



SWIFT Partners

SWIFTReady TSU (Trade Services Utility)

Label criteria 2010

Version 1

January 2010

Legal notices

Copyright

SWIFT © 2010. All rights reserved.

You may copy this publication within your organisation. Any such copy must include these legal notices.

Disclaimer

SWIFT supplies this publication for information purposes only. The information in this publication may change from time to time. You must always refer to the latest available version.

Translations

The English version of SWIFT documentation is the only official version.

Trademarks

SWIFT is the trade name of S.W.I.F.T. SCRL. The following are registered trademarks of SWIFT: SWIFT, the SWIFT logo, Sibos, SWIFTNet, SWIFTReady, and Accord. Other product, service, or company names in this publication are trade names, trademarks, or registered trademarks of their respective owners.

Table of content

1 SWIFT TSU SOLUTION RELATED TO THIS SWIFTREADY LABEL CRITERIA: HIGH LEVEL INTRODUCTION.....	5
1.1 SWIFT TSU 2.0 XML MESSAGES.....	5
1.2 SWIFTNET MESSAGING SERVICES.....	7
1.3 THE TSU APPLICATION.....	7
1.4 THE (OPTIONAL) TSU INTERFACE.....	7
2 THE SWIFTREADY TSU LABEL.....	7
3 SWIFTREADY TSU CRITERIA 2010.....	7
3.1 NEW CRITERIA FOR 2010.....	7
3.2 INSTALLED CUSTOMER BASE.....	7
3.3 MESSAGING	7
3.4 CONNECTIVITY	8
3.5 STANDARDS	8
3.6 TSU APPLICATION SUPPORT.....	9
3.7 BUSINESS WORKFLOW.....	9
3.8 USER PROFILE MANAGEMENT	9
3.9 MARKETING AND SALES	10
3.10 RELATED DOCUMENTATION	11

Preface

Purpose of this document

This document explains the business criteria needed to obtain the SWIFTRReady Trade Services Utility (TSU) label, aimed at Trade Applications in banking back office environments. The intended audience is Product Managers and Development Managers/Developers.

Please refer to the following set of documents for further info on the SWIFTRReady label programme :

Related documents

- [SWIFTRReady applications guide](#)

Explains the 'Why and How' on joining the SWIFT Partner Management framework and its related SWIFTRReady Accreditation programmes.

- [SWIFTRReady criteria portfolio](#)

Explains the 'What' in a generic yet detailed manner on the criteria of your SWIFTRReady Application.

- [SWIFTRReady technical validation guide](#)

Explains the 'How' in a detailed manner on how your application will be validated to become SWIFTRReady.

1 SWIFT TSU Solution related to this SWIFTReady label criteria: high level introduction

The TSU is a collaborative, centralised matching and workflow engine for use by the SWIFT Banking Community. It is designed to help banks provide competitive supply chain services to their corporate customers. It builds on SWIFT's traditional strengths in providing standards and messaging, and reuses the SWIFT infrastructure already in place in banks' back-offices. All communication is Bank to TSU or TSU to Bank.



● Banks Services based on the TSU

The TSU's primary functions are to compare data sets as submitted by the bank(s) and then report the results back to the bank(s). The TSU deals with data that corresponds to underlying commercial transactions between corporations. The workflow is defined by the 'status' or 'states' that a TSU transaction can have and the messages that are permitted in each state. A TSU transaction may go through all the states but it is not required to do so.

The TSU 2.0 solution combines the use of the following elements:

1.1 SWIFT TSU 2.0 XML messages

Message type	Business message
tsmt.001.001.03	Acknowledgement
tsmt.002.001.03	Activity Report
tsmt.003.001.03	Activity Report Request
tsmt.004.001.02	Activity Report Set Up Request
tsmt.005.001.02	Amendment Acceptance
tsmt.006.001.03	Amendment Acceptance Notification
tsmt.007.001.02	Amendment Rejection
tsmt.008.001.03	Amendment Rejection Notification
tsmt.009.001.03	Baseline Amendment Request
tsmt.010.001.03	Baseline Match Report
tsmt.011.001.03	Baseline Report

tsmt.012.001.03	Baseline ReSubmission
tsmt.013.001.03	Data Set Match Report
tsmt.014.001.03	Data Set Submission
tsmt.015.001.03	Delta Report
tsmt.016.001.03	Error Report
tsmt.017.001.03	Forward Data Set Submission Report
tsmt.018.001.03	Full Push Through Report
tsmt.019.001.03	Initial Baseline Submission
tsmt.020.001.02	MisMatch Acceptance
tsmt.021.001.03	MisMatch Acceptance Notification
tsmt.022.001.02	MisMatch Rejection
tsmt.023.001.03	MisMatch Rejection Notification
tsmt.024.001.03	Action Reminder
tsmt.025.001.03	Status Change Notification
tsmt.026.001.02	Status Change Request
tsmt.027.001.02	Status Change Request Acceptance
tsmt.028.001.03	Status Change Request Notification
tsmt.029.001.02	Status Change Request Rejection
tsmt.030.001.03	Status Change Request Rejection Notification
tsmt.031.001.03	Status Extension Acceptance
tsmt.032.001.03	Status Extension Notification
tsmt.033.001.03	Status Extension Rejection
tsmt.034.001.03	Status Extension Rejection Notification
tsmt.035.001.03	Status Extension Request
tsmt.036.001.03	Status Extension Request Notification
tsmt.037.001.03	Status Report
tsmt.038.001.03	Status Report Request
tsmt.040.001.03	Time Out Notification
tsmt.041.001.03	Transaction Report
tsmt.042.001.03	Transaction Report Request
tsmt.044.001.01	IntentToPayNotification
tsmt.045.001.01	ForwardIntentToPayNotification
tsmt.046.001.01	IntentToPayReport
tsmt.047.001.01	SpecialRequest
tsmt.048.001.01	SpecialNotification
tsmt.049.001.01	RoleAndBaselineAcceptance
tsmt.050.001.01	RoleAndBaselineRejection
tsmt.051.001.01	RoleAndBaselineAcceptanceNotification
tsmt.052.001.01	RoleAndBaselineRejectionNotification

1.2 SWIFTNet Messaging Services

For bank-to-TSU communication:

SWIFTNet Interact and SWIFTNet FileAct in Real-time mode

For TSU-to-bank communication:

SWIFTNet InterAct and SWIFTNet FileAct Store and Forward mode.

Note: the TSU Interface also uses SWIFTNet Browse

Please refer to the relevant Service Descriptions and the TSU Integration Guide for a complete description of features and functions (see 3.10 Related Documentation).

1.3 The TSU application

The TSU application is described in detail in the TSU Integration Guide.

1.4 The (optional) TSU interface

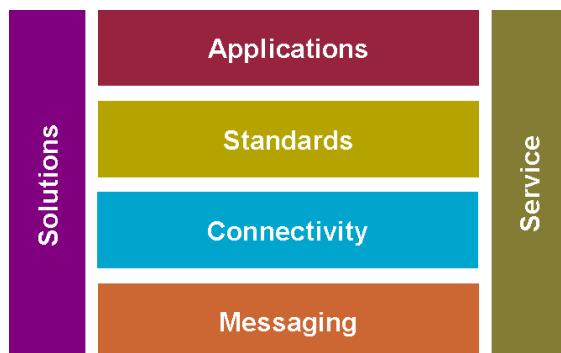
SWIFT has developed an optional product for banks that choose not to integrate the TSU application with their back offices. It is described in detail in the TSU Interface User Guide.

2 The SWIFTReady TSU label

The SWIFTReady TSU label is granted to Trade applications that work in a banking back-office context. The label is awarded after a successful technical and functional validation by SWIFT using the SWIFT test scenarios over the SWIFT Integration Testbed service (ITB), and a successful product demo with a functional/business validation by SWIFT experts.

All XML messages of the TSU 2.0 release need to be supported. SWIFT will verify this by means of the test scenarios that simulate workflows using a subset of these messages.

3 SWIFTReady TSU criteria 2010



3.1 New criteria for 2010

Not applicable, the 2010 criteria are still fully aligned with the TSU Rel 2.0 (go-live on SWIFT network 1st of March 2009).

3.2 Installed Customer Base

The 2010 label does not yet require you to have a live customer reference.

3.3 Messaging

The application must be able to support SWIFTNet FileAct Real-time (bank to TSU communication) and FileAct Store-and-Forward messaging (TSU-to-bank communication).

To prove your support for FileAct messaging, you have 2 options:

3.4 Connectivity

3.4.1 Option 1: Direct connectivity

You will have to connect your application to the Alliance Gateway using FTA (File Transfer Agent) or RAHA (Remote Access Host Adapter) and following the Alliance Gateway format specifications.

3.4.2 Option 2: Indirect connectivity

Alternatively, you can prove your application's FileAct support by providing SWIFT with evidence of an indirect connectivity solution consisting of your business application and a middleware (EAI) solution. This is preferably one of the SWIFTReady Financial EAI applications. The complete and up-to-date list of SWIFTReady Financial EAI applications can be found on www.swift.com/partners. Indirect connectivity can be accepted only for business applications applying for a SWIFTReady TSU label. Furthermore, its combination with an EAI application needs to be proven through ITB testing.

Please note that when connecting indirectly to SAA, the business application or the Financial EAI is required to add the specific SAA messaging interface header to the business payload (business payload consists of application header + TSU business message). Documentation and samples can be obtained from partner.management@swift.com.

Only on an exceptional basis will SWIFT Partner Management accept proof of your compliance with the connectivity criteria using the live or test and training connection of a TSU test or production customer. In this case SWIFT Partner Management reserves the right to contact the relevant financial institution for further information.

3.4.3 Provisioning on the Integration Test Bed (ITB)

To be provisioned on the ITB, you will need to subscribe to the TSU service via the e-ordering forms on swift.com. Subscription to these services is free of charge to SWIFT partners, as is the test traffic sent on the ITB.

ITB provisioning forms can be found on the [Developer Resource Centre](#)

*Service names to be selected : swift.tsu!x **and** swift.tsu.st!x*

It is your responsibility to install new releases or patches linked to the TSU and to set up and maintain your connection to the ITB. It is not mandatory to have your own connection to the ITB. You can use the connection of another SWIFT Partner to exchange messages on the ITB provided the test traffic sent can be identified as coming from your application, i.e. using your PIC (Partner Identification Code).

Only on an exceptional basis will SWIFT Partner Management accept proof of your compliance with the messaging support criteria using the live or test and training connection of a SWIFTNet TSU test or production customer. In this case SWIFT Partner Management reserves the right to contact the relevant financial institution for further information.

3.5 Standards

The application must support all TSU Rel 2.0 messages as described in the TSU Standards Handbook November 2008.

The messages must be created to send to the TSU or processed when received from the TSU. All changes to the messages must be supported by the application before their live release date on the SWIFT network. When new messages are introduced or significant modifications have been made to existing messages, we expect the application provider to provide adequate testing time to customers prior to these messages going live.

On message level, the application must provide the correct mapping including business information to the correct XML tag.

3.6 TSU application support

The application must support the functionality and message flows as described in the TSU Service description and TSU integration Guide.

All changes to the TSU application must be supported by the application before the live release date on the SWIFT Network. When new functionality is introduced or significant modifications have been made to the existing TSU application, we expect the application provider to provide adequate testing time to customers prior to this functionality going live.

3.6.1 Lodge and Push Through model support

A comprehensive set of test scenarios has been developed and documented by SWIFT for the use of banks and partners. These scenarios describe an example of the TSU messages that may be exchanged under various circumstances.

We expect the application provider to be able to simulate/replay these scenarios as documented by exchanging correctly formatted TSU messages with the TSU engine over SWIFT's ITB.

In order to execute the test scenarios, you will need to create a test environment simulating the two counterparty TSU banks, i.e. representing both buyers' and sellers' bank, and allowing both banks to initiate a TSU transaction and to respond to the initiation of a TSU transaction by another financial institution. Both entities will need to be provisioned on the TSU services on the ITB.

3.6.2 Message Identifiers

The application must be able to assign and associate identifiers to expedite the business processing of TSU transactions.

3.6.3 Reminder and timeout support

The application will also need to provide mechanisms to interpret the reminders and timeout notifications sent by the TSU application during the lifecycle of a particular transaction and to create the appropriate operator alerts.

3.7 Business Workflow

SWIFT acknowledges that TSU transactions will require Financial Institutions staff to intervene at given points in order to make business decisions. The application must, however, minimize the need for manual entry of data.

For some partners this may mean converting data received in alternative message formats into the prescribed TSU XML format. For other partners it might mean allowing operators to choose from pre-filled templates of all appropriate Trade Services Utility XML messages. In some cases, it might mean routing TSU decision requests to the decision maker via internal mail.

SWIFT expects the application to:

- Validate data input at the field level. Any invalid entry must be flagged, and the user prompted to correct the input.
- Provide the user with an intuitive method of following the status of a particular transaction.
- Allow manual intervention as needed in the TSU life-cycle, given the nature of the application, e.g. display capability, repair of messages, create messages, etc.
- Allow the user to access incoming and outgoing messages by filtering, e.g. using date/time, reference, Transaction Identifier etc.

3.8 User profile management

The application must ensure the security of the Financial Institution's process(es).

SWIFT expects this to include ensuring that only authorised users (whether people or applications) can perform a specific task. You should demonstrate how profile management is assured and how access is denied to unauthorized users.

In a non-automated environment the application must also be able to support the "four eyes principle".

3.9 Marketing and Sales

Collaboration in terms of administrative and marketing information is requested. In particular the Partner should provide SWIFT under non-disclosure agreement with customer related information.

- A list of all customers active in the finance sector. The list should provide institution names, locations, and an overview of the integration scope (domain, features, and sites) for the present and previous year.
- A product roadmap for 2010 and 2011 containing the plans for further developments, SWIFTSolutions support and new releases.
- A complete set of documentation, including features overview, SWIFT adapters, workflow engine capability and user manuals.
- A dedicated web page on Partner web site for the SWIFTRReady label.

3.10 Related Documentation

CD Trade Services Utility 2.0 (September 2008)

- Factsheet
- Solutions Implementation Service Overview
- Service Description
- Integration Guide
- Interface User Guide
- Standards MX
 - General Information
 - Message Reference Guide – User and Implementor
 - Message Reference Guide – User
 - Message Matching Rules
 - Schemas
 - Samples

- End of document -