some more third-party library updates to make within the application, all of which will be addressed in a future version.

Cluster failing for SQL Server 2016 and Oracle Java 10 Combination (TE-11188)

An issue has been identified where the application is failing to run on a clustered setup when using a combination of MS SQL Server 2016 and Oracle Java 10. This issue will be addressed soon.

Issues When Using Allocations (TE-11191)

Two issues are identified when the tax Allocation process is used for a transaction.

1. A mismatch occurs between total Tax Amount for the invoice and the total Tax Amount for the line. The invoice total Tax Amount is correct, while the line total Tax Amount is not.
2. "Penny (0.01) pitching" is not occurring for authority Tax Amount within the line. The line total Tax Amount is correct, but the authority Tax Amount is not being adjusted to match with it.

Both these issues will be addressed in a future release.

DETERMINATION 5.13.0.1 RELEASE NOTES

NEW FEATURES - 5.13.0.1

No new features from previous release.

ADDRESSED ISSUES - 5.13.0.1

Special Characters Identified in the System (TE-110141)

While addressing a minor vulnerability present in the system, we noticed an issue with the conversion of spaces or double hyphens to special characters. Even though this is only seen in areas where an XML output file is created, we have decided to revert the change so that this behavior is not present anymore. The minor vulnerability will be addressed in a future release.

KNOWN ISSUES - 5.13.0.1

Unable to use or add the Quicklinks (TE-11032)

An issue has been identified in loading the links assigned to Quicklinks or adding new links to it. Though this is not blocking any Determination core functionalities, it is planned to be fixed in a future release.

DETERMINATION 5.13.0.0 RELEASE NOTES

NEW FEATURES - 5.13.0.0

Support for Invoice Gross Amount (TE-9947/TE-10795)

Tax treatment on the sale of specific goods and services may evaluate total invoice gross amount and not individual line-level gross amounts to determine the tax amount. Determination now provides support for this with the addition of **INVOICE.GROSS_AMOUNT** as a new element in Rule Qualifiers and TransEditors. This allows Determination to consider the total sum of the Gross Amount across all lines on the Invoice where previously only **LINE.GROSS_AMOUNT** was supported.

The addition of this new element can help with the evaluation of Domestic Reverse Charge (DRC) thresholds that is required for specific Countries (e.g. Austria). Using this new element considers all products included in the invoice for the evaluation of the invoice total. Therefore, if the invoice includes a mix of DRC applicable and non-applicable products, then the non-applicable product(s) gross amount will be included in the consideration of total invoice Gross Amount.

Brazil PPB Rules Change - Rio De Janeiro (TE-9475)

Regarding PPB (Processo Produtivo Basico or Basic Production Process), calculation logic adjustments are made in the tax engine specifically for Rio de Janeiro. The applicable rate by the law is 7% (Prod value of 1000.00; Regular rate is 18%; ICMS amount 70.00). The tax engine considers the effective rate as an element of the ICMS calculation.

Without this enhancement to the tax engine, the **Tax Substitution (Brazil Only)** *Calculation Method* will consider the Ship To state at the regular rate instead of the 7%. This would result in a negative number - Zero in output response.

Brazil ICMS-ST Rate Higher Than "ICMS Normal" Rate. (TE-10062)

This enhancement changes the calculation logic whenever the ICMS-ST rate at the Ship To location is lower than the ICMS Normal rate.

In most cases, ICMS-ST rate is higher than the ICMS Normal rate. However, it can be the reverse case for some products in some States. In that situation, the ICMS-ST value results in a negative number. A new conditional logic has been added to address this. The logic can be summarized as "Only for ICMS-ST calculations purposes, if ICMS-ST rate is lower than ICMS Normal rate, then use ICMS-ST rate to calculate the ICMS Normal value."

Add Northern Ireland (Brexit) (TE-10913)

Determination added Northern Ireland as a country in the list of zones due to new regulations as part of Brexit.

- 2Character Code = XI
- 3Character Code = XII

Previously this was addressed as part of Tax Content, but now is part of the core Determination application.

GCC - New Tax Logic for Some Transaction Types (TE-10738/TE-10739)

Since all of the GCC (Gulf Cooperation Council) countries have not adopted their new VAT system, Determination needs to support the old systems. This has now been implemented for certain Transaction Types such as Goods, Physical Performance, and Default Services; Transport Services is planned to be addressed in the next version of Determination.

Malaysia Service Tax Enhancement (TE-10109)

As per new Malaysian (MY) tax regulations, digital services supplied by foreign (non-MY) service providers to non-registered customers in Malaysia will be taxable in the customer's country (i.e., Malaysia). This entails the addition of new logic in the tax engine for the transaction type of Electronic Services that will consider the customer location – not the country of consumption – and must be applied to the authority of Malaysia Service Tax.

Enable Domestic Services Between Switzerland & Liechtenstein (TE-10111)

Due to a treaty between Switzerland and Liechtenstein, transactions between those two countries should remain domestic. Determination now supports this for Transaction Type = Goods (GS), Default Services (DS), Electronic Services (ES), Customer Location Services, and Physical Performance. A particular Point of Title Transfer (POTT) is irrelevant to these transactions.

US Maryland State Bracket for the Total Invoice Amount (TE-10105/TE-10320)

The tax engine now supports the State of Maryland regulation dictating that the bracket schedule be utilized for taxable sales transactions at the invoice level for the total/subtotal of taxable items. The following requirements are met:

- The Invoice Amount or Invoice Taxable Basis must only include the taxable items (this includes only the gross amount from each line deemed taxable, not exempt, or not liable).
- Apply the bracket schedule to the sum of all taxable lines, not on each single taxable line.
- The breakout of the tax calculated from the bracket schedule should be allocated between the two authorities MD – STATE SALES/USE TAX and MD – STATE (BRACKET) SALES/USE TAX.
 - The standard tax rate should be applied to the “whole dollar portion” under the MD – STATE SALES/USE TAX authority.
 - The bracket tax calculated, which is specifically outlined for taxable prices for less than \$1.00 and for a fraction of a dollar greater than \$1.00 (i.e., the cents portion), should appear under the MD – STATE (BRACKET) SALES/USE TAX authority.

The Rates/Fees page already includes the ability to define a Tiered or Graduated Fee based on Invoice Amount or Invoice Amount by Rule. Customers can add Custom Rates/Fees to utilize this support for the time being until the release of standard content.

Physical Performance Reverse Charge Change (TE-10509)

For Authorities where transaction type is **PP - Physical Performance Reverse Charge** in Advanced Configuration (**Menu -> Tax Data -> Authorities**), and when **Condition** is "Both" and **Value** is "Registration Required," Determination will start to return a result of Tax Type *S Input VAT in Service location* for the Buyer and *Output VAT in Service location* for the Seller.

Identify Exempt in Graduated Rates (TE-9905)

Determination now enables rates to have a tier that specifies an exemption instead of a rate or a code. This was already available for *Tiered* rate type but is now introduced for *Graduated* as well.

Currency Rounding Precision Updates (TE-10092)

Updates have been made to the following Currencies managed in Determination as below:

CURRENCY NAME	ROUNDING PRECISION	MIN ACCOUNTING UNIT
Colombian Peso	2	0.01
Vanuatu Vatu	0	1

CURRENCY NAME	ROUNDING PRECISION	MIN ACCOUNTING UNIT
Burundi Franc	0	1
CFP Franc	0	1
Comoro Franc	0	1
Iraqi Dinar	3	0.001
Rwanda Franc	0	1
Tunisian Dinar	3	0.001
Indonesian Rupiah	2	0.01

Input XML Logged Separately (TE-9815)

Determination added support to better assist with troubleshooting, such as searching for transactions flowing to specific nodes and isolating calc errors to input – and also, to not pollute the larger *sabrix.log*.

The support is to capture the INPUT or transaction request XML in a section of the application that is completely separate from the *sabrix.log* or auditing XML. For a customer to utilize this option, they need to flag as “Y” in any of these two settings:

- Menu -> System -> Configuration – **WRITE_INPUT_XML_TO_LOG_FILE**
- Menu -> System -> Companies -> Options tab – **Write Input XML to Log File**

These would then present the *InputXML.log* file under **Menu -> System -> About -> Log Search & Log Files** tabs.

ADDRESSED ISSUES - 5.13.0.0

Registration Lookup (TE-10208)

When two registration numbers are set up for a company (**Menu -> Company Data -> Registrations**), the output System Messages displayed the incorrect registration number out of the two from what was applied to the transaction. This has been addressed.

Canada Tax Amount Rounding Issue (TE-10671)

Previously, when there were two tax results for Canadian authorities (i.e., GST and QST), the sum of the tax line amounts did not equal the total document tax amount. This issue is now corrected where an algorithm within the tax engine will determine to “pitch” a penny to one of tax amounts.

This was originally implemented in a lower version of Determination and has now been ported to this most current version.

Buyer Registration Not Returned for Certain Countries (Isle of Man, Monaco) (TE-9506)

An issue with the Buyer Registration Number passed in the transaction, not being recognized by the tax engine for countries Isle of Man & Monaco, has now been addressed.

Product Qualifier Does Not Reflect Correct Product Mapping Group for Product Code (TE-8597/TE-10185)

Previously there was an issue when saving a Product Qualifier using a *Product Mapping Group* that is not the default Product Code. When logging back into the application, the *Product Mapping Group* for the Product Qualifier displayed the default value, not the saved value. This has been corrected. The saved value is persistent when logging in and out.

Authority Registrations for Random Authorities Impacting Tax Results (TE-9973/TE-10235)

Previously, it was observed that in certain scenarios when a valid seller registration is supplied in the taxing location, an additional tax block with Tax Type = NL or UN was in the result. An option **Exclude Not Liable (NL) Tax Results** is now provided at the company level (**Menu -> System -> Companies -> Options** tab) to remove this unwanted tax block:

- This applies to the transaction types of Goods, Electronic Services, and Default Services.
- By default, this option is disabled.
- When enabled:

- If a valid seller registration is supplied in the taxing location, which results in a tax type of NL, that tax result will be omitted from the tax results.
 - A system message is returned to inform the user of such action occurred.
 - If NL is the only tax block in the Results section, this tax block is not removed.
 - If there are multiple NL blocks, only that NL block which corresponds to the sell-side (Ship From/Seller Primary/Supply) will be removed.
- This is applicable to International Authorities only.

Logic Mapping and Original Invoice Date (TE-9343)

When both Original Invoice Date and Invoice Date are passed in the input XML, the Invoice Date was used to select the Logic Mapping. This has now been corrected so that the Original Invoice Date takes priority over the Invoice Date when determining Logic Mapping.

Note that the above only applies to a situation where no Data Logic or Data Rules (**Menu > Tax Data > Date Determination**) currently exist. The customer also can create custom Data Logic and Date Rules to override what the system provides as standard data logic.

Intermittent Errors After AWS Migration (TE-10266)

Errors caused as part of AWS migration, specifically the "Unexpected exception" error, has been addressed in Determination.

Rule Qualifier use of IS_EU Causing Unhandled Exception (TE-9379)

An issue with IS_EU condition as an address element causing the application to crash has now been addressed.

Index Required on TB_COMP_AREA_AUTHORITIES for Large INTL Content Loads (TE-9816)

Created indexes for the relevant database table to improve the performance issues related to the import of large tax content files such as INTL content.

US Authority Rounding Down Instead of Up (TE-9885)

There were cases where some US Tax Authorities (i.e., CA - SAN FRANCISCO (COUNTYWIDE), COUNTY SALES/USE TAX) rounds its tax amount down instead of up when a Forward Calculation. This is now addressed in the tax engine.

Intrastat Flag Issue for EU Transactions (TE-10044)

Previously, for a sell-side Goods Transaction between a non-EU Country and an EU Country, with the Supply Location as an EU Country, it was observed that the Intrastat flag in the Audit table was not being set as expected. This has been corrected.

EU Logic - Enable VAT Groups with Unregistered Buyer for all Transaction Types (TE-10597)

The same tax output message will be presented for both Buyer & Seller role transactions where the Buyer Registration Number is not provided. This applies to Transaction Types Ancillary Transport Services, Customer Location Services, Default Services, Electronic Services, and Physical Performance.

Seller Registration is Not Returned (TE-10179)

For Buyer role transactions, the Seller Registration Number was not being displayed in the tax output results for both Goods and Service transactions. This has now been corrected.

AuditInvoice Error: Null Pointer Exception (TE-10710/TE-10736)

When the user attempted to AuditInvoice a transaction, the system errored out showing NullPointerException. In a few cases it also displayed BigDecimal Null Pointer Exception. These have now been corrected.

<TaxableBasis> in ZoneTaxSummary for District is Incorrect - SimpleTaxService Tax Response (TE-10191)

When a Zone within the tax results had two or more Authorities, it was resulting in an incorrect tax result in the Simple Tax Service Response. This was being observed for Basic Rate. This has been corrected.

Proxy Settings for Automated Tax Data Updates (TE-5008)

If the PROXY_HOST and PROXY_PORT parameters are setup in the Configuration screen (Menu -> System -> Configuration), the information was not automatically updating the Proxy Server and Proxy Port fields in the Option setting screen (Menu -> System -> Import/Export -> Configuration tab) until the application server is restarted.

This has now been corrected and they sync both ways between these pages if all three of the following are true:

- The Automatic Tax Data Updates Enabled setting is selected in the Option setting screen.
- You have set up the above two Proxy settings fields in the Option setting screen.
- The proxy information does not already exist in the Configuration screen.

Providing the Log_File_Directory Path for the InputXML.log File (TE-10232)

The user can find the InputXML.log file in the configured Log_File_Directory path. The files will also be present in the default location similar to that of Sabrix.log.

KNOWN ISSUES - 5.13.0.0

This section contains several known issues and workarounds that you may encounter in using ONESOURCEIndirect TaxDetermination. This is not intended to be an exhaustive list of issues.

Cache View Search (TE-635)

When searching for ALL in the cache view diagnostics page, an out of memory error may occur.

To work around this issue, narrow your results by typing a specific table name to search. Alternatively, you can reset your cache and then rebuild it by processing only the transaction(s) that you want to investigate.

Child Privileges in Roles (TE-6749)

When editing a role to remove privileges from a page with children, you will get the following message: "All privileges of the selected Application Role and its children will be removed, continue?" However, only the selected application role is modified, and privileges previously set for the children remain intact.

To work around this issue, modify privileges for child application roles individually. This can be done before or after modifying the parent application role.

Company Exports with Default Exempt Reason (TE-6753, TE-6804, TE-6737, TE-6840)

If a company either maintains its own Default Exempt Reason or inherits it from a parent company, a company export/import may cause errors when only a single company export (parent without children, or child company) is performed.

To work around this issue, before exporting a parent company only, clear the default exempt reasons for any of its children if they reference an exempt reason belonging to the company you are exporting. When the company is imported, you can then re-set the exempt reason(s).

Flat File Import for License Types (TE-6775)

When using the flat file import template to import a single license type, the record is not editable within the user interface if it is the first license type created for the selected company.

To work around this issue, add your first license type via the user interface. Alternatively, if you have a license type that you cannot edit, you can add a second license type to the company, and the first record will become editable.

Test Mode for Exemption Certificate Web Service (TE-6921)

The CreateUpdateExemptionCertificate request ignores the value for TestMode, treating all requests as if TestMode = false.

There is no workaround. Use an environment where it is acceptable to create and update exemption certificates during web service testing. To edit, you can add a second license type to the company, and the first record will become editable.

Duplicate Exemption Certificates

Users can create duplicate exemption certificates based on the fields for the customer, the certificate number, the reason code, and the effective date. If a transaction is passed where duplicate certificates are applicable, a failure may occur.

Workaround: Avoid creating duplicate exemption certificates. If you already have some duplicates in your system, you can modify them to make them unique or delete any that are unnecessary.

DOWNLOAD THE SOFTWARE

To download and install the software, get the latest *ONESOURCESampleProduct_NNNx.zip* file from the Indirect Tax Customer Center:

1. Open the Indirect Tax Customer Center at <https://customercenter.sabrix.com/>.
2. Log on using the username and password provided by Customer Support.
3. Find Indirect Tax Determination in the **Available Products** list, and verify that **Installed Version** is set to **None**.
4. Select **Download** for Indirect Tax Determination.
5. Save the file.
6. Unzip the *ONESOURCESampleProduct_NNNx.zip* file.