**

Financial Institutes Interface Service Specification

Blocking

**Atomic Service**

**(EXT-FI-BEA-002-010)**

**Banking Enforcement Automation**

Prepared by : SBM

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**Record of changes**

|  |  |  |  |
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| **Date** | **Version** | **Author** | **Change details** |
| 8 March 2018 | 1.00 | SBM team | Initial version |
| 1 April 2018 | 1.10 | SBM team | Update the internal review comments |
| 2 June 2018 | 1.20 | SBM team | Add some error codes |
| 15 July 2018 | 1.21 | SBM team | Apply business requirements |
| 13 September 2018 | 1.22 | SBM team | * Make CustInfo optional in FIBlockCallBackRq * Add Execution Date Time to FIBlockCallBackRq object * Delete Block Details from FIBlockCallBackRq object * Add Blocks List to FIBlockCallBackRq * Make Shares List and Joint Accounts List optional at FIBlockCallBackRq object   **Add some error codes and status codes** |
| 08 October 2018 | 1.23 | SBM team | * Remove error code E1020028 * Remove Product Users List from FIBlockCallBackRq object * Delete Execution Date Time from FIBlockCallBackRq object |
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| 19 June 2019 | 1.33 | SBM Team | * Change Type[T\_BaseAmt\_PosAmt, T\_BaseAmt] in baselib |

**Distribution List**

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*Approvals can be obtained by e-mails, or document sign-off*

# Introduction

SAMA is automating banking enforcement services and the “Blocking” ("الحجز التنفيذى") is one of the services will be used by the requesting party (MOJ and other government agencies) to request “Blocking” from the financial institutes against the involved party, and this service is one of the services will be automated.

***This document has been issued to meet the requirements mentioned in the following document(s):***

* وثيقة الاجراءات المصرفية لخدمة الحجز التنفيذي V1.7.pdf

## Purpose

The purpose of this document is to describe the interface specifications between SAMA and Financial institutions

Service is explained with the input and output requirements along with exception scenarios of the service.

## Scope

This document defines the **Blocking** and **Blocking** **Call Back** services between SAMA and Financial institutions

## Out of Scope

None

# Service Information

**FI Blocking** and **FI Blocking** **Call Back** services cover the Blocking request on the involved party

## Service Overview

|  |  |
| --- | --- |
| **Service Information** | |
| **Business Categorization** | SAMA Banking Enforcement |
| **Service IDs** | EXT-FI-BEA-002-010 |
| **Service Name** | FI Blocking |
| **Service Call Back Name** | FI Blocking Call Back |
| **Service Category** | Execution Services |
| **Service Sub-Category** | Relationship Management Execution Services |
| **URL/WSDL** | [https://ip:443/bea/ws/ex/fi/block/v\*](https://ip:443/bea/ws/ex/fi/block/v*)  [https://ip:443/bea/ws/ex/fi/blockcallback/v\*](https://ip:443/bea/ws/ex/fi/blockcallback/v*) |
| **Service Type** | Request Response with Synchronous Acknowledgement |
| **Service Protocol** | SOAP/HTTPS (External) |
| **Business Requirements Doc ID(s)** | وثيقة متطلبات الاعمال لخدمات التنفيذ عن العلاقات المصرفية |

## Service Description

**FI Blocking** is a web service implemented by Financial institutions and it is used by SAMA in order to send info about the Involved party.

**FI Blocking** **Call Back** is a web service implemented by SAMA and it is used by Financial institutions in order to send info about the Involved party.

It contains following operations:

* FI Blocking
* FI Blocking Call Back

## Service Context

The service context describes the service providers and service consumers

|  |  |  |  |
| --- | --- | --- | --- |
| **Service Name** | **Protocol** | **Service Provider** | **Service Consumer** |
| **FI Blocking** | **SOAP/HTTPS** | **Banks** | **SAMA** |
| **FI Blocking Call Back** | **SOAP/HTTPS** | **SAMA** | **Banks** |

## Service Operations Organization

Service operation has input and output.

Input and output contains header and body parts., Header part contains technical and common data, while body part contains business data. **each service operation will be in a separate wsdl**

## Service Operations

#### FI Blocking

This operation is used to execute Blocking action in the Financial institutions.

Detailed data about the involved party is given in input parameter which contains XML where involved details are contained.

Financial institution’s system generates the response which is also XML containing all needed data.

Financial institution will call another web services (**FI Blocking Call Back)** which has to be implemented by SAMA once Financial institution executed the Blocking action.

In the case of business validation errors, response XML will contain list of errors (with error code and error message).

#### FI Blocking Call Back

SAMA will expose this service so the Financial institutes will send the required data.

and the confirmation on the request sent by SAMA using **FI Blocking** service

## Service Messages

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | **Message Formats** | | |
| **XML Schema** | ***Name*** | | ***Directory*** | ***Version*** |
| BaseLib.xsd | | /common | 1.31 |
| Header.xsd | | /common | 1.31 |
| ExecutionLib.xsd | | /execution/services | 1.31 |
| FIBlock.xsd | | /execution/services | 1.31 |
| FIBlockLib.xsd | | /execution/services | 1.31 |
| **WSDL file** | FIBlock.wsdl | | /execution/interfaces | 1.31 |
| FIBlockCallback.wsdl | | /execution/interfaces | 1.31 |

|  |  |  |
| --- | --- | --- |
| **ID** | **Message Name** | **Description** |
|  | FIBlockRq | This message represents block request message going from SAMA to Financial institutes |
|  | FIBlockRs | This message represents block response message coming to SAMA from Financial institutes |

|  |  |  |
| --- | --- | --- |
| **ID** | **Message Name** | **Description** |
|  | FIBlockCallBackRq | This message represents request message coming to SAMA from Financial institutes |
|  | FIBlockCallBackRs | This message represents response message going from SAMA to Financial institutes |

## Service Contract

The service contract reference provides the service interfaces for **FI Blocking** & **FI Blocking Call Back** services in the form of WSDL and XSD

#### Service WSDL & XSD

Refer Appendix A for the WSDL and XSD for the request and response objects

## Service Security

Please refer to Security Requirement Document

**2.8.1 Signed Fields**

There are no signed fields for this service.

# Service Details

## FI Blocking

#### FI Blocking Request (FIBlockRq)

Elements for XML message in request object presented in the table below.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Name** | | **Field Type** | **Length** | | **Occurs** | **Mandatory Y**(condition)**, N**(condition)**, S**(options)**, I**(services) | | **Allowed Values** | | **Xpath** | | **Description** |
| *Header* | *Complex* | |  | *1* | | | *Y* | |  | | */RqHdr* |  | |
| *Body* | *Complex* | |  | *1* | | | *Y* | |  | | */Body* |  | |
| *FIBlockRq* | *Complex* | |  | *1* | | | *Y* | |  | | */Body/FIBlockRq* |  | |
| *Requester* | *Complex* | |  | *1* | | | *Y* | | *Type [T\_Rqstr]* | | */Body/FIBlockRq/Rqstr* |  | |
| *Involved Party* | *Complex* | |  | *1* | | | *Y* | | *Type [T\_InvPrty]* | | */Body/FIBlockRq/InvPrty* |  | |
| *Third Party* | *Complex* | |  | *1* | | | *N* | | *Type [T\_ThrdPrty]* | | */Body/FIBlockRq/ThrdPrty* |  | |
| *Block Outline* | *Complex* | |  | *1* | | | *Y* | | *Type [T\_FIBlockOutline]* | | */Body/FIBlockRq/Outline* |  | |
| *Block Decision info* | *Complex* | |  | *1* | | | *Y* | | *Type [T\_BlockDcsnInfo]* | | */Body/FIBlockRq/Outline/DcsnInfo* |  | |
| *Execution Plan* | *Complex* | |  | *1* | | | *Y* | | *Type [T\_ExePlan]* | | */Body/FIBlockRq/Outline/ExePlan* |  | |
| Pending Amount | Numeric | | [1-20] | 1 | | | Y (In override mode) | | Type[T\_BaseAmt] | | /Body/FIBlockRq/Outline/PndngAmt | Not collected amount (looking forward amount) - used in override mode only | |
| *Required Execution Details Info* | *Complex* | |  |  | | | *N* | | *Type [T\_ReqExeInfo]* | | */Body/FIBlockRq/Outline/ReqExeInfo* | *The required details info of targetted products* | |
| *Required Inquiry Info* | *Complex* | |  |  | | | *N* | | *Type [T\_ReqInqInfo]* | | */Body/FIBlockRq/Outline/ReqInqInfo* | *The required inquiry info* | |

#### FI Blocking Response (FIBlockRs)

Elements for XML message in response object presented in the table below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Length** | **Occurs** | **Mandatory Y**(condition)**, N**(condition)**, S**(options)**, I**(services) | **Allowed Values** | **Xpath** | **Description** |
| *Header* | *Complex* |  | *1* | *Y* |  | */RsHdr* |  |
| *Body* | *Complex* |  | *1* | *N* |  | */Body* |  |

## FI Blocking Call Back

#### FI Blocking Call Back Request (FIBlockCallBackRq)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Length** | **Occurs** | **Mandatory Y**(condition)**, N**(condition)**, S**(options)**, I**(services) | **Allowed Values** | **Xpath** | **Description** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Header* | *Complex* |  | *1* | *Y* |  | */RqHdr* |  |
| *Body* | *Complex* |  | *1* | *Y* |  | */Body* |  |
| *FIBlockCallBackRq* | *Complex* |  | *1* | *Y* |  | */Body/FIBlockCallBackRq* |  |
| *Customer Info* | *Complex* |  | *1* | Y(Involved Party is a Customer) | *Type [T\_CustInfo]* | */Body/FIBlockCallBackRq/CustInfo* |  |
| *Block Summary info* | *Complex* |  | *1* | *Y (there is bank relation)* | *Type [T\_FIBlockSmryInfo]* | */Body/FIBlockCallBackRq/SmryInfo* | *Total blocked/transferd amounts by the FI, it equals target amount or less* |
| *Execution Details Info* | *Complex* |  | *1* | *Y("Required Execution Details Info" is requested)* | *Type [T\_ExeDtlsInfo]* | */Body/FIBlockCallBackRq/BlockDtlsInfo* |  |
| *Inquiry Details Info* | *Complex* |  | *1* | *Y("Required Inquiry Info" is requested)* | *Type [T\_InqDtlsInfo]* | */Body/FIBlockCallBackRq/InqDtlsInfo* |  |

#### FI Blocking Call Back Response (FIBlockCallBackRs)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Name** | **Field Type** | **Length** | **Occurs** | **Mandatory Y**(condition)**, N**(condition)**, S**(options)**, I**(services) | **Allowed Values** | **Xpath** | **Description** |
| *Header* | *Complex* |  | *1* | *Y* |  | */RsHdr* |  |
| *Body* | *Complex* |  | *1* | *N* |  | */Body* |  |

## Response Status Code

|  |  |
| --- | --- |
| **Status Code Specifications** | |
| **Status Code** | **Description** |
| S0000000 | Success : The operation done successfully |
| S1000000 | Acknowledgment : The Requesting service is received By B2B Channel |
| S9000003 | Not a customer and added to the Black List |
| S9000006 | Not a customer and the specified Account is not Exist |
| S9000007 | Warning: Known Customer and the action taken on the specified Account and this Account does not belong to the specified Involved Party (Customer) |
| S9000008 | Warning: Known Customer and no action taken because the specified Account is not Exist |
| S9000009 | Warning: Unknown Customer and the action is taken the specified Account |
| **Comments** | For Failed Operation, please refer to Error Code in details for each service |

## Error Code & Messages

|  |  |
| --- | --- |
| **Error Code** | **Error Description** |
| E9810000 | Mismatched public/private key pair |
| E9810001 | No keys, ssl keys, or certificates specified |
| E9810002 | DN and partner id mismatch |
| E9810003 | Invalid Partner Id |
| E9810004 | Need to capture proper location) --Schema Validation Error) |
| E9810005 | Authorization failure |
| E9999999 | Fatal Error |
| E1010004 | Invalid Customer Info Data |
| E1010005 | Invalid Execution Date Time |
| E1010006 | Missing Summary Info |
| E1010007 | Invalid Summary Info Existence |
| E1010008 | Invalid Exchange Rate |
| E1010009 | Missing Blocked Accounts Details |
| E1010010 | Invalid Block List Size |
| E1010011 | Invalid Blocked Account |
| E1010012 | Total Amount in Summary Totals Info not Matching the Pervious Reply |
| E1010013 | Account Source Amount not equal Account Blocked Amount |
| E1010014 | Not Authorized to Block this Product |
| E1010015 | Joint Accounts not Requested |
| E1010016 | Joint Deposit not Requested |
| E1010017 | Shares not Requested |
| E1010018 | Blocked Deposit Details not Requested |
| E1010019 | Blocked Safes Details not Requested |
| E1010020 | Invalid Has Deposits Value in Execution Summary info |
| E1010021 | Invalid Has Safe Boxes Value in Execution Summary info |
| E1010022 | Invalid Has Joint Account Value in Execution Summary info |
| E1010023 | Invalid Has Joint Deposits Value in Execution Summary info |
| E1010024 | Missing Blocked Deposit Details |
| E1010025 | Missing Joint Deposit List |
| E1010026 | Missing Blocked Safes Details |
| E1010027 | Missing Joint Account List |
| E1010028 | Missing Shares List |
| E1010029 | Blocked Accounts Details not Requested |
| E1010031 | Amounts in Totals Info should be Zero |
| E1010032 | Total Amount more than Target Amount |
| E1010033 | Missing Deposit Summary Info |
| E1010034 | Invalid Deposit Summary Info Existence |
| E1010035 | Missing Safes Summary Info |
| E1010036 | Invalid Safes Summary Info Existence |
| E1020006 | Invalid Account Number |
| E1020007 | Invalid/Missing IBAN |
| E1020012 | Invalid Partner Id |
| E1020015 | Duplicated Message ID |
| E1020024 | Invalid Status |
| E1020025 | Invalid CRN |
| E1020026 | Invalid SRN |
| E1020037 | Invalid / Missing Currency |
| E1020040 | Invalid Product User Id Type |
| E1020045 | Total Amount [Totals >TotAmt] less than Amount in Requested Currency [Totals >AmtRqCur] |
| E1020046 | Total Amount [Totals >TotAmt] not Equal to the Sum of the Blocked Amount [BlockAmt] from all Accounts |
| E1020047 | Duplicated Account Number/IBAN |
| E1020048 | Duplicated Deposit Number |
| E1020050 | Invalid Product User Count |
| E1020051 | Invalid Product User Info |
| E1020063 | Owner does not Exist in Product User List |

# Appendices

## Appendix A: Codes

Please refer to List of values (LOVs) Document

## Appendix B: Glossary

|  |  |
| --- | --- |
| **Abbreviation** | **Expansion** |
| HTTPS | Hyper Text Transfer Protocol Secure |
| SAMA | Saudi Arabian Monetary Agency |
| MOJ | Ministry of justice |
| WS | Web Services |
| SOA | Service Oriented Architecture |
| SOAP | Simple Object Access Protocol |
| WSDL | Web Service Description Language |
| XML | Extensible Mark-up Language |
| XSD | Xml Schema Definition |
| MQ | Message Queue |

## Appendix C: Mandatory Fields Description

|  |  |
| --- | --- |
| **Description** | Char |
| This element is required in all cases. | Y |
| This element is required only in the case of the condition satisfied, otherwise it shouldn't be sent | Y (Condition) |
| This element is optional in all cases | N |
| This element is optional only in the case of the condition satisfied, otherwise it should be sent. | N (Options) |
| Only one element of the options should be come | S (Options) |

## Appendix D: Service Details Color Mapping

|  |  |
| --- | --- |
| **Description** | **Color** |
| Updated Information | Red |
| Deleted Information | Red with strikethrough |