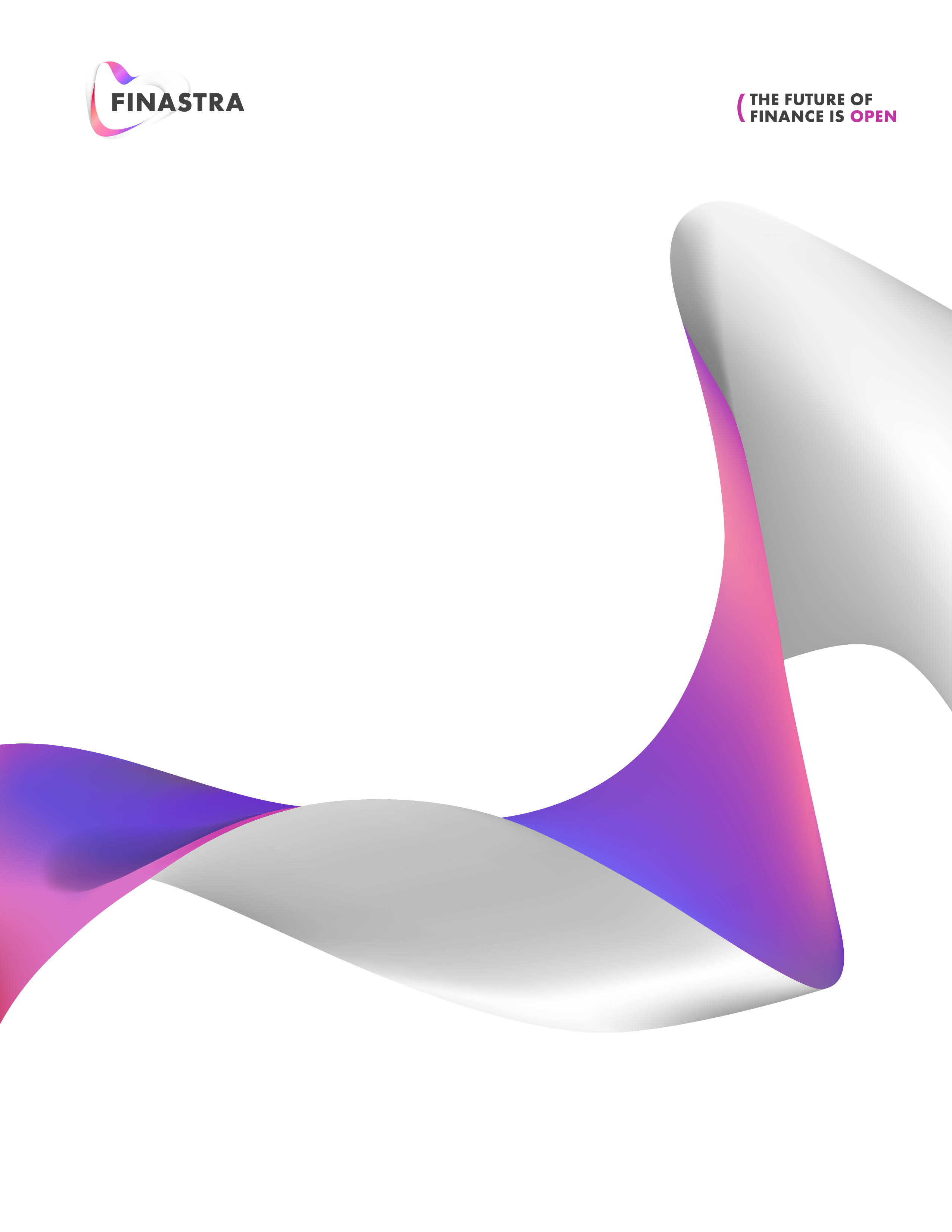


|  |
| --- |
| Satish Golla  July 18, 2021 |



|  |
| --- |
| Fusion Banking Loan IQ |
| Fusion Loan IQ – Funding Rates Interface Specification Document V1.0 |
|  |

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# Preface

## Document information

This document is one of the deliverables of the GIB – LIQ Implementation project of Finastra & PS Global Technologies FZCO (PS Global).

The purpose of this document is to specify the details related to Account Balance Check Validation

This document will also list down all the assumptions that have been considered for the development of the solution.

The following table provides general information on the document:

|  |  |
| --- | --- |
| Document information | |
| Author | Shashi Jakka |
| Project | GIB - Loan IQ Project Implementation |
| Document name | 1.1 |
| Applicability | Finastra, GIB and Internal |
| Released by | PS Global |

Table 1: Document Information

## Version History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Author | Date | Description of change |
| 1.0 | Shashi Jakka | 15.07.2021 | Initial Draft |
|  |  |  |  |
|  |  |  |  |

Table 2: Version History

## Key Contacts

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Business/Technical | Email | Phone |
| Sudhakar Vemuri | Finastra PSA | [Sudhakar.vemuri@psglobal.ae](mailto:Sudhakar.vemuri@psglobal.ae) ,[sudhakar.vemuri@finastra.com](mailto:sudhakar.vemuri@finastra.com) | +971 56 603 1201 |
| Moussa Abboud | Finastra Project Manager | [moussa.abboud@finastra.com](mailto:moussa.abboud@finastra.com) | +971 56 994 9419 |
| Satish Golla | Finastra Senior Business Consultant | [Satish.golla@psglobal.ae](mailto:Satish.golla@psglobal.ae) | +971 52 394 4109 |
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| Shashi Jakka | PS Global Technical Consultant | [shash.jakka@psglobal.ae](mailto:shash.jakka@psglobal.ae) | +91 9533160014 |

Table 3: Key Contacts

## Document Sign-off

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Role | Date | Signature |
|  | <Client Business> |  |  |
|  | <Finastra Build Team> |  |  |
|  |  |  |  |
|  |  |  |  |

Table 4: Document Signoff

## Review and Changes

This document must be reviewed by Business Analysts, Developers, Product Managers, and IT staff to make sure that bank’s requirements are met and flow between the systems is understood. Below table shows the list of all the stakeholders responsible for the review of this document.

|  |  |  |
| --- | --- | --- |
| Review team member | Department | Role / Function |
|  |  |  |
|  |  |  |
|  |  |  |

Table 5: Review Teams

## Glossary

|  |  |
| --- | --- |
| Abbreviation | Definition |
| BO | Business Object |
|  |  |
| Loan IQ | Fusion Loan IQ |
| N/A | Not Applicable |
|  |  |

Table 6: Glossary

# Introduction

## Scope of Document

Scope of this document is to describe the solution and specification for the Account Balance Check required to process any type of payment in LoanIQ

This document is relevant for those who:

* Are part of Finastra delivery team for Loan IQ
* Bank’s business & IT teams
* PS Global Business Analysts and Developers

## Functional Requirement

There are different type of payments in LoanIQ , that are need to validated before releasing,  
For any type of payment of at the time of approval , should make a webservice call to the borrowers bank, to check the amount available in the account is sufficient to make the payment.  
If the borrower account doesn’t have enough balance ,then the payment should be declined effectively.

### In Scope

### Out of Scope

# Interface Solution

A trigger will be configured for the Payment Transaction that will be fired, whenever a particular payment related cashflows are sent to approval , we’ll perform the validation , on given details by making webservice call. From the response we’ll check for the amount available in the account , then we’ll compere the requested amount and available amount , and return the result of it , based on result we’ll allow further, else throw the hard error by showing the error message

## Solution in steps

* Write Java Solutions that is required to perform validation
* Create Jar file of that solution and put into LoanIQ – SDK-Post Folder
* Create New Xquery Artifact that contains fully qualified Class Name of the solution
* Create Event management trigger with payment as Object
* Select Event type as transaction event and sent to approval as event Name
* In the output function select your Xquery that contains class Name of Java Solution
* Select the Execution type as Internal Validation.

🡪Below is the steps-by-step pseudo code for the Payment Validations

1. Setup the business event triggers with action as “Internal Validation” for the below transactions
   1. Loan Principal Payment
   2. Loan Accural Cycle Payment.
2. When an event has been created in Loan IQ and after entering all the details, user will try to complete the workflow “Send to Approval”. At this point, triggers will be fired and do the validation. Validation pseudocode as below
   1. Identify the business object of the transaction
   2. Get the cashflows of the transaction
   3. Using cashflows get the borrowers bank account details
   4. Make a Web Service call to borrower bank
   5. Check the available amount in the balance from the response
   6. Compare the value of requested amount and available balance
   7. If Requested amount is greater than the available balance ,throw error

“Insufficient funds, Please Stop the transaction + Available balance ”

* 1. Else

Continue the transaction without any payment Error

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Object Type | Object Sub-type | Event Type | Event Name | Execution Type | Query Function |
| Outstanding Transaction (OTR) | Loan Principal Payment (PPPMT) | Transaction Event (TRE) | Sent to Approval (STA) | Internal Validation | liq.xq.em.evo.BalanceCheckValidation |

## Loan IQ WSCall Request and Response Sample

Request from Loan IQ should be sent in the format as below (This is based on the current version available).

### Request

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:tem="http://tempuri.org/" xmlns:gib="http://schemas.datacontract.org/2004/07/GIB.IAL.Account" xmlns:gib1="http://schemas.datacontract.org/2004/07/GIB.IAL.Framework.Message.Header">

<soapenv:Header/>

<soapenv:Body>

<tem:BalanceInquiry>

<!--Optional:-->

<tem:request>

<!--Optional:-->

<gib:Account>?</gib:Account>

<gib:Branch>?</gib:Branch>

<!--Optional:-->

<gib:CardNo>?</gib:CardNo>

<gib:MessageHeader>

<gib1:IALGUID>?</gib1:IALGUID>

<!--Optional:-->

<gib1:LanguageCode>?</gib1:LanguageCode>

<gib1:MsgADUserName>?</gib1:MsgADUserName>

<!--Optional:-->

<gib1:MsgADUserPassword>?</gib1:MsgADUserPassword>

<gib1:MsgDateTime>?</gib1:MsgDateTime>

<!--Optional:-->

<gib1:MsgIdentifier>?</gib1:MsgIdentifier>

<!--Optional:-->

<gib1:MsgKey>?</gib1:MsgKey>

<!--Optional:-->

<gib1:MsgProcCode>?</gib1:MsgProcCode>

<gib1:MsgSourceChannelID>?</gib1:MsgSourceChannelID>

<gib1:MsgSourceEnv>?</gib1:MsgSourceEnv>

<!--Optional:-->

<gib1:ParentLogId>?</gib1:ParentLogId>

</gib:MessageHeader>

</tem:request>

</tem:BalanceInquiry>

</soapenv:Body>

</soapenv:Envelope>

### Response

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:tem="http://tempuri.org/" xmlns:gib="http://schemas.datacontract.org/2004/07/GIB.IAL.Account" xmlns:gib1="http://schemas.datacontract.org/2004/07/GIB.IAL.Framework.Message.Header">

<soapenv:Header/>

<soapenv:Body>

<tem:BalanceInquiryResponse>

<!--Optional:-->

<tem:BalanceInquiryResult>

<!--Optional:-->

<gib:Balances>

<!--Zero or more repetitions:-->

<gib:AccountBalanceDetails>

<!--Optional:-->

<gib:Account>?</gib:Account>

<!--Optional:-->

<gib:AvailableBalanceInAccountCurrency>?</gib:AvailableBalanceInAccountCurrency>

<!--Optional:-->

<gib:AvailableBalanceInLocalCurrency>?</gib:AvailableBalanceInLocalCurrency>

<!--Optional:-->

<gib:Currency>?</gib:Currency>

</gib:AccountBalanceDetails>

</gib:Balances>

<gib:MessageHeader>

<!--Optional:-->

<gib1:ErrorCode>?</gib1:ErrorCode>

<!--Optional:-->

<gib1:ErrorCodeNative>?</gib1:ErrorCodeNative>

<!--Optional:-->

<gib1:ErrorDescription>?</gib1:ErrorDescription>

<!--Optional:-->

<gib1:ErrorDescriptionNative>?</gib1:ErrorDescriptionNative>

<gib1:IALGUID>?</gib1:IALGUID>

<gib1:IsSucess>?</gib1:IsSucess>

<gib1:MsgIdentifier>?</gib1:MsgIdentifier>

<!--Optional:-->

<gib1:MsgProcessOnServer>?</gib1:MsgProcessOnServer>

<!--Optional:-->

<gib1:MsgStage>?</gib1:MsgStage>

<!--Optional:-->

<gib1:System>?</gib1:System>

</gib:MessageHeader>

</tem:BalanceInquiryResult>

</tem:BalanceInquiryResponse>

</soapenv:Body>

</soapenv:Envelope>

## Assumptions

* There will not be any change in Soap Request and Response format during the project.

# Dependency

# Referenced Documents

The following table contains links to referenced documents.

|  |  |  |
| --- | --- | --- |
| No. | Referenced Document | Link |
| 1 |  |  |
| 2 |  |  |

Table 8: Referenced Documents

# Appendices

|  |  |  |
| --- | --- | --- |
| No. | Appendix | Link |
| 1 | *Appendix* |  |
| 2 |  |  |

Table 9: Appendices

# Open Issues

*Open issues are relevant if draft versions are published. Open issues will be tracked outside of this document and should be solved by final release of the document.*

|  |  |
| --- | --- |
| No. | Description |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |

Table 10: Open Issues



|  |  |
| --- | --- |
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