

# BIAN Tech: CI/CD, Apps, Open Source and Adoption

Arnab Mitra

Reference Implementations & Feedback

DevOps & Open Source

BIAN Apps – UX - Roadmap

Approval App – Comparison Screen

Approval App -> Certification App, Comparer App & Model Browser

Model Browser – Business Scenarios & Wireframes

BIAN Tech Offerings

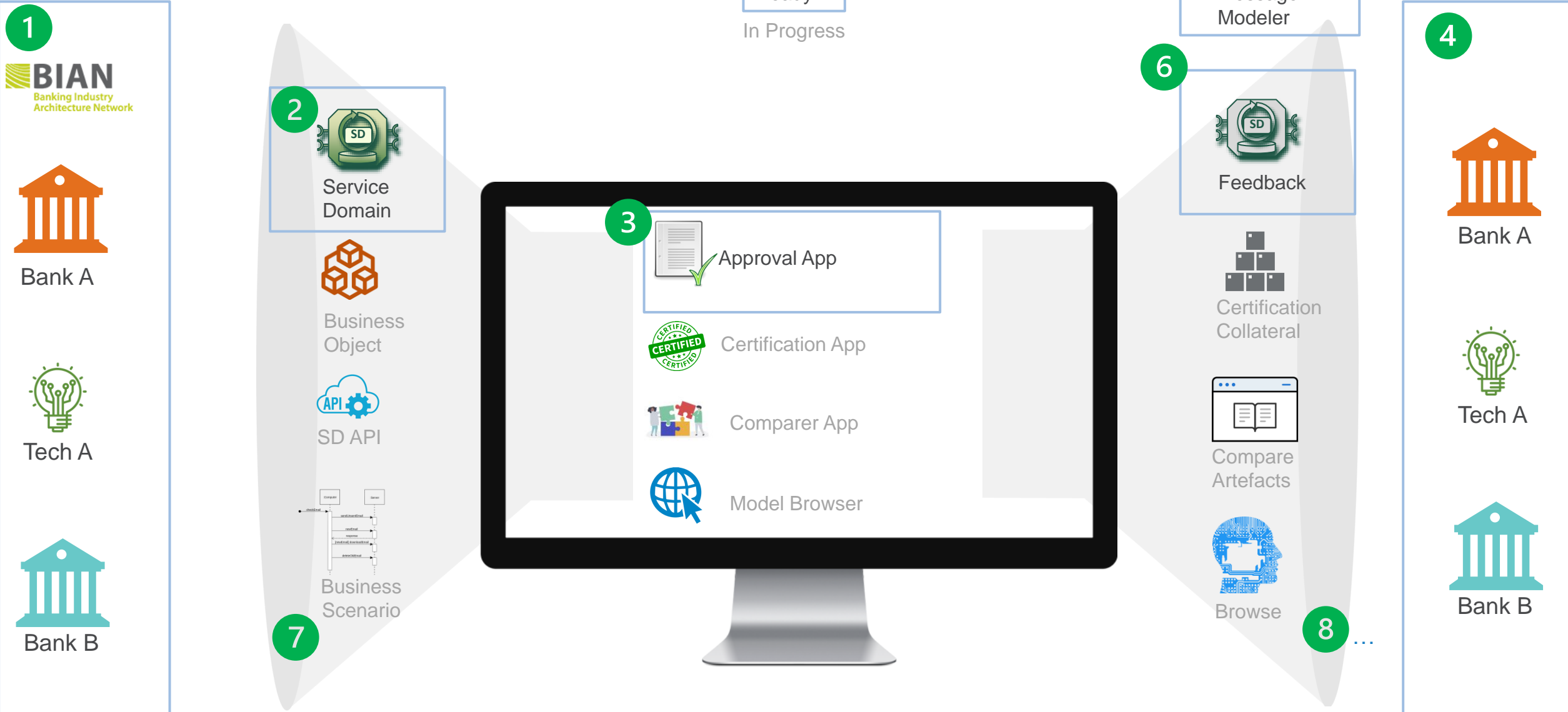
BIAN Applications

## OVERVIEW





# BIAN Apps – UX – Roadmap



- Service Landscape
- Reference Implementations

<sup>1</sup> For April 1

# Approval App – Comparison Screen

BIAN v10.0.0

BIAN v10.0.0

BANKB v10.0.0

BANKC v10.0.0

VIRTUSA v10.0.0

Account Reconciliation

Accounts Receivable

Reward Points Account

Delinquent Account Handling

Internal Bank Account

Investment Account

Corporate Current Account

Current Account

Savings Account

Virtual Account

Cash Management And Account Services

Financial Accounting

Account Recovery

Account Recovery

Process

Account Recovery

Operations

Complete work tasks following a defined procedure in support of general office activities and product and service delivery within Account Recovery.

Custody, Collateral And Documents

Complete work tasks following a defined procedure in support of general office activities and product and service delivery within Account Recovery.

AccountRecoveryProcedure

Complete work tasks following a defined procedure in support of general office activities and product and service delivery within Account Recovery.

Behaviour Qualifiers

behaviourQualifiers

Service Operations

serviceOperations

InCR Initiate the account recovery procedure

Updated

Input Attributes

AccountRecoveryCaseType

String

ProductInstanceReference

Object

LinkedProductInstanceReference

Object

CustomerReference

Object

EmployeeOrBusinessUnitReference

Object

Account Recovery

Process

Account Recovery

Operations

Complete work tasks following a defined procedure in support of general office activities and product and service delivery within Account Recovery.

Custody, Collateral And Documents

Complete work tasks following a defined procedure in support of general office activities and product and service delivery within Account Recovery.

AccountRecoveryProcedure

Complete work tasks following a defined procedure in support of general office activities and product and service delivery within Account Recovery.

Behaviour Qualifiers

behaviourQualifiers

Service Operations

serviceOperations

InCR Initiate the account recovery procedure

Updated

Input Attributes

TestCRAAttributeAdd

String

Add

TestUpdateAccountRecoveryCaseType

String

Update

ProductInstanceReference

Object

LinkedProductInstanceReference

Object

CustomerReference

Object

Account

Feedback Domain

Account Recovery

COMPARE

SEND BACK


PUBLISH

APPROVE


- 1. BIAN & Reference Implementations
- 2. Choose Item (SD)
- 3. Item (SD) – detail
- 4. Feedback (SD)
- 5. Choose Feedback Item (SD)
- 6. Feedback Item (SD) – detail
- 7. Differences (on compare)
- 8. Approve / Publish / Send back

COMPARE


# Approval App -> Certification App, Comparer App & Model Browser




5



9+



B



BIAN v10.0.0

BIAN v10.0.4

GO BACK

SD

Service Domain

Add, Compare, Edit and Delete Service Domain Attributes

View Service Domains →

BO

Busines Objects

Add, Compare, Edit and Delete Busines Objects Attributes

View Business Objects →

BC

Classes

Add, Compare, Edit and Delete Business Object Classes Attributes

View Classes →

DT

Data Types

Add, Compare, Edit and Delete Business Object Data Types Attributes

View Data Types →

BE

Enumerations

Add, Compare, Edit and Delete Business Object Enumerations Attributes

View Enumerations →

BP

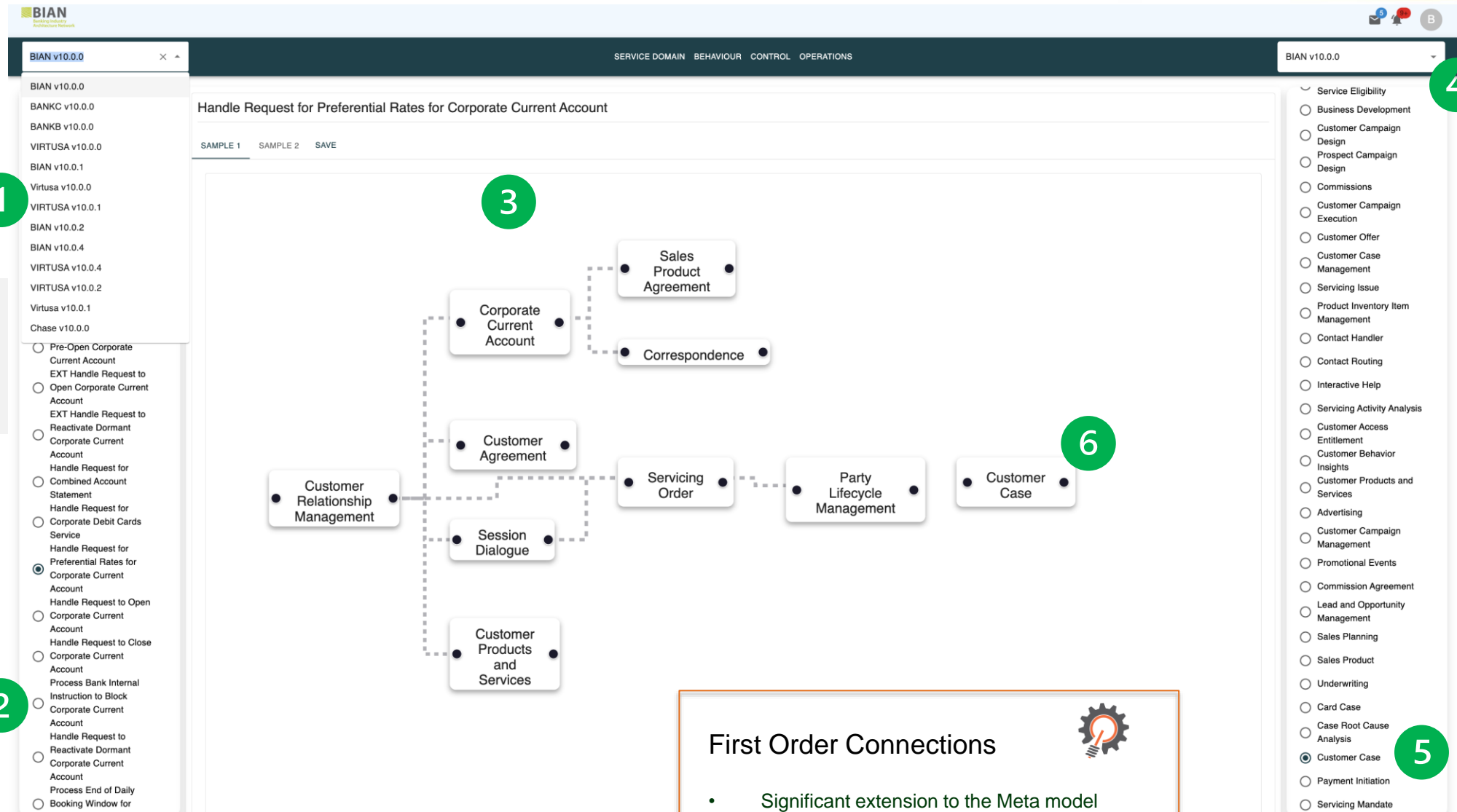
Primitive Types

Add, Compare, Edit and Delete Business Object Primitive Types Attributes

View Primitive Types →

# Model Browser – Business Scenarios & Wireframes

1. BIAN & Reference Implementations
2. Choose Item (Business Scenario)
3. Item (BS) – detail
4. Service Domains
5. Choose Item (SD)
6. Feedback Item (SD) – added to BS





## BIAN Tech Offerings



SD WG



BIAN Architects



Approval App



Certification App



Comparer App



Model Browser



bian.org



BiZZdesign



Swagger  
Supported by SMARTBEAR



Message Modeler

UI Layer



Enterprise  
Architects



Technical  
Architects



Developer  
Community



External Tools



## API Layer

Live

Live (Q1 2022)

Started



**Security**  
Authentication  
Authorization  
User Management



**Model Access**  
Service Domains  
Business Objects  
Business Scenarios

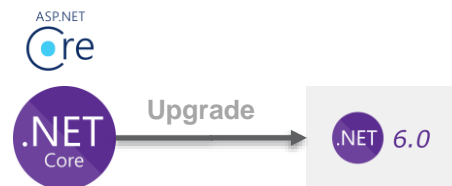


**Functions**  
Differences



**Content Manager**  
API to Service Domain  
Service Domain to API

# BIAN Applications



**NoSql DB**  
• 7 Database instances



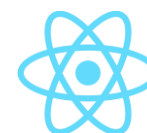
**App Service**  
• 16 MS/API deployments



**Kubernetes Service**  
• 1 MS / API



**Web**  
• 5 website instances



**Team**  
• 3 Part-time developers

BIAN Service Landscape

BIAN Artefacts

BIAN Portal

Service Domain

Business Scenario -> Service Domain API

Use-Case : Corporate Customer Onboarding

BIAN Landscape using APIs - Model APIs

Model API – SD – Current Account

DevOps & Open Source

BIAN Tech Offerings

# API

# BIAN Service Landscape

## Business Direction

### Corporate Services

Legal Compliance
Internal Audit
Security Advisory
Security Assurance
Continuity Planning

### Corporate Relations

Investor Relations
Corporate Relationship
Corp Alliance/Stakeholder
Corporate Communications

### Business Direction

Corporate Policies
Corporate Strategy
Organizational Direction
Product & Service Direction
HR Direction
IT Systems Direction
Asset & Liability Mgmt
Property Portfolio

## Resource Management

### Unit Management

Business Unit Direction	Business Unit Financial Ops
Business Unit Management	Business Unit Accounting
Business Unit Fin Analysis	

### Human Resources

Recruitment	Empl Payroll & Incentives
Employee Assignment	Employee Benefits
Employee Evaluation	Workforce Training
Employee Certification	Travel & Expenses
Empl/Contractor Contract	Employee Access
Employee Data Mgmt	

### Platform Operations

Systems Assurance	Internal Network Operation
System Deployment	Platform Operations
Systems Operations	Systems Help Desk

### Buildings & Equipment

Fixed Asset Register	Utilities Administration
Procurement	Site Operations
Equipment Administration	Building Maintenance
Equipment Maintenance	Site Administration

### IP & Knowledge

Intellectual Property Port
Management Manual
Business Architecture
Knowledge Exchange

### Models & Analytics

Contribution Models	Quant Model
Customer Behavior Models	Trading Models
Credit Risk Models	Fin Inst Valuation Models
Fraud Models	Market Risk Models
	Liquidity Risk Models

### Solution Devel.

IT Stds & Guidelines
Systems Administration
Development Environment
System Development

### Product Management

Product Portfolio	Product Quality Assurance
Product Design	Product Training
Production Release	Case Root Cause Analysis
Product Deployment	Product Directory

### Marketing & Development

Business Development	Market Research
Customer Portfolio	Market Analysis
Contribution Analysis	Competitor Analysis
Segment Direction	Customer Campaign Mgmt
Brand Management	Customer Campaign Design
Sales Planning	Prospect Campaign Mgmt
Advertising	Prospect Campaign Design
Promotional Events	Customer Surveys

### Channel Management

Channel Portfolio	Branch Location Mgmt
Branch Portfolio	ATM Network Mgmt
Contact Center Management	Branch Network Mgmt
Servicing Activity Analysis	Advanced Voice Svs Mgmt
Financial Message Analysis	E-Branch Management
Channel Activity Analysis	Product Inventory Item Mgmt
Information Provider Admin	Central Cash Handling
Market Data Switch Adm	Branch Currency Mgmt

## Finance & Risk Management

### Financial Control

Financial Control	Company Billing & Payments
Financial Compliance	Approved Supplier Directory
Financial Statements	Enterprise Tax Admin

### Operational Risk

Business Risk Models
Operational Risk Models
Production Risk Models

### Group Treasury

Corporate Treasury
Corporate Treasury Analysis
Bank Portfolio Admin
Bank Portfolio Analysis
Asset Securitization

### Market Risk

Credit/Margin Management
Gap Analysis
Limit & Exposure Mgmt
Position Management
Economic Capital

### Credit Risk

Credit Management
Counterparty Risk
Fraud/AML Resolution

### Regulatory Compliance

Regulatory & Legal Authority
Regulatory Compliance
Regulatory Reporting
Guideline Compliance
Compliance Reporting

## Operations

### Clearing & Settlement (Payments)

Settlement Obligation Mgmt.	Cheque Processing
Order Allocation	ACH Fulfillment
Corresp Bank Data Mgmt	Transaction Engine
Counterparty Administration	Payment Order
Correspondent Bank	Payments Execution
Card eCommerce	Card Clearing
Card Financial Settlement	

### Custody, Collateral & Documents

Custody Administration	Collections
Collateral Allocation Mgmt	Document Services
Collateral Allocation Admin	Archive Services
Account Recovery	

### Accounting Services

Position Keeping	Customer Tax Handling
Customer Position	Commissions
Accounts Receivable	Fraud Detection
Financial Accounting	Account Reconciliation
Reward Points Account	

### Operational Services

Customer Billing	Product Combination
Disbursement	Rwd Points Awards & Red.
Dunning	Issued Device Admin
Open Item Management	Issued Device Tracking
Delinquent Account	Card Transaction Switch
Card Collections	

### External Agency

Interbank Relationship Mgmt	Product Broker Agreement
Corresp Bank Rel Mgmt	Sub Custodian Agreement
Syndicate Management	Commission Agreement
Product Service Agency	Contractor/Supplier Agmt

## Products

Trading Book Oversight	Credit Risk Operations
Trade Confirmation Matching	Securities Falls Processing
Securities Dlvr & Rcpt Mgmt	Financial Inst Valuation
Trade/Price Reporting	Corporate Events

### Investment Products

ECM/DCM	Unit Trust Administration
Private Placement	Hedge Fund Administration
Public Offering	Mutual Fund Administration

### Loans & Deposits

Loan	Consumer Loan
	Mortgage
Corporate Lease	Merchandising Loan
Leasing Item Administration	Leasing
Syndicated Loan	Deposit Account
Fiduciary Agreement	Savings Account
Underwriting	Corporate Deposits

### Cards

Credit/Charge Card	Merchant Relations
Card Authorization	
Card Capture	Card Network Participant
Card Billing & Payments	Merchant Acquiring

### Market Trading

Traded Position Mgmt	Quote Management
Market Order	Market Making
Market Order Execution	Program Trading
Dealer Workbench	Stock Lending/Repos
Suitability Checking	

### Advisory Services

M&A Advisory	Corporate Tax Advisory
Corporate Finance	Consumer Advisory Services

### Trade Banking

Trade Finance	Letter of Credit
Bank Guarantee	Bank Drafts & Trnl. Checks

### Corporate Banking

Corporate Current Account	Direct Debit Mandate
Cash Mgmt & Account Svs	Direct Debit
Corporate Trust Services	Cheque Lock Box
Credit Facility	Factoring
Project Finance	

### Consumer Banking

Current Account	Trust Services
Brokered Product	Payment Initiation
Service Product	Currency Exchange
Sales Product	

## Customers

### Party Reference

Party Data Management
Customer Ref Data Mgmt
Location Data Management

### Investment Svs

Consumer Investments
eTrading Workbench
Investment Portfolio Planning
Investment Portfolio Analysis
Investment Portfolio Mgmt

### Relationship Mgmt

Customer Relationship Mgmt
Customer Behavioral Insights
Customer Credit Rating
Customer Agreement
Sales Product Agreement
Cust Prod./Service Eligibility
Customer Precedents
Customer Proposition
Customer Event History

### Sales

Cust Campaign Execution
Lead/Opportunity Mgmt
Prospect Campaign Exec
Party Lifecycle Management
Product Sales Support
Product Expert Sales Support
Product Matching
Customer Offer
Spec/Discount Pricing Conds

### Customer Orders

Customer/Servicing Order
Customer Case Mgmt
Customer Case
Card Case

## Channels

### Informtn. Providers

Public Reference Data Mgmt
Financial Instr Ref Data Mgmt
Financial Market Research
Financial Market Analysis
Market Information Mgmt
Market Data Switch Ops
Information Provider Ops

### Cross Channel

Customer Workbench
Contact Handler
Contact Routing
Contact Dialogue
Customer Profile
Party Authentication
Customer Access Entitlement
Transaction Authorization
Channel Activity History

### Channel Specific

ATM Network Operations
Branch Location Operations
Advanced Voice Svs Ops
E-Branch Operations
Financial Gateway
Card Terminal
Card Terminal Operation

### Servicing

Contact Center Operations
Point of Service
Interactive Help
Servicing Issue
Servicing Event History

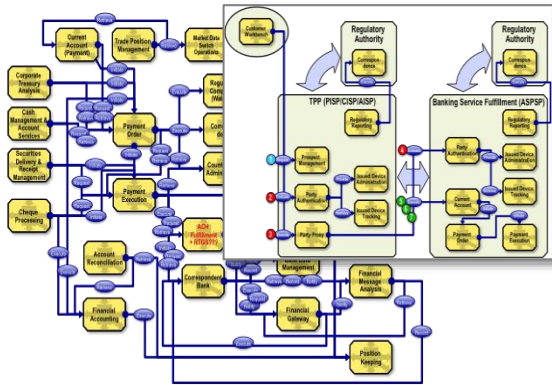
### Distribution

Product Inventory Distribution
Branch Currency Distribution
Correspondence

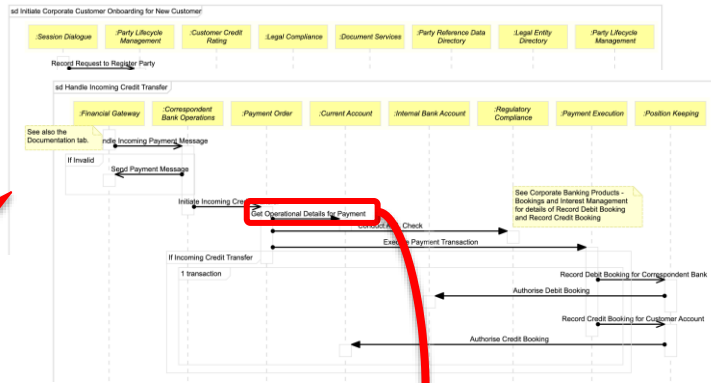
## Business Development

# BIAN Artefacts

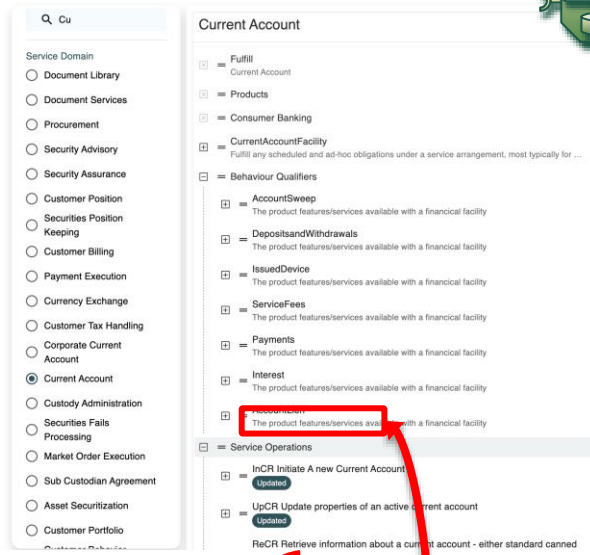
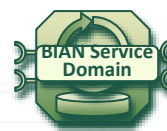
## 1 - Wireframe Scope Service Domains & External Boundaries



## 2 - Business Scenarios Define business context for API access



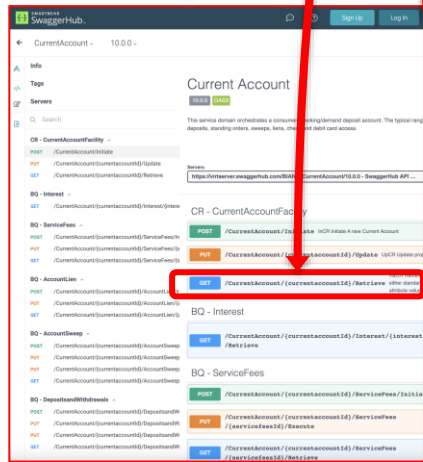
## 3 - SD CR Extension Templates Add definition to Service Domains' services, events and information



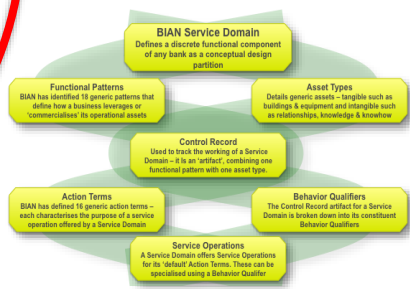
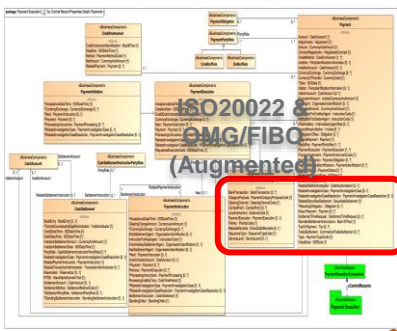
## 6 - Message Mapping (background) Map to any available message standards



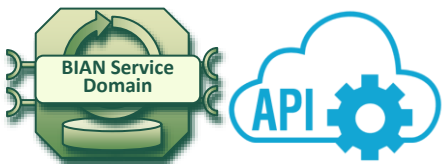
## 5 - SD API Specification



## 4 - Business Object Model Define business terms (map to available data standards)







1. Service Domain APIs

1

BIAN Portal

Service Domain APIs

**Semantic API Portal**

Service Domain definitions | APIs | Related Business Scenarios | BOMs

[ACCESS >](#) [HOW TO USE THE PORTAL? >](#)

Architecture

**Service Landscape**

Service Landscape | Business Capabilities | BOMs | Business Scenarios

[DIGITAL REPOSITORY >](#)

How-to-Guides

**Practitioner Guide**

[DOWNLOAD >](#)

Service Domain APIs & Open Source

**GitHub**

Semantic API definitions | Download | Contribute

[ACCESS >](#)

Model Access & Feedback API

**Sandbox**

Service Domains | Business Capabilities | BOMs | Business Scenarios

[SANDBOX API >](#) [HELP >](#)

Model Access & Feedback API

**Live**

Service Domains | Business Capabilities | BOMs | Business Scenarios

[LIVE API >](#) [HELP >](#)



2

2. Model APIs

# Service Domain

BIAN

Banking Industry Architecture Network

Current Account

BIAN Service Domain

BIAN v10.0.0

SERVICE DOMAIN

Q Cu

Service Domain

Document Library

Document Services

Procurement

Security Advisory

Security Assurance

Customer Position

Securities Position Keeping

Customer Billing

Payment Execution

Currency Exchange

Customer Tax Handling

Corporate Current Account

Current Account

Custody Administration

Securities Falls Processing

Market Order Execution

Sub Custodian Agreement

Asset Securitization

Customer Portfolio

Current Account

Fulfill

Current Account

Products

Consumer Banking

CurrentAccountFacility

Fulfill any scheduled and ad-hoc obligations under a service arrangement, most typically for ...

Behaviour Qualifiers

AccountSweep

The product features/services available with a financial facility

DepositsandWithdrawals

The product features/services available with a financial facility

IssuedDevice

The product features/services available with a financial facility

ServiceFees

The product features/services available with a financial facility

Payments

The product features/services available with a financial facility

Interest

The product features/services available with a financial facility

AccountLien

The product features/services available with a financial facility

Service Operations

InCR Initiate A new Current Account

Updated

UpCR Update properties of an active current account

Updated

ReCR Retrieve information about a current account - either standard canned

Instance  
With Attributes

Features  
With Attributes

Endpoints  
OR Functions, Methods

SMARTBEAR

SwaggerHub

CurrentAccount 10.0.0

Info

Tags

Servers

CR - CurrentAccountFacility

POST

/CurrentAccount/Initiate

PUT

/CurrentAccount/{currentaccountId}/Update

GET

/CurrentAccount/{currentaccountId}/Retrieve

BQ - Interest

GET

/CurrentAccount/{currentaccountId}/Interest/{interest}

BQ - ServiceFees

POST

/CurrentAccount/{currentaccountId}/ServiceFees/Initiate

PUT

/CurrentAccount/{currentaccountId}/ServiceFees/{servicefeesId}/Execute

GET

/CurrentAccount/{currentaccountId}/ServiceFees/{servicefeesId}/Retrieve

BQ - AccountLien

POST

/CurrentAccount/{currentaccountId}/AccountLien/Initiate

PUT

/CurrentAccount/{currentaccountId}/AccountLien/{accountlienId}/Update

GET

/CurrentAccount/{currentaccountId}/AccountLien/{accountlienId}/Retrieve

BQ - AccountSweep

POST

/CurrentAccount/{currentaccountId}/AccountSweep/Initiate

PUT

/CurrentAccount/{currentaccountId}/AccountSweep/{accountsweepId}/Execute

GET

/CurrentAccount/{currentaccountId}/AccountSweep/{accountsweepId}/Retrieve

BQ - DepositsandWithdrawals

POST

/CurrentAccount/{currentaccountId}/DepositsandWithdrawals/Initiate

PUT

/CurrentAccount/{currentaccountId}/DepositsandWithdrawals/{depositsandwithdrawalsId}/Execute

GET

/CurrentAccount/{currentaccountId}/DepositsandWithdrawals/{depositsandwithdrawalsId}/Retrieve

Current Account

10.0.0 OAS3

This service domain orchestrates a consumer checking/demand deposit account. The typical range of deposits, standing orders, sweeps, liens, check and debit card access.

https://virtserver.swaggerhub.com/BIAN-3/CurrentAccount/10.0.0 - SwaggerHub API ...

POST

/CurrentAccount/Initiate

InCR Initiate A new Current Account

PUT

/CurrentAccount/{currentaccountId}/Update

UpCR Update properties of an active current account

GET

/CurrentAccount/{currentaccountId}/Retrieve

ReCR Retrieve information about a current account - either standard canned or custom

GET

/CurrentAccount/{currentaccountId}/Interest/{interest}/Retrieve

POST

/CurrentAccount/{currentaccountId}/ServiceFees/Initiate

PUT

/CurrentAccount/{currentaccountId}/ServiceFees/{servicefeesId}/Execute

GET

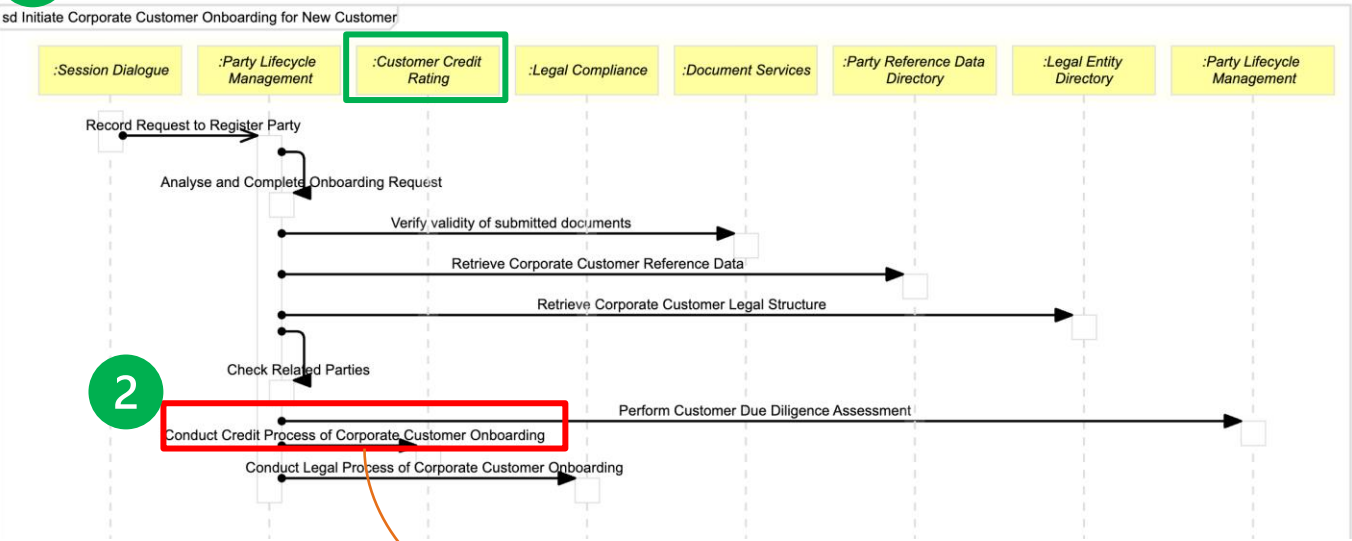
/CurrentAccount/{currentaccountId}/ServiceFees/{servicefeesId}/Retrieve

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# Business Scenario -> Service Domain API

## 1 Initiate Corporate Customer Onboarding for new Customer



### Key



1. Business Scenario
2. Service Connection
3. Service Connection - Detail
4. Service Operation
5. API endpoint

## Customer Credit Rating

10.0.0 OAS3

This service domain maintains and administers the bank's credit assessment for customers based on consolidated internal data and optionally by referencing external credit agency reports

### Servers

<https://virtserver.swaggerhub.com/BIAN-3/CustomerCreditRating/10.0.0> - SwaggerHub API ...

### CR - CustomerCreditRatingState

POST	/CustomerCreditRating/Initiate	InCR Initiate credit state monitoring for a customer
PUT	/CustomerCreditRating/{customercreditratingId}/Execute	ExCR Execute an automated task for credit state (e.g. auto refresh)
PUT	/CustomerCreditRating/{customercreditratingId}/Request	RqCR Request manual intervention for credit state (e.g. revise underlying assessment)
GET	/CustomerCreditRating/{customercreditratingId}/Retrieve	ReCR Retrieve details about credit state monitoring for a customer
PUT	/CustomerCreditRating/{customercreditratingId}/Alerts/{alertsId}/Capture	CaBQ Capture notification of a credit alert
GET	/CustomerCreditRating/{customercreditratingId}/Alerts/{alertsId}/Retrieve	ReBQ Retrieve details about a credit alert
	/CustomerCreditRating/{customercreditratingId}/InternalReporting	CaBQ Capture internal

## Conduct Credit Process of Corporate Customer Onboarding (Message)

### Properties

Property	Value
1. Service Operation	ReCR Retrieve details about credit state monitoring for a customer

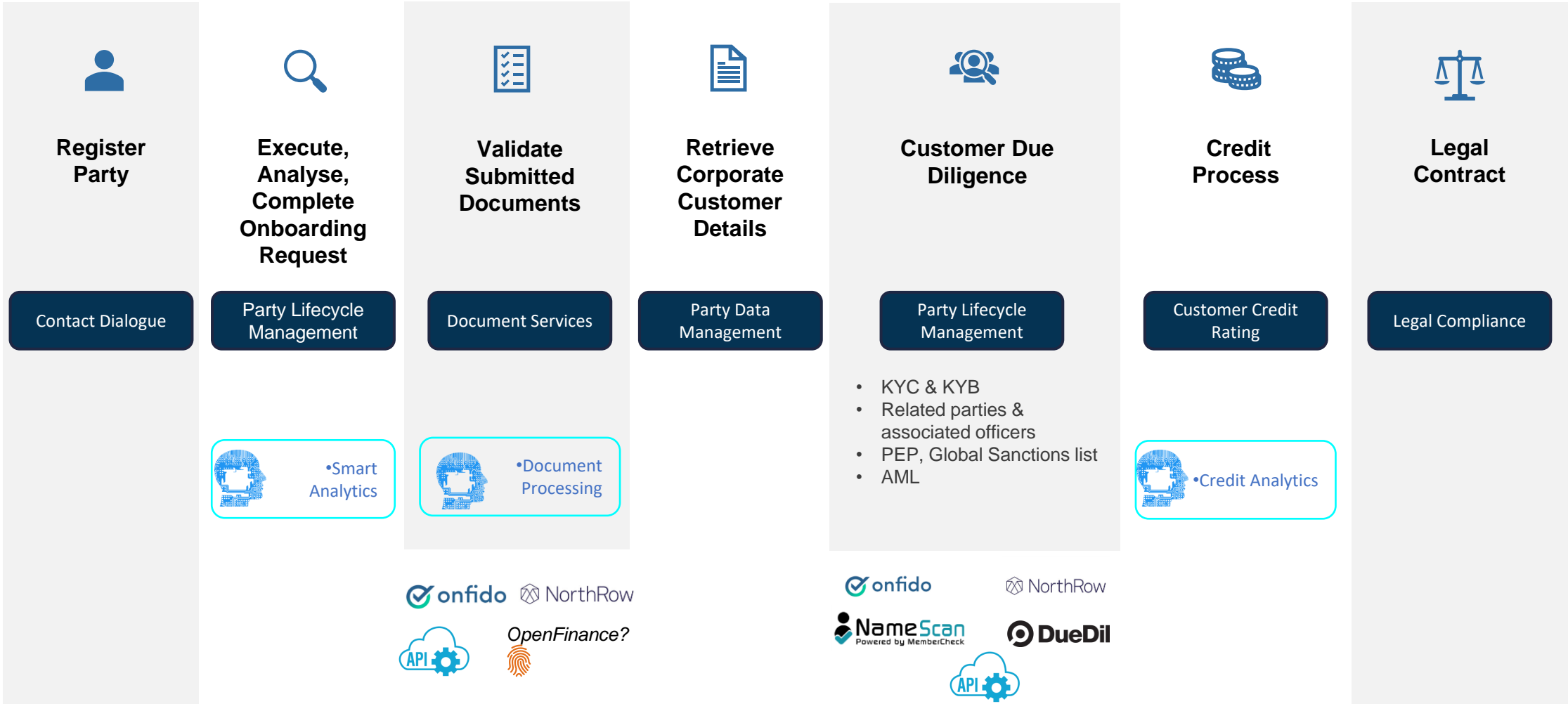


# Use-Case : Corporate Customer Onboarding

B<sup>1</sup>

AI<sup>2</sup>

FT<sup>3</sup>

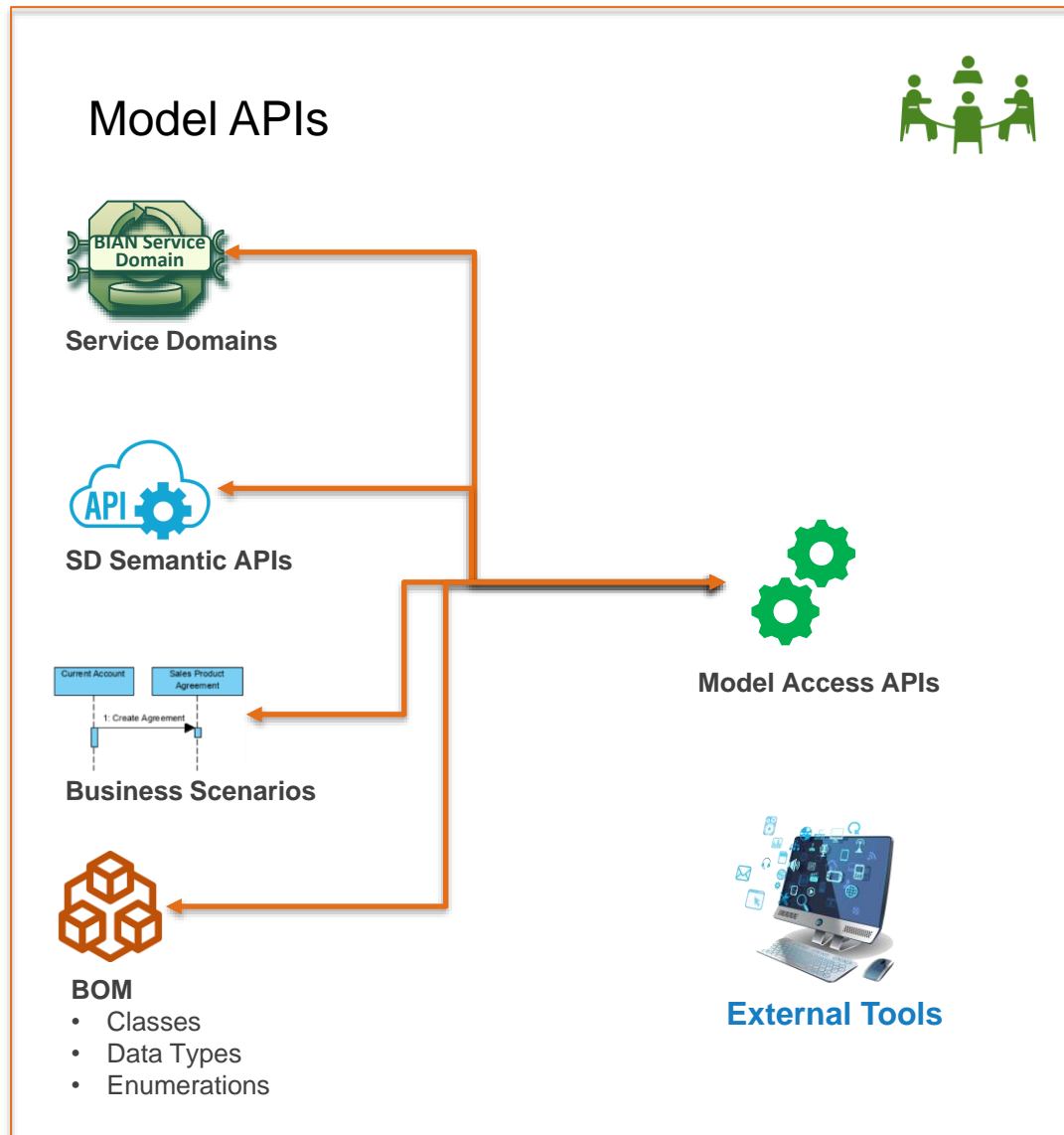


1. BIAN Service Domains

2. AI

3. FinTech APIs

# BIAN Landscape using APIs - Model APIs



## Key Features

- API endpoints and Swagger (OAS3) definition
  - [Sandbox](#)
  - [Live](#)
- Help Pages.
  - Sandbox: <https://bian.org/deliverables/bian-portal/model-api-live-help/>
  - Live: <https://bian.org/deliverables/bian-portal/model-api-sandbox-help/>
- Postman Collections – for calling the endpoints
  - Sandbox: [https://bian.org/wp-content/uploads/2021/12/Model-Access-API\\_Sandbox.postman\\_collection.json.zip](https://bian.org/wp-content/uploads/2021/12/Model-Access-API_Sandbox.postman_collection.json.zip)
  - Live: [https://bian.org/wp-content/uploads/2021/12/Model-Access-API\\_Live.postman\\_collection.json.zip](https://bian.org/wp-content/uploads/2021/12/Model-Access-API_Live.postman_collection.json.zip)



## Model API – SD – *Current Account*

1

2

3

4

5

```

"apiConsole": "https://app.swaggerhub.com/apis/BIAN/3/C",
"htmlPage": null,
"api": null,
"apiVersion": "1.0.0",
"apiId": "BIAN-10.0.0-CurrentAccount",
"uid": "BIAN-10.0.0-CurrentAccount",
"biid": "7d3fba2d-3a60-e911-8237-06b0413421dc",
"meta": {
  "organisation": "BIAN",
  "organisationVersion": null,
  "organisationInstance": null,
  "version": "10.0.0",
  "comments": null,
  "differences": null,
  "feedback": null,
  "name": "BIAN_Release_10.0.0",
  "displayName": null,
  "description": null,
  "uid": "BIAN_Release_10.0.0"
},
"name": "Current Account",
"displayName": "Current Account",
"description": null,
"status": "Registered"

```

```

response.body
  @Header "Access-Token": "Set-up current account facilities/issue cards, check-books for an account/Process deposits and withdraw
  @Header "standing orders and direct debits/Process fees and apply interest charges/Provide balance/statement, and report
  "
  "id": 123,
  "uid": "BIAN-10.0-CurrentAccount",
  "binId": "7d3fba2d-3a60-e911-8237-0600480421dc",
  "meta": {
    "organization": "BIAN",
    "currentAccountVersion": null,
    "currentBalance": null,
    "version": "10.0.0",
    "differences": null,
    "feedback": null,
    "name": "BIAN-Release-10.0.0",
    "displayName": null,
    "description": null,
    "uid": "BIAN-Release-10.0.0"
  },
  "name": "Current Account",
  "displayName": null,
  "description": null,
  "status": "Registered"
}

```

```
Response body
{
  "keyFeatures": [
    "Set-up current account facilities|Issue cards, check-books for an account|Process deposits and withdrawals|Handle standing orders and direct debits|Process fees and apply interest charges|Provide balance/statements and report s",
    {
      "id": 138,
      "uid": "B7AN-10.0.0-CurrentAccount",
      "bianId": "7d3fba2d-3a60-e911-8237-06b0480421dc",
      "meta": {
        "organisation": "BIAN",
        "organisationVersion": null,
        "organisationInstance": null,
        "version": "10.0.0",
        "comments": null,
        "differences": null,
        "feedback": null,
        "name": "BIAN_Release_10.0.0",
        "displayName": null,
        "description": null,
        "uid": "BIAN_Release_10.0.0"
      }
    },
    {
      "name": "Current Account",
      "displayName": null,
      "description": null,
      "status": "Registered"
    }
  ],
  f
}
```

**GET** `/ServiceDomainByBianId/{bianId}/{organisation}/{version}`

How to call this endpoint:

Please call Get /ServiceDomainsBasic endpoints to get a list of BianId s for all Service Domains. Ple of BianId s for all Service Domains

To get a list of organisation and versions available, please call the Get /Metas endpoint

### Parameters

Name	Description
------	-------------

```
bianId * required
string 7d3fba2d-3a60-e911-8237-06b0480421dc
```

**organisation** ★ required

```
string  
(path)
```

version ★ required  
string 10.0.0

### Execute

### Response body

```

"apiConsole": "https://app.swaggerhub.com/apis/BIAN-3/3/0",
"htmlPage": null,
"api": null,
"apiStatus": "Updated",
"id": 138,
"uid": "BIAN-10.0.0-CurrentAccount",
"bianId": "7d3fba2d-3a60-e911-8237-06b0480421dc",
"meta": {
  "organisation": "BIAN",
  "organisationVersion": null,
  "organisationInstance": null,
  "version": "10.0.0",
  "comments": null,
  "differences": null,
  "feedback": null,
  "name": "BIAN_Release_10.0.0",
  "displayName": null,
  "description": null,
  "uid": "BIAN_Release_10.0.0"
},
"name": "Current Account",
"displayName": "Current Account",
"description": null,
"status": "Registered"

```

ServiceDomain v {

```
id                                integer($int32)
uid                              string
                                nullable: true
bianId                           string
                                nullable: true
meta                             Meta > {...}
name                             string
                                nullable: true
description                       string
                                nullable: true
status                           string
                                nullable: true
serviceDomainID                  integer($int32)
characteristics                   ServiceDomain
extendedDefinition                boolean
businessArea                     BusinessArea
businessDomain                   BusinessDomain
controlRecord                     ControlRecord
behaviourQualifiers              > [...]
serviceOperations                 > [...]
executiveSummary                 string
                                nullable: true
examplesOfUse                     string
                                nullable: true
roleDefinition                   string
                                nullable: true
businessScenarios                 > [...]
coreBusinessObject               string
                                nullable: true
keyFeatures                       string
                                nullable: true
fromServiceConnectionParts       > [...]
toServiceConnectionParts         > [...]
apiConsole                       string
                                nullable: true
htmlPage                         HtmlPage > {...}
api                              Api > {...}
```



Roadmap 2022

BIAN Portal – Google Analytics

Roadmap 2022

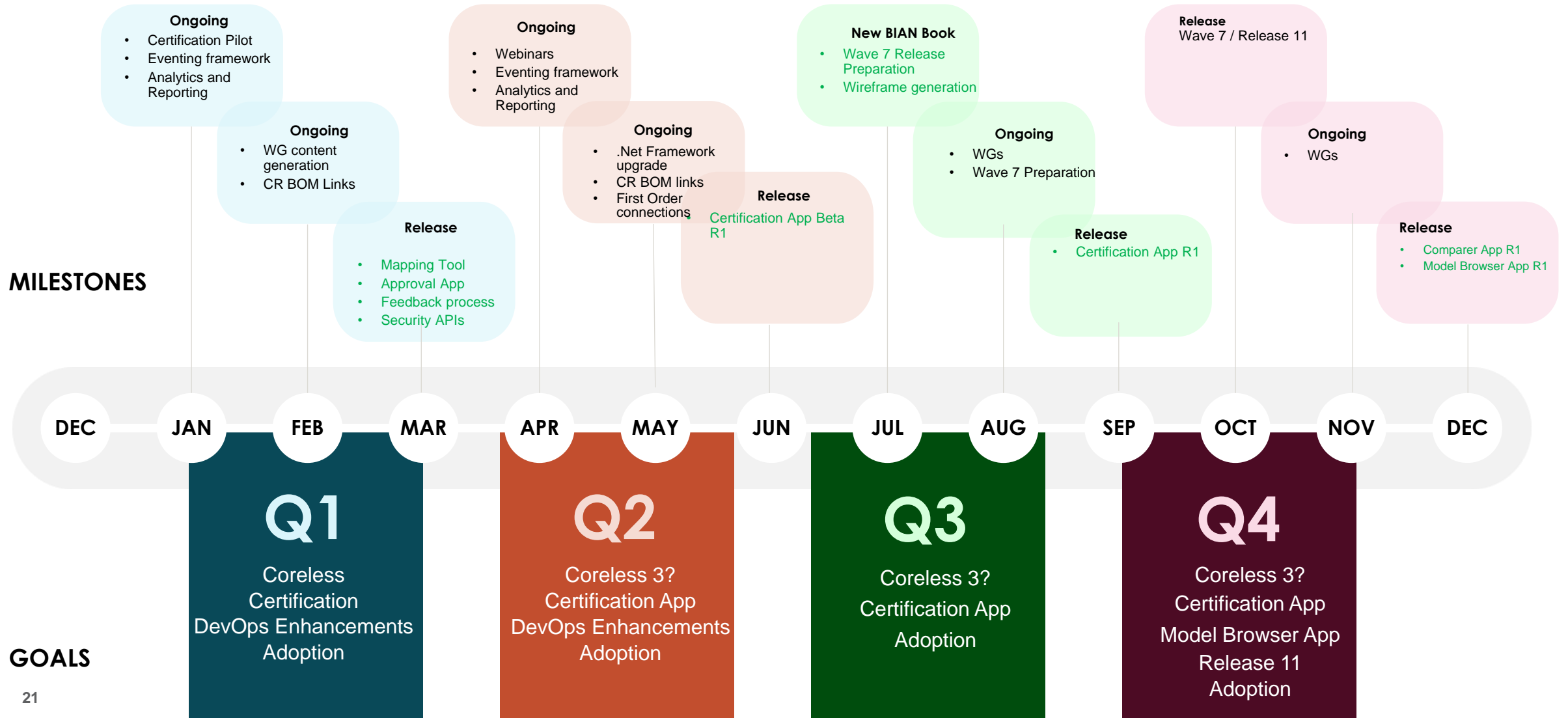
## MISCELLANEOUS

# Roadmap 2022

Current – Q2



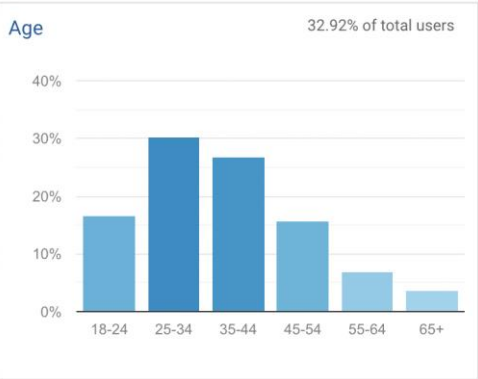
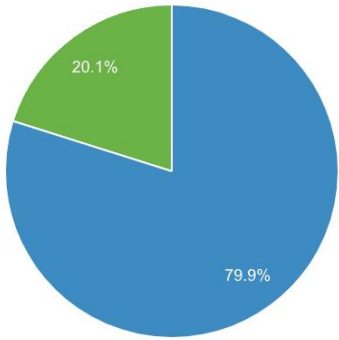
## MILESTONES



# BIAN Portal – Google Analytics

Mar 1, 2022 - May 3, 2022

New Visitor Returning Visitor



Country	Users	New Users
	26,347 % of Total: 100.00% (26,347)	24,400 % of Total: 100.07% (24,383)
1. United States	5,664 (21.17%)	5,231 (21.44%)
2. India	1,879 (7.02%)	1,709 (7.00%)
3. China	1,840 (6.88%)	1,762 (7.22%)
4. Germany	1,123 (4.20%)	1,091 (4.47%)
5. Indonesia	1,106 (4.13%)	1,098 (4.50%)
6. United Kingdom	1,097 (4.10%)	965 (3.95%)
7. Australia	1,060 (3.96%)	922 (3.78%)
8. Canada	898 (3.36%)	780 (3.20%)
9. Pakistan	809 (3.02%)	800 (3.28%)
10. Hong Kong	628 (2.35%)	602 (2.47%)

Page	Pageviews	% Pageviews
1. /	20,246	21.99%
2. /deliverables/bian-portal/	11,484	12.47%
3. /deliverables/bian-standards/	3,947	4.29%
4. /semantic-apis/	3,469	3.77%
5. /deliverables/bian-standards/bian-service-landscape-10-0/	2,504	2.72%

Page	Pageviews	Unique Pageviews
	17,973 % of Total: 19.52% (92,084)	15,643 % of Total: 20.00% (78,219)
Service Domain		
1. /semantic-apis/	3,469 (19.30%)	3,043 (19.45%)
2. /semantic-apis/semantic-api-portal-help/	825 (4.59%)	756 (4.83%)
3. /semantic-apis/party-reference-data-directory/	395 (2.20%)	306 (1.96%)
4. /semantic-apis/account-reconciliation/	365 (2.03%)	304 (1.94%)
5. /semantic-apis/current-account/	359 (2.00%)	274 (1.75%)
6. /semantic-apis/credit-card/	328 (1.82%)	257 (1.64%)
7. /semantic-apis/payment-initiation/	269 (1.50%)	182 (1.16%)
8. /semantic-apis/payment-order/	212 (1.18%)	164 (1.05%)
9. /semantic-apis/consumer-loan/	204 (1.14%)	180 (1.15%)
10. /semantic-apis/party-lifecycle-management/	199 (1.11%)	151 (0.97%)
11. /semantic-apis/loan/	193 (1.07%)	165 (1.05%)
12. /semantic-apis/savings-account/	191 (1.06%)	152 (0.97%)
13. /semantic-apis/party-authentication/	190 (1.06%)	160 (1.02%)
14. /semantic-apis/account-recovery/	188 (1.05%)	140 (0.89%)
15. /semantic-apis/card-authorization/	184 (1.02%)	158 (1.01%)
16. /semantic-apis/customer-products-and-services/	170 (0.95%)	135 (0.86%)
17. /semantic-apis/payment-execution/	168 (0.93%)	142 (0.91%)
18. /semantic-apis/customer-offer/	154 (0.86%)	116 (0.74%)
19. /semantic-apis/mortgage-loan/	143 (0.80%)	115 (0.74%)



# Open-source – GitHub Analytics

- 1bigant / public
- 20140005862 / public
- AetherPaw / bian-official
- Ingvarise / bian-official
- ahsanfarooqi / public
- aolalde / public
- arshimkola / bian
- AssecoAleksandarMartic / public
- b1uebank / bian-official-9.1
- blinding-answers / public
- catavie / public
- chrstnrql / public
- datatrekkers / public
- davidjoan / public
- dcavey / public
- droy2017 / public
- esarhan / public
- evok01 / public
- flying-binh / public
- gswinkels / public
- hoangpn87 / public
- hothandcoder / public
- IKmGit / public
- IlonaShishov / public
- intruder1912 / public
- JamaliAli / public
- jperezgith / public
- jyxing007 / public
- kelseymcleod / bian-official
- kh-a-r / public
- kingsraghav / public
- krisrr3 / public
- lasadana / public
- lidiexy-palinode / public
- lmulloaBP / public
- locnguyenx / public
- lukeeau / public
- lyminh1994 / public
- maxbyz / public
- mginocchio / public
- mpaulgreen / public
- mstaelen / public
- naheedmk / public
- nisha-nizamuddin / public
- open-accelerators / bian-public
- open-risk / bian-public
- osulta / public



Referring sites		
Site	Views	Unique visitors
<a href="#">bian.org</a>	510	156
<a href="#">github.com</a>	29	16
Google	27	8
<a href="#">prod-1-confluence.mufgameri...</a>	8	1
DuckDuckGo	7	2
<a href="#">githublab.com</a>	5	1
<a href="#">dev.bian.org</a>	4	3
<a href="#">wwa.bian.org</a>	2	1

Popular content		
Content	Views	Unique visitors
<a href="#">GitHub - bian-official/public: T...</a>	289	176
<a href="#">public/release10.0.0/semantic-...</a>	153	90
<a href="#">public/release9.1/semantic-api...</a>	72	51
<a href="#">public/release9.1 at main</a>	35	29
<a href="#">public/release9.1/semantic-api...</a>	31	25
<a href="#">public/ACHOperations.yaml at ...</a>	10	10
<a href="#">public/PositionKeeping.yaml at ...</a>	10	3
<a href="#">public/release10.0.0 at main</a>	9	9
<a href="#">public/CreditCard.yaml at main</a>	9	6
<a href="#">File Finder</a>	9	5



**Thank you**