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**SAP S/4HANA**

**SAP Tax Declaration Framework for Brazil**

**S/4-FI-TDF-BR 2.0**

**Certification Test Plan**

SAP Integration and Certification Center

Document last review: January 30, 2018



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## 1. INTRODUCTION

The fiscal scenario in Brazil is very complex and companies spend a lot of time and money to be compliant with tax declaration laws. The SAP Tax Declaration Framework (TDF) for Brazil is an integrated tax management solution based on SAP HANA platform that help Brazilian companies to be in compliance while saving time and money by reducing the operation costs with auditing, analyzing and assessing of fiscal information; by eliminating direct and indirect costs with tax management software; and by offering greater accuracy on fiscal planning and taxes payment.

SAP TDF provides the Central Tax Repository (CTR) and a set of Services for the third-party software vendors to build complimentary solutions for TDF. In order to certify that these third-party solutions are integrating and inter-operating with such SAP TDF technical artifacts (CTR and Services), this document describes the possible technical scenarios and their specific requirements.

As SAP's strategy towards tax solutions for Brazil obligatorily passes through SAP TDF, for third-party tax solutions integrating with SAP S/4HANA the only possible integration scenario to be certified must consume SAP TDF as part of the solution.

### Prerequisite Certification

- The SAP TDF for Brazil is required to be installed in the latest support package following instructions in the respective Release Information Note, with required SAP NetWeaver on SAP HANA, as explained in installation guide, in [SAP TDF's Official Documentation](#).
- The necessary software may be obtained separately from SAP. In some cases, it may be part of the benefits of a specific SAP partner program, or be included as part of a hosted SAP development environment – partners should check with their partner manager for details.
- An up to date SAP S/4HANA environment must be provided for certification testing. Check for the latest versions in [SAP Help Portal](#).

### Additional Considerations

- The use of SAP ABAP programming of SAP backend application is not mandatory, but it's permitted if needed. In such cases, SAP ICC reserves the right to check if other certifications are required, for example ABAP Add-on, when the respective test steps should be followed as additional pre-requisites for this certification. This must be discussed during the preliminary assessment.

## 2. SAP TAX DECLARATION FRAMEWORK CERTIFICATION REQUIREMENTS

SAP offers a certification service for third-party software vendors that develop interfaces for integrating third-party tax application into SAP Tax Declaration Framework (SAP TDF) for Brazil solution.

The following requirements must be met by the vendors connected to the SAP TDF 1.0 or higher using web services and ODBC/JDBC connection to SAP HANA:

- Vendor must implement the mandatory integration scenarios described in section 3.4 of this document, and may choose to implement additional integration scenarios as optional
- The complimentary solution must consume the CTR and the required enterprise services for each selected integration scenario
- The vendor must derive the test scenarios based on its business processes flow

The requirements are explained further in details in the section 3 (Test Plan) of this document. You may find more details on [SAP TDF's Official Documentation](#).

Please fill out the Technical Product Profile for the S/4-FI-TDF-BR interface certification which will be provided by the SAP ICC consultant.

### 3. TEST PLAN

#### 3.1. SAP TDF Central Tax Repository (CTR)

The vendors must have access to SAP TDF on HANA environment for developing and testing.

- Must access data only through CTR Reuse Views and SPED Views provided by SAP TDF.
- Must not duplicate CTR data or structure, nor SPED views.
- Must not access any TDF private views.

#### 3.2. Complement CTR

The application must maintain data in the provided mechanisms, described in section 'CTR Extensions' of Developer's Guide, in [SAP TDF's Official Documentation](#).

#### 3.3. SAP TDF Services

SAP TDF provides sets of enterprise services to ease the extraction and usage of the retrieved information. For ABAP-based solutions, vendors may choose between creating client proxies and calling the implementing classes directly. Support for the available services may be found for the respective SAP TDF release in [SAP TDF's Official Documentation](#) through the path: Application Help, Integration, Enterprise Services.

##### 3.3.1. Application Logging

Traces and logs are essential for analyzing problems. The vendors must implement the respective enterprise services for log messages and partner process ID. Under the official documentation navigate through Enterprise Services, Tools.

##### 3.3.2. Fiscal Period

Usage of Fiscal Periods is essential for any integration scenario with SAP TDF. Reading the fiscal period is mandatory while changing it is optional. Under the official documentation navigate through Enterprise Services, Fiscal Period.

##### 3.3.3. Tax Obligation Generation with Tax Obligation Monitor

Tax Obligation Monitor API is available to keep track of all legal obligations that have electronic deliverables. For solutions developed outside of SAP TDF's NetWeaver, the access to the API is available through the REST/OData service TOM\_API\_SRV. For further information access section 3 (Tax Obligation Monitor API) of Developer's Guide, in [SAP TDF's Official Documentation](#).

##### 3.3.4. Nota Fiscal Auditing

An interface to record which *notas fiscais* have been audited. Under the official documentation navigate through Enterprise Services, Nota Fiscal and FI.

### **3.3.5. Fiscal Documents Corrections**

Allows creating and changing *notas fiscais*, besides creating correction letters. Under the official documentation navigate through Enterprise Services, Nota Fiscal and FI.

### **3.3.6. Accounting Posting**

Posting and posting reversal of FI documents. Under the official documentation navigate through Enterprise Services, Nota Fiscal and FI.

### **3.3.7. Standard SPED Execution**

For this scenario, either a PI/XI system or web services must be enabled in SAP TDF system to be called by another application (e.g. PHP, soapUI). Under the official documentation navigate through Enterprise Services, SPED Reports.

### 3.4. Integration Scenarios

Integration scenario Tax Assessment to Complement and Generate SPEDs is mandatory for all solutions. The mandatory records must be implemented according to the latest register coverage document found in SAP Note 2248350, and following the instructions below. Vendors may choose to implement additional integration scenarios as optional. In any case, the mandatory features related to each integration scenario must be implemented accordingly.

Integration Scenario	Mandatory
<p><b>1. Tax Assessment to Complement and Generate SPEDs (mandatory)</b></p> <p><b>EFD ICMS/IPI</b></p> <ul style="list-style-type: none"> <li>- Block E – all records with table CPL or Shadow</li> <li>- C195, C197, D195 and D197</li> <li>- Block K – all records with table CPL or Shadow</li> <li>- Other blocks/records with table CPL or Shadow are optional</li> </ul> <p><b>EFD Contribuições</b></p> <ul style="list-style-type: none"> <li>- Block M – all records with table CPL or Shadow</li> <li>- Block F – all records with table CPL or Shadow</li> <li>- Other blocks/records with table CPL or Shadow are optional</li> </ul> <p>Blocks/records with table CPL or Shadow for ECD, ECF or REINF are optional.</p>	Application Logging Fiscal Periods Status Central Tax Repository (CTR) Complement CTR Standard SPED Execution
<p><b>2. Additional Obligations Generation</b> State and municipal obligations</p>	Application Logging Fiscal Periods Status Central Tax Repository (CTR) Complement CTR Tax Obligation Monitor
<p><b>3. Fiscal Auditing</b> List audited processes</p>	Application Logging Fiscal Periods Status Central Tax Repository (CTR) Nota Fiscal Auditing
<p><b>4. Fiscal Documents Correction</b> List the supported corrections scenarios and correction letters</p>	Application Logging Fiscal Periods Status Central Tax Repository (CTR) Fiscal Documents Corrections
<p><b>5. Tax Assessment Accounting</b> Posting and posting reversal of FI documents</p>	Application Logging Fiscal Periods Status Central Tax Repository (CTR) Complement CTR Accounting Posting
<p><b>6. Fiscal Calendar</b> Dashboard to list and control obligations</p>	Application Logging Fiscal Periods Status Central Tax Repository (CTR)
<p><b>7. Dashboards/Analytic Reports/Tax Planning</b> Any reporting feature not present in the above scenarios</p>	Application Logging Fiscal Periods Status Central Tax Repository (CTR)





## 4. BUSINESS PROCESSES FLOW

The vendor is required to describe supported functions and specific business processes flow in the Technical Product Profile document. It must include the enterprise services name used in the integration during the process.

## 5. TEST CASES

The vendor is required to fill out the Technical Product Profile including the test case scenario proposed by the partner, as a deliverable for the certification. The partner should define the test cases based on the business processes flow in section 4.

## 6. PERFORMANCE

Application performance must be compatible to SAP HANA and SAP TDF. The vendor is required to propose at least one test case to measure the application performance. If the test environment has not enough records to perform a suitable performance test case scenario, evidence of running in other environments (e.g. customer system) should be produced.

## 7. DOCUMENTATION

The vendor is required to submit the following documentation:

- Architecture Overview diagram
  - Constitute your product including the data/information flow between all the components integrated to SAP TDF
- Installation/Configuration Guide document
  - Include all required installations and configurations to connect your product to SAP TDF
- User Guide document
- Technical Product Profile (TPP)
- PPMS Data Collection and Test Report (only if application uses ABAP)

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