ONESOURCE™ INDIRECT TAX DETERMINATION

RELEASE NOTES

5.13.15.1

Document Version 47

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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.
19	October 18, 2022	Added the 5.13.7.3 Release Notes.
20	November 4, 2022	Added the 5.13.9.0 Release Notes.
21	November 7, 2022	Added the 5.13.7.4 Release Notes.
22	November 8, 2022	Added the 5.13.7.5 Release Notes.
23	November 9, 2022	Added the "U.S. Rounding Algorithm Not Applied Correctly to Workbench Tax Results and Output XML (616852)" addressed issue to the 5.13.9.0 Release Notes.
24	December 15, 2022	Added the 5.13.10.0 Release Notes.
25	January 25, 2023	Added the 5.13.4.5 Release Notes.
26	January 27, 2023	Updated the 5.13.8.1 Release Notes to include additional information for setting up Union versus Non-Union OSS.
27	February 15, 2023	Added the 5.13.10.2 Release Notes.
28	March 9, 2023	Added information about the discontinuation of Content Version G as well as updates to the ONESOURCE Determination Original support timelines. Added the 5.13.10.3 Release Notes.
29	April 3, 2023	Added the 5.13.11.0 Release Notes.
30	April 26, 2023	Added the 5.13.11.1 Release Notes.
31	May 3, 2023	Added the 5.13.7.7 Release Notes.
32	May 26, 2023	Added the 5.13.8.2 Release Notes.
33	June 28, 2023	Added the 5.13.7.8 Release Notes.

VERSION NUMBER	VERSION DATE	SUMMARY
34	July 25, 2023	Added the important announcement regarding ONESOURCE Determination Original. Added the 5.13.12.0 Release Notes.
35	August 18, 2023	Added the 5.13.7.9 Release Notes.
36	September 1, 2023	Added the 5.13.12.2 Release Notes.
37	October 2, 2023	Added the 5.13.13.0 Release Notes.
38	October 6, 2023	Updated the "Italy Document Rounding Issue" (an addressed issue) in the 5.13.7.9 and 5.13.13.0 Release Notes to include details of how document rounding was enhanced for scenarios that trigger tax types with dual directions.
39	October 11, 2023	Added the 5.13.8.4 Release Notes.
40	October 18, 2023	Added the 5.13.4.6 Release Notes.
41	November 6, 2023	Added the 5.13.12.3 Release Notes.
42	January 24, 2024	Added the 5.13.14.0 Release Notes
43	February 2, 2024	Added 5.13.7.10 patch release
44	May 29, 2024	Added 5.13.15.0 Release Notes
45	July 1, 2024	Added 5.13.12.4 Release Notes
46	August 13, 2024	Added 5.13.14.1 Release Notes
47	August 27, 2024	Added 5.13.15.1 Release Notes

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IMPORTANT ANNOUNCEMENT REGARDING ONESOURCE DETERMINATION ORIGINAL

After careful consideration, Thomson Reuters has made the strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original and focus our resources on developing and enhancing ONESOURCE Determination Enterprise. Support for ONESOURCE Determination Original will officially end on **June 30, 2026**. After this date, we will discontinue updates, security patches, and technical assistance for ONESOURCE Determination Original. (Please review the mainstream and extended support dates for the latest versions of ONESOURCE Determination Original on the following page.)

DISCOVER THE POWER OF ONESOURCE DETERMINATION ENTERPRISE

Now is a great time to consider and plan for a move to ONESOURCE Determination Enterprise. Released in 2017, ONESOURCE Determination Enterprise is now used by hundreds of customers around the world. Its cloud-based and cloud-enabled (on-premises hybrid) deliver superior capabilities and performance than on-premises solutions, alleviate the heavy manual management burden and costs businesses often have when maintaining tax in-house.

RESOURCES SUPPORTING YOUR UPGRADE TO ONESOURCE DETERMINATION ENTERPRISE

We understand that a solution upgrade requires time to plan and prepare. This is why Thomson Reuters created a specific upgrade procedure to facilitate this transition and ensure a seamless experience for you. Using advanced migration tools and with the support of experienced Thomson Reuters technical consultants, our goal is to make upgrading to ONESOURCE Determination Enterprise a seamless transition.

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CONTENT G DISCONTINUATION AND SUPPORT TIMELINE UPDATE

On June 30, 2023, Thomson Reuters will no longer support a version of tax content, Content Version G, used to support ONESOURCE Determination Original customers, licensed as downloaded, on-premises software, or hosted in the Thomson Reuters Data Center. Content Version G was created for customers using ONESOURCE Determination version 5.9 and below, which is not currently a supported version of the software. To continue to receive updated tax content, customers must be using Content Version G.2.

> After June 30, 2023, customers will no longer be able to download Content Version G from the Indirect Tax Customer Center.

ONESOURCE Determination Original customers on version 5.11 or 5.12 of ONESOURCE Determination, including those already using Content G.2, need to be aware of updates to the support schedule and upgrade to version 5.13 before the support deadlines detailed in the table below.

Revised ONESOURCE Determination Original support timelines as of February 2023 include:

DETERMINATION VERSION	RELEASE DATE	MAINSTREAM SUPPORT EXPIRATION	EXTENDED SUPPORT EXPIRATION
5.11.x.x	October 2018	October 31, 2023	October 31, 2024
5.12.x.x	July 2019	October 31, 2023	October 31, 2024
5.13.x.x	February 2021	June 30, 2025	June 30, 2026

> Customers will no longer be able to download unsupported versions of Determination Original from the Indirect Tax Customer Center after extended support has expired.

For details and to assess the impact on your business, see our FAQ document (sign in to the ONESOURCE Indirect Tax Help and Support page required).

DETERMINATION 5.13.15.1 RELEASE NOTES

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RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.15.1 includes addressed issues and introduces the features detailed below.

NEW FEATURES

The topics below describe the new features in this release.

Colorado Retail Delivery Fee (1296451)

In Colorado, a retail delivery fee of 29 cents is applicable at the state authority when the invoice includes one or more tangible personal property items, delivered in a motor vehicle. The fee is only applicable once to the entire invoice and isn't refundable. The fee is applied to the first eligible line item of the invoice. This fee is now supported in ONESOURCE Indirect Tax Determination.

Invoice Level Charge (1300639, 1300649, 1300646, 1300650)

This feature is to support any rate and fee that are applicable only once to the entire invoice, based on eligibility factors such as authority, product codes, etc. An example of such a fee is the above Retail Delivery Fee in Colorado.

Steps to enable this fee in a custom authority:

1. Navigate to Configuration, Authorities, then Select Standard or Custom Authorities

2. Select an **Authority** and navigate to the **Rules** page

3. Select **Add Custom Rule**

4. Select the checkbox for Invoice Level Charge in order to trigger an invoice level rate or fee.

5. Specify the appropriate Rule Code, Start and End dates, Rule Option, Calculation Method, and other relevant parameters.

ADDRESSED ISSUES

There are no addressed issues in this release.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.15.0 RELEASE NOTES

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RELEASE HIGHLIGHTS

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NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Calculation Method Grossed Up not working with graduated rates (1044643)

A fix has been applied for the Grossed Up Calculation Method for Graduated Rate. The method supports the **Graduated Rate** just like Regular Rate now.

Zone mapping is not working for Saint Pierre with county code 67 in France (1040459)

An issue was reported for two zones of cities **Saint-Pierre** and **Miquelon-Langlade** in France. The fix is applied to get the expected taxability without passing the province information, like zone with city name Sainte-Marrie.

System Security Updates – Vulnerabilities found in JAR FILES (985569, 985570, 985571, 985572, 985574, 985575, 985576, 985577, 985579, 1155437, 1101058, 1101634, 1164090, 985578, 348433, 1074218, 1102160, 967292, 350815)

The following list includes the high-level security system vulnerabilities that are resolved in this upgrade:

- **IDT-SS Pen Test Vulnerability (Medium):** Lack of anti-automation

- **IDT-SS Pen Test Vulnerability (Low):** Enumeration attack on server's directories

- **IDT-SS Pen Test Vulnerability (Low):** No account lockout

- **IDT-SS Pen Test Vulnerability (Low):** Web server information disclosure

- **IDT-SS Pen Test Vulnerability (Low):** Missing HTTP Strict Transport Security (HSTS) header

- **IDT-SS Pen Test Vulnerability (Low):** Sensitive information stored in cleartext.

- **IDT-SS Pen Test Vulnerability (Low):** Improper error handling

- **IDT-SS Pen Test Vulnerability (Low):** Unsupported and outdated versions in use

- **IDT-SS Pen Test Vulnerability (Low):** WSDL exposed.

- **Det Original -** 1 Medium vulnerability in apache-mime4j-core-0.7.2.jar

- **DET Original -** 1 Low vulnerability in spring-security-config-5.8.5.jar

- Testing the Original Det Application for Vulnerabilities and Pentest fixes

- **IDT-SS Pen Test Vulnerability (Low):** Improper error handling when we removed parameter from existing data.

- **IDT-SS Pen Test Vulnerability (Low):** Session ID stored in an insecure cookie.

- **Security -** Cross Site Forgery vulnerability in SDI import

- **Det Original: Information Leakage -** 5 medium & 1 Low vulnerabilities

- **Lack of anti-automation mechanism -** Repeater

- **Software Sale UAT -** Export function not functioning for Pen Test

Reference list with numeric values not applying for Custom Rule Qualifies (e.g. LINE.GROSS_AMOUNT XML tag) (1090558)

An issue was reported where Reference list for Gross Amount was not working in Tax Code Qualifier when values are maintained without decimal places. This issue was fixed as part of this release.

BR-ICMS-RD-ST buyer operation DB Changes (JE and Message) (1100781)

As a part of current release new JE entry inserted in DB for triggering BR-ICMS-RD-ST for buyer operations and message will display when new JE is triggered.

BR- ICMS-RD ST triggering for buyer operations (1100813)

The fix has been done to trigger ICMS-RD-ST authority for all ICMS-RD-ST types of Interstate buyer operations, where Business Supply is **'NO'** with both Seller and Buyer registrations and Taxpayer Type = EMPTY (Tax_ Payer _Operation). The calculation remains intact with the current ICMS-RD-ST calculation on the seller's operations.

BR - Change ICMS-ST and FCEP-ST to include PIS-ST and COFINS-ST – With/Without Desonerado - BS YES - Company OFF (1044780 & 1044789)

The fix has been done to get the following expected calculation in the BRAZIL PIS-ST and BRASIL COFINS-ST – With/Without Desonerado authorities:

ICMS-ST Taxable Basis (Intrastate):

[New Gross amount + IPI Tax Amount + PIS-ST Tax Amount + COFINS-ST Tax Amount] [IVA Original + ICMS-ST Taxable basis]

ICMS-ST Taxable Basis (Interstate):

[New Gross amount + IPI Tax Amount + PIS-ST Tax Amount + COFINS-ST Tax Amount] [MAX(IVA Original, IVA Adjusted) + ICMS-ST Taxable basis]

FCEP-ST Taxable Basis (Intrastate):

[New Gross amount + IPI Tax Amount + PIS-ST Tax Amount + COFINS-ST Tax Amount] [IVA Original + ICMS-FCEP ST Taxable basis]

FCEP-ST Taxable Basis (Interstate):

[New Gross amount + IPI Tax Amount + PIS-ST Tax Amount + COFINS-ST Tax Amount] [MAX (IVA Original, IVA Adjusted) + ICMS-FCEP ST Taxable basis]

ICMS-ST TAX AMOUNT and FCEP-ST TAX AMOUNT

Displaying incorrect IVA adjusted rate for ICMS-ST Type 3,4 for cases where destination ICMS rate is not equal to ICMS-ST rate (1044803)

As a part of this release, a fix has been done to display the IVA adjusted rate as 31.4100% for ICMS-ST Type 3,4, in cases where destination ICMS rate is not equal to ICMS-ST rate.

BR - Add new column UNIT_TAX_PRICE to tb_rates and other columns to TB_INVOICE_LINE_TAXES (1060960)

As a part of this release, new columns like UNIT_TAX_PRICE was added in tb_rates and other columns to TB_INVOICE_LINE_TAXES in database for PMPF and PAUTA.

Formula Update PIS-ST and COFINS-ST - Without Desonerado - BS YES - Company OFF (1077421)

The Formula for PIS-ST and COFINS-ST taxable basis were updated:

PIS ST Taxable Basis:

Desonerado: (New Gross + IPI) * PIS-ST Tax Taxable basis

Non-Desonerado: (New Gross (Recomposed Basis) + IPI) * PIS-ST Taxable basis

COFINS-ST Taxable Basis:

Desonerado: (New Gross + IPI) * COFINS-ST Taxable basis

Non-Desonerado: (New Gross (Recomposed Basis) + IPI) * COFINS-ST Taxable basis

Tax Results not showing ZONE_NAME correctly for Allocations (502376)

A fix has been applied to correctly print the **ZONE_NAME** in the output while using allocations feature.

Incorrect Reversals for distinct UNIQUE_INVOICE_NUMBER (536861)

There was an issue identified where invoices were incorrectly posted to reporting, thereby causing a transaction to appear as a reversal in reports. This was occurred in rare cases within same system using same UNIQUE_INVOICE_NUMBER. This has been addressed now.

Registration is not applying without country code when having with different format of Registration numbers (1026671)

An issue was reported where transaction having registration with country code is getting applied the registration but when not having country code, which are valid registrations, not able to apply the registration.

Scenario:

Company Role - Seller

Transaction Type - Goods

Ship From – PL (Poland)

ShipTo – PL (Poland)

Registrations:

Buyer - 260133662

Buyer - 959-17-62-828

Buyer - DE256985459

Seller - 5261009190 (Poland Registration)

Seller - DE813968029

Seller - PL1234567890 (working)

Seller - 1234567890 (not working)

As a part of this release, fix has been applied in the system to consume the registration #s which are provided with valid registration mask.

EU VAT Registration Number for Sales Transactions with Transaction Type of Goods & Chain Transaction 2 (1082959)

An issue was reported for transactions within the European Union (EU), the VAT Registration number not getting assigned correctly for Sales transactions with Transaction Type = GS or CT2. This has been addressed, below is the order of priority for a given transaction with multiple registration #s present for transaction:

PRIORITY	LOCATION	COUNTRY
1	Ship To (Supply)	AT (EU)
2	Ship From (Seller Primary)	DE (EU)
3	Buyer Primary	CH (EU)

In addition, the system no longer returns an Intra Community Dispatch tax block for intra EU scenarios where the Middleman Registration for a country other than Ship From country, was not provided. This is because an Intra-Community Dispatch can occur only when there is an EU country registration provided for the Buyer (or Middleman in chain transactions) other than the Ship from Country. In such cases, the system now returns an Output VAT in Ship From location.

ICMS DIFAL Authority: indicate internal destination tax rate (1100817)

Currently, the IDT XML does not provide the internal destination tax rate for ICMS DIFAL. The calculation is being done correctly; however, this value is not included in XML, both in the ICMS-DIFAL and ICMS-RD authorities. To overcome this scenario, we have added a new optional tag - <ShipTo_DIFAL_rate> under ICMS RD authority block and the value populated in the tag should be the **rate** configured in ICMS RD (Ship To) rule that was applied for e.g. 0.18.

Cannot import CSV file - Please upload valid file (1159945)

The Fix has been done to import csv and xlsx file format for product categories.

Indonesia currency regulatory change: Currency Rules (1203545)

As a part of this release, the Rounding Rule, Precision and Minimum Accountable Unit changed for Indonesia.

Zimbabwe currency regulatory change: ZW$ to ZiG (1211775)

As a part of this release, the Currency and Currency code for country Zimbabwe is changing to Zimbabwe Gold (ZiG) as part of Regulatory change.

DET DEBUG Logging | (1183586)

An issue was identified with the logging feature of the application. Users were missing to capture the information in the logs with **LOG_LEVEL as 'DEBUG'** for the Determination application. A fix has been applied for this issue.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.14.1 RELEASE NOTES

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NEW FEATURES

The topics below describe features added in this release.

Japan Rounding Issue (1295472)

An issue was reported for the document rounding for Japan transactions. This has been addressed with tax amount calculation on the header gross amount and with decimals truncated not rounded.

ADDRESSED ISSUES

There are no issues addressed in this release.

KNOWN ISSUES

There are no known issues in this release.

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New error message added for PMPF amount (346644)

A new application message has been introduced 'ICMS PMPF tax amount cannot be calculated as Quantity from ERP source was not provided.'

Transaction within GCC Countries (972507)

GCC logic for the countries has been enhanced and exports between any of the GCC countries for B2B transactions will be shown as Zero-Rated Export. Please refer to the content guides for the enhancements.

Transaction within Switzerland Lichtenstein (972528)

Goods and Service transactions between Liechtenstein (LI) & Switzerland (CH) will be treated as Domestic Transactions because they together form a common VAT country, which means that identical VAT law is applied in both countries. Export scenarios for taxability remain as is.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

System Security Updates – Vulnerabilities found in JAR FILES (982503, 982515, 985556, 985559, 1030199, 985565, 985566, 985562, 1015868, 1038070)

The following list includes the high-level security system vulnerabilities that are resolved in this upgrade:

IDT-SS Pen Test Vulnerability (High): Reflected cross-site scripting (RXSS)

IDT-SS Pen Test Vulnerability (High): Persistent cross-site scripting (PXSS)

IDT-SS Pen Test Vulnerability (Medium): Cross-site request forgery (CSRF)

IDT-SS Pen Test Vulnerability (Medium): No rate limiting of requests.

Det Original: Medium vulnerability in antisamy-1.6.7.jar

IDT-SS Pen Test Vulnerability (Medium): Malicious file upload

IDT-SS Pen Test Vulnerability (Medium): Username enumeration

IDT-SS Pen Test Vulnerability (Medium): Authorization bypass via parameter tampering

DET Original: Medium vulnerability in xmlsec-2.2.3.jar

DET Original: Medium Vulnerability in esapi-2.3.0.0.jar

MD - TAXABLE BASIS Operator - Needs to exclude Exempt and Non liable Gross for bracket fee authorities (877977)

Taxable amount would deduct any gross amounts that are fully exempt, non-liable, or the portion of the gross that is partially exempt for bracket fee authorities.

Partial Exemptions edge case for bracket authorities (892348)

When an invoice has a line that has a partial exemption, the system will not be considering this as part of the Taxable Basis (Exempt and Not liable lines should not be involved in the tax calculation.) This is applicable only for bracket authorities and for graduated invoice amounts.

MD Bracket State Sales/Use tax is getting 0.01 for every line with gross amount '0' (944562)

There was a bug reported for bracket fee authorities, where all the lines with gross amount 0 were getting a 0.01 tax amount. This bug was fixed as part of current release.

Trans-Editor behavior with element vs reference list when null value passed (351035)

There was a bug reported for the Trans-editors for the null value exclusion for operator like NOT EXIST IN while using reference list. This is extended for other operators as well where we use NOT LIKE or NULL type operators. This issue fixed as part of current release.

Trans-Editor value XML element not assigned (970500)

There was a bug reported for the Trans-editors XML value validation for the registration number. The issue is fixed as part of this release.

BR new XML tag in output – EXCLUDED_PIS_COFINS_AMOUNT-Desonerado cases (All Segments) (953180)

To comply with a legal requirement to fill a fiscal book obligation called SPED Contribuições, the ICMS/ICMS-DIFAL/ICMS-FCEP amounts, when calculated and excluded from PIS and Cofins taxable basis, must be informed in the XML Out under the PIS and COFINS tax group.

A new tag, <EXCLUDED_PIS_COFINS_AMOUNT>, was added to the output under the line level tax summary block for SOAP 2011, 2020 and REST services and XML output. It is populated with the amount that was excluded from the taxable amount of PIS and COFINS when the following company options are set:

• Brazil PIS and COFINS taxable basis:

<EXCLUDED PIS COFINS AMOUNT> = ICMS

• Brazil alternative taxable basis:

<EXCLUDED PIS COFINS AMOUNT> = sum of the ICMS, ICMS-DIFAL, ICMS-FCEP

When none of the above company options are set for changing PIS and COFINS basis, this tag will not be added to the line level tax summary block. The tag also does not appear when the company option value is set to exclude for a role that does not match with the one in transaction.

When TE is configured with INCLUDE_ICMS = True, this tag will not be added to the line level tax summary block as well.

When ICMS DESONERADO is triggered, the following validation occurs:

IF DESONERADO IS (QUALIFIER)	COMPOSITION OF DESONERADO	COMP. OP. BRAZIL ALTERNATIVE <EXCLUDED-ICMS_FROM_ PIS_AND_COFINS> =	COMP. OPT BRAZIL PIS AND COFINS <EXCLUDED-ICMS_FROM_ PIS_AND_COFINS> =
DESONERADO - TYPE 1	ICMS + FCEP II	Exclusion value = zero/empty	Exclusion value = zero/empty
DESONERADO - TYPE 2	ICMS	Exclusion value = DIFAL + FCEP	Exclusion value = zero/empty
DESONERADO - TYPE 3	ICMS + DIFAL + FCEP	Exclusion value = zero/empty	Exclusion value = zero/empty
DESONERADO - TYPE 4	ICMS + + DIFAL	Exclusion value = FCEP	Exclusion value = zero/empty
DESONERADO - TYPE 5	DIFAL + FCEP	Exclusion value = ICMS	Exclusion value = ICMS
DESONERADO - TYPE 6	DIFAL	Exclusion value = ICMS + FCEP	Exclusion value = ICMS

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.13.0 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.13.0 includes addressed issues and introduces the features detailed below.

NEW FEATURES

The topics below describe features added in this release.

New Authority Option to Prioritize Alphanumeric Registration Number (955377)

The new **Registration Mask – Alphanumeric** authority option can be added to an authority to prioritize the alphanumeric registration mask. When multiple valid registration numbers are provided for a company, the tax engine currently takes the first valid registration mask and displays it in the tax results. In such cases, using this authority option for an authority ensures that the alphanumeric registration mask is prioritized and displayed.

New Company Option to Suppress Second Authority (615922 and 948553)

The new **Disable Double Authorities in Tax Results** company option was added to **Menu > System > Companies > Option**. This option can be added to a company, and the valid values are **Y** for Yes and **N** for No. Setting this option to **Y**, suppresses the second authority for interstate scenarios when multiple authorities are returned in the tax block.

Brazil Taxable Basis Adjustment when Authority Has a Reduction Basis Percentage (945017)

As an extension of the Brazil taxable basis adjustment functionality implemented in 5.13.12.0, when an ICMS or IPI or PIS or COFINS authority rule has a reduction basis percentage configured, the system now considers the following before adjusting the taxable basis:

- Calculate the total taxable basis for the specific ICMS or IPI or PIS or COFINS authority by adding the non-taxable and taxable basis.

- Then, compare this amount with product amount or total amount (for consumption).

- And, further adjust the rounded taxable basis tag for the specific ICMS or IPI or PIS or COFINS authority.

Domestic Reverse Charge in the European Union (955476, 958520 and 899342)

In compliance with the EU VAT Directive and in member states that adopted such regulation, Domestic Reverse Charge (DRC) should be applied to supplies of goods or services carried out by the supplier who is not established in the member state in which the VAT is due. The following changes were made to support this regulation:

- The requirement for the buyer to be established in a ship from or ship to country to trigger DRC was removed.

- An additional condition was added to verify if the seller's establishment was set to **No** and not to the default, **None**. (This is to avoid triggering DRC in scenarios that do not provide any seller's establishment.)

- The DRC, which is applicable for specific goods, can now be enabled using the **GS - Goods Reverse Charge** authority option with the condition of **Domestic Transaction** and the value of **Registration Required**.

> This DRC will take preference over the one which evaluates the establishment attributes.

Brazil – UOM Under Rules - Consumer Goods (940744, 941184 and 936484)

The **Product Unit of Measure** field was added to the Rules page for the ICMS PMPF and ICMS Pauta authorities. The default value for this field is **Each**. The field is made available on the Rules page under only the two authorities that also show the product unit price: Brazil ICMS PMPF and Brazil ICMS Pauta.

> If the product unit price and product unit of measure are enabled on the Rules page under an authority, then the **Authority Unit of Measure** field is disabled.

Brazil - Desonerado for Intrastate and Interstate Scenarios with Brazil - Alternative Taxable Basis Company Admin Option (843629, 843649, 843669, 843650 and 843652)

This feature covers Desonerado calculations for the **Brazil - Alternative Taxable Basis** company admin option for interstate and intrastate operations.

The Brazil ICMS Desonerado authority amount is composed by the sum of the authorities' tax amount determined according to the type at the QUALIFIER level in the rule under the Brazil ICMS Desonerado authority. The table below shows the qualifier structure.

The total tax value generated by the Brazil ICMS Desonerado authority is reduced from the net amount given in the scenario and a new net amount is generated. The new net amount is the taxable base amount for the other taxes applied to the operation, such as ICMS, FCEP, FCEP II, DIFAL (only when they do not compose the ICMS Desonerado), IPI and ICMS- ST.

For the taxable basis for Brazil PIS and Brazil COFINS authorities, the system must start the calculation from the new net amount found after the Desonerado reduction. If the **Brazil - Alternative Taxable Basis** company admin option is not set, the taxable basis is the new net amount. If the **Brazil - Alternative Taxable Basis** company admin option is set, the existing logic of some other authority reduction is kept unless the authority is part of the Desonerado composition. Otherwise, a duplicate deduction is generated.

• For Desonerado Type 1, the system cannot deduct ICMS and FCEP again.

• For Desonerado Type 2, the system cannot deduct ICMS again.

• For Desonerado Type 3, the system cannot deduct ICMS/FCEP and DIFAL again.

• For Desonerado Type 4, the system cannot deduct ICMS and DIFAL again.

For interstate operations with the Pharma segment combined with the Brazil ICMS Desonerado authority, if the Brazil ICMS Repasse all states authority is triggered then the Brazil ICMS Desonerado is calculated considering the new net amount given after the Brazil ICMS Repasse discount.

The following table shows the Brazil ICMS Desonerado authority qualifier, the composition of it, and how the new net amount is generated after the Desonerado discount is deducted:

BRAZIL ICMS DESONERADO (QUALIFIER)	DESCRIPTION	NET AMOUNT GIVEN	NEW NET AMOUNT MUST BE CONSIDERED FOR (AFTER DEDUCTING DESONERADO DISCOUNT)
Desonerado - Type 1	ICMS and FCEP II must compose ICMS Desonerado amount.	Intrastate: ICMS, FCEP II	Intrastate: IPI, PIS, COFINS
Desonerado - Type 2	Only ICMS must compose ICMS Desonerado amount.	Intrastate: ICMS	Intrastate: FCEP II, IPI, PIS, COFINS
		Interstate: ICMS	Interstate: ICMS-DIFAL, FCEP, IPI, PIS, COFINS

BRAZIL ICMS DESONERADO (QUALIFIER)	DESCRIPTION	NET AMOUNT GIVEN	NEW NET AMOUNT MUST BE CONSIDERED FOR (AFTER DEDUCTING DESONERADO DISCOUNT)
Desonerado - Type 3	ICMS, DIFAL and FCEP must compose ICMS Desonerado amount.	Only Interstate: ICMS , ICMS-DIFAL, FCEP	Only Interstate: IPI, PIS, COFINS
Desonerado - Type 4	ICMS and DIFAL must compose ICMS Desonerado amount.	Only Interstate: ICMS, ICMS-DIFAL	Only Interstate: FCEP, IPI, PIS, COFINS

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

System Security Updates – Outdated Third Party Libraries (949362, 962400, 962402, 962403 and 940317)

Addressed some critical, high and medium level security vulnerabilities that were identified in third party libraries used by the application. The following libraries were upgraded to the following latest versions:

- spring-security-config-5.8.5.jar

- batik-bridge-1.17.jar

- batik-transcoder-1.17.jar

- batik-script-1.17.jar

- spring-web-5.3.29.jar

System Security Updates - Cross-Site Scripting (XSS) (936165)

The vulnerabilities related to Cross-Site Scripting (XSS) detected on in the UAT and Production environments were fixed in this release.

No Liability Tax Block for GCC (944424)

For Domestic Purchase transactions for unregistered sellers, the tax engine failed to calculate taxes for Goods and Default Services from an unregistered seller . This is resolved. The tax engine now returns a zero percent No Liability (NL) tax result.

> This impacts authorities that have the **CR – Registration Requirement** authority option set to the condition of **Both** and the value of **Registration Required**.

Italy Document Rounding Issue (944787)

An issue was identified with rounding reverse charge transactions in Italy. The issue is resolved now. The rounding logic was enhanced for scenarios that trigger tax types with dual directions (where the direction input and output tax amounts offset each other in the tax result). Some examples of such tax types are reverse charge, import and acquisition.

When an invoice has only reverse charge tax type (or any other tax types that trigger input and output direction) lines:

1. The tax engine sums up the gross amounts (A) and multiples the applicable tax rate (B) to calculate the unrounded total tax amount for the invoice (C). This is expressed as:

   $C = A * B\%$

2. The tax engine then rounds it as per the rounding specification of the authority (D). This is expressed as:

   $D = C$ Rounded

3. The tax engine then totals all the rounded tax amounts at each line. This includes both input and output amounts (E).

4. The tax engine then compares D and E. Any penny difference between A and B is then adjusted to the line with the highest gross amount.

5. The penny adjustment is made to both input and output amounts so that the line input and output amounts offset each other, and the total input and output tax amounts of the invoice also offset each other.

When an invoice includes other tax types as well as reverse charge (or any other tax type (for example, import or acquisition) with direction input and output):

The tax engine uses the steps above to perform separate document rounding for the lines with a reverse charge tax type and the lines without a reverse charge tax type.

A template with examples highlighting this change is now available in the Currency Rounding "Penny Pinching" Algorithm in ONESOURCE Determination Tax Engine (Original and Cloud) article.

Update Logic for Intra-State GCC for Delivery Terms Ex Works (EXW) and Delivery Duty Paid (DDP) (956119, 960341 and 970510)

An issue was identified in releases subsequent to version 5.11.0.0, where the system encountered a FAILED_TO_CALCULATE_TAX error for intra-state GCC transactions for the Ex Works (EXW) or Delivery Duty Paid (DDP) delivery terms. The issue is resolved.

Brazil - Wrong Result of PIS and COFINS Taxable Basis with the Brazil PIS and COFINS Taxable Basis Company Admin Option (885573)

When the **Brazil PIS and COFINS Taxable Basis** company admin option is set, only the ICMS tax amount should be deducted from the taxable basis of PIS and COFINS. Prior to this fix, the FCEP II amount was also deducted from the PIS and COFINS taxable basis, over and above the ICMS basis.

BRAZIL- IVA Adjustment Rate when the Destination Province Has a Reduction for the ICMS-ST Authority and No FCEP (885528)

An adjustment was made to show the correct IVA rate for provinces with a reduction for ICMS-ST and no FCEP.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.12.4 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.12.4 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.

Company Export error for large set of companies in an environment (1218695)

An issue was identified with the company export where the count of companies is huge. This has been addressed as part of this release.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.12.3 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.12.3 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.

No Data in CALC Table Post Upgrade to 5.13.12.0 (Bug 1017230)

After upgrading to ONESOURCE Determination version 5.13.12.0, customers were unable to view any data in CALC table from the date of upgrade. This issue is addressed.

Versions affected by this issue include:

- 5.13.12.0

- 5.13.11.0

- 5.13.10.0

- 5.13.7.1

We recommend upgrading to ONESOURCE Determination version 5.13.12.3.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.12.2 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.12.2 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.

Performance Improvements for Large Invoices (956138)

The tax engine performance for processing large invoices (more than 200 lines) in ONESOURCE Determination version 5.13.x.x was reported to be slower than the performance of similar invoices in ONESOURCE Determination version 5.11.x.x. The issue is resolved now and the performance of large invoices has significantly improved. Enterprise Security API (ESAPI) Jar was introduced and this restructured the logic. The result is that processing runs faster.

Audit Database not storing all Custom Attributes (962267)

The newly introduced Custom Attributes 51 to 200 were not being stored in the audit database when passed in an XML invoice. The issue is resolved now. The attributes are now successfully stored in the audit database.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.12.0 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.12.0 includes addressed issues and introduces the features detailed below.

NEW FEATURES

The topics below describe features added in this release.

Brazil Taxable Basis Adjustment as per Product Amount (882898, 882906, 882907, 899109 and 501997)

A new option allows you to adjust the taxable basis amount for Brazil authorities. The purpose of this adjustment is to ensure that the taxable basis amount calculated by ONESOURCE Determination matches the product amount calculated by the SAP ERP system. This new logic aims to enhance accuracy in tax calculations for Brazil.

This logic is applicable at the document level. To trigger this, you must select **Y** for the **Brazil - Adjust Taxable Basis** company option. (Select **Menu > System > Companies > Options** tab). This adjustment affects the taxable basis for ICMS, PIS, COFINS and IPI authorities.

Furthermore, you can also configure the INVOICE.BRAZIL_ADJUST_TAXABLE_BASIS TransEditor element at the document level. By setting the value as **True** or **False**, you can apply the TransEditor setting to standard scenarios in Brazil where the gross amount is recomposed. This element operates independently of the BRAZIL_ DEFAULT_ROUNDING_OFF setting in the system.

The TransEditor element takes precedence over the company option. For example, if you set the **Brazil - Adjust Taxable Basis** company option to **Y** but configures the INVOICE.BRAZIL_ ADJUST_TAXABLE_BASIS TransEditor element as **False**, the adjustment of the taxable basis is not triggered. However, if the TransEditor element is set to **True** while the company option is set to **N**, the logic is triggered.

Low Value Goods Regime for Malaysian Sales Tax (482914 and 903133)

According to the Sales Tax (Amendment) Bill of 2022 in Malaysia, online sellers are required to register for the low value goods (LVG) sales tax regime. This new regime encompasses both business-to-business (B2B) and business-to-consumer (B2C) transactions, which will be subject to taxation. ONESOURCE Determination Original now supports the LVG sales tax regime.

OSS Scheme Applicable for Domestic Electronic Interface Transactions (351504)

One Stop Shop (OSS) Union scheme is now applicable to domestic intra-country transactions for goods that meet the following conditions:

- Supply of goods is facilitated through the use of an electronic interface

- Supplier is not established in the EU (Seller Primary = non-EU country)

- Transport of goods occurs in one EU country (Ship From = Ship To = EU country)

For these transactions, the OSS elected authority must be registered. To support this, The **Electronic Interface** authority option was added at the Sabrix INTL TaxData level.

To add the **Electronic Interface** authority option to an applicable authority:

1. Click **Tax Data > Authorities > Advanced Configuration** to navigate to Advanced Authority then search for an authority.

2. Select the authority then navigate to the Options tab.

3. Select **Add** from the **Actions** drop-down list to add a new authority option.

4. Select **Electronic Interface** from the **Custom Authority Options** drop-down list.

New Rounding Logic for Invoices with both Negative and Positive Gross Amounts and Tax Rates (346563)

A new document rounding logic is available for transactions where both the gross amount and tax rates can be positive or negative. The tax engine applies the following steps:

1. The tax engine sums all unrounded tax amounts for each line regardless of the gross amount, authority trigger or tax rate applied.

2. The sum of the unrounded tax amounts is rounded based on your specified rounding precision.

3. The rounded amount is compared to the sum of the rounded tax amounts of all tax lines.

4. If there is any penny difference, the penny is adjusted to match the highest rounded tax amount value regardless of its sign.

New Low Value Goods Logic for Multiple Currency Specifications (778419 and 906144)

Previously in ONESOURCE Determination, the LVG threshold failed to trigger when more than one currency specification was provided. In a few scenarios when the invoice currency was different from the ship to authority's currency, the currency conversion did not occur and the LVG logic was not activated.

This issue is resolved. In scenarios where the invoice currency is different from the ship to authority country's currency and multiple currency specifications and LVG thresholds are provided, ONESOURCE Determination now converts the invoice currency to the ship to authority's currency and applies the LVG threshold value corresponding to the ship to authority's currency. For example, the ship from country is Australia and the ship to country is the UK with Currency_USD. ONESOURCE Determination now converts the invoice currency to UK and British pound and applies the LVG threshold value corresponding to the UK.

The Fetching Rules with Product Category Company Option at the Merchant Level Extended to the System Configuration Level (943452)

The existing logic to fetch rules with product category or commodity code was originally applied at the Merchant level, and aims to improve tax calculation performance. Now, this logic extends to the System Configuration level.

Previously, this logic was triggered for a specific, individual merchant by setting the **Fetching rules with Product Category** company option to **Y**. This resulted in faster tax calculations, especially for Brazil tax calculations. Now, you can apply this logic globally to all merchants by adding the FETCH_RULES_WITH_PRODUCT_CATEGORY parameter and setting the value to **Y**. (Click **Menu > System > Configuration** to get started.)

> After the FETCH_RULES_WITH_PRODUCT_CATEGORY System Configuration parameter is set for all companies, there is no need to set the **Fetching rules with Product Category** company option for each individual merchant.

Brazil - Desonerado for Intrastate and Interstate Scenarios with the Brazil - Alternative Taxable Basis Company Option (794775, 794792, 794806 and 794815)

This feature covers Desonerado calculations for the standard calculation method when the **Brazil - Alternative Taxable Basis** company option is set to ICMS_EXCLUDE.

The Brazil ICMS Desonerado authority amount is the sum of the authorities' tax amount determined according to the type informed as QUALIFIER in the rule under the Brazil ICMS Desonerado authority. The following table shows the qualifier that must be used in the rule to trigger the Desonerado according its type, the composition of it and the impact on PIS and COFINS taxable basis:

BRAZIL ICMS DESONERADO (QUALIFIER)	DESCRIPTION OF THE TAXES TO BE DISCHARGED IN THE OPERATION	GROSS AMOUNT THAT WILL BE THE TAXABLE BASIS FOR CALCULATING THE FOLLOWING TAXES	NEW GROSS AMOUNT (AFTER DEDUCTING DESONERADO DISCOUNT) THAT MUST BE CONSIDERED AS TAXABLE BASIS FOR CALCULATING THE FOLLOWING TAXES	PIS AND COFINS TAXABLE BASIS IF THE BRAZIL - ALTERNATIVE TAXABLE BASIS COMPANY OPTION IS SET
DESONERADO_TYPE1	ICMS and FCEP II tax value compose ICMS Desonerado amount	Intrastate operation: ICMS and FCEP II	Intrastate operation: IPI, PIS, COFINS, ICMS-ST and FCEP ST	The new gross amount must be considered for PIS and COFINS (since ICMS and FCEP II are already part of Desonerado discount)
DESONERADO_TYPE2	Only ICMS tax value compose ICMS Desonerado amount	Intrastate operation: ICMS	Intrastate operation: FCEP II, IPI, PIS, COFINS, ICMS-ST and FECP ST	From the new gross amount, reduce the FCEP II from PIS and COFINS taxable basis as only ICMS was part of Desonerado
		Interstate operation: ICMS	Interstate operation: ICMS-DIFAL, FCEP, ICMS-ST, FCEP-ST, IPI, PIS and COFINS	
DESONERADO_TYPE3	ICMS, DIFAL and FCEP tax value compose ICMS Desonerado amount	Interstate operation: ICMS, ICMS-DIFAL and FCEP	Interstate operation: IPI, PIS and COFINS	The new gross amount must be considered for PIS and COFINS (since ICMS and FCEP II are already part of Desonerado discount)

BRAZIL ICMS DESONERADO (QUALIFIER)	DESCRIPTION OF THE TAXES TO BE DISCHARGED IN THE OPERATION	GROSS AMOUNT THAT WILL BE THE TAXABLE BASIS FOR CALCULATING THE FOLLOWING TAXES	NEW GROSS AMOUNT (AFTER DEDUCTING DESONERADO DISCOUNT) THAT MUST BE CONSIDERED AS TAXABLE BASIS FOR CALCULATING THE FOLLOWING TAXES	PIS AND COFINS TAXABLE BASIS IF THE BRAZIL - ALTERNATIVE TAXABLE BASIS COMPANY OPTION IS SET
DESONERADO_TYPE4	ICMS and DIFAL tax value compose ICMS Desonerado amount	Interstate operation: ICMS and ICMS-DIFAL	Interstate operation: FCEP, IPI, PIS and COFINS	The new gross amount must be considered for PIS and COFINS and FECP should be deducted also (since ICMS is already part of Desonerado discount)
DESONERADO_TYPE5	DIFAL and FCEP tax value compose ICMS Desonerado amount	Interstate operation: ICMS and FCEP	Interstate operation: ICMS-DIFAL, IPI, PIS and COFINS	From the new gross amount, reduce ICMS from PIS and COFINS basis as only FCEP was part of Desonerado
DESONERADO_TYPE6	Only DIFAL tax value compose ICMS Desonerado amount	Only Interstate operation: ICMS-DIFAL	Only Interstate: ICMS, FCEP, IPI, PIS and COFINS	In addition to Desonerado discount, both ICMS and FCEP are reduced from PIS and COFINS basis

For Brazil PIS and Brazil COFINS authorities, ONESOURCE Determination starts the calculation from the new net or gross amount calculated after the Desonerado reduction.

If the **Brazil - Alternative Taxable Basis** company option is not set or is blank, the taxable basis is the new net or gross amount calculated.

If the **Brazil - Alternative Taxable Basis** company option is set, the existing logic of some other authority reduction is kept unless the same authority was part of the Desonerado composition to avoid duplicate deduction.

For an interstate operation with pharma commodity and the Brazil ICMS Desonerado authority, if the Brazil ICMS Repasse all states authority is triggered, then the Brazil ICMS Desonerado is calculated considering the new net amount, discounting the Brazil ICMS Repasse amount.

Brazil - Rounding of New Gross (after Repasse Discount) to Remove Penny Difference in Rounded Taxable Basis of PIS and COFINS (803692 and 844287)

ONESOURCE Determination now rounds up the Repasse discount amount before calculating the new gross amount.

> New gross amount = Gross amount (given) - Rounded Repasse discount

Repasse is one of the discounts applied in Brazil transactions. Desonerado and the discount amount directly input from other authorities are not currently considered.

Transactions when both the Repasse and Desonerado are triggered are not affected. In such a case, only the Repasse rounded amount is subtracted from the gross amount.

For certain cases, there was an extra penny added to the COFINS amount. To address this discrepancy, ONESOURCE Determination subtracts the truncated difference of ICMS Repasse from the sum of truncated differences of all authorities before calculating the penny difference that would be adjusted.

The penny pitching algorithm is triggered when the BRAZIL_DEFAULT_TAX_ROUNDING_OFF configuration is set to **N** and the currency passed in the input is BRL.

Brazil Pauta - New Jurisdiction Eligibility Classes for Pauta (844930)

The Brazil ICMS Pauta authority was added under all states in Brazil. To support this, the following Jurisdiction Eligibility (JE) classes were added for sales and purchases in ONESOURCE Determination version 5.13.10.0:

- BrazilBuyerIcmsPautaGoodsJe

- BrazilSellerIcmsPautaGoodsJe

The new JE classes were added to exclude both sell-side and buy-side interstate scenarios to the end consumer (the business supply flag is set to **No**).

Brazil - BR - Correction of the FECP Calculation when the DIFAL Amount Is Less than or Equal to Zero - All Segments (864654)

The Brazil ICMS-FCEP authority now calculates the basis amount and tax independent of the DIFAL amount.

Brazil - BR - Correction of Taxable Basis for the ICMS-DIFAL Authority in the XML Output - All Segments (866285 and 885506)

In the XML output under the Brazil ICMS-DIFAL authority, the system included the Brazil ICMS-DIFAL tax amount instead of the Brazil ICMS-DIFAL taxable basis amount. This issue was fixed by adding the taxable basis used for the DIFAL amount calculation under the ICMS-RD tax block since ICMS-RD contributes to the ICMS-DIFAL calculations.

A <basis_percent> tag was added under the ICMS-RD tax block to represent any reduction basis percent present in the ICMS-RD rule.

Brazil - ICMS-ST Calculations for the PMPF TYPE 4 Authority for Consumer Goods (885480)

The **Type 4** selection was added to the **TaxCalcType** drop-down on the Rules page for ICMS Pauta and PMPF authorities.

Change of Tax Type in Islamabad Logic for Pakistan Provincial Sales Tax (903502)

The Zero Rated Export (ZE) tax type was added to the logic for Pakistan Provincial Sales Tax content. This tax type is applied for cross-border transactions that trigger the Islamabad Provincial Sales Tax.

ADDRESSED ISSUES

The topics below describe the issue addressed in this release.

TransEditor Configuring Capacity Field Returns NO_METHOD_FOUND Error in Output (906463)

The system generated an error message when a TransEditor was used to populate the **Capacity** field. However, when the TransEditor was removed and a value was added to the **Capacity** field using Workbench, the value in the **Capacity** field was successfully applied in the tax calculation. The issue is resolved now.

Unable to Assign User Roles in ONESOURCE Determination (906130)

An issue was identified where the system failed to edit user roles and displayed the "Transaction Failure" error. This issue is resolved. User roles can be edited successfully.

System Security Updates (910200, 916570 and 936428)

This version addressed some critical, high and medium level security system vulnerabilities through the following library upgrades:

- bcprov-jdk has been upgraded to the latest version bcprov-jdk15to18-1.75.jar

- guava-30.0-jre.jar has been upgraded to the latest version guava-32.0.0-jre.jar

- spring-security-web.jar has been upgraded to the latest version 5.4.11

Unable to Create Role when APPLICATION_EVENT_HISTORY_TRACKING_ ENABLED Is Set to Y in System Configuration (912898)

An issue was identified with creating a role when the APPLICATION_EVENT_HISTORY_TRACKING_ ENABLED system configuration parameter was set to **Y** in the administration company. This issue is resolved.

Custom Attributes above 50 Not Stored in Database (920347)

A new feature was added in ONESOURCE Determination version 5.13.8.0 where the number of customer attributes increased from 50 to 200. However, the attribute values were not stored in the audit database. This issue is resolved.

Inconsistent Mapping of Tax Code Qualifiers to the First Transaction Request (351488)

Issues were identified with the Tax Code Qualifiers (TCQ) code mappings defined in the ONESOURCE Determination application (accessed by navigating to **Logic Settings > Tax Code Qualifiers**). The TCQ code was not applied to the first transaction request to the tax engine, which resulted in an incorrect tax response. A subsequent request correctly applied to the TCQ code.

The issue is resolved. The TCQ code is correctly applied to every transaction request.

Internal Server Error for Company Imported in ONESOURCE Determination Original from Cloud (885197)

An issue was identified in ONESOURCE Determination version 5.13.9.0 whereby the system returned an internal server error while importing LATAM companies from ONESOURCE Determination Cloud to Original. The issue is resolved.

Error Related to Invalid Identifier Is Intermittently Triggered in Tomcat Server Log (853778)

An error related to LINE_ATTRIBUTE_99_NAME was received in the Tomcat server log when trying to upgrade to ONESOURCE Determination version 5.13.11.0. The issue is resolved.

Inconsistent Authorities between ONESOURCE Indirect Tax Compliance (Sales and Use Tax Compliance) and the Compliance Reports in ONESOURCE Indirect Tax Reporting (U.S. Transactions Only) (664437 and 873447)

An issue was identified where the address elements in two reports (ONESOURCE Indirect Tax Compliance Sales and Use Extract and US Document Details) from ONESOURCE Indirect Tax Reporting were different from the reports triggered in the ONESOURCE Sales and Use Tax application. For a few selected transactions where only state and county taxes are applicable, the ONESOURCE Determination algorithm did not trigger the correct compliance area. As a result, an incorrect city was returned in the ONESOURCE Indirect Tax Compliance application.

This issue occurred because the algorithm determined the compliance area based on the sorting order and assigned the first city from the county where the same authorities were applicable. This algorithm was enhanced and the correct compliance areas are now triggered. This issue is resolved.

Low Value Goods Logic Not Inherited by Child Companies (862425)

When the LVG threshold was provided at the parent company, it was not inherited by the child company. Instead, the LVG threshold had to be provided at child company level for the LVG logic to be activated. This issue is resolved. Child companies can now inherit the LVG threshold information from parent companies and trigger the LVG logic.

Error Due to TransEditor Action (863401 and 901956)

On upgrading to ONESOURCE Indirect Tax Determination version 5.13.10.0, the TransEditor action "EXTERNAL_COMPANY_ID = INVOICE.EXTERNAL_COMPANY_ID" was resulting in the error "An error occurred while processing the TransEditor Group. TransEditor Group Name=Original_DEFAULT". A Null pointer exception would result when the Action element of the first TransEditor Rule (EXTERNAL_COMPANY_ID in this case) did not have a Header (I.e. LINE.EXTERNAL_COMPANY_ID or INVOICE.EXTERNAL_COMPANY_ID). The Null Pointer exception has been resolved in this version and therefore the mentioned error will no longer occur. This issue is fixed now.

TransEditor Page Inaccessible when the Condition Contained an Apostrophe (813405)

When an apostrophe (') was present in one of the elements of a TransEditor condition, the **Action** and **Conditions** tabs of the TransEditor became unavailable. This issue is resolved. The **Action** and **Conditions** tabs can be accessed when the apostrophe character is present.

Italy Document Rounding Issue (911858 and 837574)

An issue was identified with rounding for transactions in Italy where a single invoice contained up to 1,100 lines. The issue is resolved. The rounding logic for Italy was tested for invoices with up to 3,500 lines.

> For transactions in Italy, the tax engine rounds at the invoice level after the tax calculation in the following steps:
>
> 1. ONESOURCE Determination calculates the sum of unrounded tax amounts and rounds the sum.
>
> 2. ONESOURCE Determination compares the sum of the of the rounded tax amounts with the sum of the unrounded tax amounts (rounded) to determine the penny difference.
>
> 3. When a penny difference is found, ONESOURCE Determination adjusts the lines with the highest gross amounts (regardless of sign) or the first applicable lines (if all lines have the same gross amount).

An issue was identified whereby the tax engine did not apply the penny adjustments when the penny difference was more than $1.00 or less than -$1.00. The issue is resolved.

Brazil - Displaying Incorrect FCEP-ST Tax Amount when there Is a Reduction Basis for that Authority (794901)

A fix was made for the FCEP-ST tax amount formula during intrastate scenarios when the FCEP II has a reduction basis percentage. The corrected formula is:

FCEP-ST tax amount = (FCEP-ST tax rate x FCEP-ST taxable basis) - FCEP II tax amount

(where FCEP II tax amount = FCEP II taxable basis amount FCEP II tax rate percentage)

Brazil - Cases with Reduction in any Authority Provides Wrong Result with Desonerado (795004)

A fix was made for all the cases when a reduction basis percentage is configured in ICMS, FCEP II, ICMS-RD or ICMS-RD ST authorities as part of Desonerado calculations.

Brazil - Null Pointer Exception when Calculation Direction Switched from Forward to Reverse from Total (803671)

A blank page was caused by a null pointer exception, which occurred due to the gross amount used for the ICMS-ST calculation being zero after switching to a reverse from total. This error is fixed.

Brazil - Incorrect Result for ICMS-ST and FCEP-ST when there Is a Reduction in FCEP II and ICMS (Ship From) for Intrastate Scenarios (803688)

A fix was made to correct the ICMS-ST and FCEP-ST tax amounts for intrastate scenarios when FCEP II has a reduction basis percentage added and the FCEP -ST tax amount was incorrect.

> FCEP-ST tax amount = (FCEP-ST percentage rate x FCEP-ST taxable basis amount) - ((Gross amount x FCEP II taxable basis percentage) x FCEP II percentage rate)

> ICMS-ST tax amount = (ICMS-ST percentage rate x ICMS-ST taxable basis amount) - ((Gross amount x ICMS taxable basis percentage) x ICMS percentage rate)

This fix is for:

- If the **Brazil - Alternative Taxable Basis** company option is not set or is blank and for the alternative taxable basis and PIS and COFINS taxable basis.

- The inclusive and standard calculation methods.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.11.1 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.11.1 includes an addressed issue.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issue addressed in this release.

Additional UK Tax Block for a Reverse Charge for UK to EU Purchase Transactions (886879)

For purchase transactions from United Kingdom (UK) to any EU country where the seller registration is provided in the input and the buyer registration is provided at the company, the tax engine incorrectly returned an additional tax block for a reverse charge in the seller's country (non-EU). The issue is resolved. Two reverse charge tax blocks are received in the buyer's country (EU) as expected.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.11.0 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.11.0 includes bug fixes and introduces the following features:

- For Brazil, the CALC_BASIS_MODE optional element was added to the XML output of the SOAP 2011 XSD.

- For Brazil, changes were made to the Pauta user interface.

NEW FEATURES

The topics below describe features added in this release.

Brazil - New Element in XML Output to Indicate whether PMC, PMPF or IVA Is Used for Calculating ICMS-ST (708950, 794299)

Since the Brazil regulations for e-invoice require the value that was used to determine the calculation of ICMS-ST in the output response, an optional element was added to the output of the SOAP 2011 XSD. This new element, CALC_BASIS_MODE, informs which product price (PMC, PMPF or IVA) factor was used in the calculation of ICMS-ST.

This element was added within the ICMS-ST authority tax block. The string values this element can hold are IVA (for default operations), PMPF, or PMC. Since this is an optional element, this will only be populated when the ICMS-ST authority is present in the tax results.

Brazil - Pauta User Interface Changes (834023)

Because the **Product Unit Price** field was added to the Rules page for ICMS Pauta and PMPF in version 5.13.10.0, the old **PMPF Unit price** field from the Rules page was removed and the **TaxCalcType** drop-down list was made visible on the Rules page for ICMS Pauta authority.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

System Security Updates - Vulnerabilities in Determination Original .JAR Files (690128, 690133, 690144, 690164, 690175, 735938, 736026, 736260, 736263, 754448, 823088 and 830152)

Per our security policy, the following libraries were upgraded to the latest versions to avoid vulnerabilities:

- batik-bridge-1.16.jar

- jackson-databind-2.14.1.jar

- xmlsec-2.2.3.jar

- gson-2.10.jar

- neko-htmlunit-2.67.jar

- hibernate-validator-6.2.5.Final.jar

- xstream-1.4.20.jar

- hibernate-core-5.4.33.Final.jar

- woodstox-core-6.4.0.jar

- cxf-core-3.4.10.jar

- jboss-threads-2.1.1.Final.jar

- commons-fileupload-1.5.jar

Penetration Test Vulnerabilities (524333, 351367, 467821, 836156 and 832883)

Per our security policy, the following vulnerabilities were found in the latest version and were fixed:

- Authorization bypass via parameter tampering.

- Malicious file upload.

- No account lockout.

- Sensitive information stored in clear text.

- Improper error handling.

- Enumeration attack on server's directories.

- Missing HTTP Strict Transport Security header.

- Session ID stored in an insecure cookie.

Brazil - Exception Message Is Not Shown when the PMC, PMPF and PMVG Product Price Values Are Sent through a TransEditor (408658)

Either PMC, PMPF or PMVG can be provided as an input for the product price, but the system messages did not show an exception when both the PMC, PMPF and PMVG values were provided. This issue is resolved.

Brazil - Maximum Character Limit for PMC, PMVG, PF and PMPF Input Fields Set to 16 Characters (351319)

You can enter a maximum of 16 characters (with a maximum of five digits after the decimal point) in the input fields for PMC, PMVG, PF and PMPF. For example, you can enter 1234567890.12345.

Brazil - Calculation of Brazil ISS Authority for Services Transactions with Brazil - Alternative Taxable Basis (794159)

When the **Brazil - Alternative Taxable Basis** company admin option is set to ICMS_EXCLUDE, it should not impact the taxable basis for PIS and COFINS for operations different from goods transactions.

The following fix was made to the factor formula used for calculating the taxes in services transactions:

Factor = 100% - PIS rate - COFINS rate - ISS rate

Brazil - ICMS-ST Type - None Should Not Have a Limit Credit - All Segments (794762)

When the ICMS interstate or intrastate rate is higher than ICMS-ST rate, ONESOURCE Determination recalculated a new ICMS for deducting from the ICMS-ST tax amount (known as a credit limit). This validation is no longer applicable for the **None** ICMS-ST Type.

ICMS-ST taxable basis amount = {(Gross amount^ + IPI) x IVA original* percent)} x ICMS-ST taxable basis percent

^ For the standard use recomposed basis.

* For interstate scenarios, if the IVA original is greater than the IVA adjusted, then use the IVA original or use the IVA adjusted.

ICMS-ST tax amount = (ICMS-ST taxable basis amount x ICMS-ST tax rate percent) - ICMS tax amount

This formula also works according to the ICMS-ST taxable basis percent provided in the rule.

If the ICMS-ST tax amount result is less than 0.00, ONESOURCE Determination displays the ICMS-ST tax amount as 0.00.

Brazil - ICMS-ST Calculated by PMPF without Comparisons (346201)

Calculation of the ICMS-ST by the PMPF (Weighted Average Price to the Final Consumer) is now applied as a calculation procedure when PMPF is available. The calculation applies to the following authorities for all states:

- Brazil ICMS-ST

- Brazil ICMS PMPF

- Brazil ICMS FCEP-ST

- Brazil IVA

When **None** is selected, the ICMS-ST calculation is applicable for medicines in São Paulo only (PMPF, Trava, PMC and IVA). When **Type 1** is selected, the value is derived from the **PMPF** field. The value is used as the basis for the ICMS-ST authority calculation.

The following logic is used when the PMPF value is informed by the source ERP (XML input) or under the rule on the specific field:

- If the PMPF value is informed by the source ERP then this is the ICMS-ST authority basis.

- If the PMPF value is informed only under the ICMS PMPF - TYPE 1 rule, then the PMPF value is multiplied by the quantity informed by the source ERP. This value is the ICMS-ST authority basis.

If the system does not find any Brazil ICMS PMPF authority rule, then the system searches for a Brazil ICMS PMC authority rule. If a rule or a PMC value is not found, then the system searches for the Brazil IVA authority and uses the current calculation logic.

Consider the following for the calculation procedure for ICMS-ST via ICMS PMPF- TYPE 1:

- Start of the following authority: ICMS-ST authority and ICMS PMPF authority

  - ICMS-ST Tax Basis = PMPF Total Amount (as described above)

  - ICMS-ST Tax Value

    e = (ICMS-ST Basis* ICMS-ST rate) - ICMS inter/intra

Brazil - ICMS Repasse Discount Applied to Medicine Operations - Pharma (803636,803638 and 803694)

This enhancement addresses the calculation of ICMS Repasse applied to the pharma segment, which is required by the Article 6 of the Resolution of CMED n° 1/2021. The calculation is enabled for inclusive and interstate scenarios only.

The system discounts the ICMS Repasse amount from the Price Factory (PF) / Gross Amount then uses the net amount to calculate the basis for all the other taxes (rather than the Gross Amount / PF for authorities such as ICMS, FCEP, PIS, COFINS and IPI).

The ICMS Repasse amount is calculated under the Brazil ICMS Repasse authority. This discount does not affect ICMS PMC or ICMS PMPF tax amounts.

If a discount exists under **Calcs** on the **Overrides** tab, the discount is applied first to the Gross Amount / PF to get the Repasse value to get the net amount.

New authorities for all states were created. For example, **Brazil ICMS Repasse São Paulo** and **Brazil ICMS Repasse Maranhão**.

The Repasse authority does not trigger for transactions to a non-taxpayer.

Brazil - Product Price Values Passed through TransEditors Were Not Used in the Tax Calculation (351378)

When the Product Price values were passed through TransEditors and at the line level, the system did not consider the TransEditors and did not display the TransEditor Product Price values in the filtered XML input and XML output. This issue is resolved now.

Zone Alias Not Getting Applied (662847)

Zones with custom aliases were not recognized by the tax engine, which resulted in incorrect taxes. This issue occurred for zones that have at least one child zone associated with them. Invoices affected by this issue were specifically those with a province zone where the transaction location included the province alias along with the state and postcode information.

This issue was fixed. The zone alias logic was updated in ONESOURCE Determination so that the zone alias is correctly considered for the transaction even if that zone has one or more child zones associated with it.

Issue with Custom Zone Alias (662848)

If a custom zone alias is created for a company but the alias matched an already defined alias in the standard content, then the tax engine did not consider the custom alias and provided incorrect tax results. This is now fixed. The tax engine now gives priority to the custom alias over the standard alias. This is much like other custom data created in the system.

Rounding Issues in Tax Amount for Reverse from Tax Calculations (581519 and 712359)

For Reverse from Tax calculations, the input includes the Gross Amount and Tax Amount elements and ONESOURCE Determination recalculates the invoice Total Gross Amount and Total Tax Amount based on those input elements. An issue was identified where the input line Tax Amount and the recalculated invoice Total Tax Amount did not match due to rounding. The 5.13.9.0 release addressed this issue for U.S. authorities only. The issue was addressed in the 5.13.10.0 for U.S., Canada and Brazil as well as document rounding for all other authorities.

Incorrect Rule Order for HSN/SAC GST Codes for Reverse from Total Calculations (663448)

For Forward calculations, the engine triggers Rule Order 8687.35, which has a rule condition related to LINE.CALCULATED_UNIT_AMOUNT. However, for Reverse from Total calculations, the system did not receive the value for LINE.CALCULATED_UNIT_AMOUNT because this amount is derived from the Gross Amount, which is not passed in Reverse from Total calculations. Without the LINE.CALCULATED_UNIT_AMOUNT, the system triggered the next rule order and calculated an incorrect tax amount. This issue is now resolved.

Incorrect Authority Type during Master Content Upload (667330)

During a new installation or upgrade of ONESOURCE Determination, the **Authority Type** field for a few authorities was overridden with an incorrect value if Sabrix US Master Content was uploaded before Sabrix INTL Master Content. This issue is resolved. The **Authority Type** field is no longer impacted by the order of the Master Content upload.

Issue with Enabling Performance Logging in ONESOURCE Determination (756029)

As a result of the log4j vulnerability fix, there was an issue with enabling Performance Logging in the system. As a result, the Start, Time and Tag values were not displayed in the log file. This issue is resolved.

Issue with Customer and Company Creation Using SOAP Services (817503)

An issued caused the system to return an internal server error when a new customer or company was created using SOAP services. This issue is resolved.

Double Tax Results for EU Intra-Country Transactions (834514)

For EU intra-country transactions (transactions that occur within the same country within the EU) with a Transaction Type of Default Services, the tax engine provided two tax results for the same location, which doubled the tax results. The workaround was to remove the supply location either in the transaction or by using a TransEditor. The issue is resolved.

ONESOURCE Determination Implementer Messages after Upgrade (754707,836419)

After upgrading to versions 5.13.8.0 and above, Determination Implementer Messages displayed the error, "problems encountered during implementation". The issue is resolved now.

Unable to Encrypt Data Source Credentials in 5.13.11.0 (824881)

An issue was identified with encrypting Data Source Credentials using the AES-256 standard of encryption. The issue is resolved now.

Related Line Functionality for Exemption Certificates (828059)

When using the Related Line functionality (where a line, such as line 2, is related to another line, such as line 1) the expectation is that the taxability of line 1 is followed by line 2. An issue was identified where line 2 did not follow the taxability of line 1 when an exemption certificate was applied to line 1. This issue is resolved now.

KNOWN ISSUES

The topics below describe known issues in this release.

Incorrect ERP Tax Codes Triggered Intermittently (351488)

Intermittent issues were identified with the ERP code mappings defined in the ONESOURCE Determination application. The ERP code was not applied to transaction requests to the tax engine, which resulted in an incorrect tax response. The issue will be resolved in an upcoming release. The ERP code should be applied correctly to every transaction request.

Error Related to Invalid Identifier Is Triggered Intermittently in Tomcat Server Log (853778)

An error related to LINE_ATTRIBUTE_99_NAME was received in the Tomcat Server log when attempting to upgrade to ONESOURCE Determination version 5.13.11.0. The temporary workaround is to run the installer again. A permanent fix to this issue will be provided in an upcoming release.

DETERMINATION 5.13.10.3 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.10.3 includes an addressed issue.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Custom Authorities Returning an Error (824459)

In older versions, Determination required setting up a valid registration mask for custom authorities to validate registration numbers. As a result, custom authorities without a registration mask were not returning tax results, and the system returned the INVALID_REGISTRATION_NUMBER error. This issue is resolved. The custom authority returns the correct tax results.

> By default, Determination does not require a valid registration mask to trigger custom authorities. If an authority is required to validate against a registration mask for custom authorities, this can be set up in the company configuration.

The **Custom Authority Registration Mask Validation** company option was added. The default value is **N** (for **No**). To validate the registration masks of custom authorities, this parameter must be set to **Y** (for **Yes**).

TransEditor Condition to Copy Buyer Registration Number from Invoice to Line Level Was Not Triggered (828605)

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 was not triggered within a transaction and, as a result, tax calculations failed due to insufficient data related to registration numbers. This issue is resolved.

KNOWN ISSUES

The topics below describe known issues in this release.

TransEditor Condition to Copy Buyer Registration Number from Invoice to Seller Registration Number at Line Level (835538)

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

LINE.REGISTRATIONS.BUYER_ROLE = INVOICE.REGISTRATIONS.SELLER_ROLE

This is not triggered within a transaction. This issue will be addressed in a future release.

DETERMINATION 5.13.10.2 RELEASE NOTES

See [Important Announcement Regarding ONESOURCE Determination Original (page 1)](#) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See [Content G Discontinuation and Support Timeline Update (page 3)](#) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.10.2 includes an addressed issue.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Encryption of Data Source Credentials Not Working (820311)

For ONESOURCE Determination Original versions after version 5.13.7.2, Tomcat encryption for data source credentials using the 256-bit AES encryption functionality produced the following error: "org.springframework.beans.factory.BeanCreationException". The issue is fixed.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.10.0 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.10.0 includes addressed issues, known issues, and introduces the features detailed below.

NEW FEATURES

The topics below describe features added in this release.

Luxury Tax for Canadian Authorities (351498)

ONESOURCE Determination now supports the calculation of luxury tax products for Canadian authorities. This is applicable to luxury vehicles and aircrafts exceeding a threshold price of CAD 100,000 and luxury boats exceeding a price of CAD 250,000. The applicable luxury tax is the lower of 10 percent of the total price or 20 percent of the amount by which the price exceeds the threshold price. The luxury tax is used as the basis for the calculation of GST.

Validation for the PASSWORD_REUSE_RESTRICTED_NUMBER_OF_TIMES System Configuration Field (569887)

ONESOURCE Determination now returns an error message if the value entered in the PASSWORD_REUSE_RESTRICTED_NUMBER_OF_TIMES field is incorrect. The values accepted are numerical values between 2 and 10. Invalid input values include alphabets, decimals, negatives, blank values and special characters.

Brazil - Two new Jurisdiction Eligibility (JE) Classes Added for Brazil ICMS Pauta Authority (662790)

Two new Jurisdiction Eligibility (JE) classes (BrazilBuyerIcmsPautaGoodsJe and BrazilSellerIcmsPautaGoodsJe) were added for Brazil ICMS Pauta authority.

Brazil - Null Value Displayed for INCLUDE_ICMS Column in TB_INVOICES, TB_INVOICE_LINES, RSV_INVOICES, and RSV_INVOICE_LINES (408657)

The INCLUDE_ICMS column displays in the appropriate tables (TB_INVOICES, TB_INVOICE_LINES, RSV_INVOICES and RSV_INVOICE_LINES) and the value populates as **Y** when data is available.

Brazil - Additional DIFAL Type for Calculation of the Rate Differential with Tax Benefit State DF (Distrito Federal) for ICMS RD Authority (351377)

A new DIFAL type – Type 7 was added to the system to calculate ICMS-RD (Buyer) and ICMS-RD-ST (Seller) across both the inclusive and standard calculation methods for interstate scenarios that include a ship to location passed as DF (Distrito Federal).

Brazil – New Type 4 Selection Added to the Tax Substitution Type Drop-Down List on the Rules Page (351530)

On the Rules page, the **Type 4** selection was added to the **Tax substitution Type** drop-down list for the **Tax Substitution (Brazil Only)** calculation method.

Brazil - ICMS ST - Type 4 - PPB (Basic Production Process) Minas Gerias (351532)

For interstate transaction to certain states, the tax engine performs calculations for ICMS-ST with a new tax substitution type (Type 4).

This applies to transactions when the tax burden at the destination is less than or equal to the interstate tax burden. The system uses the original MVA - not the adjusted MVA - for the ICMS-ST calculation. The credit limiter is considered and applied. This only applies in some interstate operations, such as when the Ship To is different from the Ship From, and for materials that have some tax benefit.

This case arises when the reduction basis percentage is available under the ICMS Ship To authority.

This is applicable to scenarios where the below conditions are met:

- Calculation method must be **Tax Substitution (Brazil Only)** and the **Tax Substitution Type** must be **Type 4**

- **Business Supply** flag is set to **Yes**

- Standard or inclusive type calculation

- Company role is the buyer or seller

- Input includes commodity code and CEST under the line.end_use qualifier

- With or without the **Brazil PIS and COFINS taxable basis** company admin option set

Brazil - FCEP-ST Tax Treatment Enhanced for Standard Intrastate Operations (374309)

The FCEP-ST tax treatment for intrastate operations when the **Business Supply** flag is set to **Yes** was enhanced to support financial transactions for:

- Intrastate transactions

- **Business Supply** flag is set to **Yes**

- **Brazil-Alternative Taxable Basis** company admin option is enabled or disabled

- CEST value is passed as part of the tax call

Brazil - ICMS-ST Calculated Using PMPF (TaxCalcType - Type None) Pharma Segment (408649)

Calculation of the ICMS-ST by the PMPF (Weighted Average Price to the Final Consumer) is now applied as a calculation procedure when PMPF is available. The calculation applies to the following authorities for all states:

- Brazil ICMS-ST

- Brazil ICMS PMPF

- Brazil ICMS FCEP-ST

- Brazil IVA

When **None** is selected in the **Tax Calc** field, the ICMS-ST calculation is applicable for medicines in São Paulo only (PMPF, Trava, PMC and IVA).

The following logic is used when the PMPF value is informed by the source ERP (XML input) or under the rule on the specific field:

If the PMPF value is informed by the source ERP then this is the ICMS-ST authority basis.

If the system does not find any Brazil ICMS PMPF authority rule, it will search for a Brazil ICMS PMC authority rule. If a rule or a PMC value is not found, the system will search for the Brazil IVA authority and use the current calculation logic.

Brazil - Correction of the FCEP and FECP-ST All Segments (408652)

This feature addresses an enhancement of ICMS FCEP for the following authorities:

- Brazil ICMS-FCEP (buyer) and Brazil ICMS-FCEP-ST(seller) for the following conditions:

  ○ **Business Supply** flag is set to **No**

  ○ Alternative calculation method only

  ○ Interstate operation

- Brazil ICMS FCEP II for the following conditions:

  ○ **Business Supply** flag is set to **Yes**

  ○ Interstate operation

  ○ No company admin option set

A summary of the correction is as follows:

- The FCEP-ST basis and FCEP basis for the seller side and DIFAL types 2, 3, 4, 5, and 6 is now fixed.

- The FCEP-ST basis and FCEPT basis for the buyer side and DIFAL types 1, 4, 5 and 7 are now fixed.

- The factor calculation is now fixed when the Brazil ICMS authority has a reduced basis amount. Now, the factor is calculated as:

  100% - ((ICMS basis % x ICMS rate) + (FCEP II rate x FCEP II basis %) + (PIS rate x PIS basis %) + (COFINS rate x COFINS basis %))

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Incorrect Taxable Basis for MD – STATE (BRACKET) SALES/USE TAX (351148)

For transactions in Maryland where the graduated tier was applicable, the XML output showed an incorrect rounded DOCUMENT_AMOUNT for the MD - STATE SALES/USE TAX authority. The issue is fixed.

Incorrect Taxable City, Country and Postal Code in XML Output when Allocations Are Provided at the Line Level (351446)

For transactions where allocations were provided at the line level, the XML output showed incorrect taxable authorities in the output. Taxable City, County and Postal Code information showed the SHIP TO values rather than the allocation authorities. This issue is fixed.

Performance Improvement for Delay in Displaying Rules for a Few Authorities (351486 and 542499)

The performance on the Rules page was reported as poor for a few authorities in the U.S., India and Brazil. Changes were implemented, which substantially improved the performance of these authorities.

Changes in EU Goods Logic for Destination/DDP Results (467652)

The tax engine did not consider the buyer's registration when the Point of Title Transfer was set to Destination (or Delivery Terms as DDP). As a result, the system displayed the Authority Message as Output VAT (rather than Intra-Community Dispatch) in the Ship From location. This issue is fixed.

Tax Results and XML Output Excluded Registration Number for Electronic Services for UOSS Transactions (497620)

The registration number provided for Union One Stop Shop (UOSS) transactions for the **Electronic Services** transaction type was excluded in the tax results and XML output. This issue is fixed.

Addressed Issue with Addition of Zone Alias (663354)

An issue was identified with adding Zone Alias in the system. The issue is fixed.

% Not Accepted in Tax Code Qualifiers (694450)

An issue was identified where the tax code qualifier did not accept % in the description. The issue is fixed.

Brazil - Displaying ICMS-ST and ICMS-FCEP-ST Authorities for Non-taxpayer Transaction (591816)

An issue was identified where the Brazil ICMS-ST Amazonas and Brazil ICMS-FCEP-ST Amazonas authorities were incorrectly displayed along with other valid authorities. The issue is fixed.

Brazil - Addition of the PRODUCT_UNIT_PRICE Column to the TB_RULES and HT_RULES Tables (708804)

The PRODUCT_UNIT_PRICE field was added to the Rules page to define the unit price for consumer goods. This field is visible on the Rules page for PMPF and PAUTA authorities. This field generates the INTL content for PMPF and PAUTA authorities.

 The logic for this field will be implemented in an upcoming release.

Brazil - Exempt Amount and Non-Taxable Amount for IVA Authority (408654)

Exempt and non-taxable amounts now display in tax results for the IVA authority when there is a reduction basis and zero taxable basis.

Brazil – Incorrect Results for ICMS DIFAL Interstate Transactions and NON-TAXPAYER Scenario Does Not Trigger Type 1 Calculation for DIFAL and FCEP Authorities (693543)

There were issues with the following:

- ONESOURCE Determination applied the reduction basis over the calculated value of the DIFAL rather than applying the reduction over the basis value.

- For a non-tax payer buyer and in an O2C transaction, the ICMS DIFAL calculation is affected by the DIFAL type under the ICMS-RD contributing authority. The error occurred in the ICMS DIFAL tax amount when the non-taxpayer buyer was located in any state other than those states in DIFAL Type 1.

These issues are fixed.

Brazil - Displaying Incorrect DPI Message for Some Authorities when Buyer Registrations are Passed with Non-Taxpayer Option (591879)

The system displayed the following messages:

- Brazil IPI - BRSG4: IPI applies in Ship To location.

- Brazil PIS - BRSG4: PIS applies in Ship To location.

- Brazil COFINS - BRSG4: COFINS applies in Ship To location.

- Brazil ICMS-FCEP II Sao Paulo - BRSG4: ICMS Sul-Norte rate applies in Ship From location.

However, the system should have displayed the following messages:

- Brazil IPI - BRSG1: Standard output in Ship From location.

- Brazil PIS - BRSG1: Standard output in Ship From location.

- Brazil COFINS - BRSG1: Standard output in Ship From location.

- Brazil ICMS-FCEP II Sao Paulo - BRSG1: Standard output in Ship From location.

The issue is fixed. The correct messages now display.

KNOWN ISSUES

The topics below describe the known issues in this release.

Rounding Issues in Tax Amount for Reverse From Tax Calculations (581517)

For Reverse From Tax calculations, the input includes the Gross Amount and Tax Amount elements, and ONESOURCE Determination recalculates the invoice Total Gross Amount and Total Tax Amount based on those input elements. An issue was identified where the input line Tax Amount and the recalculated invoice Total Tax Amount did not match due to rounding. This was addressed for U.S. authorities in release 5.13.9.0, but not for Canada, Brazil and document rounding. This issue will be addressed in an upcoming release.

Incorrect Allocation and Tax Results for Partial Allocations at Invoice Level (735135)

When partial allocations (for example, 50% Tennessee, 50% State) are provided at the invoice level, ONESOURCE Determination incorrectly applies the allocation to only one state rather than applying the provided allocation proportions. This issue will be addressed in an upcoming release.

Incorrect Allocations when the Full Name of the State Is Provided at Allocation (502375)

When the two-character code (for example, NJ or FL) is provided for the Ship To state and the full name of the state is provided for the allocations, ONESOURCE Determination calculates the correct tax amounts but the XML output does not include a taxable state and taxable country. This issue will be addressed in an upcoming release.

DETERMINATION 5.13.9.0 RELEASE NOTES

See <u>Important Announcement Regarding ONESOURCE Determination Original (page 1)</u> for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See <u>Content G Discontinuation and Support Timeline Update (page 3)</u> for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.9.0 includes addressed issues, known issues, and introduces the features detailed below.

NEW FEATURES

The topics below describe features added in this release.

Enhanced Password Aging and Reuse (350490 and 346576)

To strengthen security measures relating to authentication, Determination now allows you to restrict reuse of up to 10 previously used passwords when a password is reset or renewed to log into ONESOURCE Determination Original. Previously, Determination restricted only the reuse of the most recent password.

If you want to customize the number of previously used passwords, in the system configuration parameters (click **Menu > System > Configuration** to access), add or configure the PASSWORD_REUSE_RESTRICTED_ NUMBER_OF_TIMES parameter. Enter any number between 2 and 10. This triggers the new TB_ PASSWORDS_HISTORY table to be added in the database. This table maintains the password history based on the user's configuration.

Company Search Window (350653)

A new search feature was introduced that will allow users to search a company by typing the name rather than by scrolling. This optional feature is enabled by adding the COMPANY_SELECTION_SEARCH_ENABLED_ COUNT configuration parameter (click (**Menu > System > Configuration** to access). The default value for this parameter is 2000, and, when the number of companies in the database is less than 2000, a drop-down list displays in the top right corner. To trigger the Search pop-up window (which replaces the drop-down list), change the value of the COMPANY_SELECTION_SEARCH_ENABLED_COUNT parameter from 2000 to any other number.

Brazil - ICMS Desonerado (Exonerate) In Free Zone or Other Operations with ICMS Exonerate (495101)

Brazil ICMS Desonerado Authority Added for All Brazilian States and Jurisdiction Eligibility Mapping (351433)

The Brazil Desonerado authority was added under all states in Brazil. To support this, the **BrazilSellerDesoneradoGoodsJe** Jurisdiction Eligibility (JE) class was added and mapped to BRAZIL_ DESONERADO_JD.

No Company Admin Option - Inclusive Tax Calculation, Interstate Operations for ICMS Desonerado (351438), and Inclusive Tax Calculation for ICMS Desonerado - Interstate Operations (351440)

The ICMS Desonerado amount for all states in Brazil is composed of the sum of the tax amount from the different authorities as determined by the Desonerado type under qualifiers. The ship from rule under the Desonerado authority is triggered when a qualifier listed in the following table is passed in the input under LINE.END_USE:

ICMS DESONERADO QUALIFIER	OPERATIONS	COMPOSITION OF ICMS DESONERADO AMOUNT
DESONERADO_TYPE1	Intrastate	ICMS and FCEP II
DESONERADO_TYPE2	Intrastate and Interstate	Only ICMS
DESONERADO_TYPE3	Interstate	ICMS, DIFAL and FCEP

ICMS DESONERADO QUALIFIER	OPERATIONS	COMPOSITION OF ICMS DESONERADO AMOUNT
DESONERADO_TYPE4	Interstate	ICMS and DIFAL
DESONERADO_TYPE5	Interstate	DIFAL and FCEP
DESONERADO_TYPE6	Interstate	Only DIFAL

The above qualifiers are case sensitive. For example, to pass the DESONERADO_TYPE2 qualifier, go to **Rule Condition > Element: Line.End_Use > Operator: = > Value: DESONERADO_TYPE2**.

The content is created per the state with the corresponding Desonerado type as rule qualifiers under each Desonerado authority.

The total value of the Brazil ICMS Desonerado authority is deducted from the base amount of the other taxes in the operation, such as ICMS, FCEP, FCEP II, DIFAL (if not exempted), IPI, PIS and COFINS.

The ICMS Desonerado authority is applied to transactions with the following company role: Seller with Inclusive Calculation Methods.

Tax Calculation for ICMS Desonerado with Brazil Alternative Taxable Basis Company Admin Option Set - Inclusive Calculation Method (351444)

Desonerado applies to the inclusive calculation method only when either the **Brazil - Alternative Taxable Basis** or no company admin option is set for the PIS and COFIN authorities.

ICMS DESONERADO QUALIFIER	OPERATIONS	COMPOSITION OF ICMS DESONERADO AMOUNT	WITH BRAZIL ALTERNATIVE TAXABLE BASIS COMPANY ADMIN OPTION
DESONERADO_TYPE1	Intrastate	ICMS and FCEP II	Only Desonerado is discounted from PIS and COFINS basis (since ICMS and FCEP II are already part of Desonerado discount)

ICMS DESONERADO QUALIFIER	OPERATIONS	COMPOSITION OF ICMS DESONERADO AMOUNT	WITH BRAZIL ALTERNATIVE TAXABLE BASIS COMPANY ADMIN OPTION
DESONERADO_TYPE2	Intrastate and Interstate	Only ICMS	Desonerado and FCEP II are discounted from PIS and COFINS basis as only ICMS was part of Desonerado
DESONERADO_TYPE3	Interstate	ICMS, DIFAL and FCEP	Only Desonerado is discounted from PIS and COFINS basis (since ICMS and FCEP II to be reduced for alternative are already part of Desonerado discount)
DESONERADO_TYPE4	Interstate	ICMS and DIFAL	Desonerado and FCEP II is discounted from PIS and COFINS basis as only ICMS (to be deducted as part of the alternative) was part of Desonerado
DESONERADO_TYPE5	Interstate	DIFAL and FCEP	Desonerado and ICMS is discounted from PIS and COFINS basis as only FCEP (to be deducted as part of the alternative) was part of Desonerado
DESONERADO_TYPE6	Interstate	Only DIFAL	In addition to Desonerado discount, both ICMS and FCEP are reduced from PIS and COFINS basis

PMPF Type Drop-Down Added to ICMS PMPF State Authority (408646 and 408617)

Calculation of the ICMS-ST by the PMPF (Weighted Average Price to the Final Consumer) is now applied as a calculation procedure when PMPF is available. The calculation applies to the following authorities for all states:

- Brazil ICMS-ST

- Brazil ICMS PMPF

- Brazil ICMS FCEP-ST

- Brazil IVA

As shown in the following graphics, a drop-down list with options for the ICMS PMPF type was added under the ICMS PMPF authority:

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

U.S. Rounding Algorithm Not Applied Correctly to Workbench Tax Results and Output XML (616852)

For **Reverse from Tax** calculations, rounding was not applied correctly in the output XML, and the rounded TOTAL_TAX_AMOUNT displayed more than 10 decimal places. This issue is fixed now.

Rounding Issues Involving Contributing Authorities (494510)

When custom authorities are part of the authority tax results, the rounded tax amount from these authorities were considered as the taxable basis for the dependent authority, which caused incorrect tax amount rounding results for forward calculation methods. This is now corrected. The unrounded tax amounts from a contributing authority is considered for evaluation of taxable basis before the resulting tax amounts are calculated and rounded.

Tax Amount Rounding Issues with Reverse From Tax Calculations (502764)

For a Reverse From Tax calculation method, the invoice already includes the line Gross Amount and the line Tax Amount, and Determination has to recalculate the invoice Total Gross Amount and Total Tax Amount based on those input elements. There was an issue where the input line Tax Amount and the recalculated invoice Total Tax Amount did not match. This is now corrected.

> The recalculated invoice Total Gross Amount may not always match with the input line Gross Amount due to the calculation logic followed by Determination for Reverse From Tax calculations. This is a known fact that is already documented in the ONESOURCE Determination help.

System Security Updates - JAR files Removed (351515, 351516, 567812)

The vulnerabilities detected from the Software Composition Analysis (SCA) Veracode scan were addressed by removing the JAR files (Xalan and Batik-script) from the build.

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

Determination generated the correct tax amounts for the Brazil ICMS-FCEP-ST authority but the output XML showed incorrect exempt and non-taxable basis amounts when there was a reduced basis percent. This issue is resolved.

Addressed Typo in the EU OSS Messages (499247)

One of the EU One Stop Shop (OSS) messages for Non-Union OSS was missing a hyphen. This issue is resolved.

KNOWN ISSUES

The topics below describe the known issues in this release.

User Interface - Validation and Error Message for Password Reuse and Ageing (569887)

When an invalid value (any value other than 2 to 10) is entered in the PASSWORD_REUSE_RESTRICTED_ NUMBER_OF_TIMES parameter on the Configuration page, Determination does not currently display an error message to indicate that the password will not be accepted. This will be resolved in an upcoming release (an error message will display).

DETERMINATION 5.13.8.4 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.8.4 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.

Incorrect Tax Amounts when Output Rounding Is Not Used (935205)

For unrounded tax amounts (Output Rouding = False), invoices resulted an extra penny for fee components in a transaction. This issue was addressed in this release.

XML Invoice Servlet Unresponsive (975774)

The XML Invoice Servlet remained unresponsive for certain transactions and the tax calculation took longer than expected. This issue was addressed in this release.

Performance Improvements for Large Invoices (976931)

The tax engine performance for processing large invoices (more than 200 lines) in ONESOURCE Determination version 5.13.x.x was reported to be slower than the performance of similar invoices in ONESOURCE Determination version 5.11.x.x. The issue is resolved now. The performance of large invoices has significantly improved. Enterprise Security API (ESAPI) Jar was introduced and this restructured the logic. The result is that processing runs faster.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.8.2 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.8.2 includes addressed issues 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.

Pennsylvania Bracket Taxes Calculated at the Invoice Level (877124 and 877947)

The tax engine evaluated the bracket taxes in Pennsylvania at the line level rather than for the total invoice. As a result, a bracket fee was assigned to each line on the invoice. This issue is resolved. The bracket fee is now calculated for the taxable bracket portion of the total invoice.

Maryland Bracket Taxes Evaluated based on the Taxable Price of the Invoice (778425)

Maryland has two separate bracket fee schedules based on whether the taxable price of the invoice is less than $1.00 or $1.00 or more. The rule qualifier conditions to trigger the Maryland bracket fee schedules incorrectly looked at the bracket taxable basis of the invoice rather than the total taxable price. This issue is resolved. The system now triggers the appropriate bracket schedule after evaluating the taxable price of the invoice.

Doubling Taxable Basis for Multiple Bracket Authorities on an Invoice (897722)

The tax engine incorrectly doubled the taxable basis for transactions where multiple bracket authorities are applicable (for example, both Allegheny County and Pennsylvania are bracket authorities for transactions in Allegheny County, Pennsylvania). This issue is resolved. The taxable basis no longer doubles.

KNOWN ISSUES

The topics below describe known issues in this release.

Partial Exemptions for Bracket Fees (892348)

When an invoice has multiple lines where one or more lines have a partial exemption (for example, a portion such as 50 percent of the gross amount is exempt), Determination currently considers the entire gross amount in calculating the taxable basis. This issue will be addressed in an upcoming release.

Exempt and Non-Liable Amounts Trigger Incorrect Bracket Fee in Maryland (877977 and 893090)

When an invoice has multiple lines and the taxable lines total to less than a dollar, the BRMD60 bracket schedule must be triggered. If the invoice has other non-taxable gross amounts that total more than a dollar, the tax engine incorrectly triggers the BRMD6 bracket schedule. This issue will be addressed in an upcoming release.

Incorrect Tax Amounts for Bracket Authorities in Pennsylvania when Output Rounding Is Turned Off (908480)

When output rounding is turned off (Output Rounding = False) for transactions in the state of Pennsylvania, the tax engine adds 1 cent ($0.01) to the fee portion for bracket authorities (authorities that are eligible for a fee on the fractional portion of the invoice, namely, Pennsylvania, Allegheny County, and Philadelphia City). This issue will be addressed in an upcoming release.

As a workaround, turn on output rounding to calculate the correct tax amounts.

DETERMINATION 5.13.8.1 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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.

Prior to this release, Determination supported only OSS and IOSS. Union and Non-Union OSS were grouped under OSS. With this release, additional support within OSS was added to differentiate between Union and Non-Union OSS. To set up Union and Non-Union OSS types, select the applicable company from **Menu > System > Companies** then navigate to the **Tax Preferences** tab. Union and Non-Union OSS types are set up in the **European Union One-Stop Shop (OSS)** section.

> If you already set up OSS prior to this release, you must ensure that Non-Union OSS is also setup going forward. Otherwise, the tax engine cannot differentiate between Union OSS and Non-Union OSS transactions.

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 was 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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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 5.13.7.10 RELEASE NOTES

IMPORTANT ANNOUNCEMENT REGARDING ONESOURCE DETERMINATION ORIGINAL

After careful consideration, Thomson Reuters has made the strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original and focus our resources on developing and enhancing ONESOURCE Determination Enterprise. Support for ONESOURCE Determination Original will officially end on **June 30th, 2026**. After this date, we will discontinue updates, security patches, and technical assistance for ONESOURCE Determination Original. **(Please review the mainstream and extended support dates for the latest versions of Determination Original in the following page)**

Discover The Power of ONESOURCE Determination Enterprise

Now is a great time to consider and plan for a move to ONESOURCE Determination Enterprise. Released in 2017, ONESOURCE Determination Enterprise is now used by hundreds of customers around the world. Its cloud-based and cloud-enabled (on-premises hybrid) deliver superior capabilities and performance than on-premises solutions, alleviate the heavy manual management burden and costs businesses often have when maintaining tax in-house.

Resources Supporting Your Upgrade to ONESOURCE Determination Enterprise

We understand that a solution upgrade requires time to plan and prepare. This is why Thomson Reuters created a specific upgrade procedure to facilitate this transition and ensure a seamless experience for you. Using advanced migration tools and with the support of experienced Thomson Reuters technical consultants, our goal is to make upgrading to ONESOURCE Determination Enterprise a seamless transition.

For more information and to get started, we recommend the following steps:

1. Review the ONESOURCE Determination Upgrade Frequently Asked Questions document.

2. Contact your Thomson Reuters Account or Client Success Executive who will guide you through the upgrade procedure and address any initial questions or concerns.

3. Register for our upcoming customer webinar: Discovering the Power of ONESOURCE Determination Enterprise (August 2, 2023). You'll learn more about the solution, its features, new benefits you can expect, and more about upgrading.

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.7.10 includes addressed issues and introduces the features detailed below.

ADDRESSED ISSUES

The topics below describe the issues addressed in this release.

Ghana RC calculation Issue (1075741)

There was an issue reported for the import/export transaction involving authorities of Ghana. The rates for these transactions were getting correct results but the amounts were not matching with the document rounding enabled. This has been addressed as part of this release.

CALC Table Data Issue (1076602)

After upgrading to ONESOURCE Determination version 5.13.12.0, customers were unable to view any data in CALC table from the date of upgrade. This issue is addressed.

Versions affected by this issue include:

• **5.13.12.0**

• **5.13.11.0**

• **5.13.10.0**

• **5.13.7.1**

We recommend upgrading to ONESOURCE Determination version **5.13.12.3** or latest.

DETERMINATION 5.13.7.9 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.7.9 includes the addressed issues detailed below.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issue addressed in this release.

Italy Document Rounding Issue (938649 and 944259)

An issue was identified with rounding reverse charge transactions in Italy. The issue is resolved now. The rounding logic was enhanced for scenarios that trigger tax types with dual directions (where the direction input and output tax amounts offset each other in the tax result). Some examples of such tax types are reverse charge, import and acquisition.

When an invoice has only reverse charge tax type (or any other tax types that trigger input and output direction) lines:

1. The tax engine sums up the gross amounts (A) and multiples the applicable tax rate (B) to calculate the unrounded total tax amount for the invoice (C). This is expressed as:

   $C = A * B\%$

2. The tax engine then rounds it as per the rounding specification of the authority (D). This is expressed as:

   $D = C$ Rounded

3. The tax engine then totals all the rounded tax amounts at each line. This includes both input and output amounts (E).

4. The tax engine then compares D and E. Any penny difference between A and B is then adjusted to the line with the highest gross amount.

5. The penny adjustment is made to both input and output amounts so that the line input and output amounts offset each other, and the total input and output tax amounts of the invoice also offset each other.

When an invoice includes other tax types as well as reverse charge (or any other tax type (for example, import or acquisition) with direction input and output):

The tax engine uses the steps above to perform separate document rounding for the lines with a reverse charge tax type and the lines without a reverse charge tax type.

A template with examples highlighting this change is now available in the Currency Rounding "Penny Pinching" Algorithm in ONESOURCE Determination Tax Engine (Original and Cloud) article.

Unable to Assign User Roles in Determination (952088)

An issue was identified where the system failed to edit user roles and displayed the "Transaction Failure" error. This issue is resolved now. User roles can be edited successfully.

Unable to Create Role when APPLICATION_EVENT_HISTORY_TRACKING_ ENABLED Was Set to Y (952092)

An issue was identified with creating a role in an administration company when the APPLICATION_EVENT_ HISTORY_TRACKING_ENABLED configuration parameter was set to **Y**. This issue is resolved now.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.7.8 RELEASE NOTES

See for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.7.8 includes an addressed issue.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issue addressed in this release.

Incorrect Document Rounding for Italy (911749)

An issue was identified with transactions in Italy that have more than 1,000 lines in an invoice. A few of the lines after line 1,000 had incorrect document rounding. This issue is resolved now.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.7.7 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.7.7 includes an addressed issue.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issue addressed in this release.

Incorrect Document Rounding for Italy (837574)

An issue was identified with document rounding for Italy when more than 277 lines are passed in an invoice, which resulted in incorrect rounding for a few line items. This issue is resolved now.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.7.5 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.7.5 includes an addressed issue.

NEW FEATURES

There are no new features in this release.

ADDRESSED ISSUES

The topics below describe the issue addressed in this release.

U.S. Rounding Algorithm Not Applied Correctly to Workbench Tax Results and Output XML (616852)

For **Reverse from Tax** calculations, rounding was not applied correctly in the output XML, and the rounded TOTAL_TAX_AMOUNT displayed more than 10 decimal places. This issue is fixed now.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.7.4 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.7.4 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.

U.S. Rounding - Incorrect Penny Pitching for Reverse from Tax Calculations (581024)

For U.S. transactions with a **Reverse from Tax** calculation type, the tax engine was showing a penny difference between the input tax and the tax calculated. This issue is fixed now.

Italy Transactions Error Out Due to Decimal (581721)

Transactions for Italian authorities errored out when certain decimals were passed in the gross amount, which caused the system to throw a Null Pointer Exception. This issue is fixed now.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.7.3 RELEASE NOTES

See [Important Announcement Regarding ONESOURCE Determination Original (page 1)](#) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See [Content G Discontinuation and Support Timeline Update (page 3)](#) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.7.3 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.

Rounding Issues Involving Contributing Authorities (494510)

When custom authorities are part of the authority tax results, the rounded tax amount from these authorities were considered as the taxable basis for the dependent authority, which caused incorrect tax amount rounding results for forward calculation methods. This is now corrected. The unrounded tax amounts from a contributing authority is considered for evaluation of taxable basis before the resulting tax amounts are calculated and rounded.

Tax Amount Rounding Issues with Reverse From Tax Calculations (502764)

For a Reverse From Tax calculation method, the invoice already includes the line Gross Amount and the line Tax Amount, and Determination has to recalculate the invoice Total Gross Amount and Total Tax Amount based on those input elements. There was an issue where the input line Tax Amount and the recalculated invoice Total Tax Amount did not match. This is now corrected.

The recalculated invoice Total Gross Amount may not always match with the input line Gross Amount due to the calculation logic followed by Determination for Reverse From Tax calculations. This is a known fact that is already documented in the ONESOURCE Determination help.

Incorrect Document Rounding for Reverse Charge Transactions (351246)

The system incorrectly rounded reverse charge lines (either input or output tax block) when document rounding was enabled and a reverse charge line was included in a document along with other forward charge lines. After fixing the issue, the rounding differences occurring when document rounding is enabled are not adjusted from the reverse charge tax amount and are adjusted from the taxes of the other forward charge lines.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.7.2 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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 5.13.7.0 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

NEW FEATURES

The topics below describe features added with this release.

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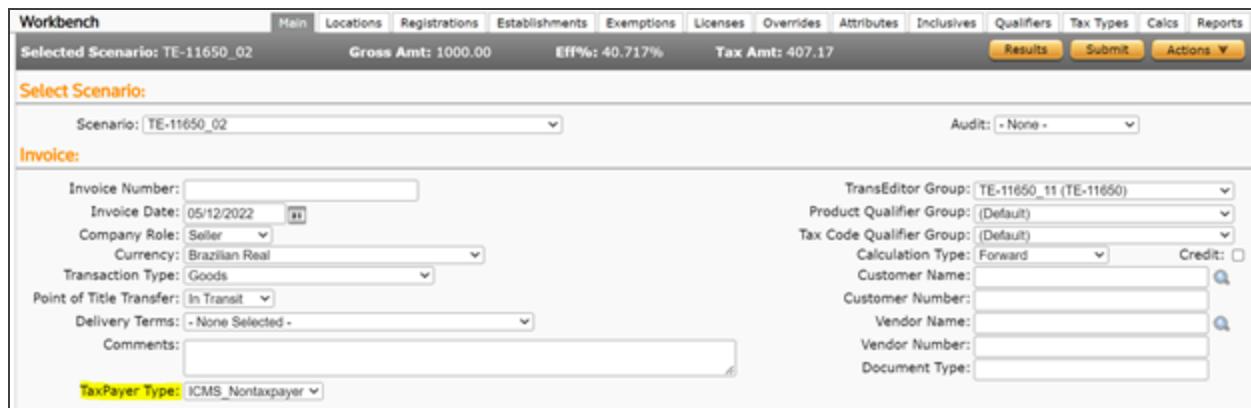
CUSTOMER_TAXPAYER element has also been added to request and response XMLs. This is an optional field and appears in request and response XMLs only if the value is provided.

```xml
<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>
```

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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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/FECP 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.

- 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.

- 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 FCEP 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 FCEP or FCEP-ST configured, it is considered in the taxable basis of ICMS-RD and ICMS-RD ST.

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 124) 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 5.13.4.5 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.4.5 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.

Incorrect Authority Type during Master Content Upload (763203)

During an upgrade or a new installation of ONESOURCE Determination, the **Authority Type** field for a few authorities is overridden with an incorrect value if Sabrix US Master Content is uploaded before Sabrix INTL Master Content. This issue is resolved. The **Authority Type** field is no longer impacted by the order of the Master Content upload.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.4.6 RELEASE NOTES

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

RELEASE HIGHLIGHTS

ONESOURCE Indirect Tax Determination version 5.13.4.6 includes addressed issues.

NEW FEATURES

There are no new features added with this release.

ADDRESSED ISSUES

The topic below describes the issue addressed in this release.

Change in Canada and U.S. Currency Rounding Algorithm (990146)

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 infrequent scenarios. For example, a single authority transaction within the following line resulted in an inconsistent <TOTAL_TAX_ AMOUNT>23.34</TOTAL_TAX_AMOUNT>:

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

The issue was fixed for both single 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 (990146)

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 a 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 ONESOURCE 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.

KNOWN ISSUES

There are no known issues in this release.

DETERMINATION 5.13.4.4 RELEASE NOTES

See for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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>ojdbc7.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

See [Important Announcement Regarding ONESOURCE Determination Original (page 1)](#) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See [Content G Discontinuation and Support Timeline Update (page 3)](#) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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>⬚</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>⬚</TAX>
        <TAX>⬚</TAX>
        <TAX>⬚</TAX>
        <TAX>⬚</TAX>
        <TAX>⬚</TAX>
        <TAX>⬚</TAX>
        <TRANSACTION_TYPE>GS</TRANSACTION_TYPE>
        <UNIT_OF_MEASURE>each</UNIT_OF_MEASURE>
        <QUANTITIES>⬚</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>⬚</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></MESSAGE>
                             <MESSAGE></MESSAGE>
                             <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>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>
<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>BRSG5: IPI applies to Ship To location.</JURISD
    <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>     </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>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>O</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>▭</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>▭</TAX>
<TAX>▭</TAX>
<TAX>▭</TAX>
<TAX>▭</TAX>
<TAX>▭</TAX>
<TAX>▭</TAX>
<TRANSACTION_TYPE>GS</TRANSACTION_TYPE>
<UNIT_OF_MEASURE>each</UNIT_OF_MEASURE>
<QUANTITIES>▭</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>▭</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 ine 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:

> ICMS ST Basis = ((Gross Amount + IPI Amount) + ((Gross Amount + IPI Amount) * % MVA)) * %ICMS ST Basis
>
> ICMS ST Amount = ((ICMS ST Basis * %ICMS ST Amount) - ((ICMS Basis * (%ICMS ST Amount x %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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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

See [Important Announcement Regarding ONESOURCE Determination Original (page 1)](#) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See [Content G Discontinuation and Support Timeline Update (page 3)](#) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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 + IVA authority rate) * (ShipFrom ICMS/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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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 179) 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 166) and Brazil Calculations - New Calculation Method to Exclude ICMS and Include IPI for Certain Transactions (TE-11057) (page 167) 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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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:

https://api.thomsonreuters.com/digital/onepass/onesource/registration/prod/authorize?productid=MKTTAX&api
key=lDHR3l3ARfKa1wdm3dAG1PkwzG14ZJV4&externallink=/s/article/EU-One-Stop-Shop-OSS

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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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

See Important Announcement Regarding ONESOURCE Determination Original (page 1) for important information regarding Thomson Reuters' strategic decision to discontinue our investment in the maintenance and support of ONESOURCE Determination Original.

See Content G Discontinuation and Support Timeline Update (page 3) for important information regarding the latest revisions to the ONESOURCE Determination Original support timelines.

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
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 NullPointer Exception. 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.