

SHOWFLOW

Integration Team

2019



HERZLIYA HACKATHON



Payment Flow Visualization











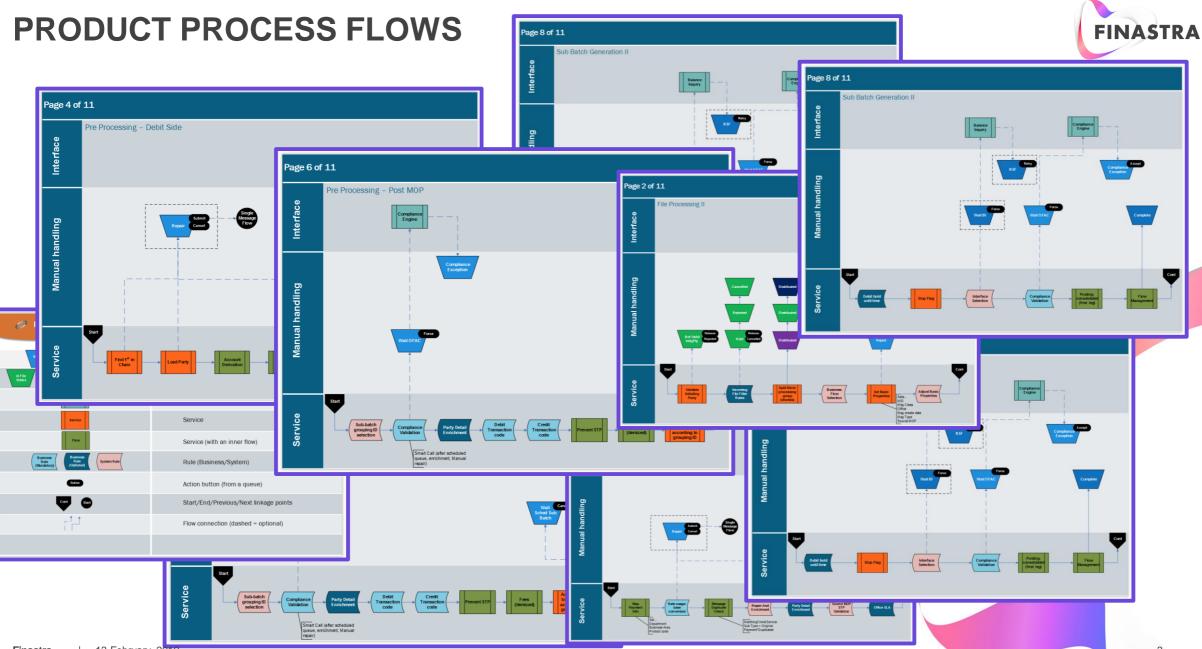
Follow

PROBLEM DESCRIPTION

IDEA DESCRIPTION

Create a visual flow that presents the flow that a payment had undergone, this can be either used for the generic flows (i.e. without a payment, for documentation or representation) or the actual flow that specific payment had underwent (e.g. in investigation mode)





SPRING GPP PAYMENT FLOWS



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bean lazy-init="true" class="backend.paymentprocess.flow.core.coordinator.GPPFlow" id="mapPaymentInfoHVSubFlow" scope="prototype
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         property name="flowSteps">
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Finastra | 13 February 2019

GPP SERVER LOGS



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   swif:Data xsi:type="swif:Data_103">
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     <swif:Message_Priority>NORM</swif:Message_Priority>
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       <swif:Currency>GBP</swif:Currency>
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       <swif:Amount>222.00</swi
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2018-06-28 12:04:57.216 DEBUG THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelectorService_IA6SC0453J540106 IA6SC0453JM40107
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     <swif:F50a>
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       <swif:PartyName>DE CUSTO
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                                                           <swif:Sender s Reference>INTERFACE1</swif:Sender s Reference>
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       <swif:PartyInfo>
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          <swif:Account>12345678
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ProcessPDOCacheEntryRemovalHandler: Payment IA6SC04533M40107 was either New[false], Readonly[false] or Context-Local/Unsaved[true] and hence will not be
                                                           <swif:Amount>222.00</swif:Amount>
<swif:Date>2018-05-25</swif:Date>
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     <swif:Cdrt_F58a_F59a>
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          <swif:PartvName>LLOYDS
                                                            <swif:PartyName>DE CUSTOMER</swif:PartyName</pre>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   2018-06-28 12:04:57.238 INFO THREAD-440 IndexLastResource
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PDO Set field MSG_TYPE_SUB_TYPE from value [] to value [SWIFT_103]
       </swif:Cdtr
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                                                              <swif:Account>12345678</swif:Account>
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       cswif:CdtrAcct>
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          <swif:Account>10010202
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       </swif:CdtrAcct>
                                                           <swif:Cdrt F58a F59a
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     <swif:F71A>
                                                              <swif:PartyName>LLOYDS CUSTOMER</swif:PartyName>
                                                                                                                                                                                                                                                                                            462,CorrelationID=null,ReplyTo=null,Redelivered=false,Type=null],PropertyNames=[JMS_IBM
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       <swif:Code>SHAR</swif:Co
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DUAL WHERE :P_MSG_TYP
                                                              <swif:Account>10010202</swif:Account</pre>
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'***^145^CRDT_ADDTIO
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2018-06-28 12:04:57.250 DEBUG THREAD-467 SERVICE-[MDP GTX_CHAPS
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                                                                                                                                                                                                                                                                                                                                                                                                             (swif:Data xsi:type="swif:Data 103">
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      281[]MS_TBM_PutTime=085229241[
 IL_ORIG_MSG_
                                                                                                                                                                                                                                                                                            correlation ID : null, JMS message redelivered : false
                         </xml-fragment</pre>
                                                            <swif:Code>SHAR</swif:Code>
                                                                                                                                                                                                                                                                                            2018-06-28 12:04:57.251 DEBUG THREAD-467 SERVICE-[MDP GTX CHAPS
                                                                                                                                                                                                                                                                                                                                                                                                                 <swif:Sender s Reference>INTERFACE1</swif:Sender s Reference>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ndtMessageListenerAdapter: JMS
                                                                                                                                                                                               </swif:Header</pre>
                                                                                                                                                                                                                                                                                           BarePayloadMessagesGateway for Interface 'GTX_CHAPS_IN', Conver
[{1:F01L0YDGB2LAXXX8812705271}{2:01030727100111BARCGB22ATRD5969
 <com:XMLPe
                        2018-06-28 12:04
                                                       </swif:Data>
    <com·D D
                                                                                                                                                                                               <swif:Data xsi:tyne="swif:Dat</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ndtMessageListenerAdapter: JMS
                                                                                                                                                                                                                                                                                            3:{103:STG}{108:001086CB0366809}
    <com:D BU
                                                                                                                                              XML ORIG MSG EXTN=
                                                                                                                                                                                                 <swif:Message Priority>NOR
                        2018-06-28 12:04
                                                    KML ORIG MSG EXTN:
                                                                                                                                                                                                  <swif:F20>
  </com:XMLPe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AbstractGateway
                                                                                                                                                                                                                                                                                                                                                                                                                 <swif:Date>2018-05-25</swif:Date>
                                                    cxml-fragment xmlns:com="http://fundtech.com/SCL/CommonTypes";
                                                                                                                                                                                                                                                                                           :20:GBMCMT103001
/xml-fragme
                                                                                                                                                                                                    <swif:Sender s Reference</pre>
                        2018-06-28 12:0
                                                                                                                                                                                                                                                           MULTI PARTY REC ..
                                                                                                                                                                                                                                                        <com:XMLPersistentInfo</pre>
                                                                                                                                                                                                 </swif:F20>
                        SpringTransactio
                                                          <com:D_DEBULKED_MSG>false</com:D_DEBULKED_MSG>
                                                                                                                                                                                                                                                                                                                                                                                                               <swif:F50a>
                                                                                                                                                                                                                                                                                                                                                                                                                 <swif:PartvName>DE CUSTOMER</swif:PartvName</pre>
                                                          <com:D_BULK_MSG>false</com:D_BULK_MSG>
                        2018-06-28 12:0/
                                                                                                                                                                                                                                                        _DB_CDB_STS='X', ##COMPARE_STRING(.*)##-0, ##COMPARE_STRING(.*)##-0, X_CDTR_AGT_CLR_SYS_CD='', F_ME
#=false, ##IN_LISY(.*)##=false, ##IN_LISY(.*)##=false, ##IN_LISY(.*)##-false, F_OFFICE_CLR_SYS_CD=''
                                                       </com:XMLPersistentInfo>
018-06-28 12
                                                                                                                                                                                                                                                                                                                                                                                                                    <swif:Account>12345678</swif:Account
                                                                                                                                                                                                                                                     ##NCC_BELONGS_TO_LOCAL_OFFICE(.*)##=false, D_PRODUCT_OFFERING='', P_TRX_DIRECTION='I', P_STTLM_CCY-'6
##=0, ##CUMPARE_STRING(.*)##=0, ##IS_DMPTY(.*)##=true|
2013-06-28 IZ_04:57_470 DEBIO_THERD-0467_SERVICE_[PMP GTX_CMAPS_IN]_BusinessFlowGelectorService_IAGSC
                       2018-06-28 12:04
                                                                                                                                                                                                     <swif:Date>2018-05-25</
                                                                                                                                                                                                 </swif:F32A>
018-06-28 12 LenientDefaultMe
                                                    2018-06-28 12:04:57.214 INFO THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelec
                                                                                                                                                                                                                                                                                                                                                                                                               </swif:F50a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      apeci. Jij
                       added 1 payment: DAS : [DAS.batchSave()] - END
2018-06-28 12:04 2018-06-28 12:04:57.214 INFO THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelec
                                                                                                                                                                                                   <swif:F50a>
                                                                                                                                                                                                                                                          uleExecution : [BORuleExecution.executeRule()]: Rule execution results Completion Code: N
"1467MP_SET_P_R_MSG_INDEX, Sec. Action: 0, RuleUID: ***-1457MP_SET_P_R_MSG_INDEX, RuleTypeId: 145,
"1467MP_RMSG_INDEX_103, Sec. Action: 0, RuleUID: ***-1457MP_RMSG_INDEX_103, RuleTypeId: 145, Obj
enientDefaul
                                                                                                                                                                                                     <swif:PartvName>DE CUSTO
                                                                                                                                                                                                                                                                                                                                                                                                                    <swif:PartyName>LLOYDS CUSTOMER</swif:PartyName>
                                                                                                                                                                                                     <swif:PartvInfo>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rter: JMS msg
                                                   2018-06-28 12:04:57,215 DEBUG THREAD-467 SERVICE-[MDP GTX CHAPS IN] BusinessFlowSele
                                                                                                                                                                                                                                                       s STOP, then aborting (Stop result excluded)
1018-06-28 12:04:57.470 INFO THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelectorSer
                                                                                                                                                                                                       <swif:Account>12345678
                        context pades for 2018-06-28 I/O pring framesctionProxy : ignoring commit from executebus inessFlowing-10099075580 ProcessPDOCache denote the content of the
                                                                                                                                                                                                                                                                                                                                                                                                                 <swif:CdtrAcct>
                                                                                                                                                                                                     </swif:PartvInfo>
                                                                                                                                                                                                                                                                                                                                                                                                                    <swif:Account>10010202</swif:Account>
                                                                                                                                                                                                                                                                                         : Manipulation rules list size: 2
                                                                                                                                                                                                   </swif:F50a>
                                                                                                                                                                                                                                                     2018-06-28 12:04:57.470 INFO THREAD-467 SERVICE-[MDP GTX_CHAPS_IN] BusinessFlowSelectorService IA6Si
BOMessageHandle : Current manipulation rule UID: ****146*MP SET P R MSG INDEX; Execution sci
                                                                                                                                                                                                                                                                                                                                                                                                                 </swif:CdtrAcct
                                                                                                                                                                                                   <swif:Cdrt_F58a_F59a:
                        2018-06-28 12:04:57.237 DEBUG THREAD-467 IndexLastResource
                                                                                                                                                                                                                                                       etVal('P R MSG INDEX', (getVal('P MID'))
                                                                                                                                              IndexLastResource::after
                                                                                                                                                                                                     <swif:Cdtr>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MSXDeliveryCount=1
                        2018-06-28 12:04:57.238 DEBUG THREAD-440 IndexLastResource
                                                                                                                                              IndexLastResource::index
                                                                                                                                                                                                                                                                                                                                                                                                                 <swif:Code>SHAR</swif:Code>
                                                                                                                                                                                                       <swif:PartvName>LLOYD
                                                                                                                                                                                                                                                      2018-06-28 12:04:57.470 INFO THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelectorService_IA6SC
                         2018-06-28 12:04:57.238 INFO THREAD-440
                                                                                               IndexLastResource
                                                                                                                                              IndexLastResource:: SPLT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8522924][
                                                                                                                                                                                                                                                         MessageHandle : Current manipulation rule UID: ***^146*MMP_RMSG_INDEX_103; Execution scri
EVal('P_R_MSG_INDEX', (getVal('OX_INSTR_ID') + '~' + 'SWIFT_103' + '~' + getVal('OC_INSTG_AGT_BIC'
                         2018-06-28 12:04:57.238 DEBUG THREAD-440 PDO
                                                                                                                                               PDO Set field MSG_TYPE_S
                                                                                                                                                                                                                                                                                                                                                                                                             /swif:Data>
                        2018-06-28 12:04:57.242 DEBUG THREAD-440 ElasticSearchPlatform
                                                                                                                                             : SPLT: In method to check
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   YML ORTG MSG EXTN-
                        2018-06-28 12:04:57,242 DEBUG THREAD-467 DupexCheckKey
                                                                                                                                              'INTERFACE1~Fri May 25 06
                                                                                                                                                                                                                                                      2018-06-28 12:04:57.474 DEBUG THREAD-467 SERVICE-[MDP GTX_GMAPS_IN]_BusinessFlowSelectorService_IA65
PDO : PDO Set field P_R_MSG_INDEX from value [] to value [IA6SC0457704010A]
                                                                                                                                                                                                     </swif:CdtrAcct>
                                                                                                                                                                                                                                                                                                                                                                                                           MI ORTG MSG EXTN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     apter: JMS
                        2018-06-28 12:04:57.244 INFO THREAD-440 ElasticSearchPlatform
                                                                                                                                        : SPLT: Search Platform noc
                                                                                                                                                                                                                                                    PRO 57 THE PROPERTY OF THE PRO
                                                                                                                                                                                                   </swif:Cdrt F58a F59a:</pre>
                                                                                                                                                                                                                                                                                                                                                                                                          cxml-fragment xmlns:com="http://fundtech.com/SCL/CommonTypes">
                         2018-06-28 12:04:57.249 DEBUG THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelectorServic
                                                                                                                                                                                                   <swif:F71A>
                                                                                                                                                                                                                                                                                                                                                                                                           <com:XMI PersistentInfox</pre>
                            ssage received from interface GTX_CHAPS_IN
                                                                                                                                                                                                                                                                                                                                                                                                               <com:D_DEBULKED_MSG>false</com:D_DEBULKED_MSG>
                                                                                                                                                                                                    <swif:Code>SHAR</swif:Co
                        2018-06-28 12:04:57.249 INFO THREAD-467 SERVICE-[MDP GTX CHAPS IN] BusinessFlowSelectorService
                                                                                                                                                                                                                                                                                         : PDO Set field MF REPAIR N ENRICHEMENT STS from value [X] to value [P]
                                                                                                                                                                                                                                                                                                                                                                                                               <com:D_BULK_MSG>false</com:D_BULK_MSG:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     apter: JMS
                                                                                                                                                                                                 </swif:F71A>
                        received header [Destination=queue:///IPP.GTX.CHAPS.EXP_REQUEST_DeliveryMode=2,Expiration=0
null,Priority=4,MessageID=ID:414d51204c4c4f5944535f5343445f4911532b5b026c1b20,Timestamp=153017
                                                                                                                                                                                                                                                                                                                                                                                                            </com:XMLPersistentInfo>
                                                                                                                                                                                               </swif:Data>
                                                                                                                                                                                                                                                                                                                    <com:XMLPersistentInfo>
                         62,CorrelationID=null,ReplyTo=null,Redelivered=false,Type=null],PropertyNames=[JMS_IBM_Format
                                                                                                                                                                                             /xml-fragment>
                                                                                                                                                                                                                                                                                                                      <com:D_DEBULKED_MSG>false</com:D_DEBULKED_MSG</pre>
                                                                                                                                                                                                                                                                                             --. XML ORTO
                                                                                                                                                                                                                                                                                                                                                                                                           o18-06-28 12:04:57.214 INFO THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelectorService_IA6SC0453J540106 IA6SC0453JM40107
                                                                                                       1[JMS IBM MsgTvpe=8][JMS IBM PutApplTvpe=28][JM
                                                                                                                                                                                                                                                                                                                       <com:D_BULK_MSG>false</com:D_BULK_MSG>
                          MSXAppID=0.0\bin\SoapUI-5.0.0.exe
                                                                                                                                                                                              ML ORIG MSG EXTN:
                                                                                                                                                                                                                                                                                                                                                                                                          </com:XMLPersistentInfo>
                        2018-06-28 12:04:57.250 DEBUG THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelectorService_txml-fragment_xmlns:com="http://fundtech.com/SCL/CommonTypes"
                                                                                                                                                                                                                                                                                                                                                                                                         DBBsic : BOBasic.executeInProtectedBoundaries() - finally - START, bTopLevelInvocation is: true
2018-06-28 12:84:57.215 DEBUG THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelectorService_IA65C04531340106 IA65C04531M40107
                                                                                                                                                                                              <com:XMLPersistentInfo>
                         Message received with JMSMessageID : ID:414d51204c4c4f5944535f5343445f4911532b5b026c1b20. from
                        2018-06-28 12:04:57.250 DEBUG THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelectorService
                                                                                                                                                                                                 <com:D_DEBULKED_MSG>false</com:D_DEBULKED_MSG>
                                                                                                                                                                                                                                                                                                                  2018-06-28 12:04:57.214 INFO THREAD-467 SERVICE-
                                                                                                                                                                                                                                                                                                                                                                                                           pringTransactionProxy : ignoring commit from executeBusinessFlowInner_10099075582061503 while this.m_sOriginator = [
                         orrelation ID : null, JMS message redelivered : false
                                                                                                                                                                                                 <com:D_BULK_MSG>false</com:D_BULK_MSG>
                                                                                                                                                                                                                                                                                                                 AS: [DAS.batchSave()] - Entering the properties of the properties 
                         018-06-28 12:04:57.251 DEBUG THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelectorServic
                                                                                                                                                                                               </com:XMLPersistentInfo>
                         BarePayloadMessagesGateway for Interface 'GTX_CHAPS_IN', Converter 'SWIFTInterfaceHandler']:
{{1:F01L0YDGB2LAXXX8812705271}{2:01030727100111BARCGB22ATRD59691480581307031525N}
                                                                                                                                                                                                                                                                                                                                                            : BOBasic.executeInProtectedBoundaries() - finally - START, bTopLevelInvocation is: true
                                                                                                                                                                                                                                                                                                                2018-06-28 12:04:57.215 DEBUG THREAD-467 SERVICE-[MDP GTX_CHAPS_IN]_BusinessFlowSelectorService_IA6SC0453J540106 IA6SC0453JM40107
                           :{103:STG}{108:001086CB0366809}}
                                                                                                                                                                                            2018-06-28 12:04:57.214 INFO THREAD-467 SERVICE-[MDP GTX_CHAPS_I
                                                                                                                                                                                                                                       : 20:GBMCMT103001
                                                                                                                                                                                            2018-06-28 12:04:57.214 INFO THREAD-467 SERVICE-[MDP GTX_CHAPS_II
                                                                                                                                                                                             .
1018-06-28 12:04:57.215 DEBUG THREAD-467 SERVICE-[MDP GTX CHAPS IN] BusinessFlowSelectorService IA6SC0453J540106 IA6SC0453JM40107
                                                                                                                                                                                             pringTransactionProxy : ignoring commit from executeBusinessFlowInner_10099075582061503_while this.m_sOriginator = [
                                                                                                                                                                                             enientDefaultMessageListenerContainer.receiveAndExecute.GTX_CHAPS_IN_MDP] (the transaction would be ended later by its originator)
```

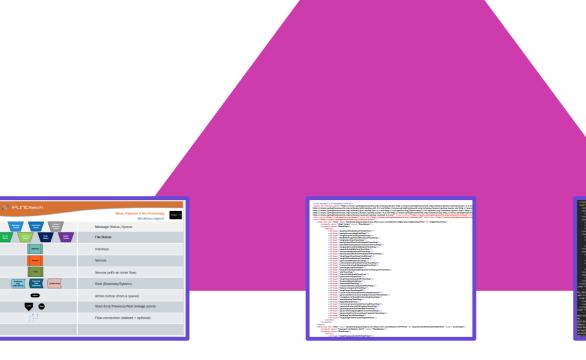
Finastra | 13 February 2019

018-06-28 12:04:57.216 DEBUG THREAD-467 SERVICE-[MDP GTX CHAPS IN] BusinessFlowSelectorService IA6SC0453]540106 IA6SC045

SHOWFLOW



VISUALIZE PRODUCT PROCESS FLOWS FROM GPP SPRING PAYMENT FLOWS AND VALIDATE WITH GPP LOG FILES



Thank you

Alex Perman Integration Team

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in Finastra LinkedIn

Finastra YouTube

