

Any unique business requires a unique solution

With dArcBlue we simply provide a better way of delivering tailored solutions.



Erlend Odegard
Chief Technology Officer

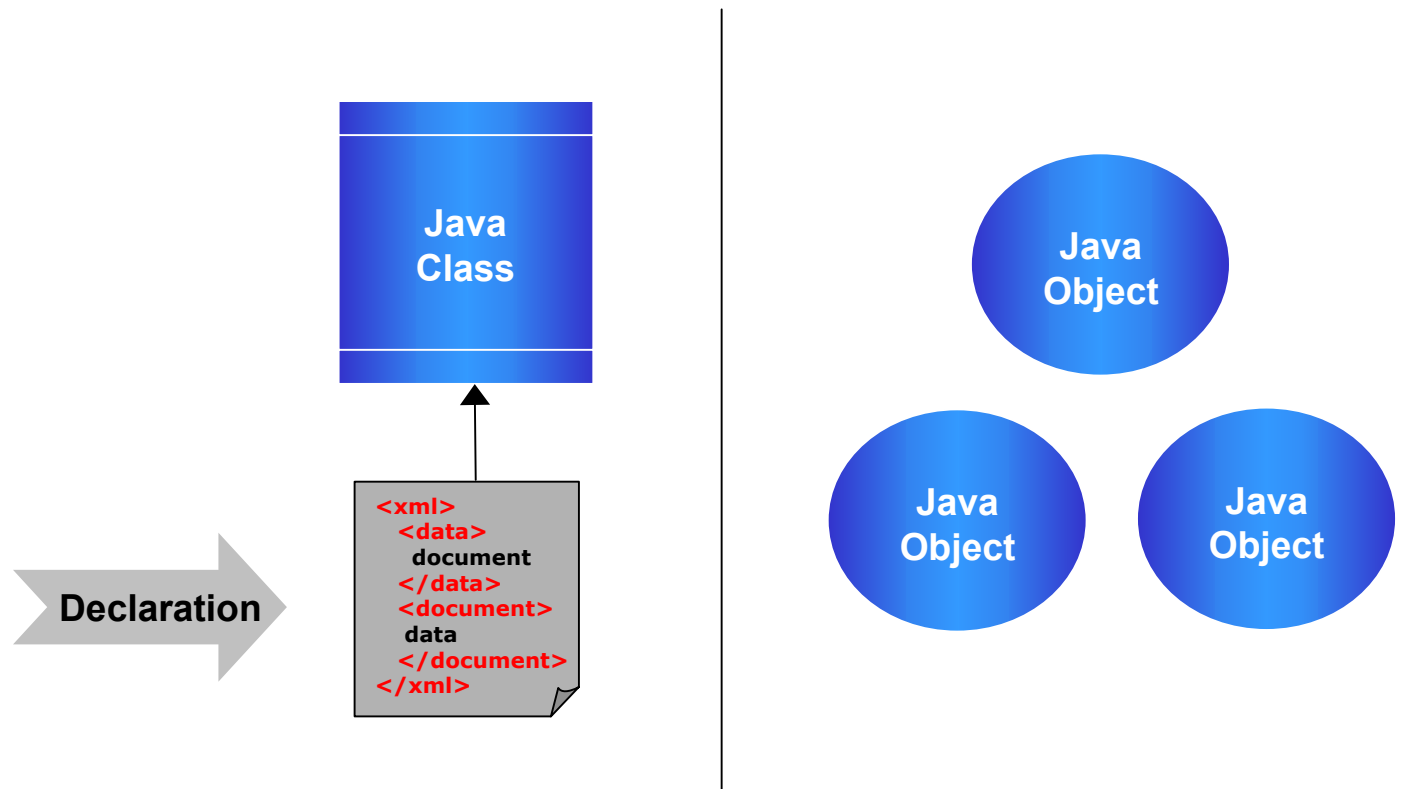
dArcBlue Technologies AG

dArcBlue™ – AK Objekttechnologie

- Declarative Architecture Blueprints
- dArcBlue™ - Product Overview
- Demo
- Q&A

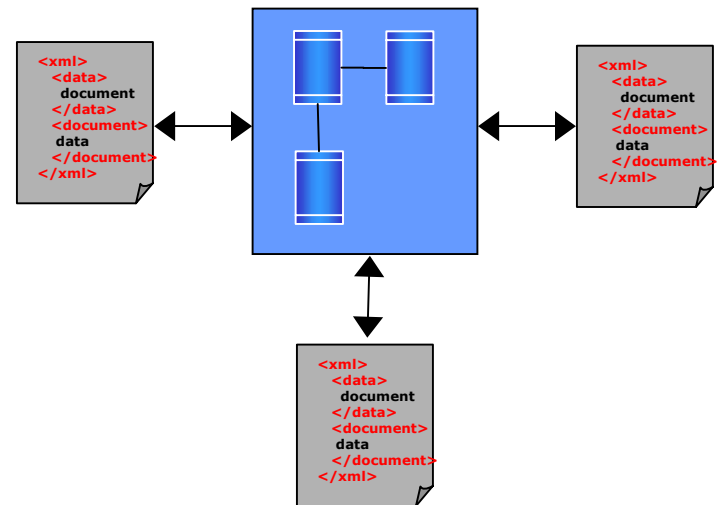
dArcBlue™: d = declarative

XML used to instruct behavior of Java classes



dArcBlue™: Arc = Architecture

- Web Application Architecture
 - Java 2 Enterprise Edition
 - Presentation, Business Logic, Storage, and Integration
 - Internet Standards: HTTP, HTML, CSS, SMTP, etc.
 - XML Centric
 - Service Oriented



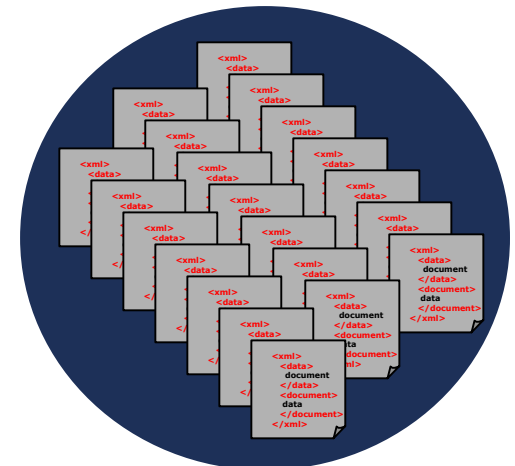
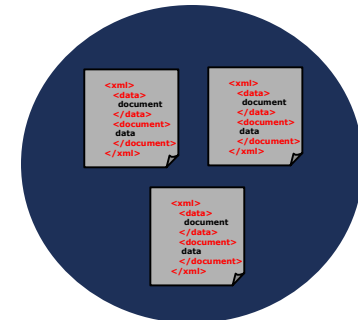
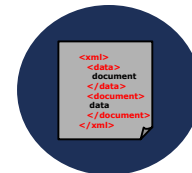
- Declarative Architecture

dArcBlue™: **Blue** = Blueprints

- A Blueprint is a set of declarations prepared for a specific business scenario
- Blueprints comprise Presentation, Business Logic, Storage, and Integration declarations
- Blueprints have the same qualitative characteristics as “out-of-the-box” products
- Solution Blueprints can be extracted from any dArcBlue application

dArcBlue™: Blueprints – Reuse Infrastructure

- Stand alone Declarations
- Functional Sets
- Complete Solutions

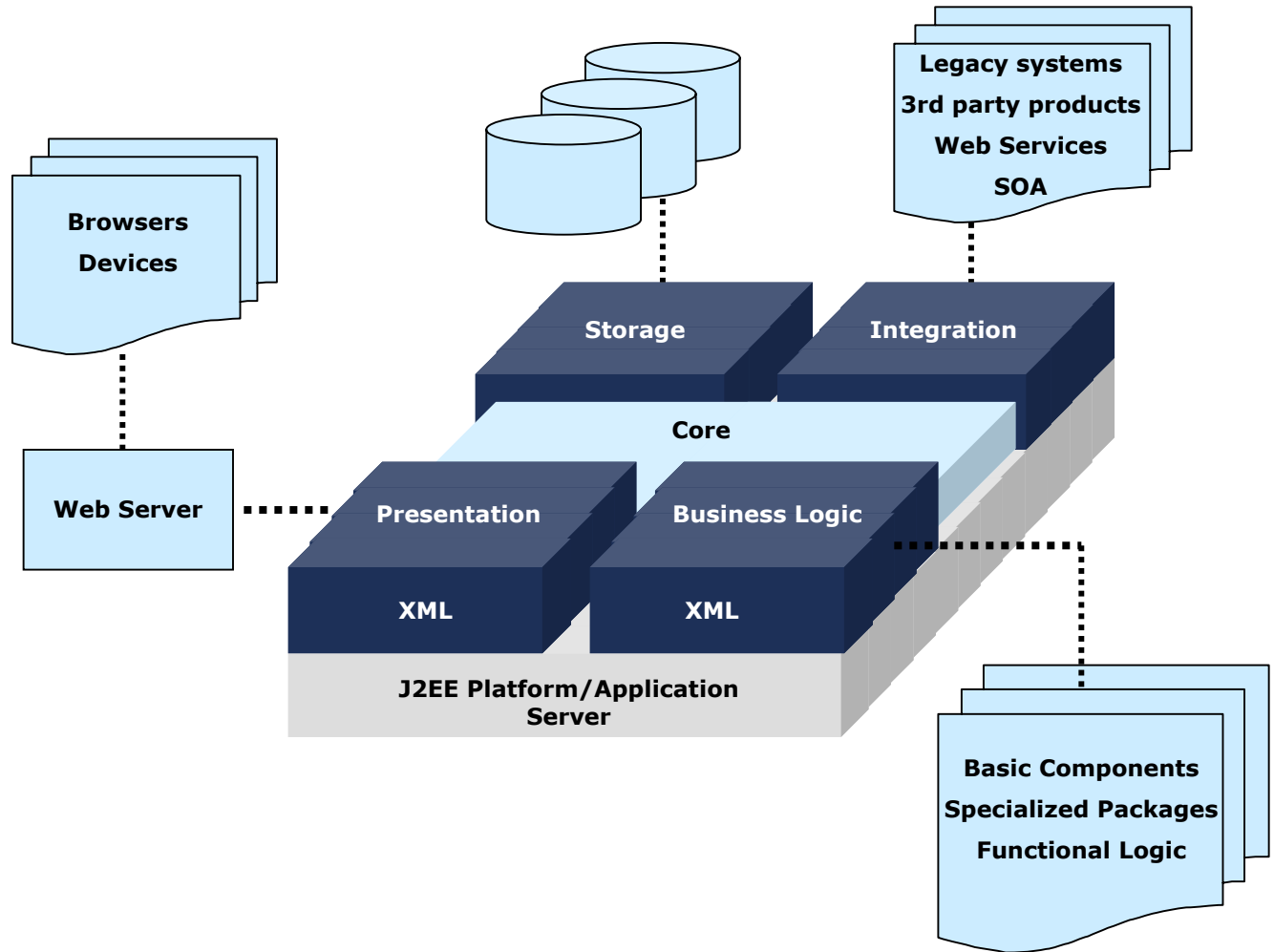


dArcBlue™: The Product

- dArcBlue™ = declarative Architecture Blueprints
- dArcBlue™ is a framework of declarative components on the J2EE platform
- dArcBlue™ is an XML centric application architecture for building and running tailored applications
- dArcBlue™ is a platform for creating standardized, reusable, pre-packaged Solution Blueprints

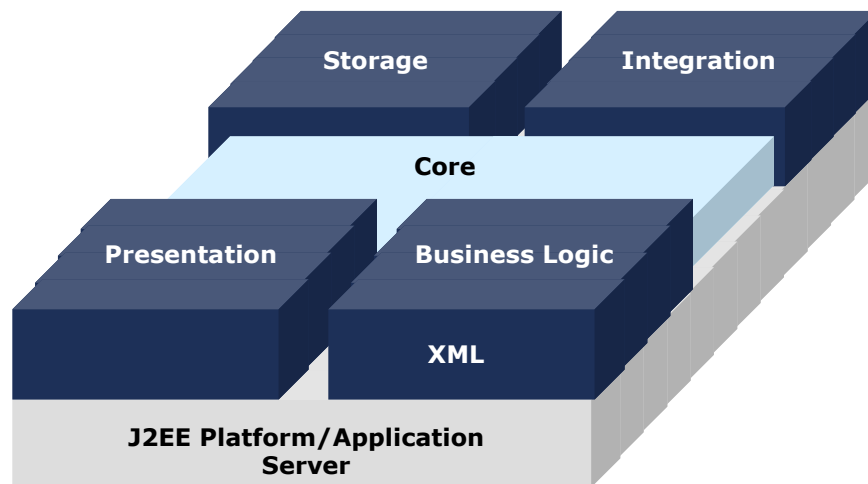


dArcBlue™: Product Overview



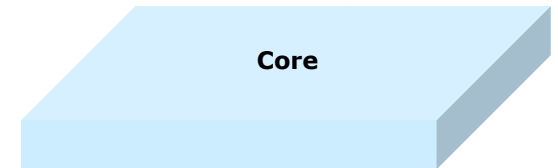
dArcBlue™: Areas of declaration

- Core
- Presentation
- Business
- Storage
- Integration



dArcBlue™: Core Declarations

- Site Maps
 - Site structure and pages
- Input Maps
 - Receiving input data
- Mime Type Maps
 - Handling of different clients (HTML browsers, WAP, etc)
- Exception Map
 - Centralized handling of exceptions
- Language Map
 - Handling of languages and translation
- Application Settings
 - J2EE Security, Database connections, etc.



dArcBlue™: Presentation Declarations

- Declaration of web content
 - XML
 - XSLT
 - HTML
 - Templates
 - XML Display Files
- Templates provides componentization of web pages
- XML Display Files enable tag-set for XML
 - Model-View-Controller principle for XSLT
 - Model – XML from Business Components
 - View – XML Display file created by web designer
 - Controller – Default or custom built XSLT



dArcBlue™: Business Declarations

- Declaration of Business Logic
 - Handling Actions and Requests
 - Use the services of the architecture
 - Processing XML Documents
 - Store and Retrieve Data
 - Call Integration Components
 - Access to custom Java components



dArcBlue™: Storage Declarations

- Storage Management
 - Database connections
 - Connection Pooling
- Document Services
 - Storing and Retrieving XML Documents
 - Supports documents in File System or Databases
- Transaction Services / SQL
 - Named Queries with XML Result Set Mapping
 - Named Updates
 - Maps the JDBC API



dArcBlue™: Integration Declarations

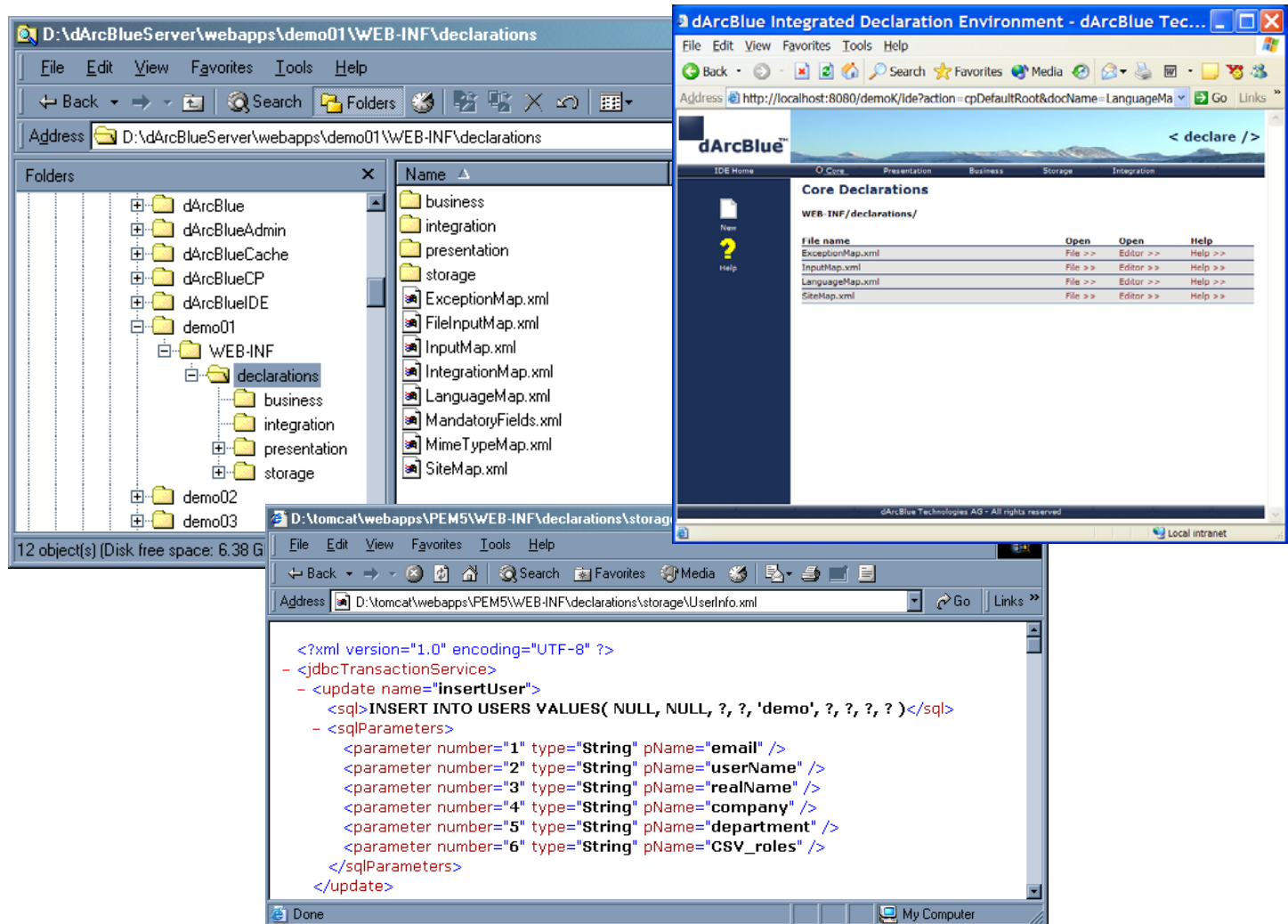
- Declares integration to other systems
- HTTP/XML
 - Calls URL which return XML
- Web Services/SOAP
 - Calls SOAP compliant Web Services
- SMTP
 - Supports sending emails
 - HTML email support included
- Java
 - Support for J2EE integration features



dArcBlue™: Extensibility

- The **dArcBlue™ Java API** provides the architecture with unlimited extensibility
- Provides Interfaces and Base Classes for the creation of new Declarative Components
- Provides access to the dArcBlue Architecture Services
- Provides access to all functionality on the J2EE platform

dArcBlue™: Declaration



The screenshot displays the dArcBlue IDE environment. On the left, a file explorer shows the directory structure: D:\dArcBlueServer\webapps\demo01\WEB-INF\declarations. The 'declarations' folder contains subfolders for 'business', 'integration', 'presentation', and 'storage', along with several XML files like 'ExceptionMap.xml', 'FileInputMap.xml', 'InputMap.xml', 'IntegrationMap.xml', 'LanguageMap.xml', 'MandatoryFields.xml', 'MimeTypeMap.xml', and 'SiteMap.xml'.

The top-right browser window shows the 'dArcBlue Integrated Declaration Environment'. It features a navigation bar with 'IDE Home', 'Core', 'Presentation', 'Business', 'Storage', and 'Integration'. The main content area is titled 'Core Declarations' and lists files under 'WEB-INF/declarations/':

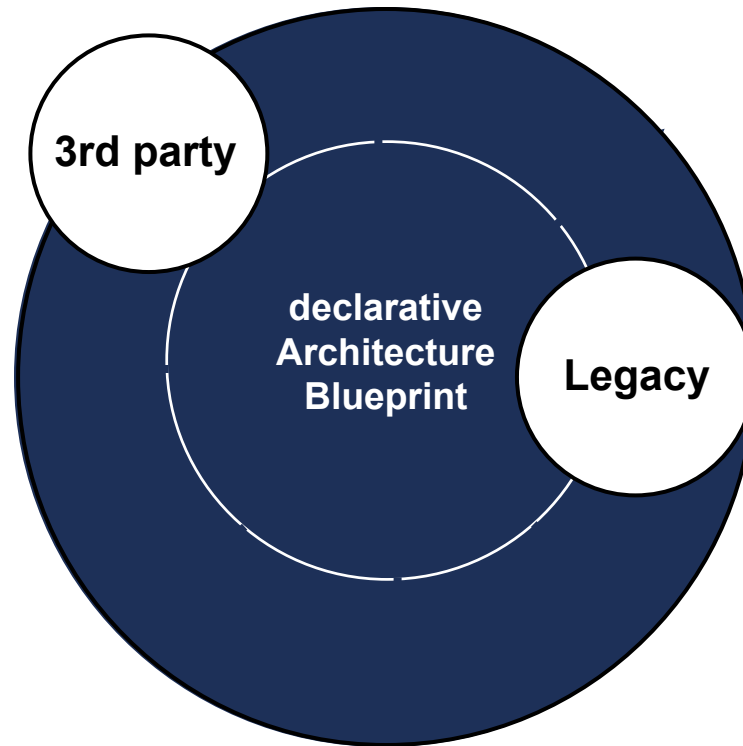
File name	Open	Open	Help
ExceptionMap.xml	File >>	Editor >>	Help >>
InputMap.xml	File >>	Editor >>	Help >>
LanguageMap.xml	File >>	Editor >>	Help >>
SiteMap.xml	File >>	Editor >>	Help >>

The bottom window is an XML editor showing the content of 'UserInfo.xml' in the 'storage' folder:

```
<?xml version="1.0" encoding="UTF-8" ?>
- <jdbcTransactionService>
- <update name="insertUser">
  <sql>INSERT INTO USERS VALUES( NULL, NULL, ?, ?, 'demo', ?, ?, ? )</sql>
  - <sqlParameters>
    <parameter number="1" type="String" pName="email" />
    <parameter number="2" type="String" pName="userName" />
    <parameter number="3" type="String" pName="realName" />
    <parameter number="4" type="String" pName="company" />
    <parameter number="5" type="String" pName="department" />
    <parameter number="6" type="String" pName="CSV_roles" />
  </sqlParameters>
</update>
```


dArcBlue™: Demo

dArcBlue™: Delivering Solutions



dArcBlue™: Q&A

Contact

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