

# SERVICE CODE DESCRIPTION

## MAPPINGSERVICES/COUNTRY CODES 1.0

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**Table 1 Document History**

Version	When	Who	What
T1.0	2012-01-03	Yves-Alexandre vander Schelden	Template update.
T1.1	2012-02-13	Yves-Alexandre vander Schelden	Template update. Remarks of watermark & style issues
O.1	2012-04-10	Johan Boogaerts	Draft

**Table 2 Document validation**

version	Name	Function	Comments	Approval date
T1.1	YAVS	Program SOA Analyst	Version 2012	2012-01-05

## Objective of this document

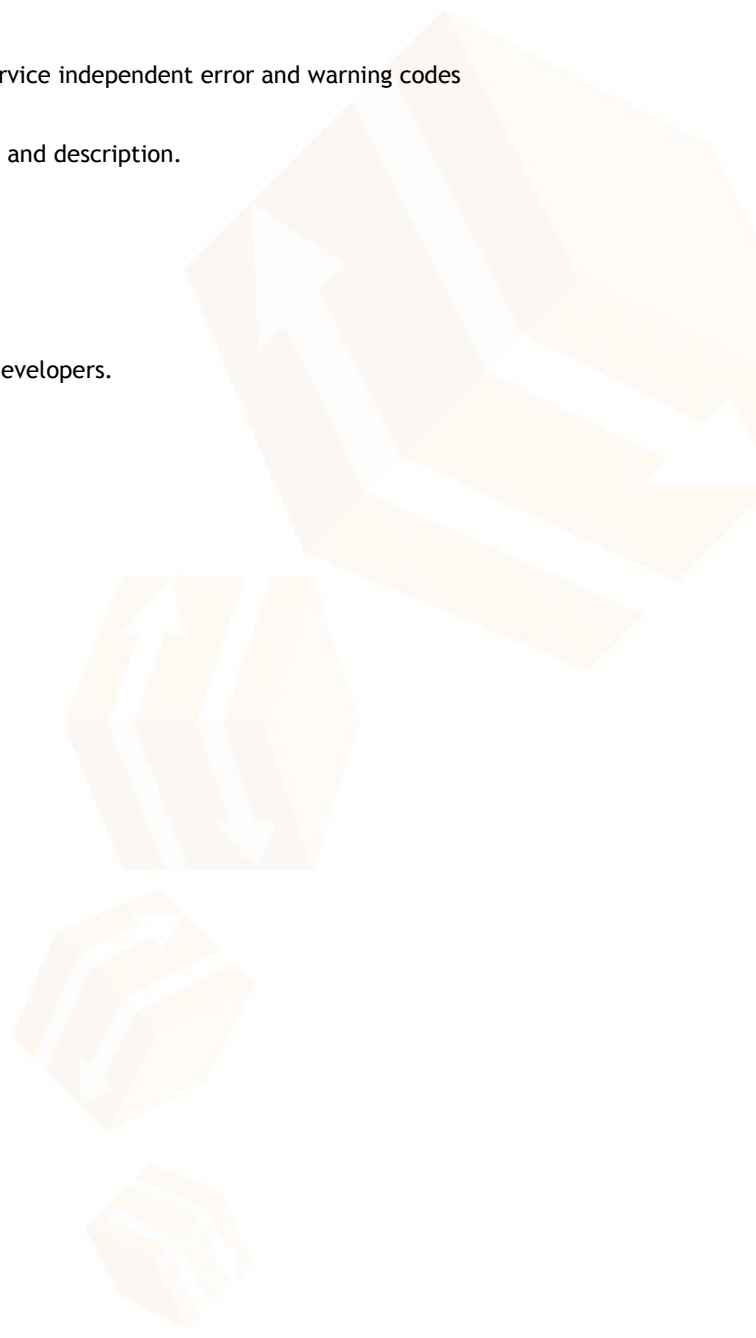
This document describes the error, warning, business and additional codes related to the service family. It is a reference for any codes used inside the same family of services.

Chapter 1 contains the FSB generic error behaviour and a list of service independent error and warning codes

Chapter 2 contains the service dependent error and warning codes and description.

## Target group

This document is intended to be read by analysts, architects and developers.



# 1. Error handling

The MappingServices make use of the FSB standard error handling structure.

## 1.1. GENERAL ERROR HANDLING

For error handling two types of errors are defined: runtime and business errors.

### 1.1.1. Business errors

Business errors are errors caused by incorrect or inconsistent data; business errors violate business rules. An example of a business failure is a search on an invalid national number.

Business errors are "expected" errors; the behaviour is predictable given the request. Business errors are part of the business logic; they are considered as a valid response of the service. The return of a business error is a predicted and valid response.

The consumer has to analyse the business failures and if possibly undertake additional actions to correct the request.<sup>1</sup>

### 1.1.2. Runtime error

Runtime errors are errors caused by an incorrect or inconsistent state of the system. These errors are for example caused by incorrect configurations, incorrect authorisations, unavailable components of the system, incorrect messages transmitted by the consumer or even internal bugs.

Runtime errors are sometimes "expected" errors, and sometimes "unexpected" errors. Some are caused by incorrect information that the consumer sends, and can sometimes be caused by an internal server problem.

An expected run-time error may be for example the unavailability of a service provider, the reception of an erroneous message from the consumer or an incorrect authorized request from the consumer. An unexpected runtime error is for example a bug in the system or an incorrect internal configuration such as an incorrect URL.

All runtime errors generate a SOAP Fault; the response containing the soap fault is returned to the consumer. The SOAP fault has an indication whether the error was caused by the consumer or the system. If the error was caused by the consumer, the consumer may resend the message, because it produces the same error. When the error was caused by the system, the client may resend the message or at a later date (after the installation of a solution for the error).

## 1.2. SPECIFIC ERROR HANDLING

[This section contains business rules and special features of the service behaviour regarding error, warning and mapping codes]

<to be filled in>

## 1.3. ERROR AND WARNING FORMATS

[This section contains a description of how codes are provided to the consumer including examples for different kinds of codes]

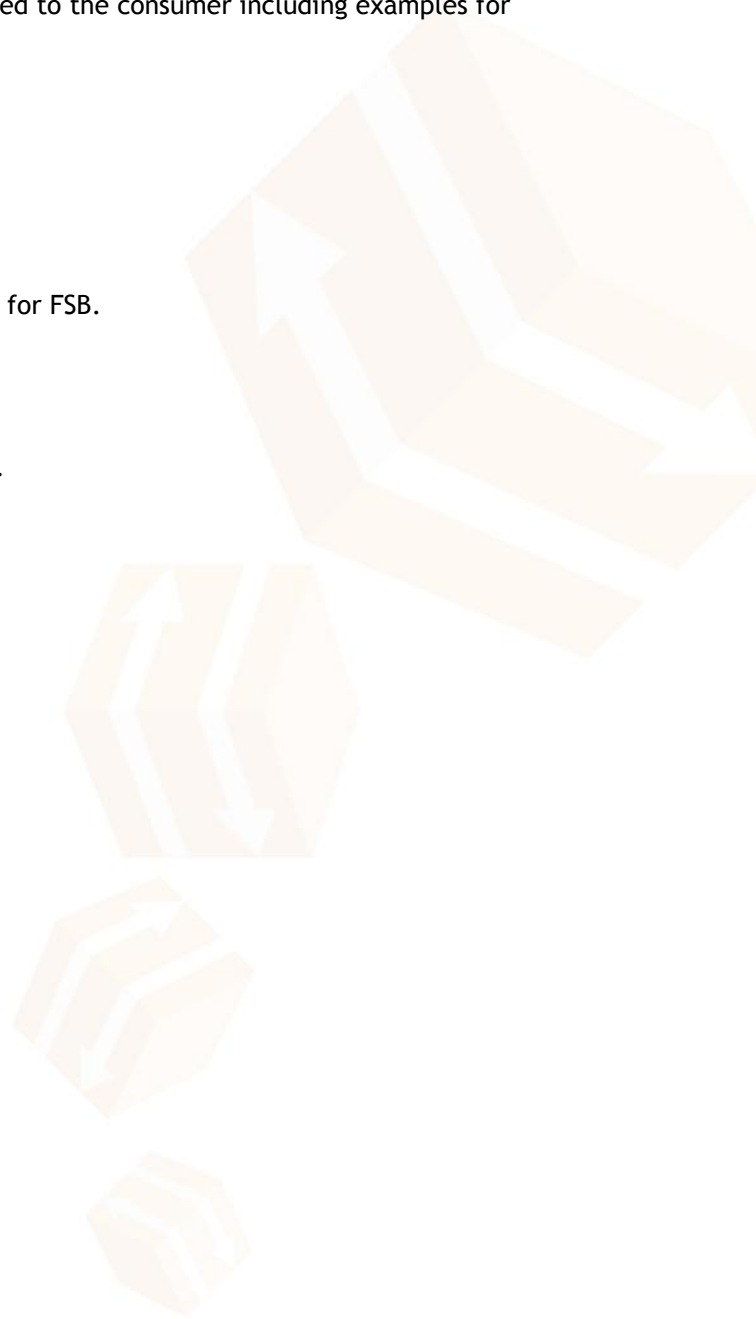
<to be filled in>

## 1.4. ERROR AND WARNING CODES

The chapter describes the common error and warning codes for FSB.

### 1.4.1. Common runtime codes

The table below contains the list of common runtime codes.



Legend:

C/S Client or Server

This column indicates the source of the error, i.e. the client or the server. In case the server is the root cause, the consumer may resend the message. In case the root cause is the client, resending the message would not affect the response.

R/B Runtime/Business

Indicates whether the error is a business error or a runtime

V/O Predictable /unpredictable

Indicates whether the error was expected or unexpected behaviour

Code	Description	Cause	C/S	V/O
4000	Runtime error of provider	An external service provider returned a SOAP fault that is no business error.	S	V
4010	incorrect provider URI	The URI used to contact a service provider is invalid. This indicates a configuration error.	S	O
4020	Provider not accessible	The service provider cannot be contacted or there is no response back.	S	V
1000	Schema validation fault	The message that the consumer has sent is incorrect and does not validate against the XML schema.	C	V
1001	Incorrect SOAP message	The message that the consumer has sent is not a SOAP message	C	V
1002	Body SOAP message missing	The SOAP message sent to the consumer has no body	C	V
2000	Enrichment Error	While editing the message the consumer has sent, an error has occurred for example adding metadata or packing in a comprehensive XML	S	O
3000	Transformation error	During the transformation of data in the FSB an error has occurred.	S	O
9000	Initialisation error	The initializing of the service, when receiving a consumer message, has failed	S	O
9100	Unexpected error pipeline	An unexpected error occurred in the FSB at the detail level processing.	S	O
9200	Unexpected service error	An unexpected error occurred.	S	O
9300	Security error	A security error occurred. The consumer has not or erroneously signed the message (unknown or expired certificate)	C	V

The table gives an overview of actions depending on the error classification:

C/S V/O Action plan for consumer		
C	V	The consumer has sent an incorrect message. The consumer enhances the message and sends the enhanced message
S	V	The consumer may later try to send the same message, depending on short or long notice.
S	O	The service has a configuration error or a bug. Report the issue, with a copy of the request and response messages and the timestamp when the error occurred. The copy of the request and response are necessary to be able to track a bug; the bug may occur in a rare case.

#### Remarks:

- Currently a more formalized and standardized error framework is under construction. Hereby the fault in the WSDL definition will be used to define business mistakes. The impact on the consumer code will be limited.
- In a future version certain expected runtime errors of the service are defined as a specific fault in the WSDL.
- The prefix "FSB" is currently not implemented, the code is therefore only the last four digits.

## 2. Error handling codes

Part from the standard FSB error handling codes no particular error, business or warning codes have been defined.

## 3. Warning codes

See paragraph 2.

## 4. Mapping codes

The aim of the service is to offer the consumer mappings between countries and their representation codes in a particular business context.

The consumer is capable of deriving mappings out of the responses.

## 5. Business codes

See paragraph 2.



# Appendix

ERROR CODE TRANSLATIONS

REFERENCE DOCUMENTS

BIBLIOGRAPHY

