

Building the future of banking services

BIAN Coreless 2 - Tooling Enhancement Release
June 2022

Agenda

- Challenges in the Industry
- Recent Accomplishments of BIAN Coreless & Semantic Work
- Coreless 2 Demo
- End to End Automation
 - Mongo Db to GitHub feedback
 - Feedback Approval App
 - Security MS
 - Model Access MS (Enhancements)
- Message Modeller
 - Demonstration – Use-case: Use of Message Modeler & Feedback Mechanism assuming same day publishing
- Conclusion

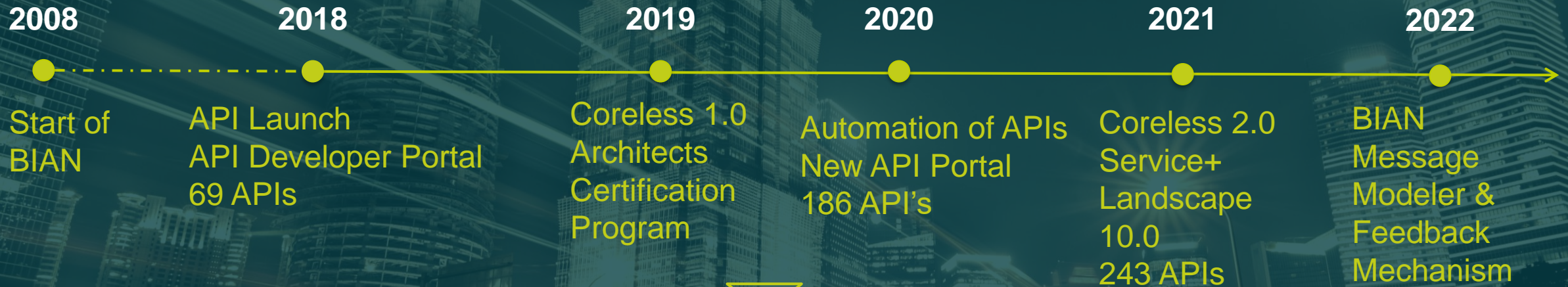
2022 Coreless 2.0 Initiative

Challenges Today

- Remediating tech debt
- Pressure to adopt Open Standards
- Continual Pace of Change
- Adjustments for Localizations
- Validation and evolution of BIAN frameworks
- Interoperability
- Reusability & practical implementation

1. BIAN Message Modeler
2. End to End Automation
3. Early Adopters & Learning

Recent Accomplishments of BIAN – Coreless Banking & Semantic APIs

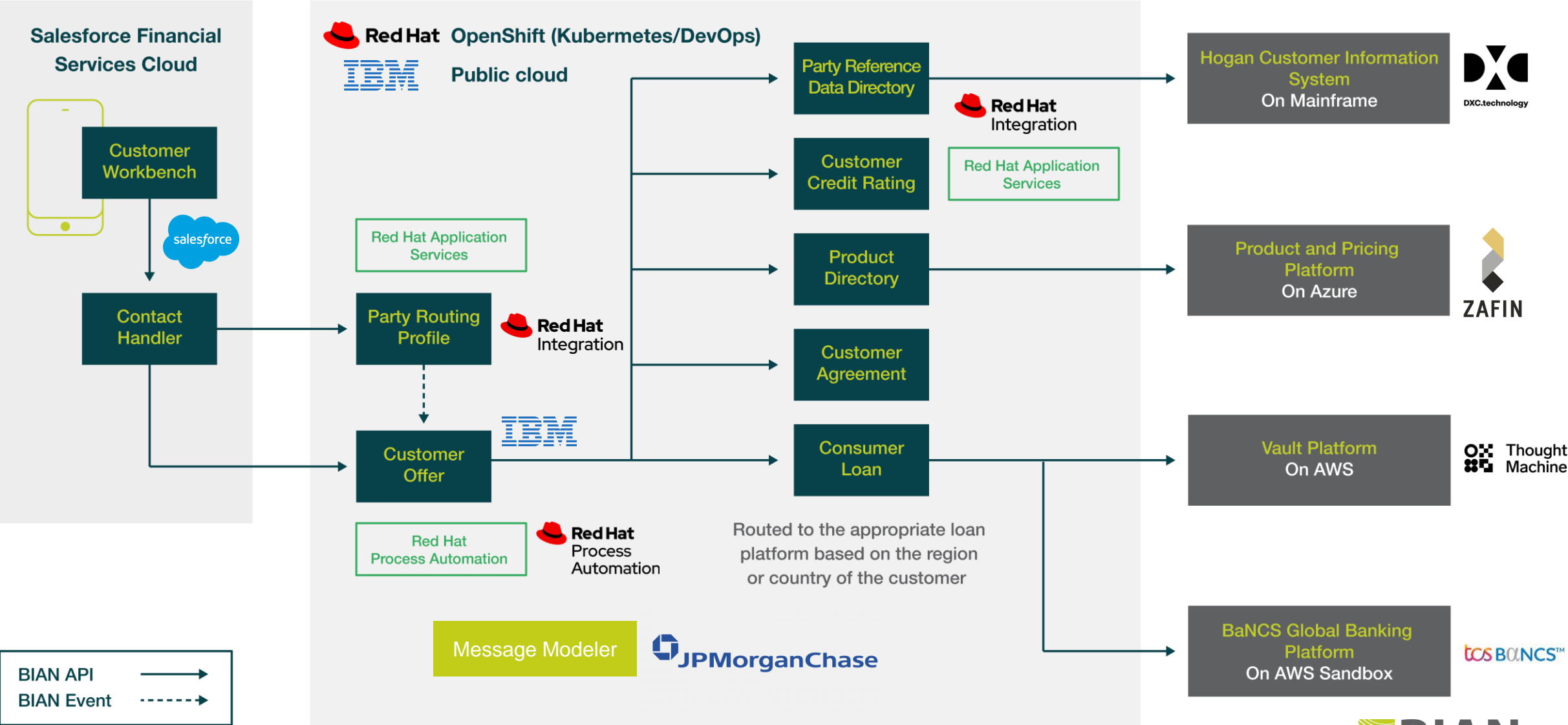


KEY ARTIFACTS:

- 243 Semantic APIs
- 323 Total Service Domains
- Automated end-to-end BIAN lifecycle
- BIAN Message Modeler – Ease of Adoption
- Automated Feedback Loop

DEMO

Coreless 2.0 Applications and Platforms



Summary and Enhancement Value Add

Current State:

CICD pipeline needed to be more developer friendly to enable a broader and deeper BIAN adoption

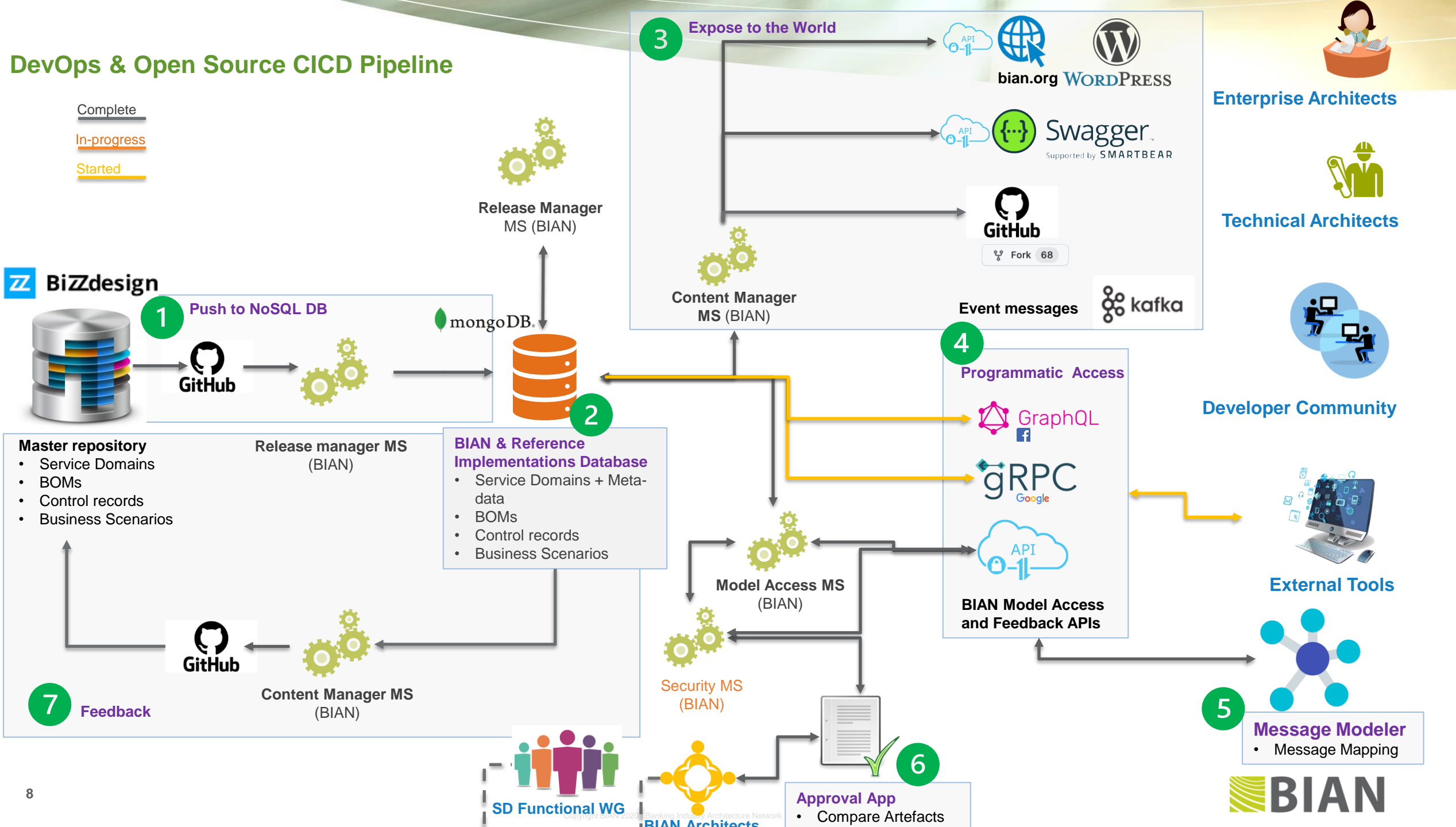
What We did:

We analyzed where the friction points were in the process and automated as much as possible, with a focus on end-to-end automation and the Message Modeler

Value Add from the new Automations:

1. Reduces friction in overall process, automated previous manual tasks
2. Reduces and simplified manual subprocesses including approvals
3. Enables faster adoption by automating and facilitating side by side comparison of member models with BIAN model
4. Accelerates specification from annual releases to unlimited frequency
5. Enables efficient adoption by the member organization at multiple levels of abstraction

DevOps & Open Source CICD Pipeline



DevOps & Open Source

1. Mongo Db to GitHub feedback
2. **Feedback Approval App**
3. Security MS
4. Model Access MS (Enhancements)
5. Message Modeller

Previous Functionality:

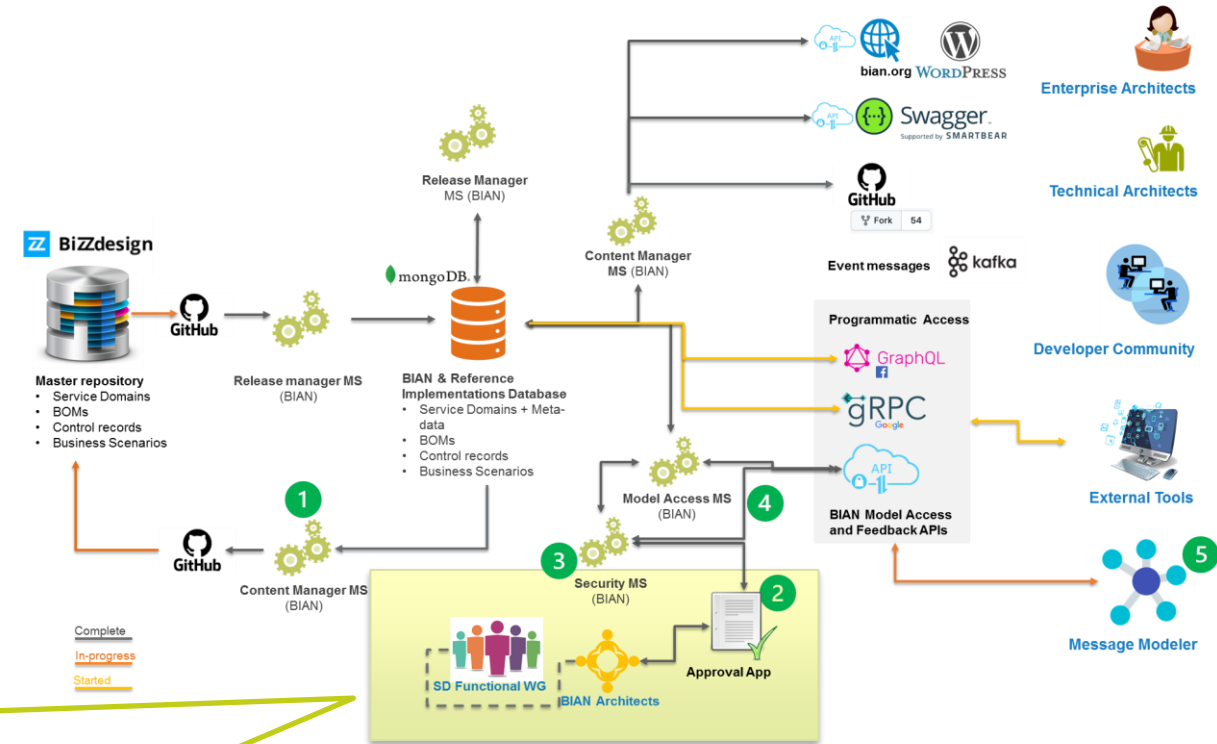
NA, done manually in emails, spreadsheets.

Enhancements Made/New Functionality:

Web app. User (BIAN Architect) selects feedback Service Domain, and BIAN reference Service Domain. Then they can compare the two. After that they publish the feedback (as a reference implementation), approve it, or send it back for rework.

Value Add:

Ease of adoption, speed to implementation, simplify standards alignment process, enables alignment to proprietary model, Compare BIAN aligned models.



DevOps & Open Source

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Previous Functionality:

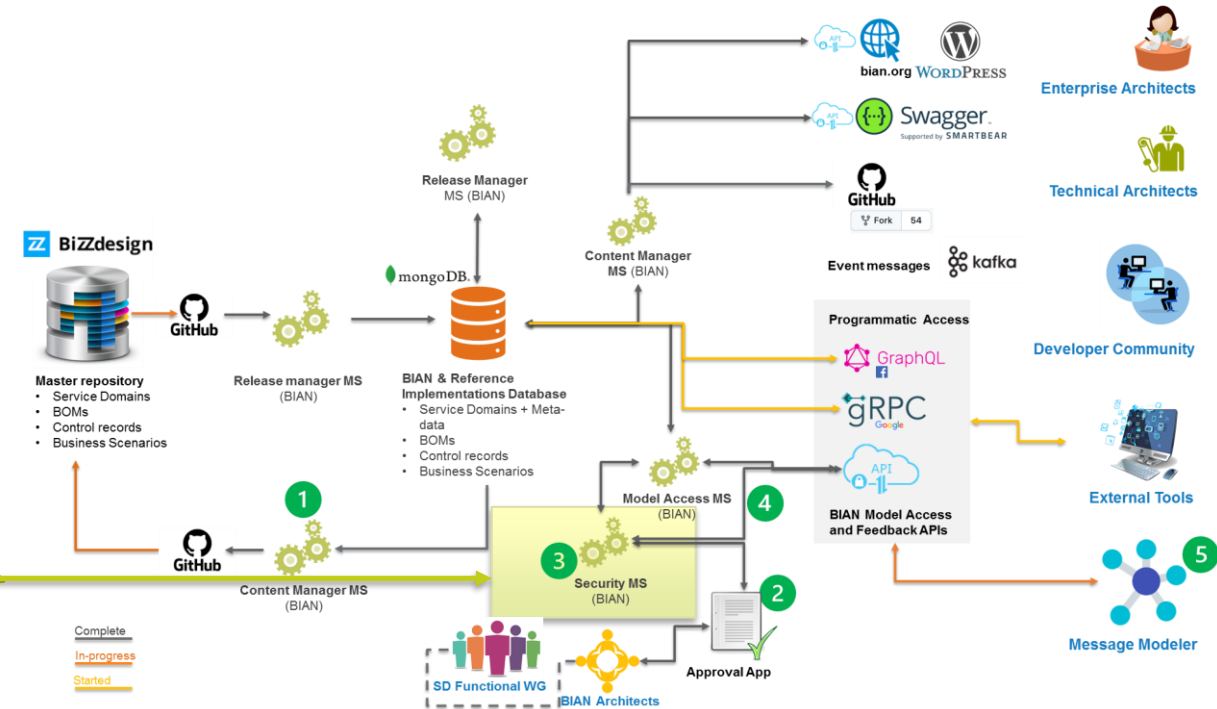
API level Authentication & Authorization (Bearer token), and API endpoint protection.

Enhancements Made/New Functionality:

User, Role Organization and Policy Management APIs, Token enhancements (add refresh token, and revoke token).

Value Add:

Security, Framework for building other apps leveraging BIAN security for APIs and User Apps.



Model Access MS

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4. **Model Access MS (Enhancements)**
5. Message Modeller

Previous Functionality:

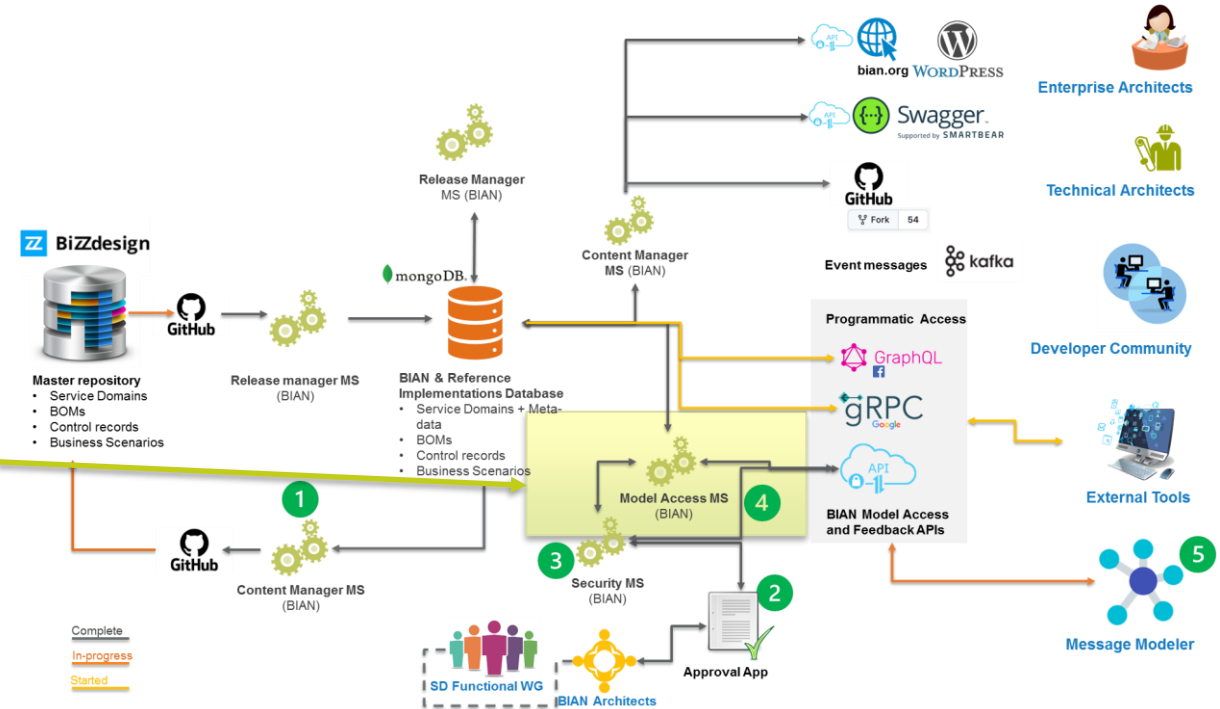
APIs for accessing BIAN model and providing feedback. BIAN Artefacts in scope: Service Domains (CRs, BQs, SOs), Business Objects (Classes, Enumerations, Data Types, Primitive Types), Business Scenarios, Semantic APIs (in OAS3 format), Html Content

Enhancements Made/New Functionality:

New endpoint for JSON representation of Service Operations for the Message Modeler, Security to allow users to only access feedback for their own organization, Specific endpoints such as Retrieve Feedback by assigned to User and ones in certain status like Feedback.

Value Add:

BIAN Landscape as APIs, Integration with any external tools, Ease of adoption, speed to implementation, simplify standards alignment process, enables alignment to propitiatory model,



BIAN Message Modeller Integration with BIAN Model APIs

1. Mongo Db to GitHub feedback
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5. **Message Modeller**

Previous Functionality:

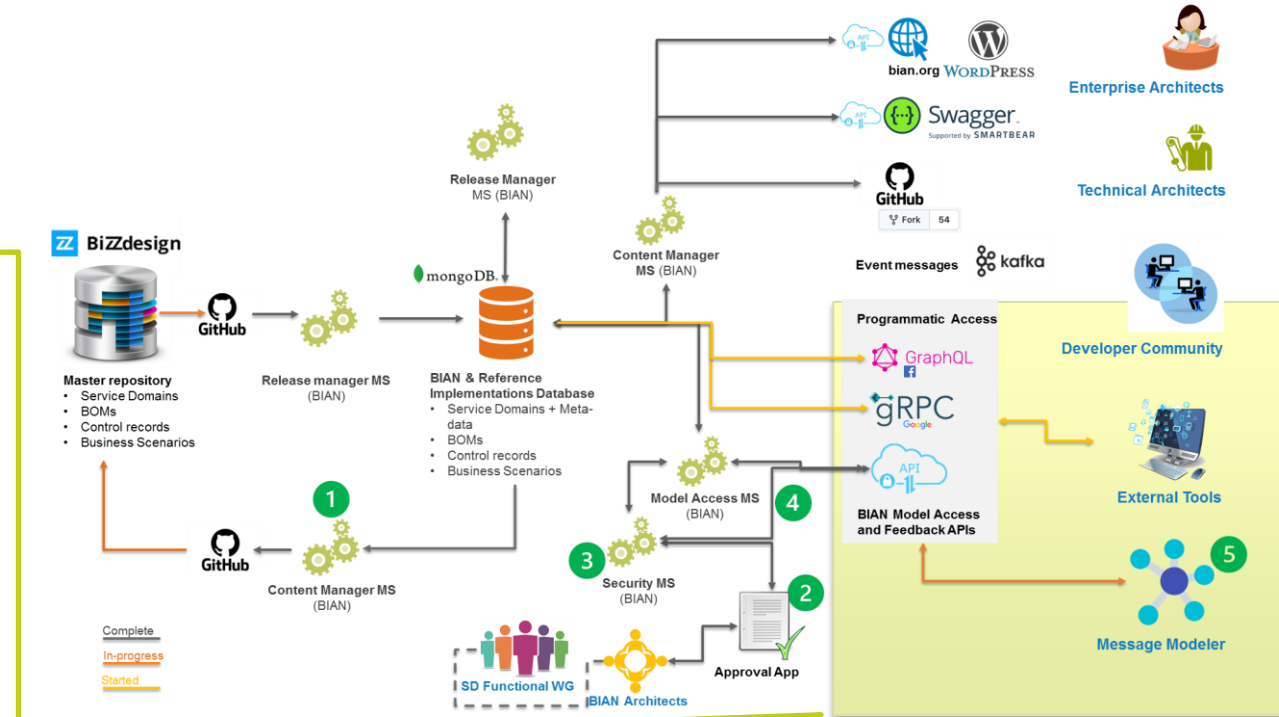
Manual approach of downloading swagger from BIAN Swagger portal & carry out API message mapping against organization specific proprietary API messages

Enhancements Made/New Functionality:

Retrieval of BIAN Artifacts at real time via BIAN Model APIs in SAAS Mode & explore within Message Modeler.
Carry out message mapping inside the Message Modeler tool with supported functionalities
Submit feedback, get approval, and publish the extended version of organization specific BIAN swagger via message modeler (on or after April 1st)
Centralized authentication & authorization in SAAS mode

Value Add:

Ease of adoption, speed to mapping process, real time BIAN data access



BIAN Message Modeller Feature Enhancements Post SIBOS event

1. Mongo Db to GitHub feedback
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5. **Message Modeller**

Previous Functionality:

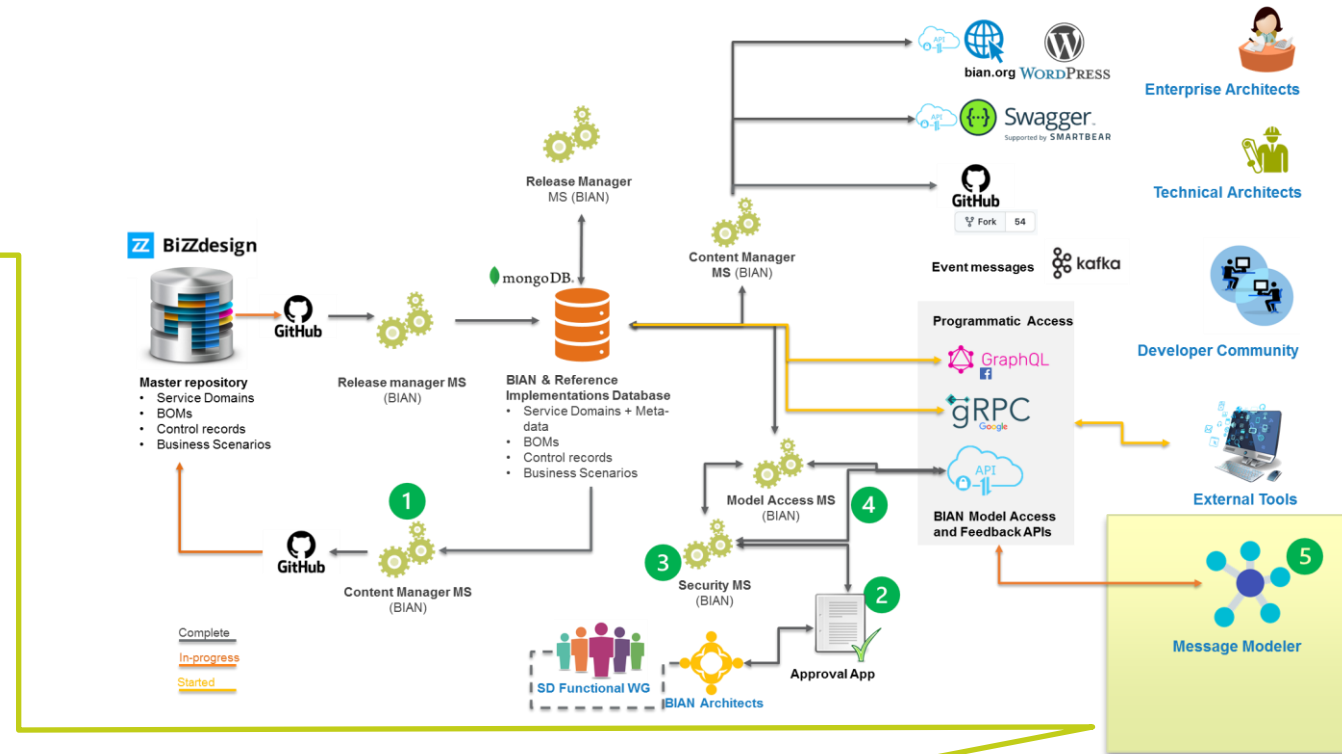
Manual approach of downloading swagger from BIAN Swagger portal & carry out API message mapping against organization specific proprietary API messages

Enhancements Made/New Functionality:

Retrieval of BIAN Artifacts at real time via BIAN Model APIs in SAAS Mode, and explore within Message Modeler, Message mapping with new UI features added as part of mapping process (One BIAN to many User Proprietary AP mapping/Concat/split/preview/order etc)
Introduced SAAS & Local mode on application deployment (On or after April 1st)

Value Addition:

Ease of adoption, speed to mapping process, real time BIAN Artifacts visualization & offline mapping work support



Demonstration

Use-case: *End to End Modeling & Feedback
assuming same day publishing*

Conclusion

Enable:

1. Adoption
2. Interoperability
3. Reusability
4. Collaboration
5. Continuous improvements

LEARN MORE ABOUT BIAN AND THE CORELESS INITIATIVES:

MEET WITH OUR EXPERTS TO DISCUSS YOUR ORGANIZATION'S GOALS

VISIT [BIAN.ORG](https://www.bian.org) TO JOIN THE CONVERSATION

BIAN Coreless 2.0 – Participating Members



Red Hat



**Thought
Machine**



ZAFIN



JPMorganChase



DXC.technology

tcs BANCs™

virtusa®



*

servicenow

*



FINANCIAL™
DATA EXCHANGE

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** Intellectual Contributors*

Appendix

BIAN Message Modeler User Guide

Business Management

Finance And Risk Management

Resource Management

Business Development

Operations

Products

Customers

Channels

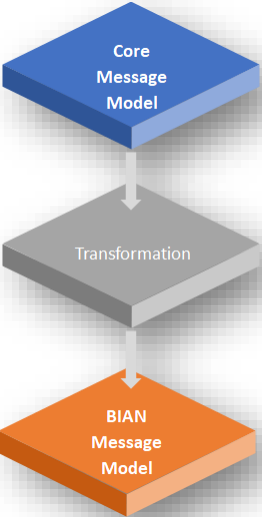
BIAN Schema Repository

The BIAN schema repository contains the schemas for all of the Service Domains and the Service Operations that support them along with all of the necessary metadata.

You can also explore BIAN member's registered schemas that are mapped to the BIAN.

Explore BIAN

[Link](#)



BIAN Building Industry Architecture Network

Modeler

Rohini K Virtusa

TestProject

Publish

BIAN Feedback

Download Source Swagger

Download Target Swagger

Open Source Swagger

Open Target Swagger

Delete Project

Create Project

Select Service Domain

Create API

Select Service Operation

Upload Your Schemas

Start Mapping

Publish Your Project

Create Project

Start by creating a project, a project within the tool is similar to an application that you are planning on developing.

BackNext

Please Create or Select an API to Start Mapping

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