



CONFIGURATION GUIDE | PUBLIC

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SAP Tax Declaration Framework for Brazil - Configuration Guide

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1 Document History

The following table provides an overview of the most important document changes.

Version	Date	Description
1.0	2013-12-13	First Version
1.01	2014-05-30	General updates to guide's text. New tables were added to the <i>Tables Required in HANA to Activate the CTR</i> section.
1.02	2014-07-14	New tables were added to the <i>Tables Required in HANA to activate the CTR</i> section. Obsolete tables were excluded from the <i>Tables Required in HANA to Activate the CTR</i> section. A new subsection about reference notas fiscais was added to the <i>CTR Extensions</i> section.
2.0	2014-10-17	New tables were added to the <i>Tables Required in HANA to activate the CTR</i> section. Obsolete tables were excluded from the <i>Tables Required in HANA to Activate the CTR</i> section. A new subsection about SPED-related tables that are not properly populated was added to the <i>CTR Extensions</i> section. New information about the Initial Load report was added to the <i>Transactions for Configuration</i> section. A new section was created for the <i>Organizational Structure</i> feature.

Version	Date	Description
2.1	2015-02-13	<p>New subsection <i>Configuration of Observation Code for C190 Register</i> added to the <i>CTR Extensions</i> section.</p> <p>New tables were added to the <i>Tables Required in HANA to Activate the CTR</i> section.</p> <p>The <i>SPED EFD reports every linked document of a nota fiscal</i> subsection was excluded from the <i>CTR Extensions</i> section.</p> <p>The <i>Transactions for Configuration</i> section was deleted.</p> <p>The <i>Reports for Additional Functions</i> section was created.</p>

Version	Date	Description
3.0	2015-08-24	<p>The <code>ITMF_CONTRIB_AUT_DET</code> report was added to the <i>Reports for Additional Functions</i> section.</p> <p>The text of the <i>Organizational Structure</i> section suffered minor changes.</p> <p>The section <i>Run SPED EFD ICMS/IPI Report</i> was added.</p> <p>The section <i>Run SPED EFD-Contribuições Report</i> was added. The section <i>Run SPED ECF Report</i> was added.</p> <p>Two new tables were added to the <i>CTR Data Structures</i> section.</p> <p>The <i>ER Modeling</i> subsection, under the <i>CTR Data Structures</i> section, was deleted.</p> <p>The <i>Tables Required in HANA to Activate the CTR</i> section was completely remodeled; it now refers to the SAP Note that contains the HANA tables.</p> <p>In the <i>CTR Extensions</i> section, the <code>/TMF/D_PROFI_REG</code> table was deleted and the <code>/TMF/D_REG_PROFI</code> and <code>/TMF/D_REG_PRIO</code> tables were added.</p> <p>The <code>/TMF/INITIAL_LOAD</code> report information was added to the <i>Reports for Additional Functions</i> section.</p>
3.1	2015-12-11	<p>The section <i>Multi-Temperature Data Management</i> was added.</p> <p>The section <i>Run SPED ECD Report</i> was added.</p>
3.2	2016-04-04	<p>The section <i>Customer Extension</i> was added.</p> <p>The section <i>Roles and Authorizations for SAP TDF</i> was added.</p>

Version	Date	Description
3.3	2016-08-08	<p>The text of the <i>Multiple Systems Configuration</i> section suffered minor changes.</p> <p>The section <i>Migration to TDF System</i> was added.</p> <p>Three tables were removed from the <i>CTR Data Structures</i> section. They were obsolete.</p> <p>Five tables were added to the <i>CTR Data Structures</i> section.</p>
3.4	2016-12-12	<p>The text of the <i>Run SPED EFD ICMS/IPI Report</i> section suffered minor changes.</p>
3.5	2017-03-27	<p>The <i>Central Tax Repository</i> and the <i>Customer Extension</i> sections were removed from the Configuration guide and added to the Developers' guide.</p>
4.0	2017-09-25	<p>The <i>About This Guide</i> section was added and the Configuration guide was restructured into different sections: <i>SPED Reports</i>, <i>Generating Documentation in HANA Studio</i> and <i>Multi-Temperature Data Management</i>.</p> <p>The <i>Configuration of Mandatory Blocks</i> section was created under the <i>Pre-execution Steps for SPED Reports</i> section.</p> <p>The <i>Run EFD-Reinf Report</i> subsection was added to the <i>Execution Steps for SPED Reports</i> section.</p> <p>The <i>Customizing TDF in the Fiori Launchpad</i> section was added.</p> <p>The <i>Master Data Migration</i> subsection was added to <i>Run EFD ICMS IPI Report</i> and <i>Run EFD Contribuições Report</i> sections.</p> <p>The <i>Migration to TDF System</i> section was removed.</p> <p>Information about Preprocessing reports (<code>/TMF/EFD_PRE_0175</code> and <code>/TMF/EFD_PRE_0205</code>) was removed. These reports are obsolete.</p>

Version	Date	Description
4.1	2018-03-12	<p>Three new steps were added to the <i>Run EFD-Reinf Report</i> subsection.</p> <p>The <i>Messaging Framework</i> section and the following subsections were added: <i>Roles and Authorizations for TDF Messaging Framework</i>, <i>Communicating with Government Webservices</i>, <i>Import Digital Certificate to Event's Signature</i>, <i>Configure SOAMANAGER for Government Communication</i> and <i>Create Logical Port for Government Communication</i>.</p>

2 About This Guide

This guide is the central source of configuration information for SAP Tax Declaration Framework for Brazil 1.0.

You find information about the pre-execution and execution steps for SPED reports, authorizations and settings for Messaging Framework communication with the government webservice, Multi-Temperature Data Management, how to generate documentation in HANA studio and how to customize TDF in the Fiori Launchpad.

3 SPED Reports

Contains the steps you must follow before executing and the steps to execute the SPED reports.

3.1 Pre-execution Steps for SPED Reports

3.1.1 Roles and Authorizations for SAP TDF

For information about the TDF roles and the authorizations objects, see the documentation below.

TDF Roles

For more information, see SAP Library for TDF on SAP Help Portal at http://help.sap.com/tdf_br
▶ *Application Help* ▶ *English* ▶ *TDF Roles* ▶.

Authorization Objects

For more information, see SAP Library for TDF on SAP Help Portal at http://help.sap.com/tdf_br
▶ *Application Help* ▶ *English* ▶ *Authorization Checks for SAP TDF* ▶.

3.1.2 Multiple Systems Configuration

Use

When there is data coming to TDF from different systems, it is necessary to configure the `/TMF/D_SYS_INF` table.

You must maintain this table for each company code, business place, and client replicated via SAP Landscape Transformation (SLT).

In this table you must consider the following information:

- The destination (created in SM59 transaction) that will be used in the communication between TDF and ERP (in case of correction services, for example).
- The company code and the business place are configured in ERP, according to its respective TDF client value.

❖ Example

Considering that the CC01 company code and the 0001 business place are part of the 105 client in ERP. The TDF Multiple Systems Configuration must be configured as CC01 in the *Company Code* field, 0001 in the *Business Place* field and 105 as the *TDF client*.

Besides, this customizing table also has a field to indicate if the system is an SAP system or not, but it is only for information (with no influence in the system's behavior).

If there is data from different systems that have the same client (for example, System 1, client 200; and System 2, client 200), the SLT replicates the data with different client codes on the TDF side, using an N:1 replication. For example, the data from System 2 can be changed from client 200 to client 300. In those cases, you have to take the following actions:

- Map this change on the `/TMF/D_SYS_INF` table.
- Make an entry with *Orig. Sys Client* as 200 and *TDF client* as 300, based on the example above, for each company code and business place replicated.





By doing this, the *Client* field works as a map of the source system.

i Note

The master data and cross-client data must be unique between both systems. For example, a material with code MAT1 in System 1 must be the same MAT1 in System 2.

You can only use *Tax Declaration Framework* in one productive client. For example, if you install *TDF* in system XXX, client 100, you cannot create a client 101 because the *TDF* data is cross-client and there is no client isolation implemented in the *TDF* HANA views.

More Information

For more information, see the Installation Guide for Trigger-Based Data Replication Using SAP LT Replication Server for SAP HANA on SAP Help Portal at <http://help.sap.com>  [SAP In-Memory Computing](#)  [SAP HANA Platform](#)  [Installation and Upgrade Information](#) .

3.1.3 Define Logical Path

When you run the SPED reports, you can choose to run it in the official mode or in the draft mode. If you choose to run it in the official mode, the generated file is saved in the Tax Obligation Monitor (TOM) tables. If you choose to run it in the draft mode, the generated file is saved in the application server, in .txt format.

To save files generated during draft mode executions in the application server, you define a logical path.

To define a logical path, follow the steps below:

1. Execute the `FILE` transaction.
2. Mark an existing file name, or choose [New Entries](#) to enter a path name. The name should reflect its function.
3. Under [Logical File Path Definition](#), choose [Assignment of Physical Paths to Logical Path](#).

i Note

When assigning path names, the symbol `<FILENAME>` must appear at the end. This symbol is replaced at runtime by the physical file (or path) name.

4. In the [Physical path](#) field, assign a physical path to the logical path.
5. Choose [Logical File Name Definition](#) to define a name to your logical file. Enter the logical path you have created as the logical file name.
6. Save your entries.

After creating the logical destination, you enter this information in the `/TMF/D_TOM_JOB_S` table. For more information, see Customizing for [Accounting](#) under [Tax Declaration Framework for Brazil](#) > [Reporting](#) > [Define Parameters for SPED Jobs Execution](#) >.

3.1.4 Configuration of Mandatory Blocks

For mandatory blocks, such as Block 0, the Delivery Class for the development is C: customer table - you must maintain the data manually. In this section, you find more information about how to configure the mandatory blocks.

Delivery Class

The **C** delivery class is the development class that affects the SPED mandatory blocks. The data from customer tables are only maintained by the customers.

To maintain the table data, TDF recommends you to get the information from [mandt 000](#) for [client 000](#).

Tables with data from mandt 000

Find below the tables with data from [mandt 000](#):

Customizing	View
Maintain Master Data of Legal Reports	<code>/TMF/D_REP_FISC</code>

Customizing	View
<i>Maintain General Information for SPED Reports</i>	/TMF/D_REP_CUST
<i>Maintain Legal Reports and Versions</i>	/TMF/D_REP_VERS
<i>Map SPED Register to Profile</i>	/TMF/RD_TABFRBEX
<i>Map View Version to Legal Report Version</i>	/TMF/D_REG_PROFI
<i>Define Parameters for SPED Jobs Execution</i>	/TMF/D_VIEW_VERS
<i>Define Auditor Data</i>	/TMF/D_TOM_JOB_S

3.2 Execution Steps for SPED Reports

3.2.1 Run EFD ICMS IPI Report

To run the EFD ICMS IPI report, you execute the actions below:

ERP System

1. Activate the LOG_TMF_INT_1 business function using the SFW5 transaction.
2. Run the ITMF_REPDAT_FILL report .
For more information, see [Reports for Additional Functions \[page 21\]](#).

Master Data Migration

When you start using TDF system, you have to report the changes that you have made in the material descriptions and partner information in the EFD ICMS IPI report.

To get master data information related to the 0205 and 0175 registers from EFD ICMS IPI report, you must execute the TDF: Rectification Migration Report (ITMF_RECT_MIGRATION).

This report gets information from the Master Data History for TDF (ITMF_D_MD_HIST) table, which replaces the Change document header (CDHDR) and Change document items (CDPOS) tables from ERP.

TDF System

1. Perform the system configurations described in [Multiple Systems Configuration \[page 9\]](#).
2. Assign SAP System Aliases to OData Service as described in the Administrators' Guide at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Additional Information > Administrator's Guide**.
3. Configure the Organizational Structure.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Declaration Services > Maintain Organizational Structures**.
4. Configure the fiscal period.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Declaration Services > Fiscal Period Maintenance**.
5. Populate SPED-related tables.
For more information, see the *CTR Extensions* documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Developer's Guide > CTR Extensions**.
6. Define the logical path.
For more information, see [Define Logical Path \[page 10\]](#).
7. Assign all the authorizations.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Authorization Checks for SAP TDF**.
8. Deactivate the /UI5/UI5_INFRA_APP/REP_DT_PUT virus scan profile, so that you are able to upload files to Tax Obligation Monitor in UI5.
For more information, see Customizing for *SAP NetWeaver* under **Gateway > OData Channel > Administration > General Settings > Define Virus Scan Profiles**.
9. Execute the SPED EFD report using the transaction code /TMF/EFD.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Reporting > EFD ICMS IPI - Background Information**.
10. Check in the Tax Obligation Monitor if the entry for the SPED EFD run was generated.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil 1.0 > Application Help > Declaration Services > Tax Obligation Monitor**.

Optional Activities in TDF System

- Create exclusion profiles to exclude SPED registers from EFD report execution.
You create these profiles in Customizing for *Accounting* under **Tax Declaration Framework for Brazil > Reporting > SPED EFD > Create Exclusion Profile**.
- Specify which registers the system excludes from EFD report execution, according to the exclusion profile.
You specify these registers in Customizing for *Accounting* under **Tax Declaration Framework for Brazil > Reporting > SPED EFD > Specify Exclusion Profile Registers**.

- Define observation codes for SPED EFD report.
You define observation codes in Customizing for *Accounting* under [Tax Declaration Framework for Brazil](#) [Reporting](#) [EFD ICMS IPI](#) [Define Observation Code](#).
- Map the observation codes to fiscal documents of SPED EFD report.
You map observation codes in Customizing for *Accounting* under [Tax Declaration Framework for Brazil](#) [Reporting](#) [EFD ICMS IPI](#) [Map Observation Code to Fiscal Document](#).
- Define additional information codes for SPED EFD report.
You define these information codes in Customizing for *Accounting* under [Tax Declaration Framework for Brazil](#) [Reporting](#) [EFD ICMS IPI](#) [Define Additional Information Code](#).
- Define the item types and the debit or credit G/L account of the SPED report.
You define item types and G/L accounts in Customizing for *Accounting* under [Tax Declaration Framework for Brazil](#) [Reporting](#) [EFD ICMS IPI](#) [Define Types of Products and Services for EFD](#).

3.2.2 Run EFD Contribuições Report

To run the EFD Contribuições report, you execute the actions below:

ERP System

1. Activate the LOG_TMF_INT_1 business function using the SEW5 transaction.
2. Run the ITMF_REPDAT_FILL report. For more information, see [Reports for Additional Functions \[page 21\]](#).
3. Define the relevant CFOP for the EFD Contribuições in Customizing for *Financial Accounting (New)* under [General Ledger Accounting \(New\)](#) [Periodic Processing](#) [Report](#) [Statutory Reporting: Brazil](#) [SPED Reporting](#) [EFD Contributions](#) [Maintain CFOP for EFD-Contributions](#) (view J_1BPIS_V_CFOP).

i Note

If you have more than one company code, you must define the CFOP that is relevant for the EFD Contribuições by company code. You do that in Customizing for *Financial Accounting (New)* under [General Ledger Accounting \(New\)](#) [Periodic Processing](#) [Report](#) [Statutory Reporting: Brazil](#) [SPED Reporting](#) [EFD Contributions](#) [Maintain CFOP by Company Code for EFD-Contributions](#) (view J_1BPIS_V_CFOP2).

4. Define relevance of credit for COFINS in Customizing for *Cross-Application Components* under [General Application Functions](#) [Tax Declaration Framework \(Brazil\)](#) [SPED EFD-Contribuições](#) [Define Credit Relevance for COFINS](#) (view ITMF_COF_RELEV_V).
5. Define relevance of credit for PIS in Customizing for *Cross-Application Components* under [General Application Functions](#) [Tax Declaration Framework \(Brazil\)](#) [SPED EFD-Contribuições](#) [Define Credit Relevance for PIS](#) (view ITMF_PIS_RELEV_V).
6. Run the *Automatic Determination for SPED EFD-Contribuições* report (transaction ITMF_CONTRIB_DET) to update SPED Contribuições fields, according to customized rules or BAdI implementation.

Master Data Migration

When you start using TDF system, you have to report the changes that you have made in the material descriptions and partner information in the EFD Contribuições report.

To get master data information related to the 0205 register from EFD Contribuições report, you must execute the TDF: Rectification Migration Report (ITMF_RECT_MIGRATION).

This report gets information from the Master Data History for TDF (ITMF_D_MD_HIST) table, which replaces the Change document header (CDHDR) and Change document items (CDPOS) tables from ERP.

Optional Activities in ERP System

- If the standard rules defined in the *Automatic Determination for SPED EFD-Contribuições* report do not fulfill your business requirements, you can implement the *Determine NF Fields* (BADI_ITMF_NF_FIELDS_DET) BAdI to determine new nota fiscal fields relevant to SPED EFD-Contribuições.
You find this BAdI in Customizing for *Cross-Application Components* under ► *General Application Functions* ► *Tax Declaration Framework (Brazil)* ► *SPED EFD-Contribuições* ► *Business Add-Ins (BAdIs)* ► *Determine NF Fields* ►.

TDF System

1. Perform the system configurations described in [Multiple Systems Configuration \[page 9\]](#).
2. Assign SAP System Aliases to OData Service as described in the Administrators' Guide at http://help.sap.com/tdf_br, under ► *SAP Tax Declaration Framework for Brazil 1.0* ► *System Administration and Maintenance Information* ► *English* ► *Administrators' Guide* ►.
3. Configure the Organizational Structure.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under ► *SAP Tax Declaration Framework for Brazil 1.0* ► *Application Help* ► *English* ► *Declaration Services* ► *Maintain Organizational Structures* ►.
4. Configure the fiscal period.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under ► *SAP Tax Declaration Framework for Brazil 1.0* ► *Application Help* ► *Declaration Services* ► *Fiscal Period Maintenance* ►.
5. Populate SPED-related tables.
For more information, see the *CTR Extensions* documentation at http://help.sap.com/tdf_br, under ► *SAP Tax Declaration Framework for Brazil 1.0* ► *Developer's Guide* ► *CTR Extensions* ►.
6. Define the logical path.
For more information, see [Define Logical Path \[page 10\]](#).
7. Assign all required authorizations.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under ► *SAP Tax Declaration Framework for Brazil 1.0* ► *Application Help* ► *Authorization Checks for SAP TDF* ►.

8. Deactivate the /UI5/UI5_INFRA_APP/REP_DT_PUT virus scan profile, so that you are able to upload files to Tax Obligation Monitor in UI5.
For more information, see Customizing for *SAP NetWeaver* under [Gateway > OData Channel > Administration > General Settings > Define Virus Scan Profiles](#).
9. Execute the EFD Contribuições report (transaction/TMF/PCO) under [Accounting > Tax Declaration Framework for Brazil > Reporting > Execute SPED EFD-Contribuições](#).
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under [SAP Tax Declaration Framework for Brazil 1.0 > Application Help > English > Reporting > Executing the EFD Contribuições Report](#).
10. Check in the Tax Obligation Monitor if the entry for the EFD Contribuições run was generated.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under [SAP Tax Declaration Framework for Brazil 1.0 > Application Help > Declaration Services > Tax Obligation Monitor](#).

Mandatory Activities in TDF System

- Create exclusion profiles to exclude SPED registers from EFD report execution.
You create these profiles in Customizing for Accounting under [Tax Declaration Framework for Brazil > Reporting > EFD ICMS IPI > Create Exclusion Profile](#).
- Specify which registers the system excludes from EFD report execution, according to the exclusion profile.
You specify these registers in Customizing for Accounting under [Tax Declaration Framework for Brazil > Reporting > EFD ICMS IPI > Specify Exclusion Profile Registers](#).
- Define additional information codes for SPED EFD report.
You define these information codes in *Define Additional Information Code* under [Accounting > Tax Declaration Framework for Brazil > Reporting > General Settings for SPED EFD](#).
- Define the item types and the debit or credit G/L account of the SPED report.
You define item types and G/L accounts in *Define Types of Products and Services for EFD* under [Accounting > Tax Declaration Framework for Brazil > Reporting > General Settings for SPED EFD](#).

3.2.3 Run EFD-Reinf Report

This section explain the activities you need to execute before running the EFD-Reinf report.

Context

To run the EFD-Reinf report, you execute the actions below:

i Note

You must have activated the following Business Function: LOG_TMF_INT_1_1.

TDF System

Procedure

1. Configure the Organizational Structure.

For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under [▶ SAP Tax Declaration Framework for Brazil ▶ Application Help ▶ Declaration Services ▶ Maintain Organizational Structures ▶](#).

2. Configure the fiscal period.

For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under [▶ SAP Tax Declaration Framework for Brazil ▶ Application Help ▶ Declaration Services ▶ Fiscal Period Maintenance ▶](#).

3. Assign all the authorizations.

For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under [▶ SAP Tax Declaration Framework for Brazil ▶ Application Help ▶ Authorization Checks for SAP TDF ▶](#).

4. Execute the EFD-Reinf Preprocessing report using the transaction code /TMF/REINF_PRE_PROC.

For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under [▶ SAP Tax Declaration Framework for Brazil ▶ Application Help ▶ Reporting ▶ EFD-Reinf Preprocessing Report ▶](#).

5. Execute the Generate Taxpayer Information Events report using the transaction code /TMF/REINF_TABCONTR.

For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under [▶ SAP Tax Declaration Framework for Brazil ▶ Application Help ▶ Reporting ▶ Generate Taxpayer Information Events ▶](#).

6. If you have a lawsuit or administrative procedure, execute the Generate Administrative/Legal Proceedings Information Events report using the transaction code /TMF/REINF_TABPROC. If not, skip this step and execute step 7.

For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under [▶ SAP Tax Declaration Framework for Brazil ▶ Application Help ▶ Reporting ▶ Generate Administrative/Legal Proceedings Information Events ▶](#).

7. Execute the EFD-Reinf report using the transaction code /TMF/REINF.

For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under [▶ SAP Tax Declaration Framework for Brazil ▶ Application Help ▶ Reporting ▶ EFD-Reinf - Background Information ▶](#).

8. Check in the Messaging Framework if the entry for the EFD-Reinf run was generated.

For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under [▶ SAP Tax Declaration Framework for Brazil 1.0 ▶ Application Help ▶ Messaging Framework ▶](#).

3.2.4 Run ECF Report

To run the ECF report, you execute the actions below:

ERP System

1. Define the CNAE code in Customizing for *Cross-Application Components* under ► *General Application Functions* ► *Nota fiscal* ► *Fiscal Classification Data* ► *Define CNAE* ►.
2. Define the legal nature of the company in Customizing for *Cross-Application Components* under ► *General Application Functions* ► *Nota fiscal* ► *Fiscal Classification Data* ► *Define Legal Nature* ►.
3. Update the CNAE and the legal nature information for all company's branches.

TDF System

i Note

If you have TDF SPO4 installed, the steps four, five, and six below are not necessary.

1. Check the *Prework* checkbox for the TMFLOCBR software component in the SM30 transaction, SNHI_DUP_PREWORK view.
2. Assign SAP System Aliases to OData Service as described in the Administrators' Guide at http://help.sap.com/tdf_br, under ► *SAP Tax Declaration Framework for Brazil* ► *Additional Information* ► *Administrator's Guide* ►.
3. Deactivate the /UI5/UI5_INFRA_APP/REP_DT_PUT virus scan profile, so that you are able to upload files to Tax Obligation Monitor in UI5.
For more information, see Customizing for *SAP NetWeaver* under ► *Gateway* ► *OData Channel* ► *Administration* ► *General Settings* ► *Define Virus Scan Profiles* ►.
4. Define the characteristics of the ECF report in Customizing for *Accounting* under ► *Tax Declaration Framework for Brazil* ► *Reporting* ► *Maintain Master Data of Legal Reports* ►.
5. Map the HANA view version to its corresponding SPED report layout version in Customizing for *Accounting* under ► *Tax Declaration Framework for Brazil* ► *Reporting* ► *Map View Version to Legal Report Version* ►.
6. Define what legal report version applies to the report you are submitting and what the validity date of this version is. You do this in Customizing for *Accounting* under ► *Tax Declaration Framework for Brazil* ► *Reporting* ► *Maintain Legal Reports and Versions* ►.
7. Define the search parameters to obtain fiscal data from external systems in Customizing for *Accounting* under ► *Tax Declaration Framework for Brazil* ► *General Settings* ► *Maintain External Systems Mapping* ►.
8. Define how the system processes the ECF jobs in Customizing for *Accounting* under ► *Tax Declaration Framework for Brazil* ► *Reporting* ► *Define Parameters for SPED Jobs Execution* ►.
9. Execute the /TMF/INITIAL_LOAD program to fill in the /TMF/D_ESTABELEC, /TMF/D_CNPJ, /TMF/D_CNPJ_ROOT, and /TMF/D_IE tables.

10. Make sure that all the ICF services below (which are related to ECF report) are activated by using the `SIFC` transaction, to be able to access web pages:
 - `/default_host/sap/bc/ui5_ui5/tmf/ecf`
 - `/default_host/sap/bc/ui5_ui5/tmf/rtfupload`
 - `/default_host/sap/bc/bsp/tmf/ecf`
 - `/default_host/sap/bc/bsp/tmf/tom01`
 - `/default_host/sap/opu/odata/tmf/ecf_srv`
 - `/default_host/sap/opu/odata/tmf/rtf_upload_srv`
 - `/default_host/sap/opu/odata/tmf/tm_tmf_tom01`
 - `/default_host/sap/opu/odata/tmf/tom_api_srv`
11. Configure additional ECF data in the *SAP Easy Access* screen under **Accounting > Tax Declaration Framework for Brazil > Declaration Services > Maintain Organizational Structures**.
12. Create an Excel file to fill in the ECF registers covered by this feature. You do that in the *SAP Easy Access* screen under **Accounting > Tax Declaration Framework for Brazil > Data Integration > Generate File with SPED Registers Data**.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Data Integration > Generate File with SPED Registers Data**.
13. Upload the Excel file you have created. You do that in the *SAP Easy Access* screen under **Accounting > Tax Declaration Framework for Brazil > Data Integration > Upload File with SPED Registers Data**.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Data Integration > Upload File with SPED Registers Data**.
14. Execute the ECF report using the `/TMF/ECF` transaction or in the *SAP Easy Access* screen under **Accounting > Tax Declaration Framework for Brazil > Reporting > SPED ECF**.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Reporting > ECF - Background Information**.
15. Check in the Tax Obligation Monitor if the entry for the ECF run was generated.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil 1.0 > Application Help > Declaration Services > Tax Obligation Monitor**.

3.2.5 Run ECD Report

To run the ECD report, you execute the actions below:

TDF System

1. Perform the system configurations described in [Multiple Systems Configuration \[page 9\]](#)

2. Assign SAP System Aliases to OData Service as described in the Administrators' Guide at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Additional Information > Administrator's Guide**.
3. Configure the Organizational Structure.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Declaration Services > Maintain Organizational Structures**.
4. Configure the fiscal period.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Declaration Services > Fiscal Period Maintenance**.
5. Check the characteristics of the ECD report in Customizing for *Accounting* under **Tax Declaration Framework for Brazil > Reporting > Maintain Master Data of Legal Reports**.
6. Verify the HANA view version to its corresponding SPED report layout version in Customizing for *Accounting* under **Tax Declaration Framework for Brazil > Reporting > Map View Version to Legal Report Version**.
7. Specify what legal report version applies to the report you are submitting and what the validity date of this version is. You do this in Customizing for *Accounting* under **Tax Declaration Framework for Brazil > Reporting > Maintain Legal Reports and Versions**.
8. Define how the system processes the ECD jobs in Customizing for *Accounting* under **Tax Declaration Framework for Brazil > Reporting > Define Parameters for SPED Jobs Execution**.
9. Populate SPED-related tables
For more information, see the *CTR Extensions* documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Developer's Guide > CTR Extensions**.
10. Define the logical path.
For more information, see [Define Logical Path \[page 10\]](#).
11. Assign all the authorizations.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Authorization Checks for SAP TDF**.
12. Deactivate the /UI5/UI5_INFRA_APP/REP_DT_PUT virus scan profile, so that you are able to upload files to Tax Obligation Monitor in UI5.
For more information, see Customizing for *SAP NetWeaver* under **Gateway > OData Channell > Administration > General Settings > Define Virus Scan Profiles**.
13. Execute the ECD report using the /TME/ECD transaction code.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Reporting > ECD - Background Information**.
14. Check in the Tax Obligation Monitor if the entry for the ECD run was generated.
For more information, see the Application Help documentation at http://help.sap.com/tdf_br, under **SAP Tax Declaration Framework for Brazil > Application Help > Declaration Services > Tax Obligation Monitor**.

3.3 Reports for Additional Functions

The following reports are used for the configuration of SAP TDF. Since these reports are only executed for specific situations and are not part of the users daily routine, they are not included in the [SAP Easy Access](#) screen. Thus, you execute the reports using the SE38 transaction.

SAP TDF Reports

Report	Description
/TMF/TOM_DELETE_RUN	You use this report to delete a report run that has been saved in the Tax Obligation Monitor.
/TMF/TOM_DELETE_FILE	You use this report to delete a report file that has been generated by a report run and has been saved in the Tax Obligation Monitor.
/TMF/TOM_DRAFT_CLEANUP	<p>You use this report to delete draft files generated by SPED. This report will cleanup draft files from the server.</p> <p>To run the report, you choose the SPED report for which you want to delete draft files and you choose for how long the system keeps these files. After the selected period, the files are deleted.</p>
/TMF/UTIL_SPED_XSD_XML_GEN	<p>The Mass Load to Shadow and Complementary Tables web service uses XSD and XML files to insert or update information into shadow or complementary tables of SAP TDF.</p> <p>You use this report to generate XSD of tables and XML files templates.</p>
/TMF/ORGSTR_MIGRATION	<p>You use this report to migrate data from the Organizational Structure.</p> <p>This report migrates the information from the table /TMF/D_ESTABELEC, which has some obsolete fields, to the tables /TMF/D_CNPJ and /TMF/D_IE.</p> <p>You execute this report only once and only if the system has data in the organizational structure.</p>

Report	Description
/TMF/EFD_PRE_0175	<p>i Note</p> <p>This report is obsolete. From SP10 on, this report is no longer supported by TDF.</p> <p>You use this report to improve the performance of the SPED EFD execution.</p> <p>You run this pre-processing report in the beginning of the month to get the data changes, from the previous month, in the 0175 register.</p> <p>Note that you only run this report one time per period.</p>
/TMF/EFD_PRE_0205	<p>i Note</p> <p>This report is obsolete. From SP10 on, this report is no longer supported by TDF.</p> <p>You use this report to improve the performance of the SPED EFD execution.</p> <p>You run this pre-processing report in the beginning of the month to get the data changes, from the previous month, in the 0205 register.</p> <p>Note that you only run this report one time per period.</p>
/TMF/INITIAL_LOAD	<p>You run this report to load the structures and data of your company from the ERP system to the <i>Maintain Organizational Structures</i> report in the TDF system.</p>

ERP Reports

Report	Description
ITMF_REPDAT_FILL	<p>You use this report to make your legacy notas fiscais compliant with the SAP TDF CTR.</p> <p>The report fills in the reporting date of legacy notas fiscais with the departure date (DSAIENT) of the nota fiscal.</p> <p>If the departure date of the nota fiscal is not filled in, the report fills in the reporting date with the posting date of the nota fiscal.</p>
ITMF_CONTRIB_AUT_DET	<p>You use this report to fill in relevant information for SPED EFD-Contribuições in the ERP system.</p>

4 Messaging Framework

Contains the steps you must follow before sending events from eSocial, EFD-Reinf and e-Financeira to the government.

4.1 Roles and Authorizations for TDF Messaging Framework

For information about the TDF roles and the authorizations objects, see the documentation below.

Authorization Objects

For more information, see SAP Library for TDF on SAP Help Portal at http://help.sap.com/tdf_br

▶ *Application Help* ▶ *English* ▶ *Authorization for Messaging Framework* ▶

Messaging Framework Roles

For more information, see SAP Library for TDF on SAP Help Portal at http://help.sap.com/tdf_br

▶ *Application Help* ▶ *English* ▶ *Messaging Framework Roles* ▶

4.2 Communicating with Government Webservices

Contains the steps you must follow to communicate with the webservices from the government via PI or SOAMANAGER, to be able to send eSocial, EFD-Reinf and e-Financeira events.

4.2.1 Import Digital Certificate to Events' Signature

When you are implementing the PI or SOAMANAGER scenario, you have to import certificates to sign the XML of the events.

Generate PSE File

To import your digital certificate, you must generate the PSE file with full chain by following the steps below:

1. Use the `SAPGENPSE` tool on the prompt command from the existing private certificate, as described in the SAP Note [662340](#).

i Note

If an error occurs due to a missing `.pfx` file in the certificate chain, you can complete the chain by adding `-r` to the certificate chain. See the following example: `sapgenpse import_p12 -r SerasaACPv2.cer -r ICPBrasilv2.cer -p <path>file.pse bras.pfx`.

2. Inform the full path to create the PSE file.
3. If asked for a PSE PIN, enter a PIN value or choose *Return*.

Create SSF Application

To create a SSF application, follow the steps below:

1. Access the `SE16` transaction.
2. Insert new entries in the `SSFAPPLIC` table with the following fields and their values:
 - `APPLIC`: Enter the name of your application.
 - `B_TOOLKIT`: Enter X as value.
 - `B_FORMAT`: Enter X as value.
 - `B_PAB`: Enter X as value.
 - `B_PROFID`: Enter X as value.
 - `B_PROFILE`: Enter X as value.
 - `B_HASHALG`: Enter X as value.
 - `B_ENCRALG`: Enter X as value.
 - `B_INCCERTS`: Enter X as value.

- B_DETACHED: Enter X as value.
- B_ASKPWD: Leave the field blank.
- B_DISTIB: Enter X as value.
- DESCRIPT: Enter the description of the SSF-application.

Set Parameters to SSF Application

To set the parameters for SSF application, proceed as follows:

1. Enter **SHA256** in the *Hash Algorithm* field.
2. Check if the remaining fields are filled in with the default values.
3. Save the record.

Import Digital Certificate to Trust Manager

1. Access the STRUST transaction.
2. Double click on *File*.
3. Select the PSE file you have created previously.
4. Choose *Open*.
5. Select PSE to associate your certificate to the SSF Application you have informed previously.
6. Select *OK* to save the data.

More Information

You find more information about how to configure PI as government communication channel and the service consumers for SOAMANAGER configuration in SAP Help Portal at http://help.sap.com/tdf_br_10 under

► *Application Help* ► *Messaging Framework* ►:

- *Configuration of SAP PI*
- *Configuration of SOAMANAGER*

4.2.2 Configure SOAMANAGER for Government Communication

You can use SOAMANAGER as a communication channel between TDF Messaging Framework solution and the government.

Import Digital Certificate for Communication

To communicate with government via SOAMANAGER, import the certificate as described below:

1. Access the `STRUST` transaction.
2. Choose *Environment* and then *SSL Client Identities* to create a SSL client.
3. Double click on *File*.
4. Select the PSE file you have created previously.
5. Choose *Open*.
6. Select PSE to associate your certificate to the SSF Application you have informed previously.
7. Select *OK* to save the data.

Add Government Public Certificates to PSE File

You can download the certificates by accessing the government web services through a web browser. Web browsers like Google Chrome and Firefox have the feature to obtain the certificate. Proceed as below:

1. Select the certificate and choose *Import*.
2. Select the certificate file by entering the file path.
3. Choose *Confirm*.
4. Choose *Add to Certificate List*.
5. Make sure that the certificate you have imported is under the *Certificate List*.
6. Save your changes.

Test the Communication with the Government

You can test if your certificate has been imported correctly.

To test the communication, follow the steps below:

1. Access the `SM59` transaction.
2. Create a RFC type G by entering the name of your RFC destination and its description.
3. Go to the *Technical Settings* tab page.
4. Fill in the following fields under the *Target System Settings* section :
 - Enter the government target host in the *Target Host* field.

- Enter **443** in the *Service No.* field.
 - Enter the Webservice URL in the *Path Prefix* field.
5. Fill in the following fields under the *HTTP Proxy Options* section:
 - Enter the proxy host in the *Proxy Host* field.
 - Enter the proxy service in the *Proxy Service* field.
 6. Go to the *Logon & Security* tab page.
 7. Fill in the following fields under the *Status of Secure Protocol* section:
 - Select the *Active* option in the *SSL* field.
 - Select the name of your SSL application in the *SSL Certificate* field.
 8. Save your entries.
 9. Select the *Connection Test* button to test the connection.

Result

You can check if the certificate configuration is working properly when you receive the *HTTP 200* status code in the *Test Result* tab page.

If the connection fails, review all the configuration steps according to this document. Additionally, check the SAP Note [510007](#) to find all configurations and parameters that can impact the connection.

4.2.2.1 Create Logical Port for Government Communication

You can create logical port to communicate with the government webservices using SOAMANAGER.

Note

For more information about how to communicate with the government webservices using PI, see [Configuration of SAP PI](#) in the SAP Help Portal at http://help.sap.com/tdf_br_10 under [Application Help](#) [Messaging Framework](#).

Government WebServices

The government system provides the following webservices and service consumers for eSocial and EFD-Reinf communication, as follows:

- For **eSocial**:
 - Send batches: *ServicoEnviarLoteEventos*
 - Query processing results: *ServicoConsultarLoteEventos*
- For **EFD-Reinf**:
 - Send batches (Layout 1.2): *RecepcaoLoteReinf*
 - Send batches (Layout 1.3): *RecepcaoLoteReinf_13*

These endpoints must be configured as your SOA Manager Logical Ports. You must configure a logical port for each service consumer, as the system configures one digital certificate (SSL client) and one endpoint address for each logical port.

❖ Example

Customer A: One company and one digital certificate (SSL Client)

Company	Certificate	Logical Port
BR01	Certificate 1	ENVIO_LOTES_01
		CONSULTA_LOTES_01

Customer B: Two companies with different digital certificates (SSL Client)

Company	Certificate	Logical Port
BR01	Certificate 1	ENVIO_LOTES_01
		CONSULTA_LOTES_01
BR02	Certificate 2	ENVIO_LOTES_02
		CONSULTA_LOTES_02

Customer C: Two companies with one digital certificate (SSL Client)

Company	Certificate	Logical Port
BR01 and BR02	Certificate 1	ENVIO_LOTES_01
		CONSULTA_LOTES_01

Create Logical Port

To create a logical port for each service consumer, follow the steps below:

1. Access the `SOAMANAGER` transaction.
2. In the *Service Administration* tab page, select the *Web Service Configuration* option.

3. Search for the service consumer by entering the service consumer name in the *Object Name* field.
4. Select the *Create* button and then choose the *Manual Configuration* option.
5. Save your entries.

Configure Logical Port

To configure your logical port, proceed as follows:

1. Under *General Configuration Settings* from the *Consumer Security* section, enter a name for your logical port and its description.
2. Select *Next* to continue.
3. Under *Authentication Settings* from the *Consumer Security* section, choose *X.509 SSL Client Certificate*.
4. Under *X.509 SSL Client PSE* from the *Consumer Security* section, select your SSL application imported in the STRUST transaction to fill in the *SSL Client PSE of transaction STRUST* field.
5. Select *Next* to continue.
6. Under *Transport Binding* from the *HTTP Settings* section, fill in the following fields:
 - *URL Access Path*: Enter the last part of the WebService URL in this field.
 - *Computer Name of Access URL*: Enter the first part of the WebService URL in this field.
 - *Port Number of Access URL*: Enter **443** in this field.
 - *URL Protocol Information*: Enter **HTTPS** in this field.
 - *Logon Language*: Enter **Language of User Context** in this field.
 - *Name of Proxy Host*: Enter your proxy host in this field.
 - *Port Number of Proxy Host*: Enter your proxy service in this field.
7. Select *Next* to continue.
8. Under *Message ID (Synchronous)* from the *SOAP Protocol* section, select *Suppress ID Transfer* to fill in the *Message ID Protocol* field.
9. Under *Message of Service Calls* from the *SOAP Protocol* section, select *Enhanced Data Transfer* to fill in the *Data transfer scope* field and *Transfer via SOAP header* to fill in the *Transfer Protocol* field.
10. Under *Message Attachment Handling* from the *SOAP Protocol* section, select *No* to fill in the *Process Attachments* field.
11. Select *Next* to continue.
12. Under *Identifiable Business Context* from the *Identifiable Business Context* section, check the *Suppress sending of IBC Identifier* checkbox. The other two fields you can leave empty.
13. Select *Next* to continue.
14. Under *Transport Binding* from the *Operation Settings* section, check the *Use non-default value for SOAP Action* checkbox and enter your SOAP url in the *SOAP Action* field.
15. Under *WS Addressing* from the *Operation Settings* section, check the *Use non-default value for Inbound Message Action* checkbox and enter your WebService URL in the *Inbound Message Action* field.
16. Select the *Finish* button.

Result

The logical port for this service consumer is created.

Make sure you define if you want to use local system to communicate with the government in Customizing for *Maintain Government Communication Using Local System* under ►► *Cross-Application Components* ► *Accounting* ► *Tax Declaration Framework for Brazil* ► *Messaging Framework* ► *General Settings* ►.

5 Generating Documentation in HANA Studio

Use

HANA Studio can generate documentation about views.

Features

To generate documentation:

1. Right click in the object/package and choose *Auto Documentation*.
2. In the *Auto Documentation* dialog box, enter a path in *Target Location*.
3. Choose *Finish*. The Auto Documentation activity appears in the *Job Log* panel.

The documentation is generated as a PDF file with the following blocks:

- *General*
- *Attributes*
- *Calculated Attributes*
- *Measures*
- *Calculated Measures*
- *Counters*
- *Variables*
- *Input Parameters*
- *Where-Used*
- *Cross-References*
- *Calculation View SQL Script*

6 Multi-Temperature Data Management

Due to the high amount of data required for the SAP Tax Declaration Framework processes, you may face performance issues. To prevent these issues, you can manage the lifecycle of your information using the extended table concept with SAP HANA Dynamic Tiering.

For more information, see the Help Portal documentation at <http://help.sap.com>, under ► *Technology Platform* ► *SAP NetWeaver* ► *SAP NetWeaver 7.4* ► *Using the SAP HANA Database* ► *Operation and Administration of the SAP BW on SAP HANA* ► *Multi-Temperature Data Management* ▼.

7 Customizing TDF in the Fiori Launchpad

This guide explains the steps needed to add TDF features in the Fiori Launchpad.

Context

In your TDF system, perform the steps below:

Procedure

1. Follow the instructions for configuring the Fiori Launchpad in <https://help.sap.com/viewer/a7b390faab1140c087b8926571e942b7/7.51.3/en-US/f951b50a07ce41deb08ced62711fe8b5.html>:
2. Maintain the system alias you have created.

You maintain the system alias in the launchpad designer in Customizing for **SAP NetWeaver** under **UI Technologies** > **SAP Fiori** > **Configuring Launchpad Content** > **Adding Apps to SAP Fiori Launchpad** > **Configure Target Mappings and Tiles** > **SAP Fiori Launchpad Designer (Cross-Client)**.

The table below depicts the information you enter in the Launchpad Designer.

Catalog	Semantic Object	System Alias
CIAP	TDFCIAPAccountingDocument	<back-end system>
CIAP	TDFCIAPCockpit	<back-end system>
CIAP	TDFCIAPCreditFactor	<back-end system>
Data Integration	TDFUploadAddInfo	<back-end system>
Data Integration	TDFShadowCplSheetGen	<back-end system>
Data Integration	TDFUploadSpedRegisterData	<back-end system>
Data Integration	TDFShadowCplDeleteData	<back-end system>
Data Integration	TDFTaxObligationMonitor	<back-end system>
Declaration Services	TDFOrganizationalStructure	<back-end system>
Declaration Services	TDFNFViewer	<back-end system>



Catalog	Semantic Object	System Alias
Declaration Services	TDFFiscalPeriod	<back-end system>
Declaration Services	TDFSpedEFDRpt	<back-end system>
Legal Reporting	TDFSpedECDRpt	<back-end system>
Legal Reporting	TDFSpedPCORpt	<back-end system>
Legal Reporting	TDFSpedECFRpt	<back-end system>
Legal Reporting	TDFSpedREINFRpt	<back-end system>
Legal Reporting	TDFSpedREINFRptALV	<back-end system>
Messaging Framework	TDFMFeSocialRpt	<back-end system>
Messaging Framework	TDFMFeFinanceiraRpt	<back-end system>
Messaging Framework	TDFMFREINFRpt	<back-end system>

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