Building the future of banking services

BIAN Information Architecture
IA WG

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Agenda

- The Bian Portal
- The BIAN BOM
- What is new?
BIAN Portal (https://bian.org/)
Select a Service Domain Landscape view
BIAN Service Landscape Value Chain View

Do ctrl F (find) and type service domain you want to find. By example LOAN.
BIAN LOAN Service Domain Overview

Select service domain Diagram
Select service domain BOM diagram (top left)
The blue notes mention the relationship with Control Record and Behavior Qualifier.
The “red” objects are not part of the Service Domain BOM, but sticking edges to other Service Domain BOMs.
THE BIAN BOM

• Most existing banking data models and standards are focused on defining the messages exchanged in Application Program Interfaces (APIs).

• These messages are views on the core Business Objects in banking, they do not represent a model of the Business Objects themselves.

• BIAN applies a Business Object Modeling approach to identify all Business Objects that are relevant for the financial industry and to model their relationships.

• The BIAN BOM provides the financial sector with a reference model for information architecture that can be customized to individual needs.

• The BIAN BOM is elaborated by modeling the information needs of every BIAN Service Domain, as expressed in its Control Record, according to the Business Object Modeling approach, thus ensuring the consistency of all these views on the BIAN BOM.

• The resulting individual Service Domain Business Object Models (Service Domain BOMs) are consolidated into the BIAN Business Object Model (BIAN BOM), offering a collection of Business Objects, relevant for the financial industry, and their interrelationships.
THE BOM APPROACH: BUSINESS OBJECT VS BUSINESS CONCEPT

<table>
<thead>
<tr>
<th>Business Object</th>
<th>Something that exists in reality, concrete or abstract, and participates and/or influences the nature of the business.</th>
</tr>
</thead>
</table>

- The distinction between “business concept” and “business object” is key in the BOM approach.

- A business concept is a concept that is of importance to the business. To **fulfill the information requirements of the business**, business concepts need to be identified and defined unambiguously.

- To inform businesses concerning the concepts in which they are interested, **data needs to be captured and managed**. Business concepts are not the building blocks for the information architecture required to steer an effective data architecture.

- The building block of the business information architecture is the Business Object. It is a mutually exclusive, collectively exhaustive unit of information. Business Objects relate to each other, and thus constitute the BOM.

- **The BOM uses terminology and definitions based on the content and structure pattern**
CONTROL RECORD

| Control Record | A set of business information that reflects all information needed to support the fulfillment of the role of Service Domain on instances of an Asset Type. |

- Each time a Service Domain fulfills its role, a Control Record instance is created or adapted.

- The complete collection of business information governed by a Service Domain when implemented as a stand-alone service center, is described by the **Service Domain Information Profile:**
  - Information at the level of service domain ("**SD Information**") used for the control and management of the Service Domain as a service center;
  - Information at the level of the Service Domain’s role execution. This is covered by the **Control Record** instances.

- *The Control Record Diagram uses “Service Domain” speech community terminology*
Documents

Release 10.0 Documents

Release Note v10.0
- Release note in Word format
- Release note in PDF format
- Change Log in excel

Overview v10.0
- Service Landscape 10. Value Chain View Power Point
- Service Landscape 10.0 Value Chain View (pdf - print format)
- Service Landscape 10.0 Matrix View (pdf - print format)

BIAN Practitioner Guide V10.0
- BIAN Semantic API Practitioner Guide V8.1

BIAN WIKI for members 2

BIAN Service Landscape Release v10.0 (Including the BIAN Metamodel, the BIAN Business Object Model (BOM), Business Scenario's and the BIAN Business Capability Model (BCM))

Model Files – created with BizzDesign Enterprise Studio V4

- BIAN V10.0 full model in proprietary BIZDesign XMAM format (zip)
- BIAN V10.0 Service Landscape in standard XML Archimate Exchange format
- HTML Rendition of the BIAN Framework
- Excel BIAN V10.0 content file
- Excel BIAN V10.0 BOM file
- Excel BIAN V10.0 Glossary
- BIAN V10.0 Reference Model in docx
- BIAN V10.0 Reference Model in pdf
- BIAN V10.0 Business Object Model in docx
- BIAN V10.0 Business Object Model in pdf
- BIAN V10.0 Control Record Model in docx (on demand per Service Domain)
- BIAN V10.0 Control Record Model in pdf (on demand per Service Domain)
- BIAN V10.0 Business Scenarios E2E in docx
- BIAN V10.0 Business Scenarios E2E in pdf
- BIAN V10.0 Business Capability Map in docx
- BIAN V10.0 Business Capability Map in pdf

BIAN Metamodel Release v10.0

The Metamodel rendered

- as a .docx file
- as a .pdf file
- as an Archimate exchange format

Metamodel Note:

- The Metamodel is expressed in the ArchiMate 3.1 notation.
- The BIAN Service Landscape is modeled in ArchiMate 3.1
- The BIAN Business Object Model, which defines objects with their attributes and relationships between each other, is expressed as UML Class Diagrams
- The BIAN Business Scenarios are expressed in UML Sequence Diagrams.
- The ArchiMate 3.1 concepts in a nutshell
- The ArchiMate 3.1 Specification
WHAT IS NEW FOR IA?
BIAN XMI export

- BIAN uses BizzDesign Enterprise Studio
  - Archimate Language for Service Domains
  - UML Class Diagrams for Business Object Model and Control Records
  - UML Sequence Diagrams for Business Scenarios
  - Horizzon: provides a blank canvas from which you can tailor views and models to match your unique requirements.

- XMI (XML Metadata Interchange)
  - [https://www.omg.org/spec/XMI/2.5.1/About-XMI/](https://www.omg.org/spec/XMI/2.5.1/About-XMI/)

- Objective:
  - You can use the Modeling software of your choice as long as they have Archimate and XMI import facilities
    - IBM Rational Software Architect
    - Visual Paradigm
    - SAP Powerdesigner
    - Sparx Enterprise Architect
    - ...

- Available: XMI for UML Class Diagrams
XMI for BIAN Service Domains and Control Records

Name

- BUSINESS AREAS_AND_CLASS_DIAGRAMS
- BUSINESS AREAS_AND_CLASS_DIAGRAMS_and_REFERENCES
- BUSINESS DOMAINS_AND_CLASS_DIAGRAMS
- BUSINESS DOMAINS_AND_CLASS_DIAGRAMS_and_REFERENCES
- CLASS_DIAGRAMS
- CLASS_DIAGRAMS_and_REFERENCES
- HELPER_DIAGRAM
- HELPER_DIAGRAMS_and_REFERENCES
- LANDSCAPE_DIAGRAMS
- LANDSCAPE_DIAGRAMS_and_REFERENCES
- OVERVIEW_DIAGRAMS
- OVERVIEW_DIAGRAMS_and_REFERENCES
- global model SD.xml
 Diagram per Service Domain

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
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<td>Advanced Voice Services Management BOM Diagram.xml</td>
</tr>
<tr>
<td>Branch Currency Management BOM Diagram.xml</td>
</tr>
<tr>
<td>Branch Location Management BOM Diagram.xml</td>
</tr>
<tr>
<td>Central Cash Handling BOM Diagram.xml</td>
</tr>
<tr>
<td>Channel Activity Analysis BOM Diagram.xml</td>
</tr>
<tr>
<td>Contact Center Management BOM Diagram.xml</td>
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<tr>
<td>eBranch Management BOM Diagram.xml</td>
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<tr>
<td>Product Inventory Item Management BOM Diagram.xml</td>
</tr>
<tr>
<td>Servicing Activity Analysis BOM Diagram.xml</td>
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        Reference to how, by whom and in what "materialization" the deposit is performed?
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XMI Global Model import and related Diagram
XMI Control record import