## MOODY'S

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# Real Time ECL - Technical Documentation

#### **Author**

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#### Contact

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Description:	Core Technical design for Real Time ECL API
Functional Category:	
Author/Developer:	Jayachandran, Ramya
Product Lead:	Marengo, Fanny
QA Lead:	Viswanathan, Archana
Functional Specification:	ECL Real time API
Test Plan from QA:	https://erswiki.analytics.moodys.net/download/attachments/137265192
	/QA_TestPlan_RealTimeECL.docx?api=v2

- Assumptions
- Webservice call
- Request/Response information for the webservice call
  - **ISON Information**
- Real time in Spark
- Real Time ECL Analysis Workflow
  - Global Data Retrieval Chain:
  - Deal Retrieval Chain:
  - Deal Calculation Chain:
- Instrument Mapping (clean up later)
- Performance statistics
- Pending items & Bug Tracking

## 1 Assumptions

- 1. Context ID, Process setting name and Deal (and optional security and supporting data) will be passed as input
- 2. Account Set not applicable, all behaviors come from scenario
- 3. Multiple deals will be sent in one JSON

## 2 Webservice call

Through Webservice: http://jayachar-7w1:8088/rco/service/runanalysis/realtime/ecl

From Testharness: -type runAnalysis -eclInputJsonFile "<input Json file>"

Example: -type runAnalysis -eclInputJsonFile "C:\\dev\\realtimeEcl\\ECL\_REAL\_TIME\_DEAL\_1\_fixed. ison"

## 3 Request/Response information for the webservice call

UI is expected to send these input parameters

- Deal and deal related information will be in JSON format and each deal will have context and process setting information in it.
- Security for the instrument (REPO/REV\_REPO/SECURITY\_POSITIONS) will be provided in the JSON. Refer Security. Json for the format. Security Reference in the instrument JSON should match the security reference of the BOND
- 3. Supporting Data (Interest Rate, Exchange Rate, Import CF, Stages, Rating, Collateral) will be provided in the JSON (Refer table below).
  - a. Interest Rate and Exchange Rate data will default to the input set from Scenario if its not provided in the JSON.
  - b. Import CF, Stages, Rating, Collateral Has to be provided in the JSON. Will not default to the tables.
- 4. All the information (Instrument, Interest Rate, Exchange Rate, Import CF, Stages, Rating, Collateral) have to be in one JSON. See Attached:



## 5. Response JSON format



## 6. Break down of all the JSON information is below

Instrument	JSON	Mapping (DB to JSON)
LOAN		
	Loan Depo.json	
DEPOSIT		
	Deposit.json	
SECURITY POSITIONS		
	SecurityPions.json	

Instrument	JSON	Mapping (DB to JSON)
FACILITY		
	Facility.json	
DEDO.		
REPO		
	Repo.json	
SECURITY	Security Reference in the instrument JSON sh match the security reference of the BOND	nould
	Security.json	
Supporting Data (Has to be	JSON	Mapping (DB to
appended at the end of instrument Data, if needed)		JSON)

Supporting Data (Has to be appended at the end of instrument Data, if needed)	JSON	Mapping (DB to JSON)
Interest Rate data	If there is user provided IR input	
	The user provided input will be attached to the input set defined in the scenario.	
	b. else scenario curve information from the scenario will be used	
	IR_INPUT.json	
Exchange Rate data	If there is user provided FX input	
	<ul> <li>The user provided input will be attached to the input set defined in the scenario.</li> </ul>	
	b. else scenario exchange rate information from the scenario will be used	
	FX_INPUT.json	

JSON	Mapping (DB to
a. Cash Flow contract reference and table name should match the instrument's contract reference and table name resp.	
b. Will be read if the ImportCF flag in the instrument JSON is set to TRUE	
IMPORT_CF.json	
Staging Data  a. Base contract reference and table Name should  match the instrument's contract reference and table	
name resp	
	should match the instrument's contract reference and table name resp.  b. Will be read if the ImportCF flag in the instrument JSON is set to TRUE  IMPORT_CF.json  a. Base contract reference and table Name should match the instrument's contract reference and table

STAGES\_I...PUT.json

Supporting Data (Has to be appended at the end of instrument Data, if needed)	JSON	Mapping (DB to JSON)
Rating Data	a. contract reference and table Name should match     the instrument's contract reference and table name     resp	



#### Collateral Data

 a. contract reference and table Name should match the instrument's contract reference and table name resp..



## 3.1 JSON Information

JSON Fields - GENERAL	Possible values/Format
All Tenor fields	nnYnnMnnD
All Date fields	mm/dd/yyyy
All Boolean fields	true/false (case insensitive)

JSON Fields - Instrument/Common	Possible values/Format
tableName	• LOANDEPO
	SECURITY_POSITIONS
	• LINE_OF_CREDIT
	• REPO
	• ACCOUNT
calcDayConvention, payDayConventionN	• NONE
	NO_DATE_ADJUSTMENT
	NEXT_GOOD_BUSINESS_DAY
	• PREVIOUS_GOOD_BUSINESS_DAY
	MODIFIED_FOLLOWING
	• END_OF_MONTH_NO_ADJUSTMENT
	• END_OF_MONTH_NEXT_GOOD_BUSINESS_DAY
	• END_OF_MONTH_PREVIOUS_GOOD_BUSINESS_DAY
payDayConvention	NO_DATE_ADJUSTMENT
	NEXT_GOOD_BUSINESS_DAY
	• PREVIOUS_GOOD_BUSINESS_DAY
	MODIFIED_FOLLOWING
IoanAmortizationMethod	• IN_FINE
	• LINEAR
	• CONSTANT_INSTALLMENT
	INCREASING_AMOUNT
	• FIXED_AMOUNT
	• FIXED_AMOUNT_INCREASING
	• SUM_OF_DIGIT
	• OTHER

JSON Fields - Instrument/Common	Possible values/Format
interestPeriodicity, compoundFrequency, annuityResetFrequency	• DEFAULT
· · ·	• ANNUAL
	SEMI_ANNUAL
	• QUARTERLY
	• MONTHLY
accrualBasis	ACTUAL_365_FIXED
	• ACTUAL_360
	• BASIS_30E_360
	• ACTUAL_ACTUAL
	• BASIS_30_360
	• BASIS_30A_360
rateType	• FIXED
	• FLOATING
importCF	• ALL_CF
	• PRINCIPAL_CF
	• PRINCIPAL_INT_CF
	PRINCIPAL_COMPENSATION_CF
	COMPENSATION_CF
	ALL_WITH_INTEREST_SCHEDULE
	• RECOVERY_CF
	• NONE
brokenPeriod	• NONE
	• START_SHORT
	• START_LONG
	• END_SHORT

JSON Fields - Instrument/Common	Possible values/Format
	• END_LONG
capFloorStartDateConvention	ORIGINATION_DATE
	• TRADE_DATE
	• RELEASING_DAY
	• VALUE_DATE
annuityComputationMethod	• STANDARD
	• INDEXED
negAmTreatment	CAPITALIZE_INTEREST
	• PAY_LATER
	LOSS_OF_INTEREST
cashFlowPriority	• PAY_ALL
	PAY_INTEREST_FIRST
	PAY_PRINCIPAL_FIRST
firstAmortizationMethod	• STANDARD
	• FIRST_AMORTIZATION_DATE
fixingRule	• NONE
	• PRE_FIXED
	POST_FIXED
	OVERNIGHT_INDEXED_SWAP
	• READ_ALL_VALUES
	• CONTRACTUAL_READ_ALL_VALUES
indexationRule	• NONE
	<ul><li>RCPN</li><li>YONY</li></ul>

JSON Fields - Instrument/Common	Possible values/Format
	• OATI
	• RANN
originationCountry	
nextCouponDate	
paymentDayRule	• C
	• N
	• M
	• E
	• A
paymentDayRuleN	• C
	• N
	• M
	• E
repaymentType	• E
	• A
performingStatus	• C
	• D
	• F
	• P
	• T
interestType	• E
	• A
	• 1
fixingPeriodicity	A A
	• A
	• S

JSON Fields - Instrument/Common	Possible values/Format
	• Q
	• M
	• N
longShort	• LONG
	• SHORT
	• NONE

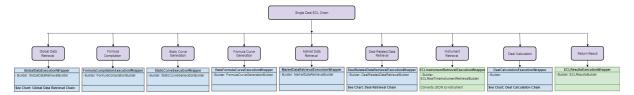
JSON Fields - IMPORTED_CF	Possible values/Format
cashFlowQuality	• CERTAIN
	• ESTIMATED
	• COMPENSATION
	• OUTPAYMENT
	• NONE
cashFlowType	• NOMINAL
	• INTEREST
	• NONE
JSON Fields - CREDIT_RATING	Possible values/Format
ratingApproach	• OTHER
	• STANDALONE
	• INFERRED

## 4 Real time in Spark

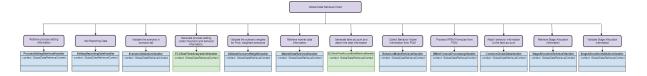
--To be updated--

## 5 Real Time ECL Analysis Workflow

- 1. New classes are marked in green.
- 2. Run in parallel with other analysis (do not store any information on DB so the analysis wont crash when running in parallel)
- 3. Will be run like test harness without submitting to Spark.
- 4. Wrappers will be used instead of Builders so the tasks will not be distributed.
- 5. ExecutableTest class will be called through command line from the webservice call.



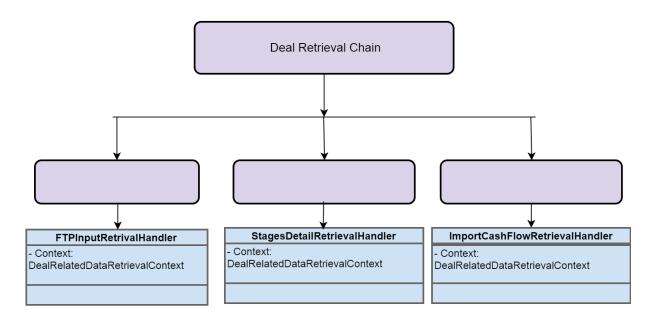
## 5.1 Global Data Retrieval Chain:



## 5.2 Deal Retrieval Chain:

Confirm if the following handlers are needed:

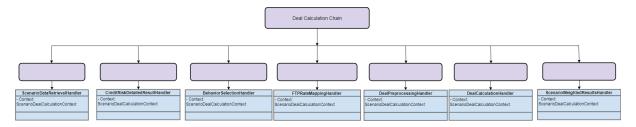
- 1. FacilityLimitsRetrievalHandler
- ${\bf 2.}\ \ Deal Linked Facility Retrieval Handler$
- 3. DealAnalyticDataRetrievalHandler



## 5.3 Deal Calculation Chain:

Confirm if the following handlers are needed:

- 1. FacilityPostSplitHandler
- 2. FacilityLimitsCalculationHandler
- 3. SimulatedLinkedLoansHandler
- 4. ExternalCodesSubmitHandler
- 5. ExternalModelDataHandler
- 6. RegulatoryTransformationHandler
- 7. LiquidityMgmtPreprocessHandler
- 8. FacilityLinkedLoansResultHandler



PD/LGD name retrieval Catalog in instrument retrieval:

#### <u>PdLgdInputSetNameCollectionHandler</u>

EntityCollectionHandler => saves to analysis\_batch\_entity, find out where its used (might not need it) SecurityCollectionHandler => saves to ANALYSIS\_BATCH\_SEC, find out where its used (might not need it)

CreditBehaviorCollectionHandler => collected credit behavior RiskCalcRequestCollectionHandler

RatingToPdConversionHandler

#### pdRetrievalDataSetSpecificCatalog =>

PdRetrievalHandler => need a new class to collect by all dataset Names PdGenerationHandler => can reuse the existing one

#### lgdRetrievalDataSetSpecificCatalog =>

LgdRetrievalHandler => need a new class

LgdGenerationHandler => can reuse the existing one

creditDataScenarioSpecificCatalog => RiskCalcLgdRetrievalHandler

creditDataNonScenarioSpecificCatalog => ExternalCodeRetrievalHandler

**DEAL CALCULATION:** 

CalculationSummaryHandler

EngineDealResultsProcessingHandler

EngineTimeSegmentProcessingHandler

EngineKeyRateSensitivityProcessingHandler

CflAggregateHandler

## 6 Instrument Mapping (clean up later)

• Repo instrument mappin

AMOUNT_1	"amount1" : null,
AMOUNT_1_CCY	"amount1Ccy" : null,
AMOUNT_2	"amount2" : null,
AMOUNT_2_CCY	"amount2Ccy" : null,
ATTRIBUTE_1	"attribute1" : null,
ATTRIBUTE_10	"attribute10" : null,
ATTRIBUTE_11	"attribute11" : null,
ATTRIBUTE_12	"attribute12" : null,

ATTRIBUTE_14	ATTRIBUTE_13	"attribute13" : null,
ATTRIBUTE_16 "attribute16": null,  ATTRIBUTE_18 "attribute18": null,  ATTRIBUTE_19 "attribute2": null,  ATTRIBUTE_2 "attribute2": null,  ATTRIBUTE_2 "attribute20": null,  ATTRIBUTE_3 "attribute20": null,  ATTRIBUTE_4 "attribute3": null,  ATTRIBUTE_5 "attribute5": null,  ATTRIBUTE_5 "attribute5": null,  ATTRIBUTE_6 "attribute6": null,  ATTRIBUTE_7 "attribute6": null,  ATTRIBUTE_8 "attribute6": null,  ATTRIBUTE_9 "attribute9": null,  BOOK_CODE "bookCode": null,  BOOK_CODE "bookCode": null,  BOOK_CODE "bookCode": null,  CALC_DAY_CONVENTION "calcDayConvention": null,  CALC_DAY_CONVENTION "calcDayConvention": null,  CASH_ACCRUAL_BASIS "accrualBasis": null,  CASH_AMORTIZED_COST "amortizedCost": null,  CASH_CURRENCY "currency": null,  CASH_INITIAL_YIELD "initialYield": null,  CASH_INITIAL_YIELD "initialYield": null,  CASH_NOMINAL "nominal": null,  CENTRAL_BANK "centralBank": null,  CENTRAL_BANK "centralBank": null,  CONTRACT_REFERENCE "contractReference": null,  CONTRACT_TYPE "contractType": null,  CONTRACT_TYPE "contractType": null,  CONTRACT_TYPE "contractType": null,  CONTRACT_TYPE "contractType": null,	ATTRIBUTE_14	"attribute14" : null,
ATTRIBUTE_18 "attribute18": null, ATTRIBUTE_19 "attribute29": null, ATTRIBUTE_2 "attribute20": null, ATTRIBUTE_20 "attribute20": null, ATTRIBUTE_3 "attribute3": null, ATTRIBUTE_4 "attribute4": null, ATTRIBUTE_5 "attribute5": null, ATTRIBUTE_6 "attribute6": null, ATTRIBUTE_7 "attribute6": null, ATTRIBUTE_8 "attribute8": null, ATTRIBUTE_9 "attribute8": null, BOOK_CODE "bookCode": null, BROKEN_PERIOD_TYPE "brokenPeriod": null, BUSINESS "business": null, CALC_DAY_CONVENTION "calcDayConvention": null, CALENDAR_CODE "anorticadCode": null, CASH_ACCRUAL_BASIS "accrualBasis": null, CASH_CURRENCY "currency": null, CASH_CURRENCY "currency": null, CASH_INITIAL_YIELD "initialYield": null, CASH_INITIAL_YIELD "initialYield": null, CASH_NOMINAL "nominal": null, CENTRAL_BANK "centralBank": null, CENTRAL_BANK "centralBank": null, CCIENT_PROPRIETARY "clientProprietary": null, CONTRACT_TYPE "contractReference": null, CONTRACT_TYPE "contractType": null,	ATTRIBUTE_15	"attribute15" : null,
ATTRIBUTE_19 "attribute18": null,  ATTRIBUTE_2 "attribute2": null,  ATTRIBUTE_20 "attribute20": null,  ATTRIBUTE_3 "attribute3": null,  ATTRIBUTE_3 "attribute3": null,  ATTRIBUTE_4 "attribute4": null,  ATTRIBUTE_5 "attribute5": null,  ATTRIBUTE_6 "attribute6": null,  ATTRIBUTE_6 "attribute8": null,  ATTRIBUTE_7 "attribute8": null,  ATTRIBUTE_9 "attribute8": null,  BOOK_CODE "bookCode": null,  BROKEN_PERIOD_TYPE "brokenPeriod": null,  BUSINESS "business": null,  CALC_DAY_CONVENTION "calcDayConvention": null,  CALENDAR_CODE "accrualBasis": null,  CASH_ACCRUAL_BASIS "accrualBasis": null,  CASH_AMORTIZED_COST "amortizedCost": null,  CASH_CURRENCY "currency": null,  CASH_FIXING_RULE "fixingRule": null,  CASH_INITIAL_VIELD "initialYield": null,  CASH_NOMINAL "nominal": null,  CENTRAL_BANK "centralBank": null,  CLIENT_PROPRIETARY "clientProprietary": null,  CONTRACT_REFERENCE "contractReference": null,  CONTRACT_TYPE "contractType": null,	ATTRIBUTE_16	"attribute16" : null,
ATTRIBUTE_19 "attribute19": null, ATTRIBUTE_20 "attribute20": null, ATTRIBUTE_20 "attribute20": null, ATTRIBUTE_3 "attribute3": null, ATTRIBUTE_4 "attribute4": null, ATTRIBUTE_5 "attribute5": null, ATTRIBUTE_6 "attribute6": null, ATTRIBUTE_6 "attribute6": null, ATTRIBUTE_7 "attribute7": null, ATTRIBUTE_8 "attribute8": null, BOK_CODE "bookCode": null, BOK_CODE "bookCode": null, BROKEN_PERIOD_TYPE "brokenPeriod": null, BUSINESS "business": null, CALC_DAY_CONVENTION "calcDayConvention": null, CALENDAR_CODE "accrualBasis": null, CASH_ACCRUAL_BASIS "accrualBasis": null, CASH_AMORTIZED_COST "amortizedCost": null, CASH_CURRENCY "currency": null, CASH_FIXING_RULE "fixingRule": null, CASH_INITIAL_YIELD "initialYield": null, CASH_NOMINAL "nominal": null, CENTRAL_BANK "centralBank": null, CLIENT_PROPRIETARY "clientProprietary": null, CLIENT_PROPRIETARY "clientProprietary": null, CONTRACT_TYPE "contractType": null, CONTRACT_TYPE "contractType": null,	ATTRIBUTE_17	"attribute17" : null,
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## • Deposit instrument mapping

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NDIM14         "ndim14": null,           NDIM15         "ndim15": null,           NDIM16         "ndim16": null,           NDIM17         "ndim17": null,           NDIM18         "ndim18": null,           NDIM19         "ndim19": null,           NDIM2         "ndim2": null,           NDIM20         "ndim2": null,           NDIM3         "ndim3": null,           NDIM4         "ndim4": null,           NDIM5         "ndim6": null,           NDIM6         "ndim6": null,           NDIM7         "ndim8": null,           NDIM8         "ndim8": null,           NDIM9         "ndim9": null,           NEXT_COUPON_DATE         "nextCouponDate": null,           ORIGINATION_COUNTRY         "originationCountry": null,           PAST_DUE_DAYS         "pastDueDays": null,           PAY_DAY_CONVENTION         "payDayConvention": null,           PAY_DAY_CONVENTION_N         "payDayConvention": null,           PERFORMING_STATUS         "performingStatus": null,	NDIM12	"ndim12" : null,
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NDIM16 "ndim16": null,  NDIM17 "ndim17": null,  NDIM18 "ndim18": null,  NDIM19 "ndim2": null,  NDIM2 "ndim2": null,  NDIM2 "ndim20": null  NDIM3 "ndim3": null,  NDIM4 "ndim4": null,  NDIM5 "ndim5": null,  NDIM6 "ndim6": null,  NDIM7 "ndim7": null,  NDIM8 "ndim8": null,  NDIM9 "ndim9": null,  NDIM9 "ndim9": null,  NDIM9 "ndim9": null,  NPAT_COUPON_DATE "nextCouponDate": null,  ORIGINATION_COUNTRY "originationCountry": null,  PAST_DUE_DAYS "pastDueDays": null,  PAY_DAY_CONVENTION "payDayConvention": null,  PAY_DAY_CONVENTION_N "payDayConventionN": null,  PERFORMING_STATUS "performingStatus": null,	NDIM14	"ndim14" : null,
NDIM17 "ndim17": null,  NDIM18 "ndim18": null,  NDIM19 "ndim19": null,  NDIM2 "ndim2": null,  NDIM2 "ndim20": null  NDIM3 "ndim3": null,  NDIM4 "ndim4": null,  NDIM5 "ndim5": null,  NDIM6 "ndim6": null,  NDIM7 "ndim7": null,  NDIM8 "ndim8": null,  NDIM9 "ndim9": null,  NEXT_COUPON_DATE "nextCouponDate": null,  ORIGINATION_COUNTRY "originationCountry": null,  PAY_DAY_CONVENTION "payDayConvention": null,  PAY_DAY_CONVENTION "payDayConvention": null,  PERFORMING_STATUS "performingStatus": null,	NDIM15	"ndim15" : null,
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NDIM2 "ndim2": null,  NDIM3 "ndim3": null,  NDIM4 "ndim4": null,  NDIM5 "ndim5": null,  NDIM6 "ndim6": null,  NDIM7 "ndim7": null,  NDIM8 "ndim8": null,  NDIM9 "ndim9": null,  NEXT_COUPON_DATE "nextCouponDate": null,  ORIGINATION_COUNTRY "originationCountry": null,  PAST_DUE_DAYS "pastDueDays": null,  PAY_DAY_CONVENTION "payDayConvention": null,  PAY_DAY_CONVENTION_N "payDayConventionN": null,  PERFORMING_STATUS "performingStatus": null,	NDIM18	"ndim18" : null,
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NDIM3 "ndim3": null,  NDIM4 "ndim4": null,  NDIM5 "ndim6": null,  NDIM6 "ndim6": null,  NDIM7 "ndim7": null,  NDIM8 "ndim8": null,  NDIM9 "ndim9": null,  NEXT_COUPON_DATE "nextCouponDate": null,  ORIGINATION_COUNTRY "originationCountry": null,  PAST_DUE_DAYS "pastDueDays": null,  PAY_DAY_CONVENTION "payDayConvention": null,  PAY_DAY_CONVENTION_N "payDayConventionN": null,  PERFORMING_STATUS "performingStatus": null,	NDIM2	"ndim2" : null,
NDIM4 "ndim4": null,  NDIM5 "ndim5": null,  NDIM6 "ndim6": null,  NDIM7 "ndim7": null,  NDIM8 "ndim8": null,  NDIM9 "ndim9": null,  NEXT_COUPON_DATE "nextCouponDate": null,  ORIGINATION_COUNTRY "originationCountry": null,  PAST_DUE_DAYS "pastDueDays": null,  PAY_DAY_CONVENTION "payDayConvention": null,  PAY_DAY_CONVENTION_N "payDayConventionN": null,  PERFORMING_STATUS "performingStatus": null,	NDIM20	"ndim20" : null
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NDIM6 "ndim6": null,  NDIM7 "ndim7": null,  NDIM8 "ndim8": null,  NDIM9 "ndim9": null,  NEXT_COUPON_DATE "nextCouponDate": null,  ORIGINATION_COUNTRY "originationCountry": null,  PAST_DUE_DAYS "pastDueDays": null,  PAY_DAY_CONVENTION "payDayConvention": null,  PAY_DAY_CONVENTION_N "payDayConventionN": null,  PERFORMING_STATUS "performingStatus": null,	NDIM4	"ndim4" : null,
NDIM7 "ndim7": null,  NDIM8 "ndim8": null,  NDIM9 "ndim9": null,  NEXT_COUPON_DATE "nextCouponDate": null,  ORIGINATION_COUNTRY "originationCountry": null,  PAST_DUE_DAYS "pastDueDays": null,  PAY_DAY_CONVENTION "payDayConvention": null,  PAY_DAY_CONVENTION_N "payDayConventionN": null,  PERFORMING_STATUS "performingStatus": null,	NDIM5	"ndim5" : null,
NDIM8       "ndim8": null,         NDIM9       "ndim9": null,         NEXT_COUPON_DATE       "nextCouponDate": null,         ORIGINATION_COUNTRY       "originationCountry": null,         PAST_DUE_DAYS       "pastDueDays": null,         PAY_DAY_CONVENTION       "payDayConvention": null,         PAY_DAY_CONVENTION_N       "payDayConventionN": null,         PERFORMING_STATUS       "performingStatus": null,	NDIM6	"ndim6" : null,
NDIM9 "ndim9": null,  NEXT_COUPON_DATE "nextCouponDate": null,  ORIGINATION_COUNTRY "originationCountry": null,  PAST_DUE_DAYS "pastDueDays": null,  PAY_DAY_CONVENTION "payDayConvention": null,  PAY_DAY_CONVENTION_N "payDayConventionN": null,  PERFORMING_STATUS "performingStatus": null,	NDIM7	"ndim7" : null,
NEXT_COUPON_DATE       "nextCouponDate" : null,         ORIGINATION_COUNTRY       "originationCountry" : null,         PAST_DUE_DAYS       "pastDueDays" : null,         PAY_DAY_CONVENTION       "payDayConvention" : null,         PAY_DAY_CONVENTION_N       "payDayConventionN" : null,         PERFORMING_STATUS       "performingStatus" : null,	NDIM8	"ndim8" : null,
ORIGINATION_COUNTRY "originationCountry" : null,  PAST_DUE_DAYS "pastDueDays" : null,  PAY_DAY_CONVENTION "payDayConvention" : null,  PAY_DAY_CONVENTION_N "payDayConventionN" : null,  PERFORMING_STATUS "performingStatus" : null,	NDIM9	"ndim9" : null,
PAST_DUE_DAYS "pastDueDays" : null,  PAY_DAY_CONVENTION "payDayConvention" : null,  PAY_DAY_CONVENTION_N "payDayConventionN" : null,  PERFORMING_STATUS "performingStatus" : null,	NEXT_COUPON_DATE	"nextCouponDate" : null,
PAY_DAY_CONVENTION "payDayConvention" : null,  PAY_DAY_CONVENTION_N "payDayConventionN" : null,  PERFORMING_STATUS "performingStatus" : null,	ORIGINATION_COUNTRY	"originationCountry" : null,
PAY_DAY_CONVENTION_N "payDayConventionN" : null,  PERFORMING_STATUS "performingStatus" : null,	PAST_DUE_DAYS	"pastDueDays" : null,
PERFORMING_STATUS "performingStatus" : null,	PAY_DAY_CONVENTION	"payDayConvention" : null,
	PAY_DAY_CONVENTION_N	"payDayConventionN" : null,
PERIODICITY_TENOR "periodicityTenor" : null,	PERFORMING_STATUS	"performingStatus" : null,
	PERIODICITY_TENOR	"periodicityTenor" : null,

PRODUCT_GL_CRITERIA	"productGLCriteria" : null,	
RATE_TYPE	"rateType" : null,	
INTEREST_RATE	"rateValue" : null,	
RISK_COUNTRY	"riskCountry" : null,	
SUB_TYPE	"subType" : null,	
TENOR	"tenor" : null,	
TENOR_BASED_FREQUENCY	"tenorBasedFrequency" : null,	
VALUE_DATE	"valueDate" : null,	
EVERGREEN_PRODUCT	"everGreenProduct" : null,	
NUMBER_OF_CONTRACTS	"numberOfContracts" : null,	
OPERATIONAL_BALANCE	"operationalBalance" : null,	
ORIGINAL_BALANCE	"originalBalance" : null,	
PEL_PRODUCT	"pelProduct" : null,	
PROFILE	"profile" : null,	
PROTECTED_BALANCE	"protectedBalance" : null,	
RATE		Transient field
RESET_FREQ_TENOR	"resetFrequency" : null,	
RESET_FREQUENCY	"resetFrequencyTenor" : null,	
TIERED_DEPOSIT	"tieredDeposit" : null,	
TRANSACTIONAL_ACCOUNT	"transactionalAccount" : null,	
TRUNCATION_DATE	"truncationDate" : null,	
VOLATILITY	"volatility" : null,	
VOLATILITY_TYPE	"volatilityType" : null,	

## • Security mapping

ACCRUAL_BASIS	"accrualBasis" : null,
ACCRUED_INTEREST	"accruedInterest" : null,
AMORTIZING_AMOUNT	"amortizingAmount" : null,
AMORTIZING_PERIOD_TENOR	"amortizingPeriodTenor" : null,
AMORTIZING_PERIODICITY	"amortizingFrequency" : null,
AMORTIZING_TYPE	"loanAmortizationMethod" : null,
AMOUNT_1	"amount1" : null,

AMOUNT_1_CCY	"amount1Ccy" : null,
AMOUNT_2	"amount2" : null,
AMOUNT_2_CCY	"amount2Ccy" : null,
ATTRIBUTE_1	"attribute1" : null,
ATTRIBUTE_10	"attribute10" : null,
ATTRIBUTE_11	"attribute11" : null,
ATTRIBUTE_12	"attribute12" : null,
ATTRIBUTE_13	"attribute13" : null,
ATTRIBUTE_14	"attribute14" : null,
ATTRIBUTE_15	"attribute15" : null,
ATTRIBUTE_16	"attribute16" : null,
ATTRIBUTE_17	"attribute17" : null,
ATTRIBUTE_18	"attribute18" : null,
ATTRIBUTE_19	"attribute19" : null,
ATTRIBUTE_2	"attribute2" : null,
ATTRIBUTE_20	"attribute20" : null,
ATTRIBUTE_3	"attribute3" : null,
ATTRIBUTE_4	"attribute4" : null,
ATTRIBUTE_5	"attribute5" : null,
ATTRIBUTE_6	"attribute6" : null,
ATTRIBUTE_7	"attribute7" : null,
ATTRIBUTE_8	"attribute8" : null,
ATTRIBUTE_9	"attribute9" : null,
BID_PRICE	"bidPrice" : null,
BOND_TYPE	"bondType" : null,
BROKEN_PERIOD_TYPE	"brokenPeriod" : null,
CALC_DAY_CONVENTION	"calcDayConvention" : null,
CALL_PRICE	"callPrice" : null,
CAP	"cap" : null,
CAPFLOOR_PERIOD_LENGTH	"capfloorPeriodLength" : null,
CAPFLOOR_PERIOD_START	"capfloorPeriodStart" : null,
CLEAN_DIRTY	"cleanDirty" : null,
COMPOUND_PERIOD_TENOR	"compoundFrequencyTenor" : null,

COMPOUND_PERIODICITY	"compoundFrequency" : null,	
COUPON_PERIOD_TENOR	"couponPeriodicity" : null,	
COUPON_PERIODICITY	"couponPeriodicityTenor" : null,	
CURRENCY_CODE	"currency" : null,	
CURVE_NAME	"curveName" : null,	
DIM1	"dim1" : null,	
DIM10	"dim10" : null,	
DIM11	"dim11" : null,	
DIM12	"dim12" : null,	
DIM13	"dim13" : null,	
DIM14	"dim14" : null,	
DIM15	"dim15" : null,	
DIM16	"dim16" : null,	
DIM17	"dim17" : null,	
DIM18	"dim18" : null,	
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DIM20	"dim20" : null,	
DIM3	"dim3" : null,	
DIM4	"dim4" : null,	
DIM5	"dim5" : null,	
DIM6	"dim6" : null,	
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DISCOUNT_CURVE_NAME	"discountCurveName" : null,	
DISCOUNT_RATE		engine is mapped to DISCOUNT_CURVE_NAME
DISCOUNTED	"discounted" : null,	
EXERCISE_FREQ_TENOR	"exerciseFrequencyTenor" : null,	
EXERCISE_TYPE	"exerciseType" : null,	
FIRST_AMORTIZING_DATE	"firstAmortizationDate" : null,	

FIXING_CURRENT_VALUE	"fixingCurrentValue" : null,
FIXING_NEXT_DATE	"fixingNextDate" : null,
FIXING_PERIOD_TENOR	"fixingPeriodicityTenor" : null,
FIXING_PERIODICITY	"fixingPeriodicity" : null,
FIXING_RULE	"fixingRule" : null,
FLOOR	"floor" : null,
GUARANTOR_CODE	"guarantorCode" : null,
IMPORT_CF	"importCF" : null,
IMPORT_SOURCE	not in E2E
INDEXATION_DELAY	"indexationDelay" : null,
INDEXATION_INITIAL_VALUE	"indexationInitialValue" : null,
IRR_POSITION_DATE	"irrPositionDate" : null,
ISSUE_DATE	"issueDate" : null,
ISSUER_CODE	"counterparty" : null,
LGD	"lgd" : null,
LGD_EFF	"lgdEff" : null,
LIQ_SUB_TYPE	"liquiditySubtype" : null,
LOCKOUT_DATE	"lockoutDate" : null,
MATURITY_DATE	"maturityDate" : null,
MKT_SPREAD	"marketSpread" : null,
MOD_DURATION	not in E2E
MULT_SPREAD	"marginFactor" : null,
NATIONAL_MARKET	"nationalMarket" : null,
NDIM1	"ndim1" : null,
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NDIM11	"ndim11" : null,
NDIM12	"ndim12" : null,
NDIM13	"ndim13" : null,
NDIM14	"ndim14" : null,
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NDIM17	"ndim17" : null,
NDIM18	"ndim18" : null,

NDIM19	"ndim19" : null,	
NDIM2	"ndim2" : null,	
NDIM20	"ndim20" : null	
NDIM3	"ndim3" : null,	
NDIM4	"ndim4" : null,	
NDIM5	"ndim5" : null,	
NDIM6	"ndim6" : null,	
NDIM7	"ndim7" : null,	
NDIM8	"ndim8" : null,	
NDIM9	"ndim9" : null,	
NEXT_COUPON_DATE		only equity has it?
OFFER_PRICE	"offerPrice" : null,	
OPTION_TYPE	"optionType" : null,	
PAST_DUE_DAYS	"pastDueDays" : null,	
PAY_DAY_CONVENTION	"payDayConvention" : null,	
PERFORMING_STATUS	"performingStatus" : null,	
PRICE_INDICATOR	"priceIndicator" : null,	
PUT_PRICE	"putPrice" : null,	
QUOTED	"quoted" : null,	
RATE		transient
RATE_MARKET_CONVENTION_ID	"rateMarketConventionId" : null,	
RATE_TYPE	"rateType" : null,	
RATE_VALUE	"rateValue" : null,	
SECURED	"secured" : null,	
SECURITY_FAMILY	"securityFamily" : null,	
SECURITY_REFERENCE	"securityReference" : null,	
SECURITY_TYPE	"securityType" : null,	
SPREAD_CURVE_NAME	"spreadCurveName" : null,	
SPREAD_DISCOUNT_METHOD	"spreadDiscountedMethod" : null,	
SPREAD_MTRX_NAME	"spreadMatrixName" : null,	
SPREAD_MTRX_NAME SUB_TYPE	"spreadMatrixName" : null,	not in E2E

TENOR	"tenor" : null,
TENOR_BASED_FREQUENCY	"tenorBasedFrequency" : null,
UNITY_NOMINAL	"unityNominal" : null,
VOLATILITY	"volatility" : null,
VOLATILITY_TYPE	"volatilityType" : null,
YIELD	not in E2E

## • SECURITY\_POSITIONS mapping

ACCRUALS	"accruals" : null,
ACTUAL_CREDIT_SPREAD	"actualCreditSpread" : null,
AMORTIZED_COST	"amortizedCost" : null,
AMOUNT_1	"amount1" : null,
AMOUNT_1_CCY	"amount1Ccy" : null,
AMOUNT_2	"amount2" : null,
AMOUNT_2_CCY	"amount2Ccy" : null,
ATTRIBUTE_1	"attribute1" : null,
ATTRIBUTE_10	"attribute10" : null,
ATTRIBUTE_11	"attribute11" : null,
ATTRIBUTE_12	"attribute12" : null,
ATTRIBUTE_13	"attribute13" : null,
ATTRIBUTE_14	"attribute14" : null,
ATTRIBUTE_15	"attribute15" : null,
ATTRIBUTE_16	"attribute16" : null,
ATTRIBUTE_17	"attribute17" : null,
ATTRIBUTE_18	"attribute18" : null,
ATTRIBUTE_19	"attribute19" : null,
ATTRIBUTE_2	"attribute2" : null,
ATTRIBUTE_20	"attribute20" : null,
ATTRIBUTE_3	"attribute3" : null,
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ATTRIBUTE_5	"attribute5" : null,
ATTRIBUTE_6	"attribute6" : null,

ATTRIBUTE_7 ATTRIBUTE_8	"attribute7" : null,  "attribute8" : null,
	"attribute8" · null
	attributed . Hull,
ATTRIBUTE_9	"attribute9" : null,
BOOK_CODE	"bookCode" : null,
BUSINESS	"business" : null,
CALENDAR_CODE	"calendarCode" : null,
CCF_ADV	"ccfAdv" : null,
CENTRAL_BANK	"centralBank" : null,
CLIENT_PROPRIETARY	"clientProprietary" : null,
CONTRACT_TYPE	"contractType" : null,
CPTY_CODE	"counterparty" : null,
DEFERMENT_BEGIN_TENOR	"defermentBeginTenor" : null,
DEFERMENT_END_TENOR	"defermentEndTenor" : null,
DEFERMENT_MATURITY	"defermentMaturity" : null,
DEFERMENT_METHOD	"defermentMethod" : null,
DEFERMENT_RATE	"defermentRate" : null,
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DIM11	"dim11" : null,
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DIM13	"dim13" : null,
DIM14	"dim14" : null,
DIM15	"dim15" : null,
DIM16	"dim16" : null,
DIM17	"dim17" : null,
DIM18	"dim18" : null,
DIM19	"dim19" : null,
DIM2	"dim2" : null,
DIM20	"dim20" : null,
DIM3	"dim3" : null,
DIM4	"dim4" : null,
DIM5	"dim5" : null,
DIM6	"dim6" : null,

DIM7	"dim7" : null,	
DIM8	"dim8" : null,	
DIM9	"dim9" : null,	
FAMILY	"family" : null,	
FEES	"fees" : null,	
IMPORT_SOURCE	"importSource" : null,	
INDEXATION_BUYING_VALUE	"indexationBuyingValue" : null,	
INITIAL_YIELD	"initialYield" : null,	
ISSUE		Not in E2E
LIQ_PRODUCT_TYPE	"liquidityProductType" : null,	
LONG_SHORT	"longShort" : null,	
NDIM1	"ndim1" : null,	
NDIM10	"ndim10" : null,	
NDIM11	"ndim11" : null,	
NDIM12	"ndim12" : null,	
NDIM13	"ndim13" : null,	
NDIM14	"ndim14" : null,	
NDIM15	"ndim15" : null,	
NDIM16	"ndim16" : null,	
NDIM17	"ndim17" : null,	
NDIM18	"ndim18" : null,	
NDIM19	"ndim19" : null,	
NDIM2	"ndim2" : null,	
NDIM20	"ndim20" : null	
NDIM3	"ndim3" : null,	
NDIM4	"ndim4" : null,	
NDIM5	"ndim5" : null,	
NDIM6	"ndim6" : null,	
NDIM7	"ndim7" : null,	
NDIM8	"ndim8" : null,	
NDIM9	"ndim9" : null,	
NOMINAL	"nominal" : null,	
ORIGINAL_COST	"originalCost" : null,	

ORIGINATION_COUNTRY	"originationCountry" : null,	Not in E2E
POSITION_INITIAL_VALUE	"positionInitialValue" : null,	
PREMIUM_ACTUAL	"premiumActual" : null,	
PREMIUM_BUYING	"premiumBuying" : null,	
PRODUCT_GL_CRITERIA	"productGLCriteria" : null,	
RATE	"rate" : null,	
RISK_COUNTRY	"riskCountry" : null,	
SECURITY_REFERENCE	"securityReference" : null,	
SUB_TYPE	"subType" : null,	
TRADE_DATE	"tradeDate" : null,	
VALUE_DATE	"valueDate" : null,	
	·	

## • FACILITY mapping

ACCRUAL_BASIS	"accrualBasis" : null,
ACCRUALS	"accruals" : null,
AMOUNT	"amount" : null,
AMOUNT_1	"amount1" : null,
AMOUNT_1_CCY	"amount1Ccy" : null,
AMOUNT_2	"amount2" : null,
AMOUNT_2_CCY	"amount2Ccy" : null,
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ATTRIBUTE_11	"attribute11" : null,
ATTRIBUTE_12	"attribute12" : null,
ATTRIBUTE_13	"attribute13" : null,
ATTRIBUTE_14	"attribute14" : null,
ATTRIBUTE_15	"attribute15" : null,
ATTRIBUTE_16	"attribute16" : null,
ATTRIBUTE_17	"attribute17" : null,
ATTRIBUTE_18	"attribute18" : null,
ATTRIBUTE_19	"attribute19" : null,
ATTRIBUTE_2	"attribute2" : null,
ATTRIBUTE_20	"attribute20" : null,

ATTRIBUTE_3 ATTRIBUTE_4	"attribute3" : null,
ATTRIBUTE_4	
	"attribute4" : null,
ATTRIBUTE_5	"attribute5" : null,
ATTRIBUTE_6	"attribute6" : null,
ATTRIBUTE_7	"attribute7" : null,
ATTRIBUTE_8	"attribute8" : null,
ATTRIBUTE_9	"attribute9" : null,
AVAILABLE_AMOUNT	"availableAmount" : null,
BOOK_CODE	"bookCode" : null,
BUSINESS	"business" : null,
CALC_DAY_CONVENTION	"calcDayConvention" : null,
CALENDAR	"calendarCode" : null,
CCF_ADV	"ccfAdv" : null,
CLIENT_PROPRIETARY	"clientProprietary" : null,
COMMITED	"commited" : null,
COMPOUND_FREQ_TENOR	"compoundFrequency" : null,
COMPOUND_FREQUENCY	"compoundFrequencyTenor" : null,
CONTRACT_TYPE	"contractType" : null,
COUNTERPARTY_CODE	"counterparty" : null,
CURRENCY	"currency" : null,
CURVE_NAME	"curveName" : null,
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DIM13	"dim13" : null,
DIM14	"dim14" : null,
DIM15	"dim15" : null,
DIM16	"dim16" : null,
DIM17	"dim17" : null,
DIM18	"dim18" : null,
DIM19	"dim19" : null,
DIM2	"dim2" : null,

DIM20	"dim20" : null,	
DIM3	"dim3" : null,	
DIM4	"dim4" : null,	
DIM5	"dim5" : null,	
DIM6	"dim6" : null,	
DIM7	"dim7" : null,	
DIM8	"dim8" : null,	
DIM9	"dim9" : null,	
DISCOUNT_CURVE_NAME	"discountCurveName" : null,	
EFFECTIVE_YIELD	"effectiveYield" : null,	
FACILITY_LIQ_TYPE	"facilityLiquidityType" : null,	
FACILITY_TYPE	"facilityType" : null,	
FAMILY	"family" : null,	
FEES	"fees" : null,	
FIRST_FIXING_DATE	"firstFixingDate" : null,	
FIRST_PAYMENT_DATE	"firstPaymentDate" : null,	
FIXING_CURRENT_VALUE	"fixingCurrentValue" : null,	
FIXING_RULE	"fixingRule" : null,	
GROSS_CARRYING_VALUE	"gcv" : null,	
IMPORT_CF	"importCF" : null,	
IMPORT_SOURCE	"importSource" : null,	
FREQUENCY	"interestPeriodicity" : null,	
IRR_POSITION_DATE	"irrPositionDate" : null,	
REVOLVING	"isRevolvingFacility" : null,	
LAST_DRAWDOWN_DATE	"lastDrawdownDate" : null,	
LGD	"lgd" : null,	
LGD_EFF	"lgdEff" : null,	
LIQ_SUB_TYPE	"liquiditySubtype" : null,	
LONGER_TERM_DEBT	"longerTermDebt" : null,	
LTV	"ltv" : null,	
MULT_SPREAD	"marginFactor" : null,	
MKT_SPREAD	"marketSpread" : null,	
MATURITY_DATE	"maturityDate" : null,	

NDIM1	"ndim1" : null,	
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NDIM14	"ndim14" : null,	
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NDIM16	"ndim16" : null,	
NDIM17	"ndim17" : null,	
NDIM18	"ndim18" : null,	
NDIM19	"ndim19" : null,	
NDIM2	"ndim2" : null,	
NDIM20	"ndim20" : null	
NDIM3	"ndim3" : null,	
NDIM4	"ndim4" : null,	
NDIM5	"ndim5" : null,	
NDIM6	"ndim6" : null,	
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NDIM8	"ndim8" : null,	
NDIM9	"ndim9" : null,	
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PAST_DUE_DAYS	"pastDueDays" : null,	
PAY_DAY_CONVENTION	"payDayConvention" : null,	
PERFORMING_STATUS	"performingStatus" : null,	
FREQUENCY_TENOR	"periodicityTenor" : null,	
PRODUCT_GL_CRITERIA	"productGLCriteria" : null,	
INTEREST_RATE	"rate" : null,	
RATE_TYPE	"rateType" : null,	
RESET_FREQUENCY	"resetFrequency" : null,	
RESET_FREQ_TENOR	"resetFrequencyTenor" : null,	
RISK_COUNTRY	"riskCountry" : null,	
SHORT_TERM_DEBT	"shortTermDebt" : null,	
SUB_TYPE	"subType" : null,	

TENOR	"tenor" : null,	
TENOR_BASED_FREQUENCY	"tenorBasedFrequency" : null,	
TRADE_DATE	"tradeDate" : null,	
TROUBLED_DBT_RESTRUCTURED	"troubledDbtRestructured" : null,	
USED_AMOUNT	"usedAmount" : null,	
VALUE_DATE	"valueDate" : null,	
CURRENT_LTV		Not in E2E

## 7 Performance statistics

## 8 Pending items & Bug Tracking

Items	Bug or Pending?	Bug or Pending?	
Linked loans	De-Prioritized (Pending	Ramya	
	development)		