**

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 |
| 30 January 2019 | 1.30 | Mahmoud Gawad | * For specs changes refer to release notes doc * filter the error codes |

**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):***

* Tanfeeth Execution Services Procedures and Definition wave2 v1.5.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** | 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 | 1.30 |
| Header.xsd | | /common | 1.30 |
| ExecutionLib.xsd | | /execution/services | 1.30 |
| FIBlock.xsd | | /execution/services | 1.30 |
| FIBlockLib.xsd | | /execution/services | 1.30 |
| **WSDL file** | FIBlock.wsdl | | /execution/interfaces | 1.30 |
| FIBlockCallback.wsdl | | /execution/interfaces | 1.30 |

|  |  |  |
| --- | --- | --- |
| **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* | *N (Involved Party is Not 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* |  |
| *B*~~locks List~~ | *Complex* |  | *1* | *Y (*~~Insufficient Amount collected i.e. {In override mode & Block Summary Info [Pending Amount] > [0 or not null] } )~~ | *Type [T\_ExeBlocksList]* | */Bod*~~y/FIBlockCallBackRq/BlocksList~~ | ~~the block info for each account has been booke~~d |
| *S*~~hares List~~ | *Complex* |  | *1* | *Y (*~~Insufficient Amount collected i.e. {In override mode & Block Summary Info [Pending Amount] > [0 or not null] } )~~ | *Type [T\_ShrsList]* | */Bod*~~y/FIBlockCallBackRq/ShrsList~~ | *If* ~~person is a stakeholder in some companies, the company name has to be returned in the response~~ |
| *J*~~oint Accounts List~~ | *Complex* |  | *1* | *Y (*~~Insufficient Amount collected i.e. {In override mode & Block Summary Info [Pending Amount] > [0 or not null] } )~~ | *Type [T\_JntAcctsList]* | */B*~~ody/FIBlockCallBackRq/JntAcctsList~~ | *The* ~~list of joint accounts~~ |

#### 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 |
| S1100000 | Acknowledgment : The requesting service is received By Portal Channel |
| S1200000 | Acknowledgment : The requesting service is received By Portal Channel After B2B Calling Failure |
| S2000000 | No Data Found |
| S9000000 | Warning : The version of the service will be deprecated |
| S9000001 | No Bank Relation |
| S9000002 | Not a customer |
| S9000003 | Not a customer and added to the Black List |
| S9000004 | Warning: There is increasement in the available blocked amount |
| S9000005 | Warning: No action taken because the specified account is not exist |
| 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 Involoved 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 |
| S9999999 | No Bank Response |
| E9000001 | Message Not delivered to the partner |
| **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 |
| E1010001 | Invalid Share List |
| E1010004 | Invalid Customer Info data |
| E1010005 | Invalid Execution Date |
| E1010006 | Invalid Total SrcAmt |
| E1010007 | Invalid Total BlockedAmt |
| E1010008 | Invalid Fix Rate |
| E1010009 | BlockList not exist |
| E1010010 | Invalid BlockList Count |
| E1010011 | Invalid Blocked Account |
| E1010012 | Invalid Summary TotAmt |
| E1010013 | Total BlockedAmt Mismatch Summary TotAmt |
| E1010014 | Not authorized to block/garnish this product |
| E1020007 | Invalid/Missing Invalid IBAN |
| E1020012 | Invalid Partner Id |
| E1020015 | Duplicated Message ID |
| E1020024 | Invalid Status |
| E1020025 | Invalid CRN |
| E1020026 | Invalid SRN |
| E1020040 | Invalid Product User Id Type |
| E1020050 | Invalid Product User Count |
| E1020051 | Invalid Product User Info |
| E1020063 | Owner does not exist in product user list |

# Appendices

## Appendix B: Codes

Please refer to List of values (LOVs) Document

## Appendix D: 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 |