

Technical Guide

Advices Interface

GPP-SP-SP Version: 4.0.34

Document Version: 1.0, January 2011

Catalog ID: GPTADV1-03410

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DOCUMENT CHANGE CONTROL

Version	Date	Authors	Summary of Changes
0.1	Dec. 29, 2010	Eran Vitkon	Write-up
1.0	Dec. 30, 2010	Eran Vitkon	Post T/W review
1.1	Jan 2, 2010	Eran Vitkon	Cosmetic update

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1 OVERVIEW

1.1 Introduction

GPP-SP payment processing is comprised of services and services orchestration (i.e. the order in which the services are set). The services include debit party and credit party identification, payment fees as well as FX when required. During the payment processing flow GPP-SP interacts with bank systems (in order to capture the payment, to perform an account lookup when a specific account doesn't reside in GPP repository or at the end of the processes when the posting has to be done at the bank's ledger books). Creating advises and setting up an ability to trigger an alert is another possibility. This document describes the required interface setup for advising and notification.

At the end of every service, GPP-SP goes through 'graceful termination flow'. This flow assesses a business rule that defines whether an advice should be generated. There are currently two major types of advises:

1. Electronic advises created by GPP-SP
2. Electronic advises generated by GPP-SP interface.

This document focuses on the second type and describes the following scenarios:






1. Creation of PACS 002
2. Creation of a proprietary advice based on list of attributes and their value.
3. Creation of Fundtech proprietary message (as specified in GPP-SP Technical Guide Fundtech Message Format.doc)

1.2 About This Book

1.2.1 Conventions

Table 1 lists the conventions used in this document.

Table 1: Conventions

Icons	Description
	Error
	Important/Warning
	Note
	Tip
	Manual Handling

1.2.2 Glossary of Terms

Table 2 is a glossary of terms used in this document.

Table 2: Glossary of Terms

Term	Description
GPP-SP	Global Payplus Services Platform
BI	Balance Inquiry
STP	<i>Straight Through Processing</i> – Automated processing where operator doesn't need to intervene between the time the payment was dropped into the system till it reaches completion

1.2.3 Related documents

Name	Version
GPP-SP Business Guide Advices	1.0
GPP-SP Technical Guide Fundtech Message Format.doc	2.1

2 HIGH LEVEL DESCRIPTION

2.1 Executive Summary

At the end of service invocation, GPP-SP performs a 'graceful termination' flow that includes assessment of 'Advising type selection rule' and activation of the relevant advice set as the rule action.

This document covers the following actions:

1. Acknowledgment (i.e. create PACS 002)
2. Event Notification (i.e. create proprietary attribute list advice)
3. Notification (i.e. create Fundtech proprietary message)

For each of these actions, a sub-action is also determined which makes the required advice specific.



For 'Acknowledgment', the list of possible values for the rule sub-action is determined by a user code but the meaning of each code must be associated with hard coded advice generation.

3 DETAILED DESCRIPTION

3.1 Reference Data

3.1.1 Interface Profile

This profile defines the interface attributes (such as the MQ where the advice is created)

3.1.1.1 Notify

The screenshot shows the 'Interface' window with the following configuration:

- Office:** [Dropdown menu]
- Status:** Active [Dropdown menu]
- Change status:** NO-none [Dropdown menu]
- As of:** 31/08/2010 [Text field]
- Name:** NOTIFY [Text field]
- Properties:**
 - Type:** NOTIFY [Text field]
 - Status:** Active [Dropdown menu]
 - Sub type:** [Text field]
 - Payment source:** [Text field]
 - Direction:** In [Radio button] Out [Radio button]
- Queues:**
 - Inactivity behavior:** Store [Dropdown menu]
 - Wait queue:** [Text field]
 - Inactive queue:** [Text field]
 - Initiate inactive after:** 10 [Text field] occurrences
- Request parameters:**
 - Protocol:** MQ [Dropdown menu]
 - Format type:** FULL [Text field]
 - Conn. point:** Q_OUT_NOTIFY [Text field]
- Response parameters:**
 - Protocol:** [Text field]
 - Format type:** [Text field]
 - Conn. point:** [Text field]
- Buttons:**
 - Decline, Approve, Audit, Save As, Save, Hold, Activate, Retract, Previous, Next, Delete, Undo All, Close

3.1.2 System Tables

3.1.2.1 INTERFACE_FIELDS Table

This table specifies, for every Advising type selection rule sub-action, a list of payment attributes. Table structure is as follows:

Table 3: INTERFACE_FIELDS Table

Field name	Description	Example
INTERFACE_NAME	Rule Action code	EVENTNOT
OFFICE	Payment office	US1
INTERFACE_SUB_TYPE	Rule sub action code	10007
INTERFACE_FIELD_ALIAS	The name of the field as going to be sent in the interface	Beneficiary Name
FIELD_LOGICAL_ID	The value of the field that is going to be sent in the interface taken from the payment	X_CDTR_NM
GROUP_ID	An indication for whether	P
FROM_PDO	A technical indication whether the information (field logical IF) resides in the Payment Data Object (PDO)	1
USE_PREVIOUS_VALUE	A technical indication whether to use the logical field ID previous value.	0

3.2 Processing Flow

3.2.1 STP

At service Graceful termination flow, the Advising type selection rule business rule is assessed. The first matching rule holds the following action:

1. Acknowledgment (Pacs 002)
 1. Generate PACS 002.
 2. Copy all attributes from original message.
 3. Perform special mapping following the rule sub action.
 4. The list of sub-actions has to be setup both in the user codes and in the code. Most changes would be around setting the attribute 'TxSts' into one of its possible values: (example: ACTC) Additional common mapping is of 'OrgnlEndToEndId' & 'ClrSysRef'
2. Event Notification (Alert and Notification proprietary format)
 1. Generate a proprietary message.
 2. Message header includes fixed list of attributes that are always being sent out.



These fields are set with FROM_PDO indicator set to zero (0)..

3. Message body is comprised of list of dynamically set attributes that are specified per rule sub-action in INTERFACE_FIELDS table.
3. Notification (Fundtech message format)
 1. Generate Fundtech message (with all message attributes)

3.2.2 Manual Handling (N/A)

4 EXAMPLES

4.1 PACS 002

This business rule setup includes the creation of PACS 002. The **L1 ACK to GBP** specifies a list of predefined hard-coded mappings that are unique for this specific generated PACS.

Business Rules

Department: **MMB** Office: **DN1** Status: **Active**

Change status: **NO-none** As of: **12/11/2010**

Type: **Advicing type selection rule** Name: **L1ACK** Create as base condition: ☐

Description: **Advicing type selection rule for L1 ACK**

Action details

If there is a match then: **SET** Advising profile: **Acknowledgment** Usage: **L1 ACK to GBP**

Conditions details

AND/OR	(Field/Function	Operator	Value/Field/Function)
		[Msg tp]	=	Pacs_008	
AND		[Dbl MOP]	=	BOOK	
AND		[Prev Msg sts]	=	(RECEIVED)	
AND		[ACK Conf sts]	Is	EMPTY	

Buttons: **Check**, **Approve**, **Audit**, **Revert**, **Previous**, **Next**, **Save As...**, **Save**, **Hold**, **Activate**, **Delete**, **Undo All**, **Close**

4.2 Fundtech Message Generation

This business rule setup includes the creation of Fundtech proprietary message. There is no need for sub-action. The Fundtech message is placed according to the interface MQ setup.

Business Rules

Department: PSV Office: US1 Status: Active

Change status: NO-none As of: 02/03/2010

Type: Advising type selection rule Name: FUTUREDATEDPAYMENTR Create as base condition: ☐

Description: FUTURE DATED PAYMENT RELEASE Notification

Action details

If there is a match then: SET Advising profile: Notification ... usage:

Conditions details

AND/OR	(Field/Function	Operator	Value/Field/Function)
		[s History]	=	0	
AND		[Prev Msg sts]	<>	[Msg sts]	
AND		[Prev Msg sts]	=	SCHEDULE	
OR		[Prev Msg sts]	=	WAIT_RELEASE	

Buttons: Decline, Approve, Audit, Retrad, Previous, Next, Save As, Save, Hold, Activate, Delete, Undo All, Close

4.3 Alerts and Notifications

This business rule setup includes the creation of ad hoc proprietary fields/value advice.

Business Rules

Department: PSV Office: US1 Status: Active

Change status: NO-none As of: 21/04/2010

Type: Advising type selection rule Name: TEMPLATE REPAIR Create as base condition: ☐

Description: TEMPLATE REPAIR Notification

Action details

If there is a match then: SET Advising profile: Event Notification ... usage: Template Repair

Conditions details

AND/OR	(Field/Function	Operator	Value/Field/Function)
		[s History]	=	2	
AND		[Prev Msg sts]	<>	[Msg sts]	
AND		[Msg sts]	=	REPAIR	

Buttons: Decline, Approve, Audit, Retrad, Previous, Next, Save As, Save, Hold, Activate, Delete, Undo All, Close

The sub action Template repair is a user code description associated with a code (50001).

The code is one of the primary keys for INTERFAC_FIELDS table where a list of attributes is set:

Interface Name	Office	Interface sub type	Interface field alias	Field logical ID	Group ID	From PDO	Use previous value
EVENTNOT	US1	50001	Error Code	V_ERROR_CODE	P	0	0
EVENTNOT	US1	50001	Reject reason	V_REJECT_REASON	P	0	0
EVENTNOT	US1	50001	Template Code	P_TEMPLATE_CD	P	1	0
EVENTNOT	US1	50001	Template Name	P_TEMPLATE_NM	P	1	0
EVENTNOT	US1	50001	Debit Account Number	P_DBT_ACCT_NB	P	1	0
EVENTNOT	US1	50001	Date Initiated	P_CREATE_DT	P	1	0
EVENTNOT	US1	50001	Status	P_MSG_STS	P	1	0