**

Partner Interface Service Specification

Message Header

**(WATHEEQ Message Header)**

**Banking Enforcement Automation**

Prepared by: SBM

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**Record of changes**

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| **Date** | **Version** | **Author** | **Change details** |
| 24 December 2017 | 0.1 | SBM team | * Initial draft |
| 25 December 2017 | 1.0 | SBM team |  |
| 15 January 2018 | 1.2 | Mohamed Elsayed |  |
| 29 January 2018 | 1.3 | Ahmed Makram | * Adding IP Address element * Remove Message Header folder from XSD folder structure and files |
| 11 February 2018 | 1.4 | Ahmed Makram | * add status in rqHdr * add Partner ID RsHdr * change name of IPAddress in rqHdr * change Correlation Reference Number in rqHdr to be mandatory * add Service Request Number in rqHdr and rsHdr * remove the Message UID from the rqHdr * Adding Acknowledgment code and queued removed in status list |
| 1 March 2018 | 1.41 | Ahmed Nasreldin | * CRN will be mandatory in RsHdr and optional in RqHdr * Change IPAdrs pattern |
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| 12 July 2018 | 1.46 | Mahmoud Gawad | * Add More Info to both headers * Add sama note to header request |
| 11 December 2018 | 1.50 | Mahmoud Gawad | * For specs changes refer to release notes doc |
| 14 February 2019 | 1.52 | Mahmoud Gawad | * For specs changes refer to release notes doc |

**Distribution List**

|  |  |
| --- | --- |
| **MOJ** |  |
| **SAMA UAT/Testing** |  |
| **Solution Delivery** |  |
| **Project Sponsor** |  |
| **Project Manager** |  |
| **Architecture Solution Unit** |  |

**Approvals List**

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| **Name** | **Role** | **Signature** | **Date** |
|  | SAMA Architecture Representative |  | Date of Approval |
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|  |  |  |  |

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

# Introduction

SAMA is implementing integration platform (“WATHEEQ”) to serve MOJ and other government agencies.

## Purpose

The purpose of this document is to describe the **Message Header** specifications that is used in all services exchanging between SAMA and external entities

## Scope

This document defines the **Message Header** elements and elements attributes for request and response that used in all services exposed by SAMA, and external entities (Government agencies, Financial institutions)

## Out of Scope

This document does not cover a specific service interface specification

# Message Header Information

|  |  |  |  |
| --- | --- | --- | --- |
| **Message Formats** | | | |
| **File** | ***Name*** | ***Directory*** | ***Version*** |
| **XML Schema** | BaseLib.xsd | /common | 1.50 |
| Header.xsd | /common | 1.52 |
| **WSDL** | N/A | N/A | N/A |

|  |  |  |
| --- | --- | --- |
| **ID** | **Message Name** | **Description** |
|  | RqHdr | This message represents message header in request from service consumer perspective |
|  | RsHdr | This message represents message header in response from service consumer perspective |

# Message Header Details

## Request Header (RqHdr)

Elements for XML message in header request 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* |  |  |  |  | */RqHdr* | *Request Header Common for all requesting parties* |
| Partner ID | Text | 5 | 1 | Y | LOV(Parnters, Appendix :B) | /RqHdr/PID | Partner Identity |
| Status | Text | 8 | 1 | Y (Call Back Services) | format (mxxxxxxx) m: mode ( S : Success, E: Fail) xxxxxxx: Message Code | /RqHdr/Status | Message status S0000000: Success  S9xxxxxx: Warning Exxxxxxx: Failed |
| System | Text | [1-20] | 1 | Y (for SAMA internal systems) | (GOV Portal, FI Portal, … etc) | /RqHdr/Sys | This is used to identify the system who initiated the request (Service consumer identifier) |
| Message Timestamp | Text | 19 | 1 | Y | format (YYYY-MM-DDTHH:MM:SS) | /RqHdr/MsgDtTm | Time when the Message is initiated from the source (Request message creation time) |
| Channel ID | Text | [1-8] | 1 | Y | (B2B, Portal, … etc) | /RqHdr/ChID | Code used to determine the channel |
| Message UID | Text | [5-50] | 1 | Y | Any | /RqHdr/MsgUID | This will be a universal message identifier from the source, which will be used for duplicate elimination |
| Confidentiality | Text | 1 | 1 | N | 0: Normal (Default)  1: Confidential | /RqHdr/Cnfd | The requesting party classification of the request regarding confidentiality level |
| Mode | Text | [1-2] | 1 | Y (in Retry & Reversal case) | 0: Normal request (Default)  1..3: Repeated Retry request -1..-3: Reversal Retry Request (Service Dependent) , … etc | /RqHdr/Mod | Number is used to identify the number of trial calls from the source, Reversal options are identified in the service |
| Correlation Reference Number | Text | [5-50] | 1 | Y (In case of call back request ) | Any | /RqHdr/CRN | Which contains the MsgUID of the original request message , It is used for the Callback request messages |
| Overrided Message UID | Text | [5-50] | 1 | N | Any | /RqHdr/OvrdMsgUID | Which contains the MsgUID of the original message which required to be overrided. Override means reverse the original message and used the current message instead |
| Service Request Number | Text | [5-50] | 1 | N(Requesting Party is consumer) | format (pppYYYYMMDDsssxxxxxx) ppp: Partner Id YYYYMMDD: date sss: Service Code xxxxxx: Partner/Daily sequence | /RqHdr/SRN | SAMA creates this code. Tracking reference between Partners of each RP **"Service Request"** . In of case of FI, it is used to link many requests together; for example if one service requested by RP and needs more than one service with FI, this code will correlate them |
| Classification | Text | [1-10] | 1 | N | LOV( Classifications, Appendix: B) | /RqHdr/Clsf | SAMA request classification for assignment of the request to a proper bank role. |
| Previous Hash | Text | 128 | 1 | N | Any | /RqHdr/pHash | Bloch Chain Enablement (Future use) |
| IP Address | Text | 15 | 1 | N | format(xxx.xxx.xxx.xxx) | /RqHdr/IPAdrs | IP address of the service consumer system |
| SAMA Note | Text | [10-250] | 1 | N | Any | /RqHdr/Note | The note which SAMA need to shared with the partners |
| *More Info* | *Complex* |  | *1* | *N* | *Type[T\_Attributes]* | */RqHdr/Info* | *To add more information to the message* |

## Response Header (RsHdr)

Elements for XML message in header response 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* |  |  | */RsHdr* | *Response Header Common for all requesting parties' responses* |
| Partner ID | Text | 5 | 1 | Y | LOV(Parnters, Appendix :B) | /RsHdr/PID | Partner Identity (which is in the request message) |
| Status | Text | 8 | 1 | Y | format (mxxxxxxx) m: mode ( S : Success, E: Fail) xxxxxxx: Message Code | /RsHdr/Status | Message status S0000000: Success  S1000000: Acknowledgment (By B2B) S1100000: Acknowledgment (By Portal) S1100000: Acknowledgment (By Portal After B2B sending failure) S9xxxxxx: Warning Exxxxxxx: Failed |
| Message Timestamp | Text | 19 | 1 | Y | format (YYYY-MM-DDTHH:MM:SS) | /RsHdr/MsgDtTm | Time when the Message is initiated from the source (Response message creation time) |
| Correlation Reference Number | Text | [5-50] | 1 | Y (In case of async requests) | N/A | /RsHdr/CRN | It is used for the Callback messages , which contains the MsgUID of the message  i.e. CRN=MsgUID |
| Service Request Number | Text | [5-50] | 1 | N | format (pppYYYYMMDDsssxxxxxx) ppp: Partner Id YYYYMMDD: date sss: Service Code xxxxxx: Partner/Daily sequence | /RsHdr/SRN | SAMA creates this code. Tracking reference between Partners of each RP **"Service Request"** . In of case of FI, it is used to link many requests together; for example if one service requested by RP and needs more than one service with FI, this code will correlate them |
| *More Info* | *Complex* |  | *1* | *N* | *Type[T\_Attributes]* | */RsHdr/Info* | *To add more information to the message* |

## 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 |
| 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 |

# Appendices

## Appendix A: 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 B: Codes

Please refer to List of values (LOVs) Document