

Architectural Views

Presentation to Architecture Forum

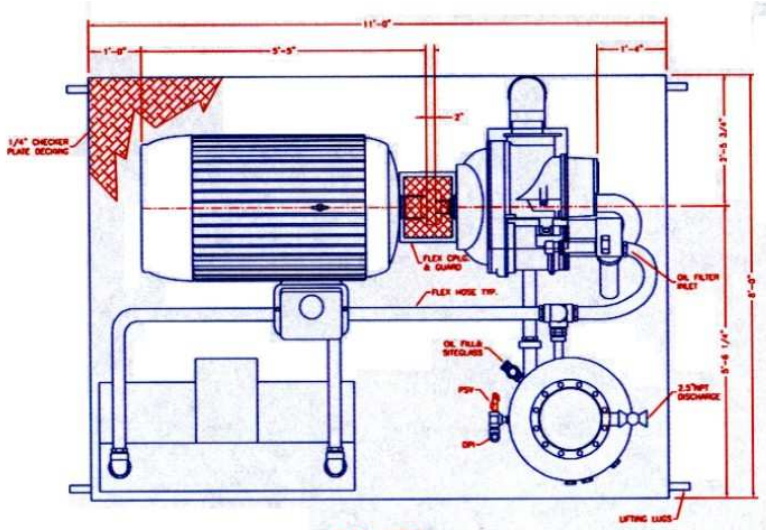
JCSE

Ardhendu Patri, Reverside

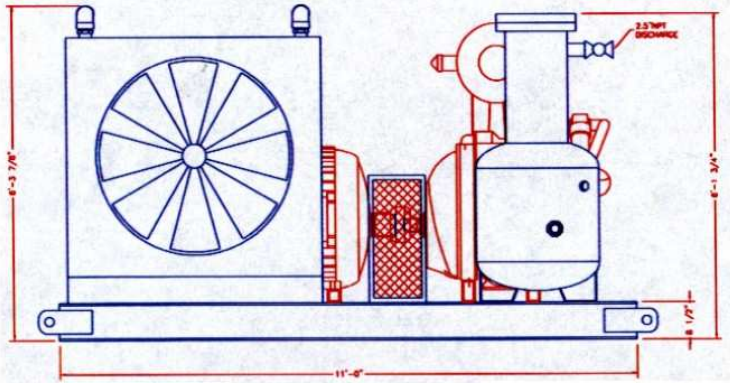
Architectural Views

SETTING THE SCENE

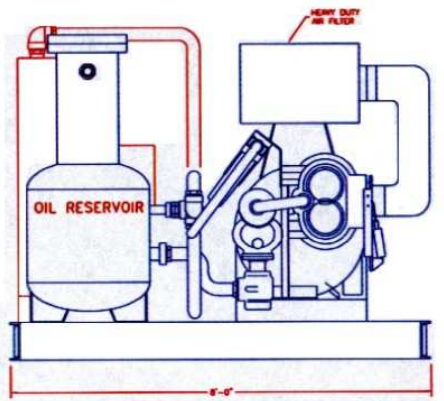
Engineering Drawing – Air Equipment



PLAN VIEW
R.T.S.



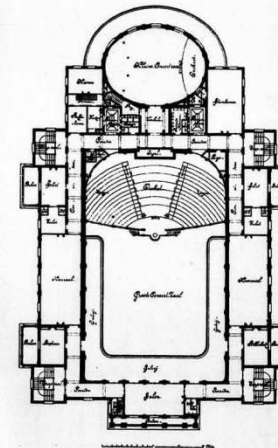
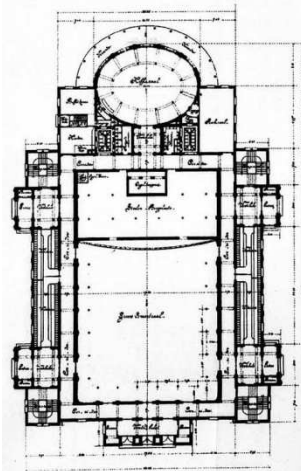
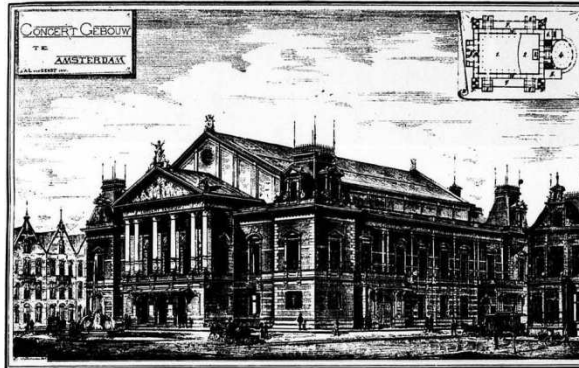
ELEVATION VIEW



SIDE VIEW
R.T.S.

Building Architecture

ARCHITECTURA ET AMICITIA.



Photolith. v. G. J. Thome, Arnhem.

DE OPMERKER N° 1 van 7 Januari 1888.

Architectural Views

REQUIREMENTS

Functional Requirements

- System must provide –
 - Web based content authoring, content approval workflow and publishing of content
 - Personalization of content for users
 - Deliver new media services in an integrated fashion
 - Common look and feel theme for the content aggregated from various sources
 - Transactional services

Functional Requirements (contd ...)

- System must provide –
 - Enterprise Search
 - Classification
 - Collaboration
 - Content Management
 - Rich User Interface

Non-functional Requirements

- System should
 - Provide adequate level of security for an internet facing and intranet facing application hosting environment
 - Be highly available and scalable as per a pre-determined usage scenario
 - Be usable (very high usability)
 - Be highly reliable
 - Have high performance/throughput
 - Have good supportability

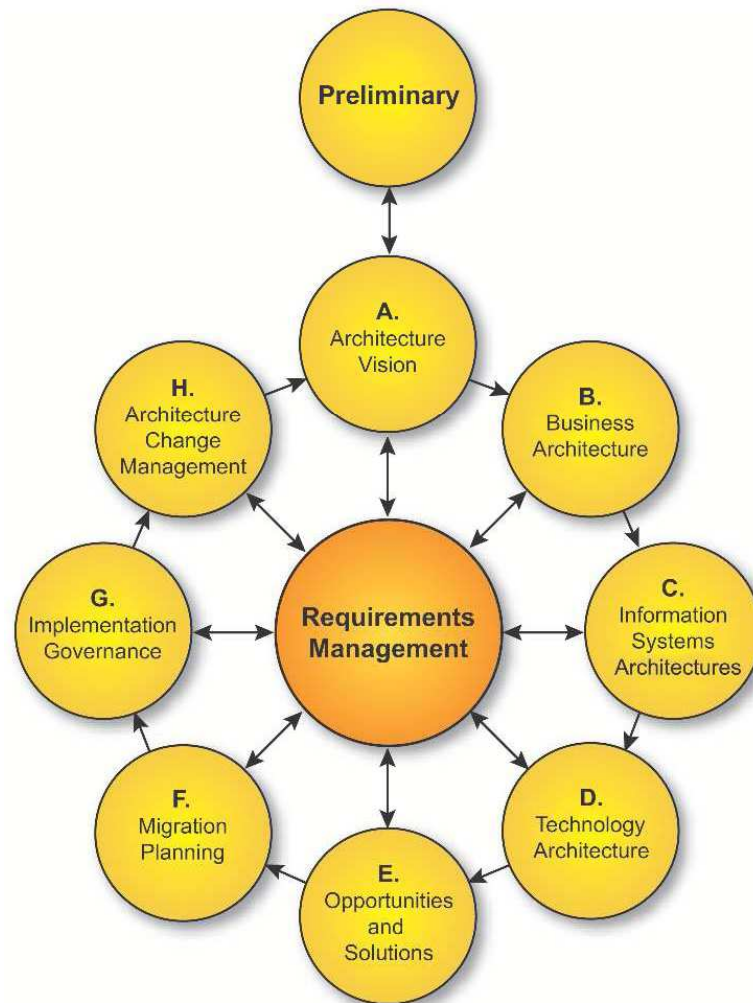
Technology Requirements

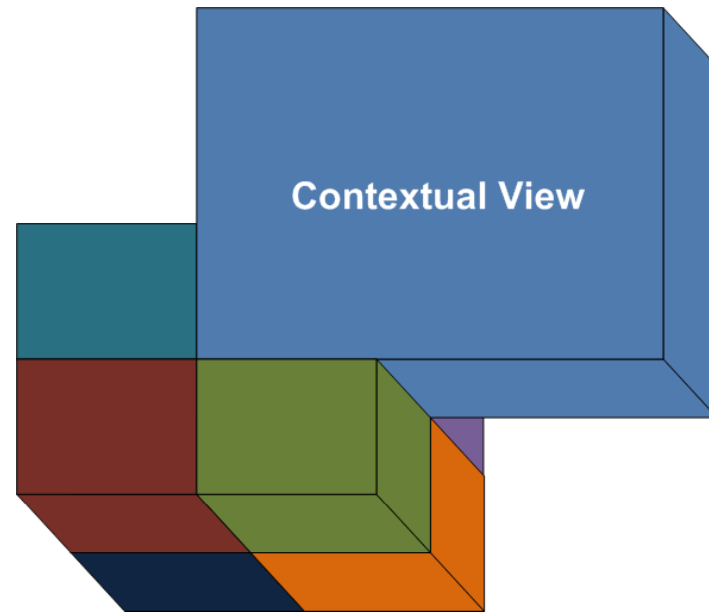
- System should be
 - Futuristic (SOA-enabled)
 - Aligning with organizational architecture
 - Interfacing cleanly with various components
 - Vendor-agnostic open standard solution
 - A device independent solution so that multiple device interfaces can access content
 - Able to aggregate content from the existing applications

Architectural Views

METHODOLOGY

TOGAF – Architecture Development

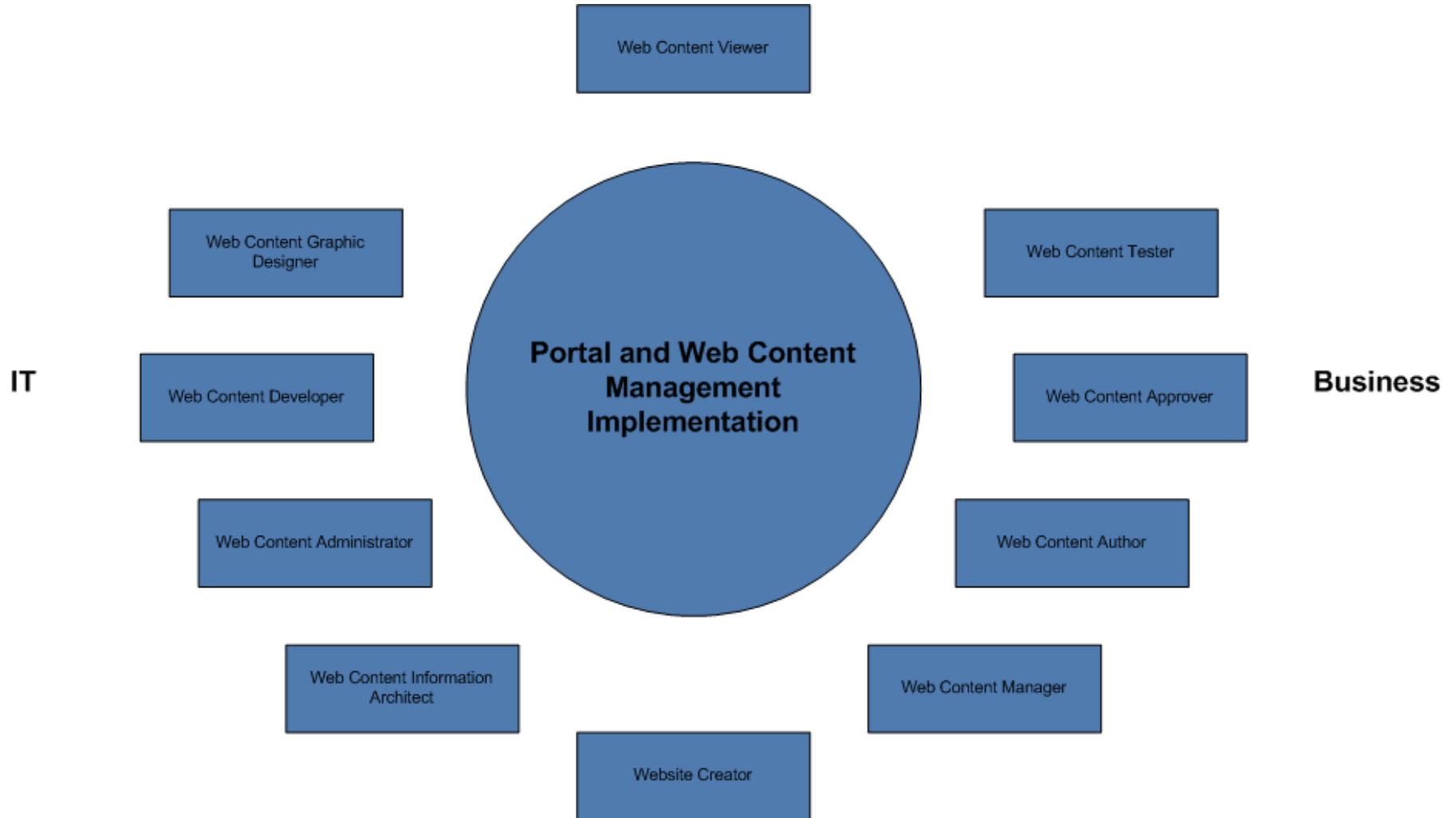
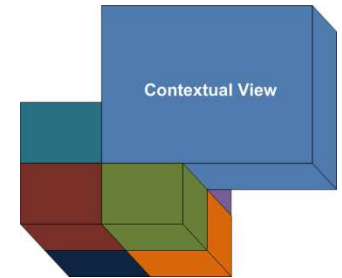




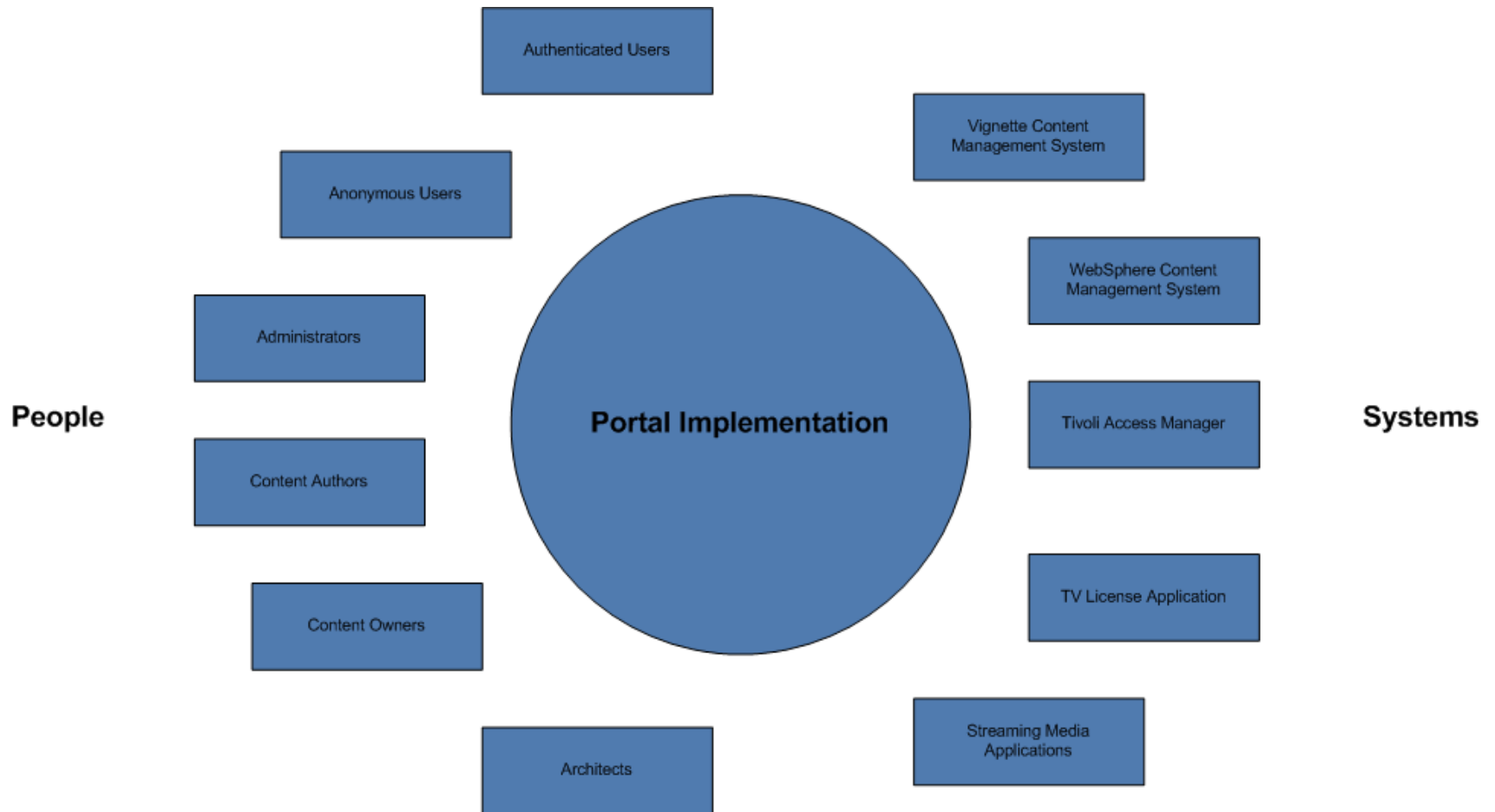
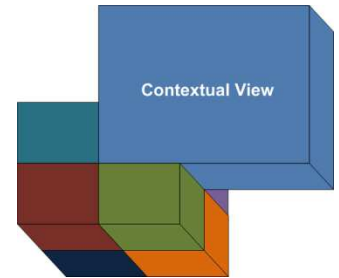
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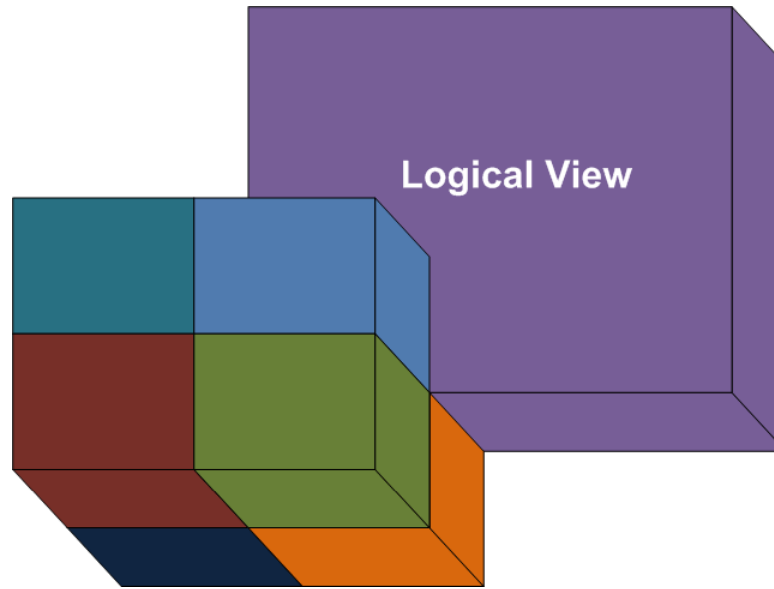
CONTEXTUAL VIEWS

IT vs Business



People vs Systems

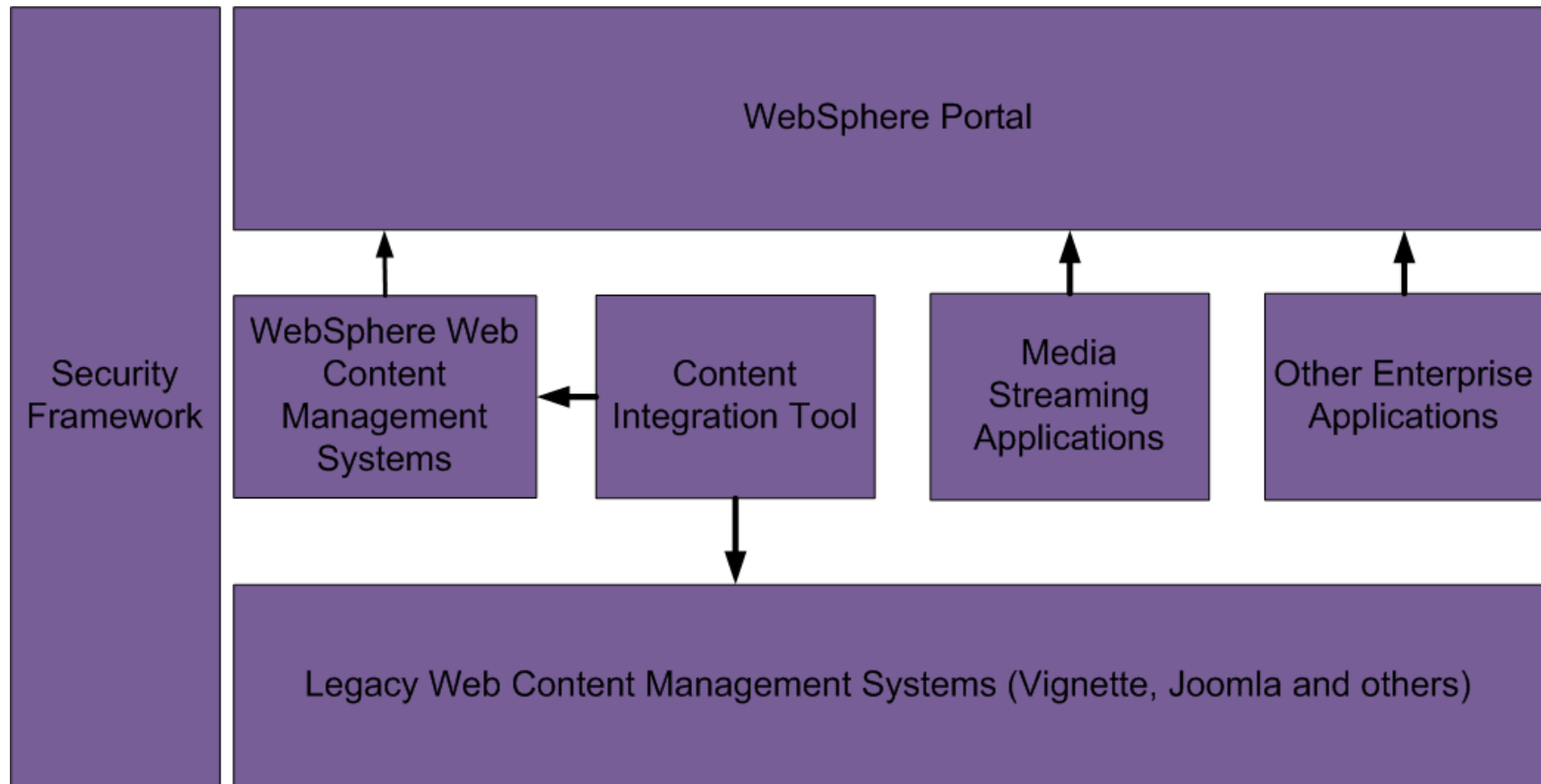
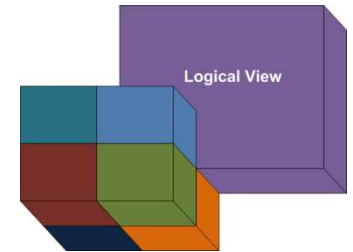


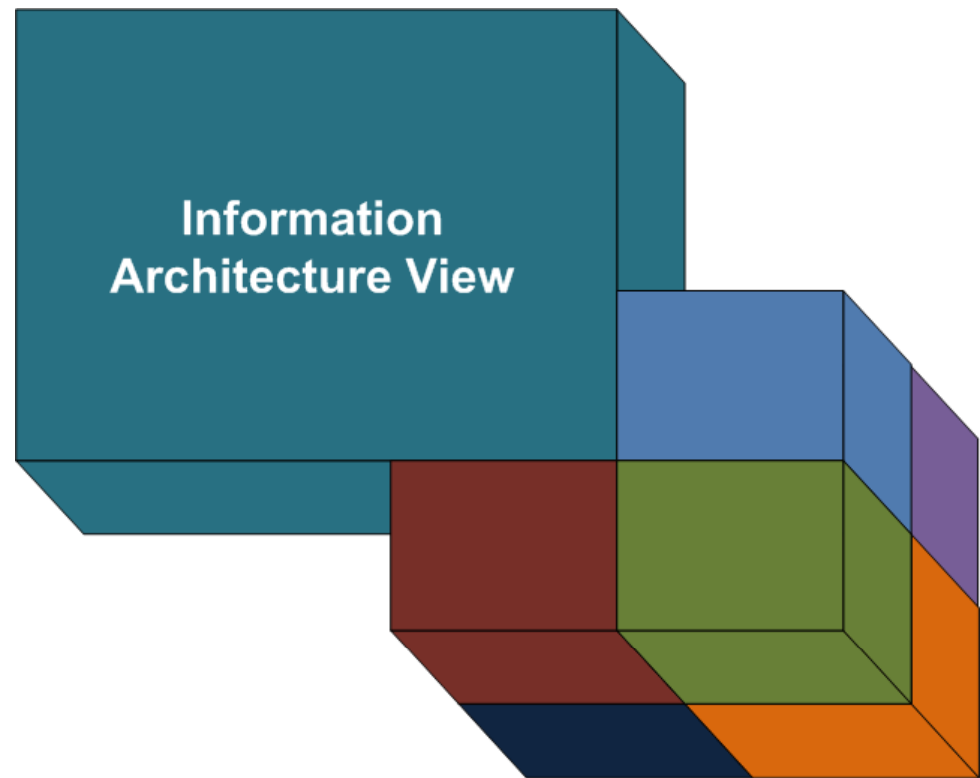


Architectural Views

LOGICAL VIEWS

High Level Block Diagram

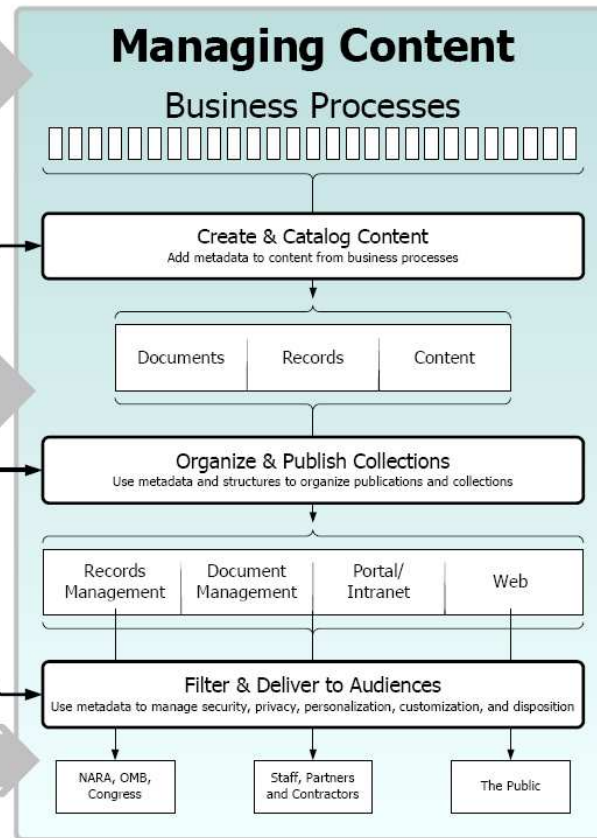
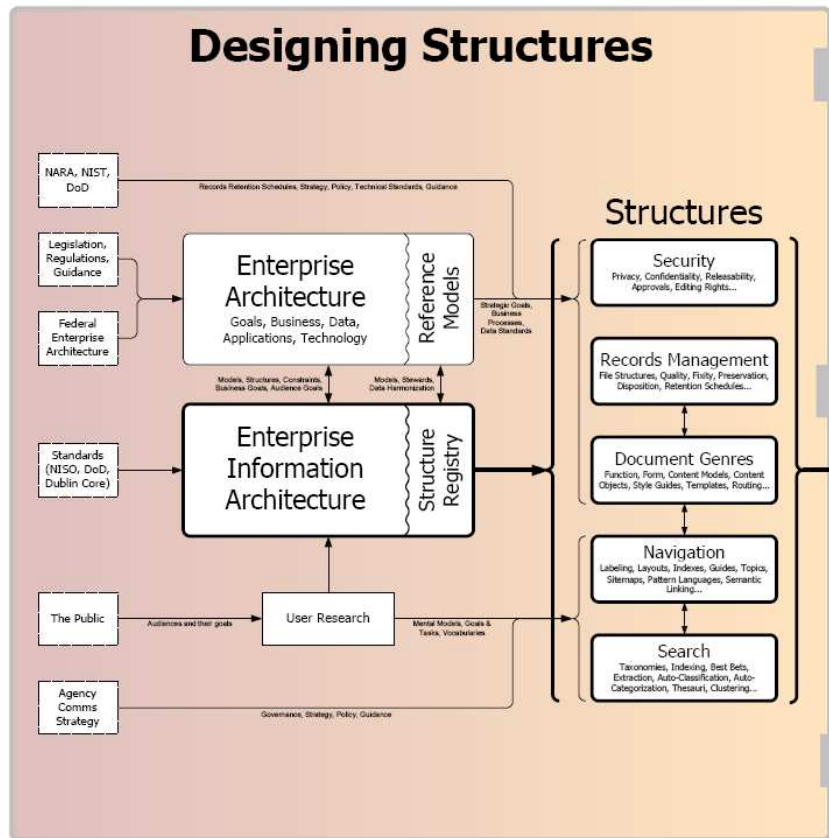
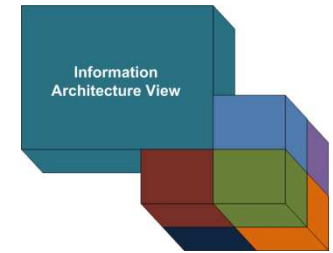


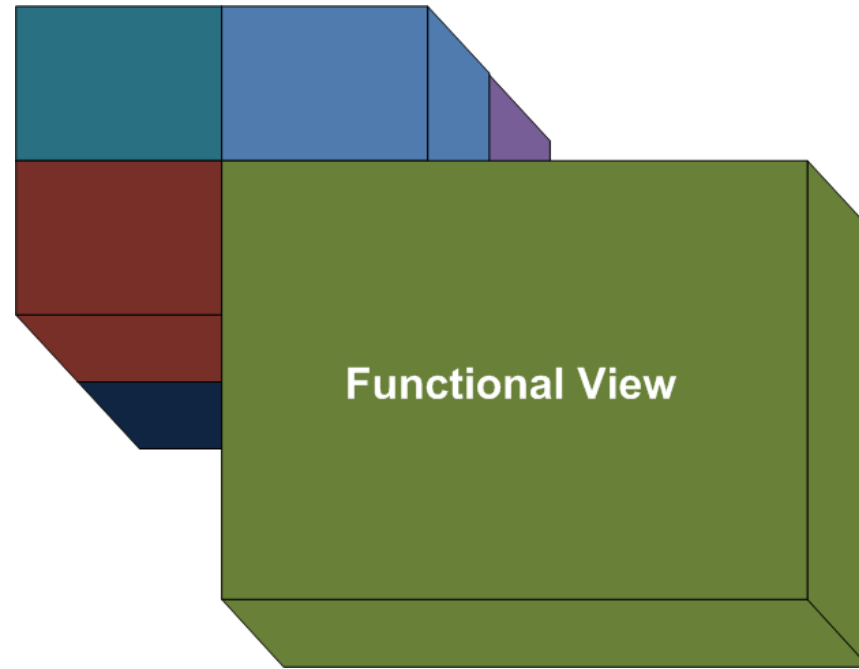


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INFORMATION ARCHITECTURE VIEWS

Information Architecture

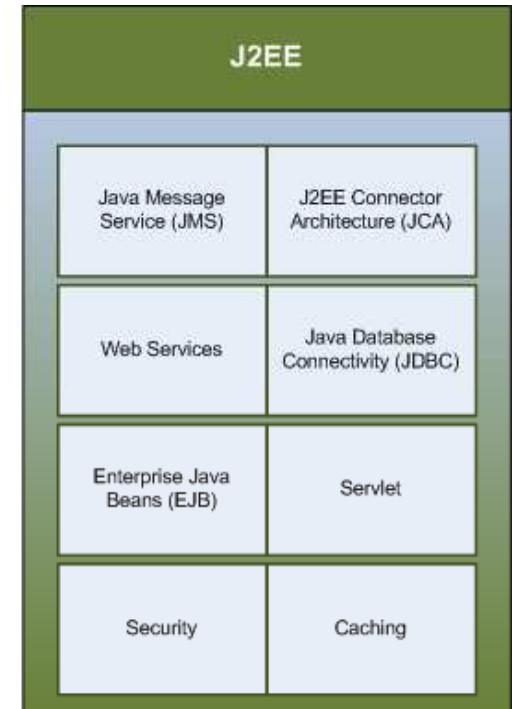
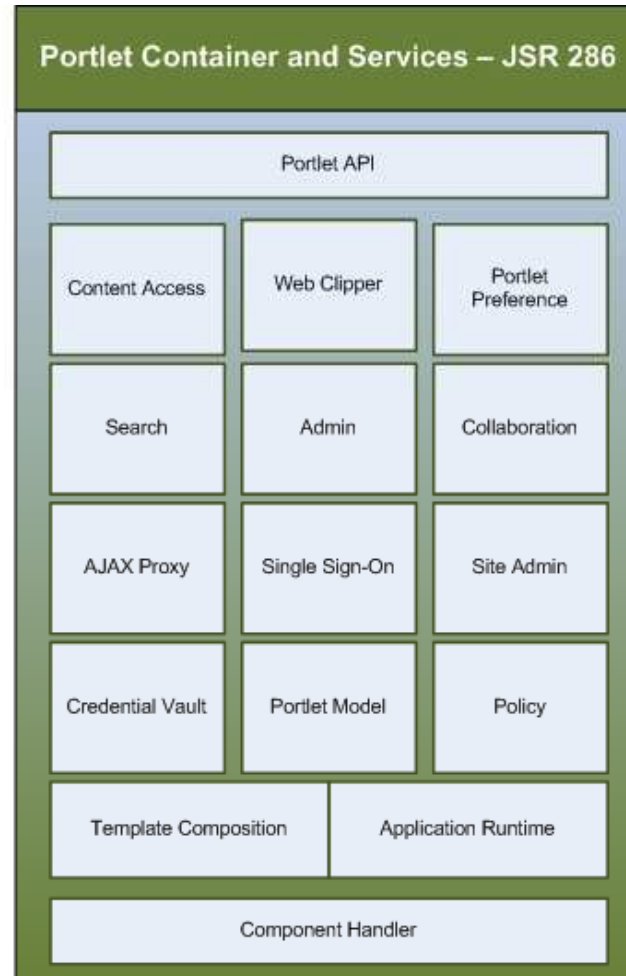
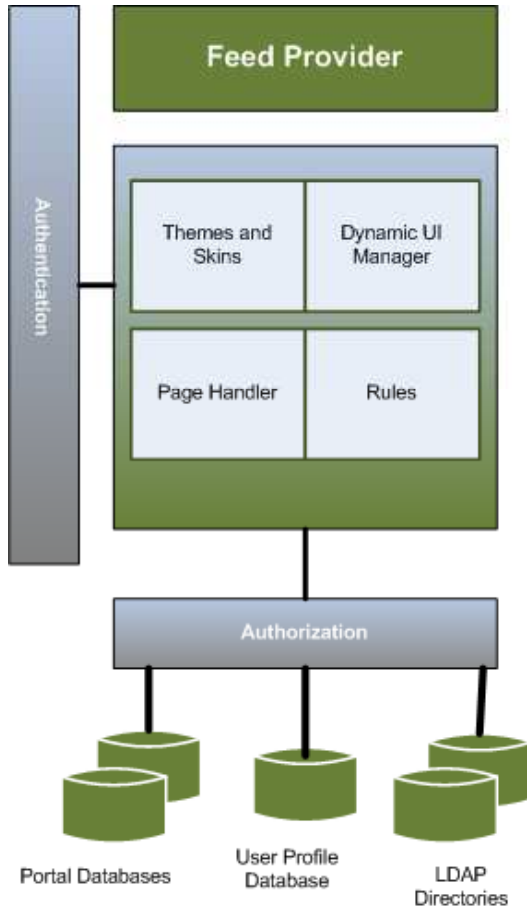
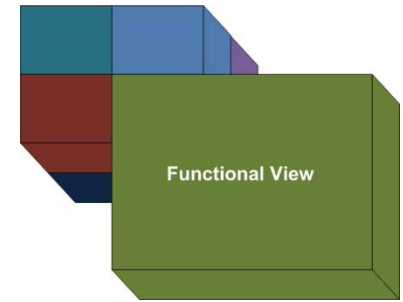




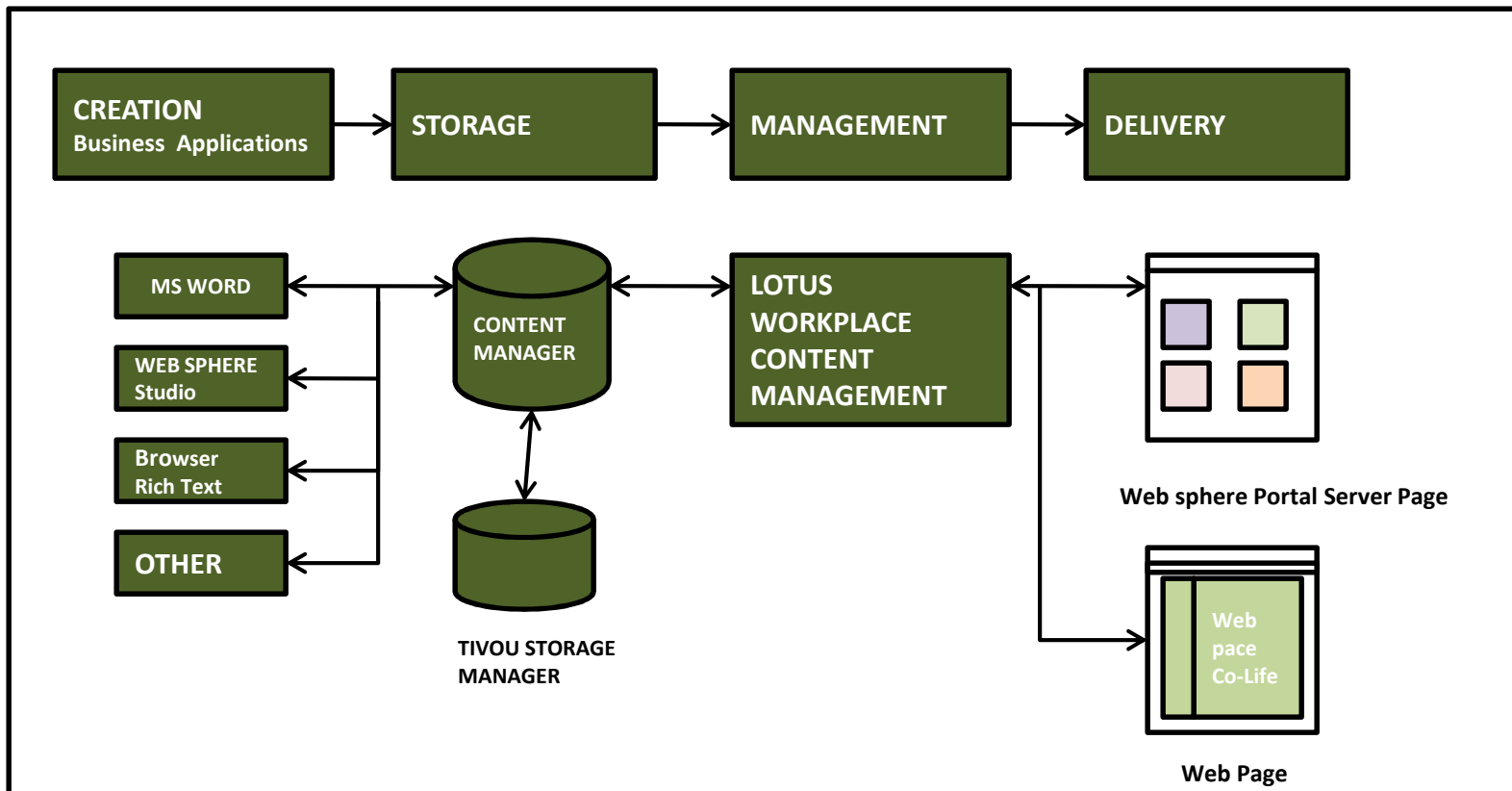
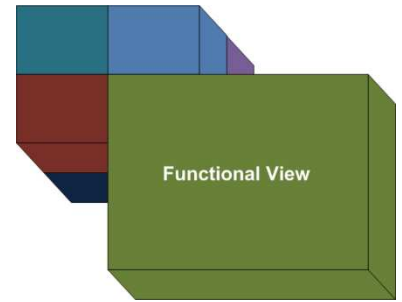
Architectural Views

FUNCTIONAL VIEWS

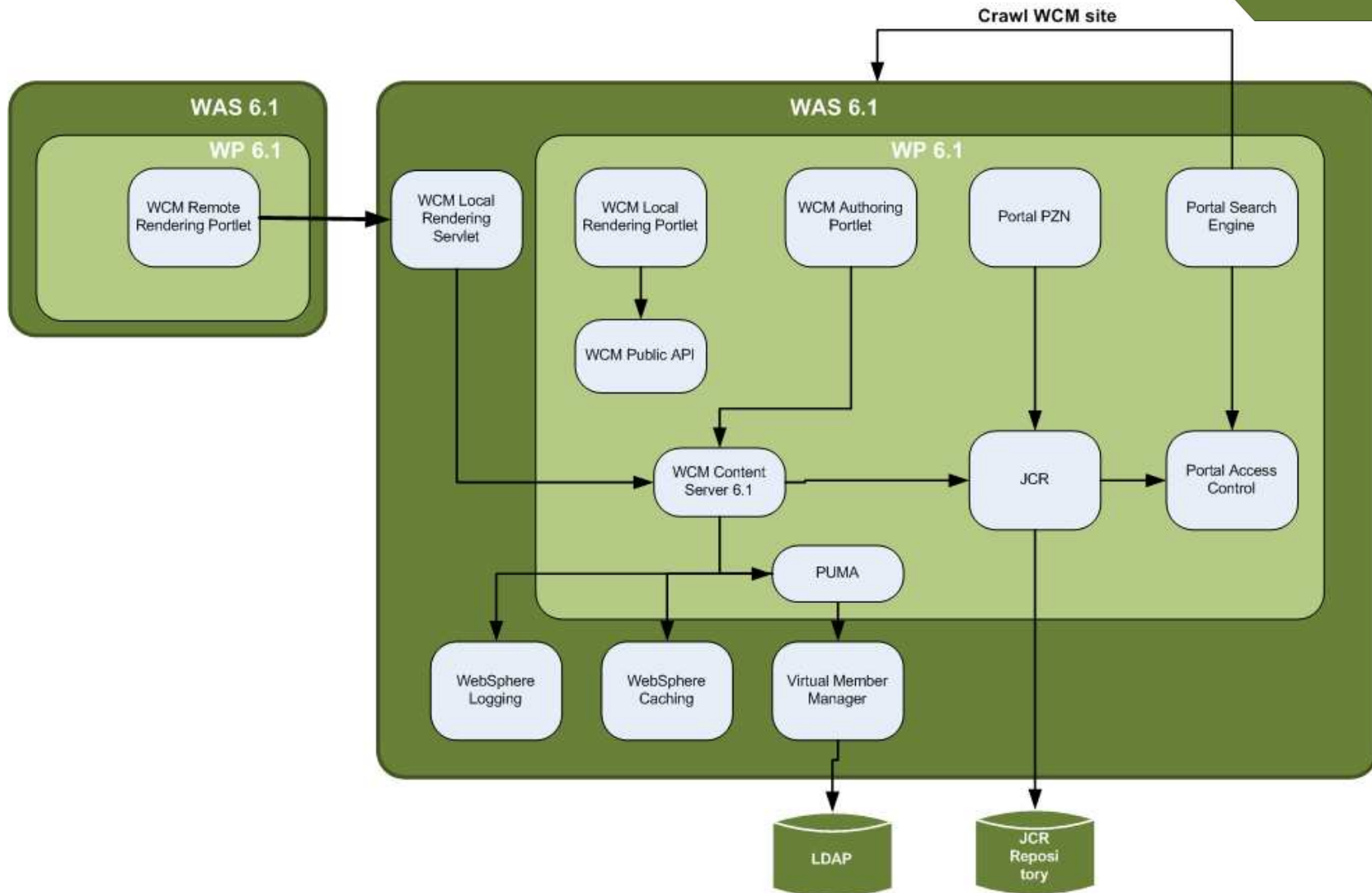
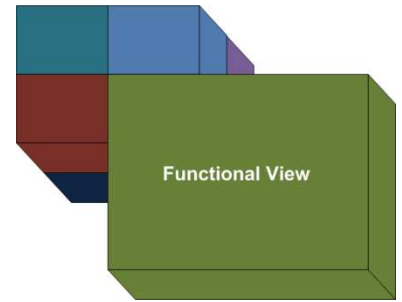
Portal Architecture



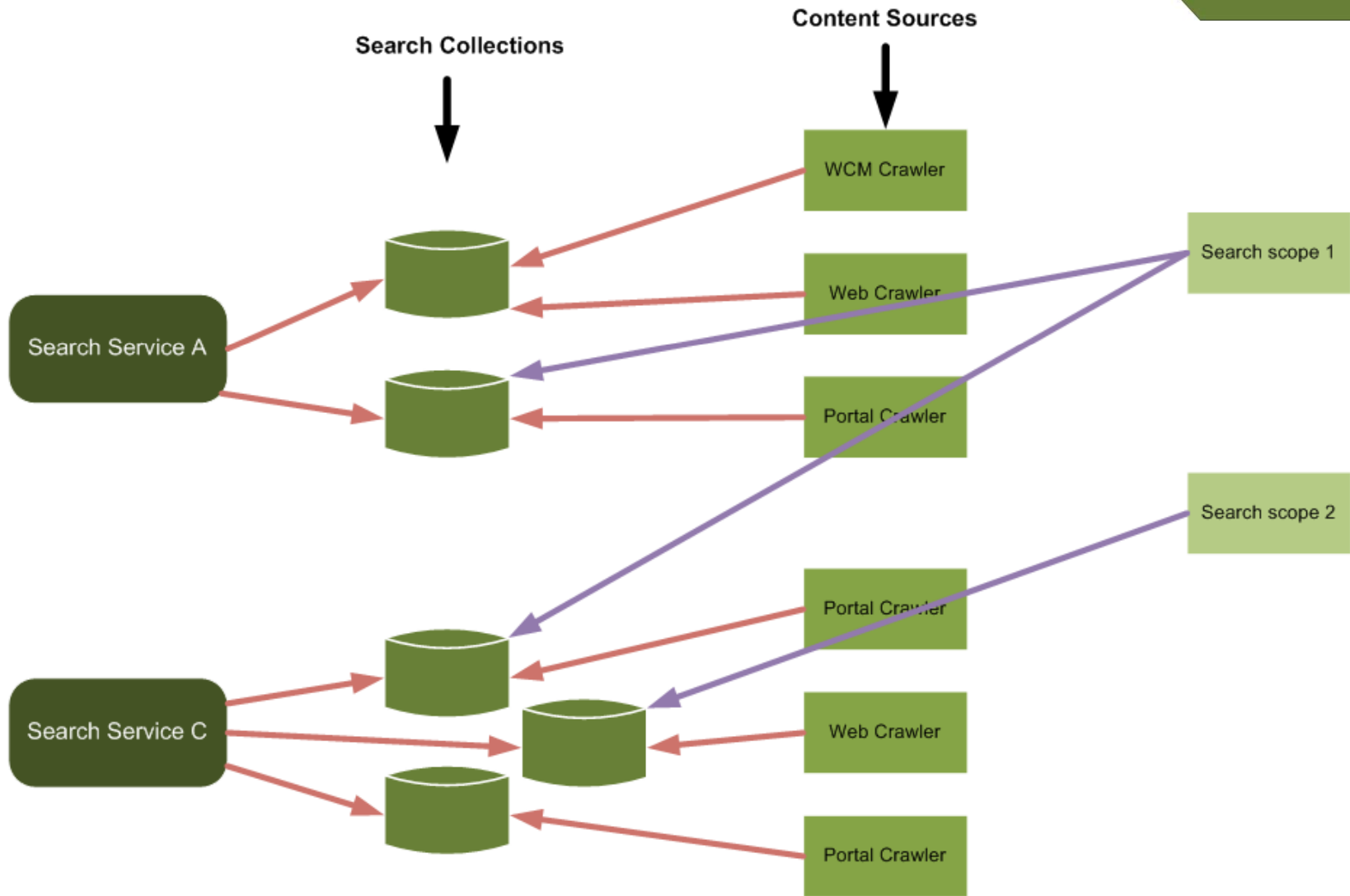
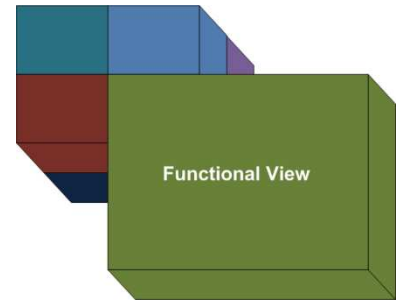
Web Content Management Architecture



Portal and Content Management

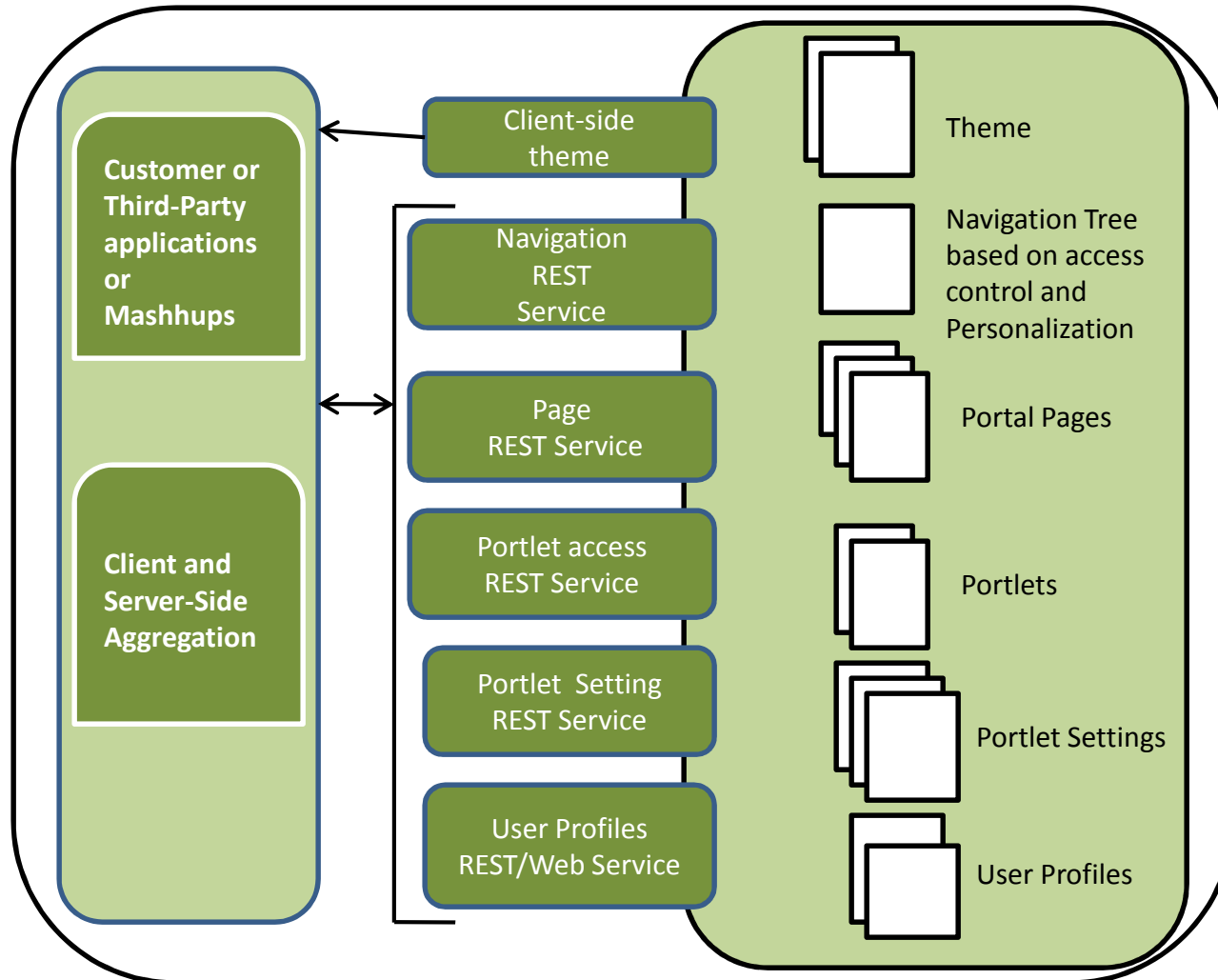
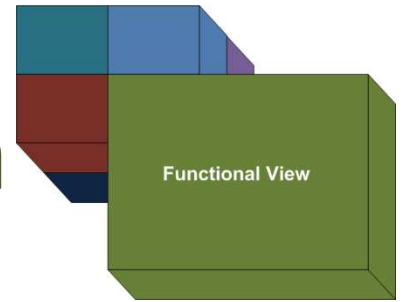


Content Search

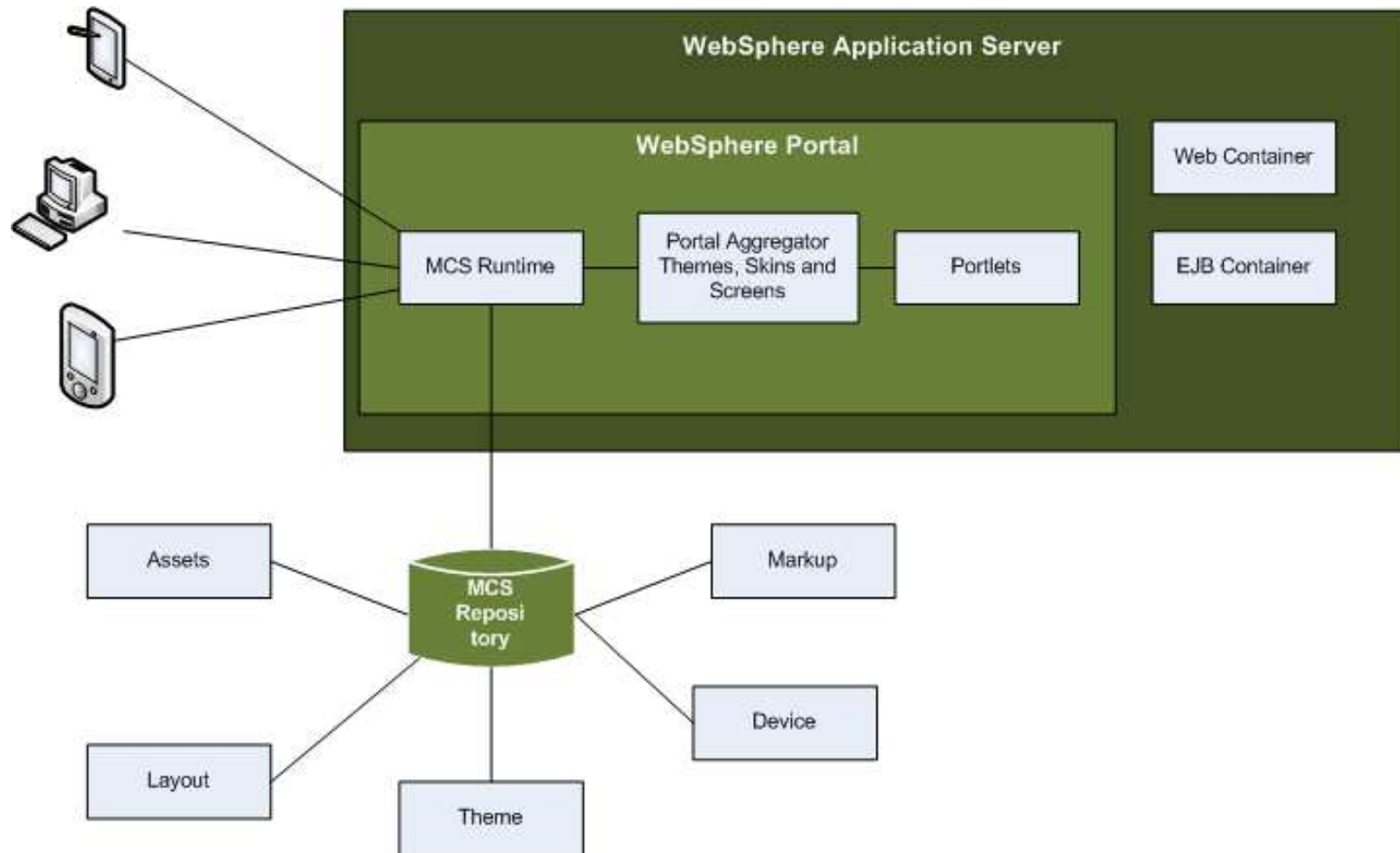
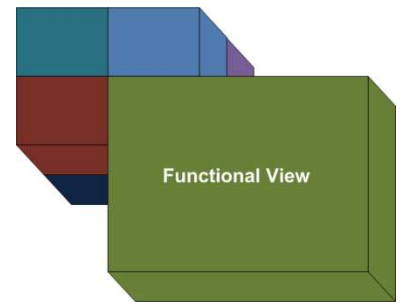


Portal Client Side Aggregation

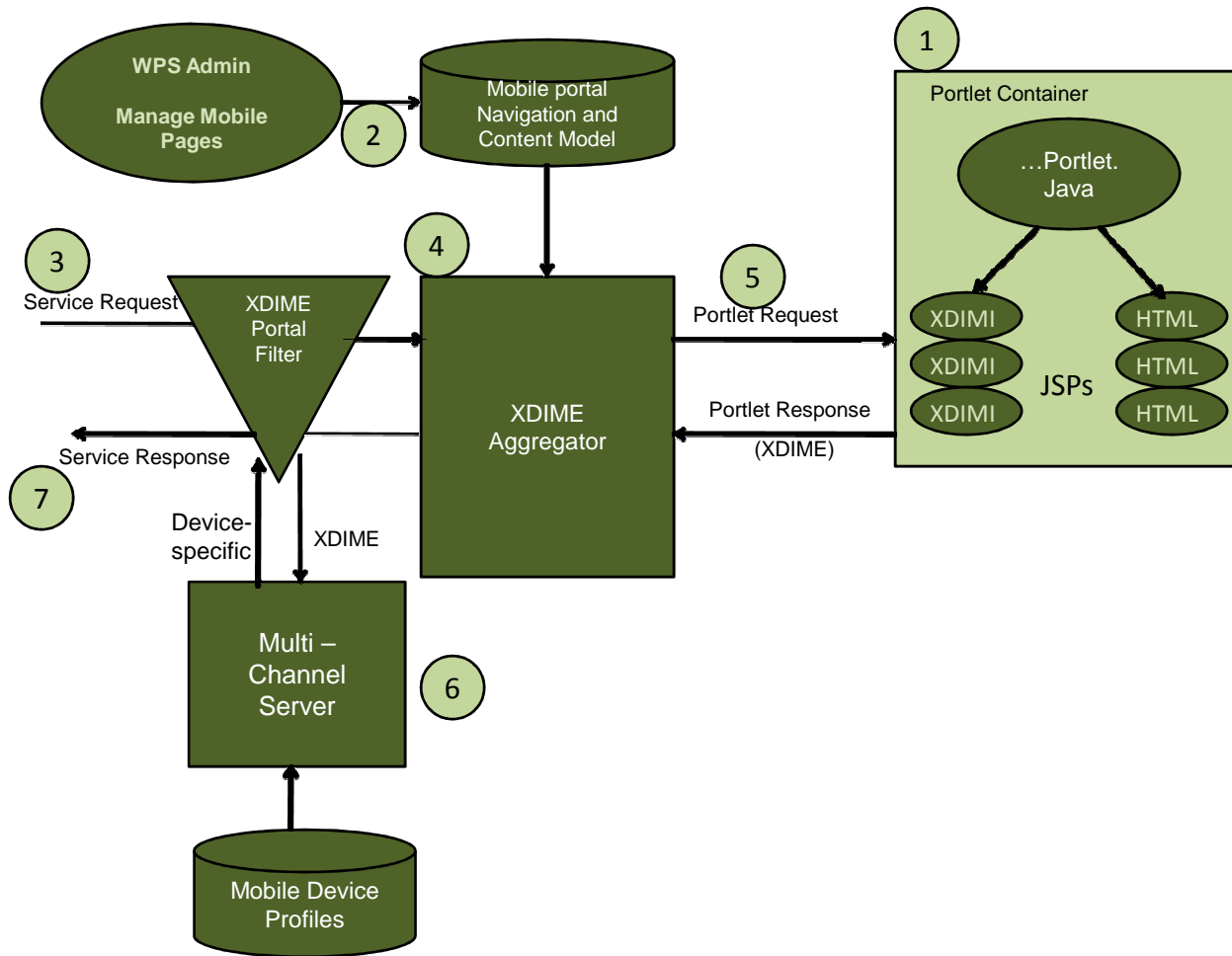
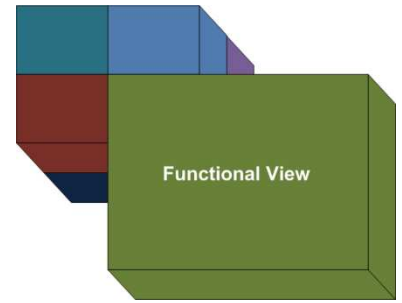
Client-side Aggregation



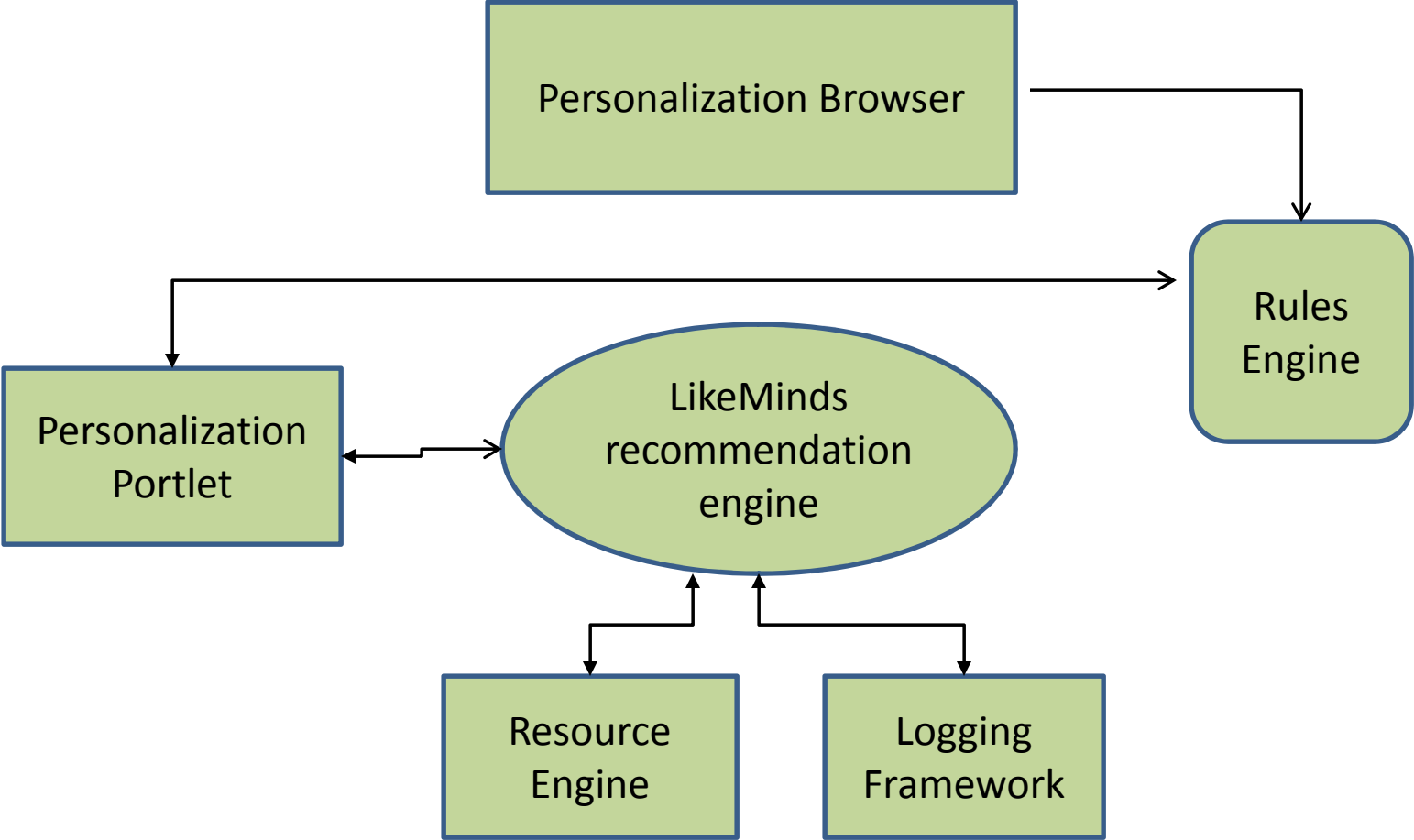
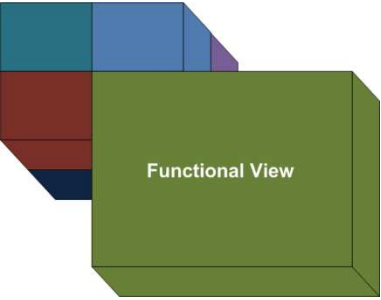
Mobile Support



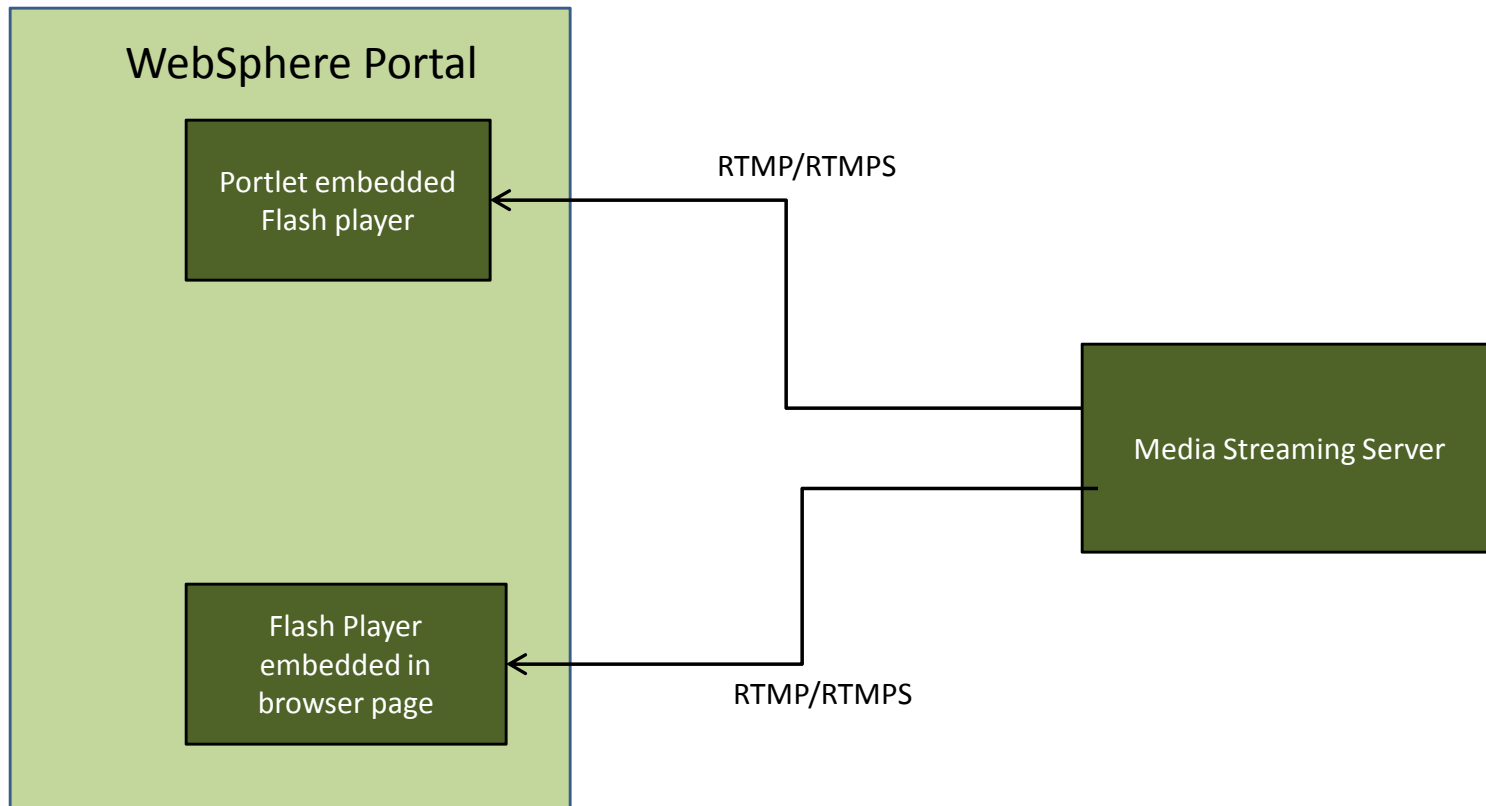
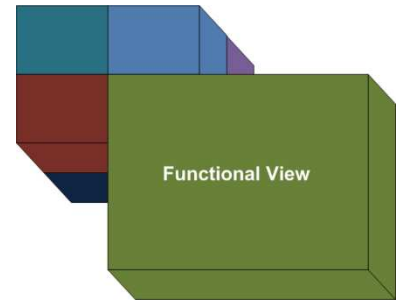
Mobile Support (contd ...)



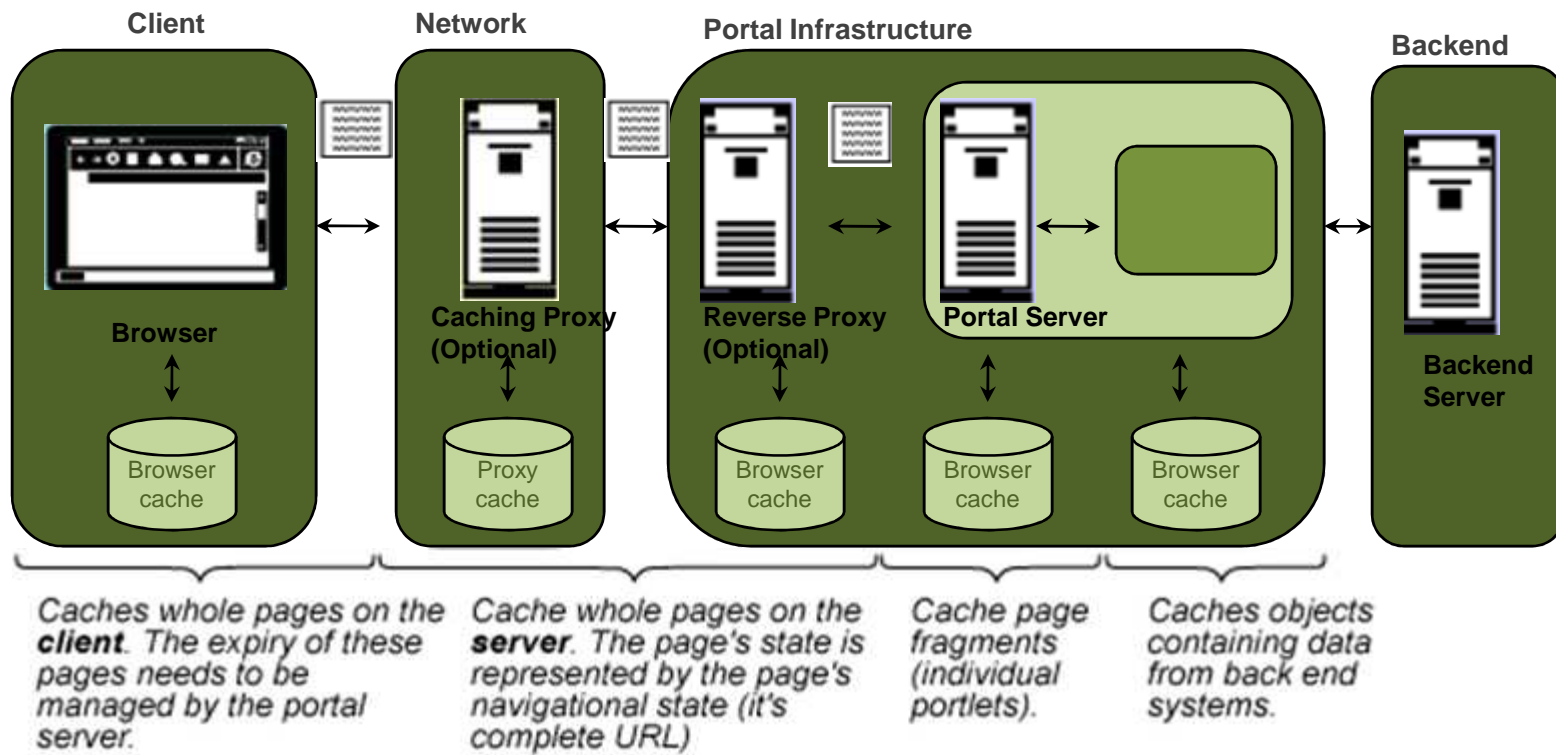
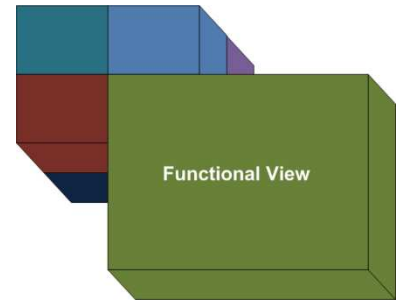
Portal Personalization

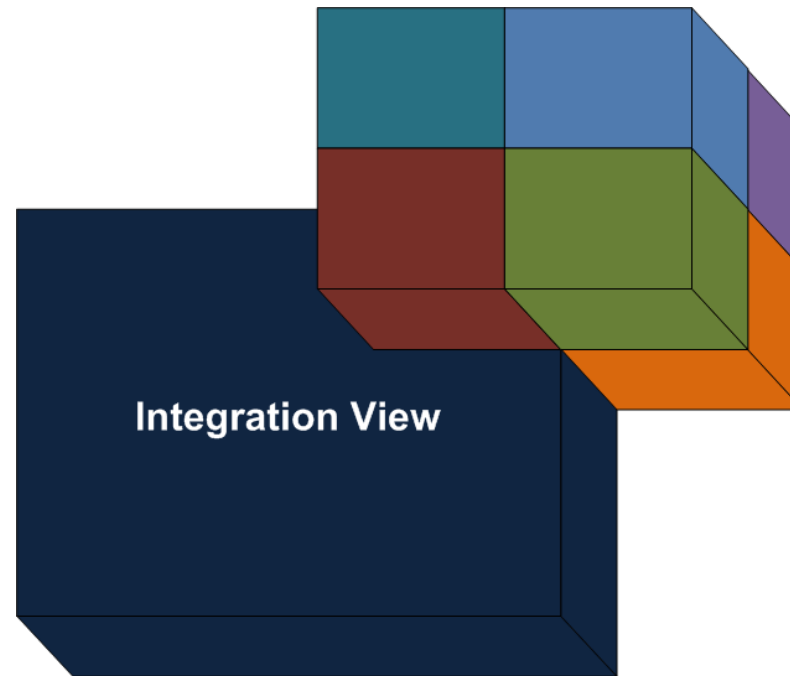


Rich Media Streaming



Content Caching





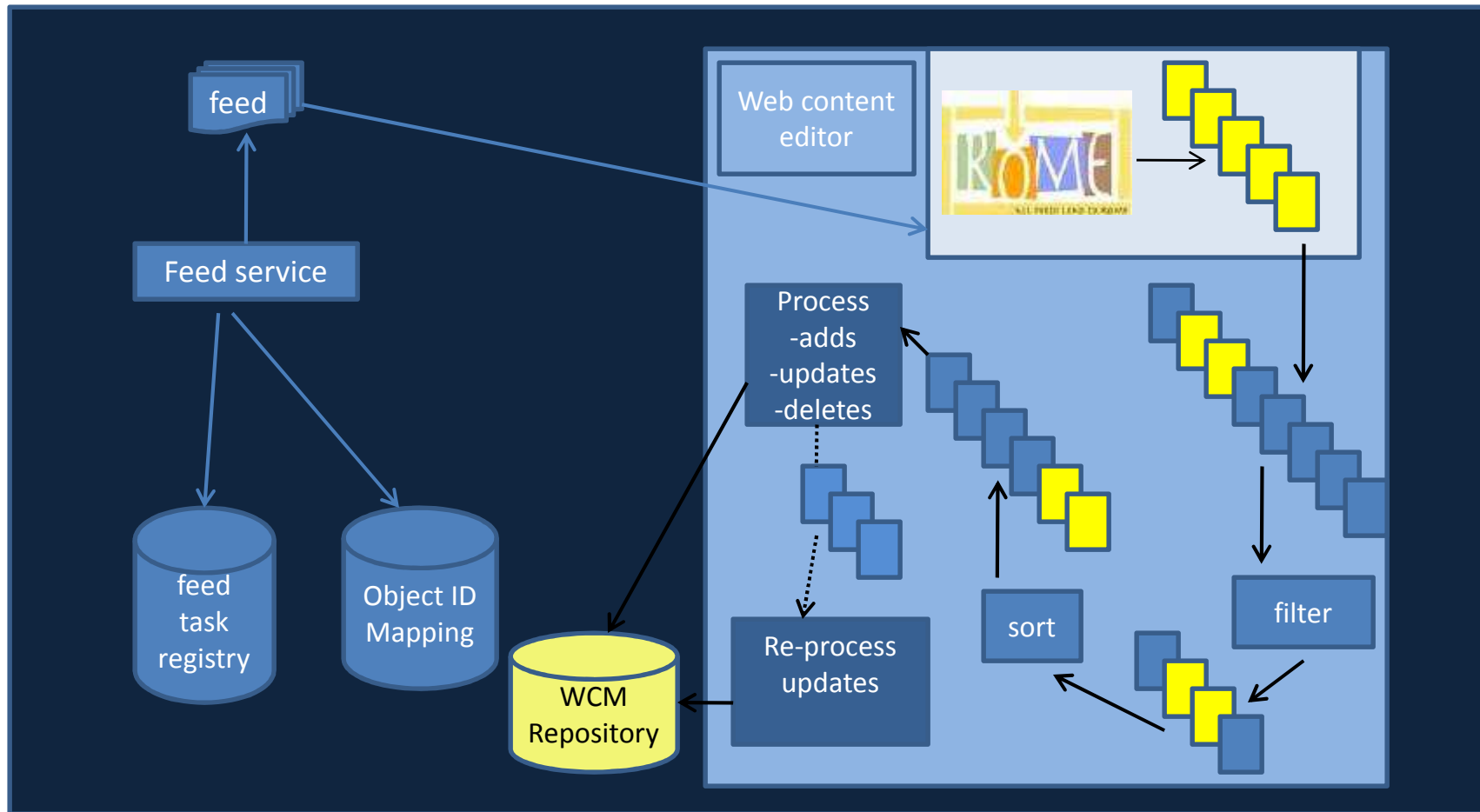
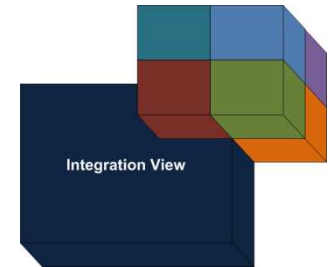
Architectural Views

INTEGRATION VIEWS

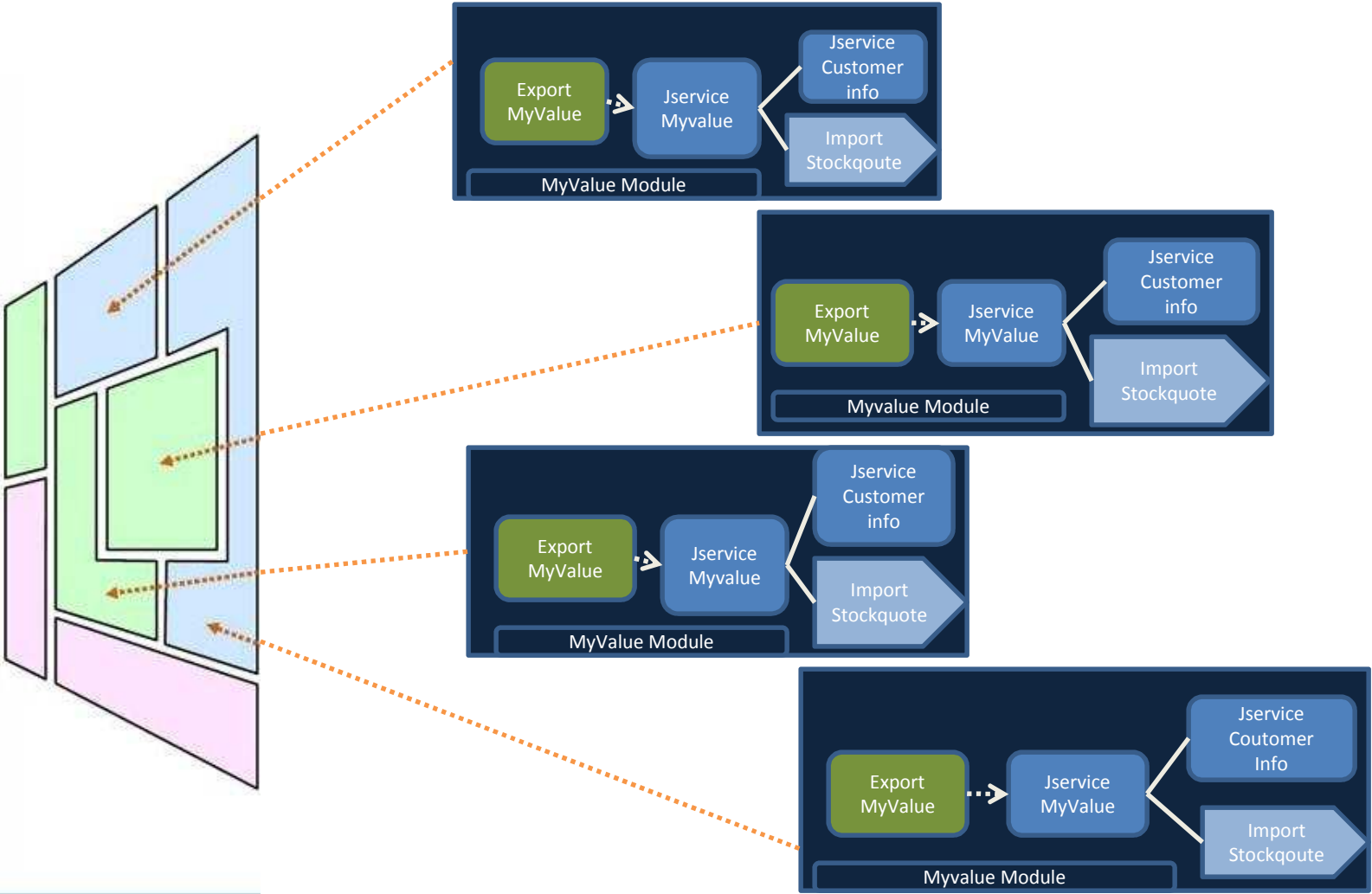
Integration Patterns

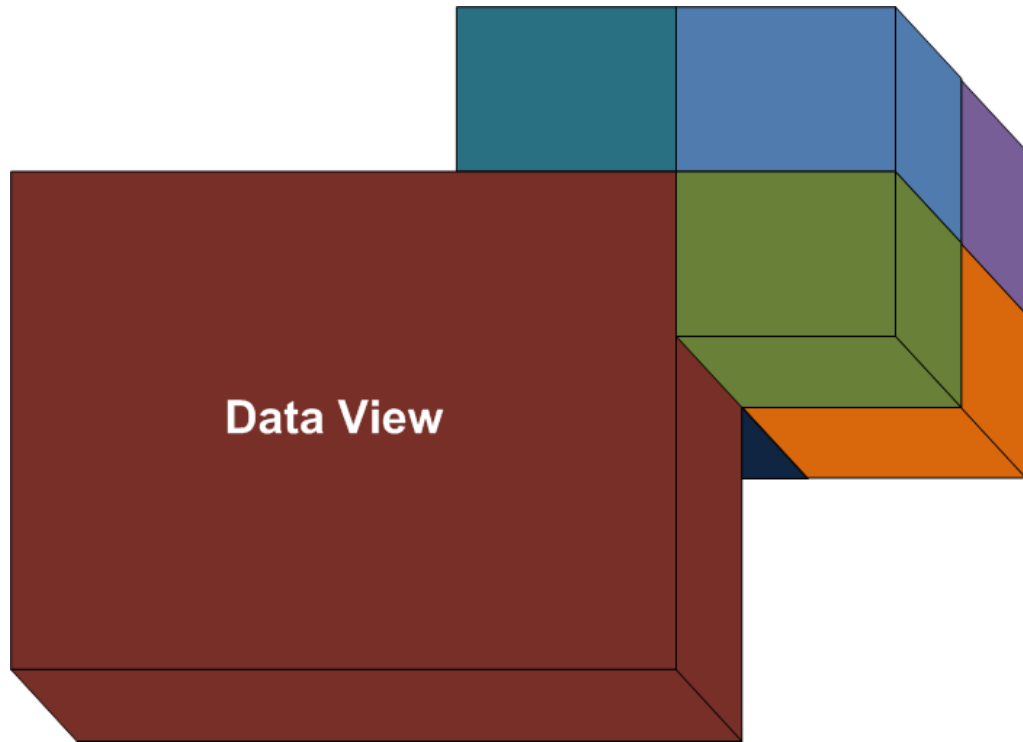
- Presentation Integration
- Programmatic Integration
- Middleware Integration

Content Integration Architecture



Application Integration Architecture

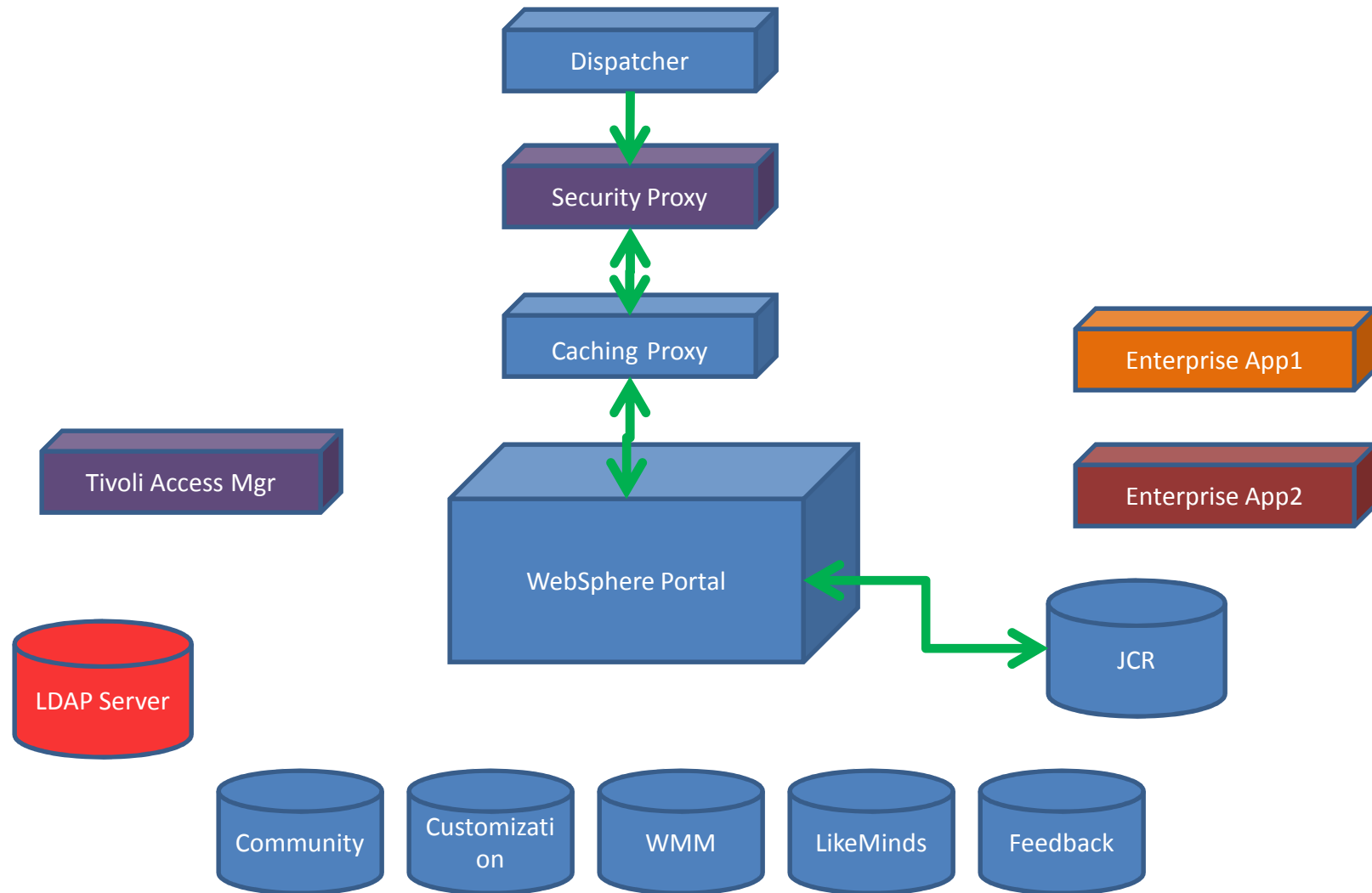
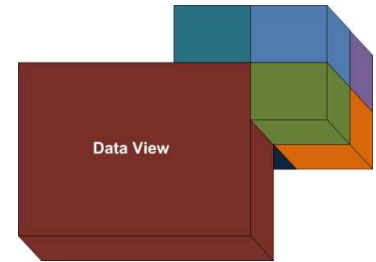




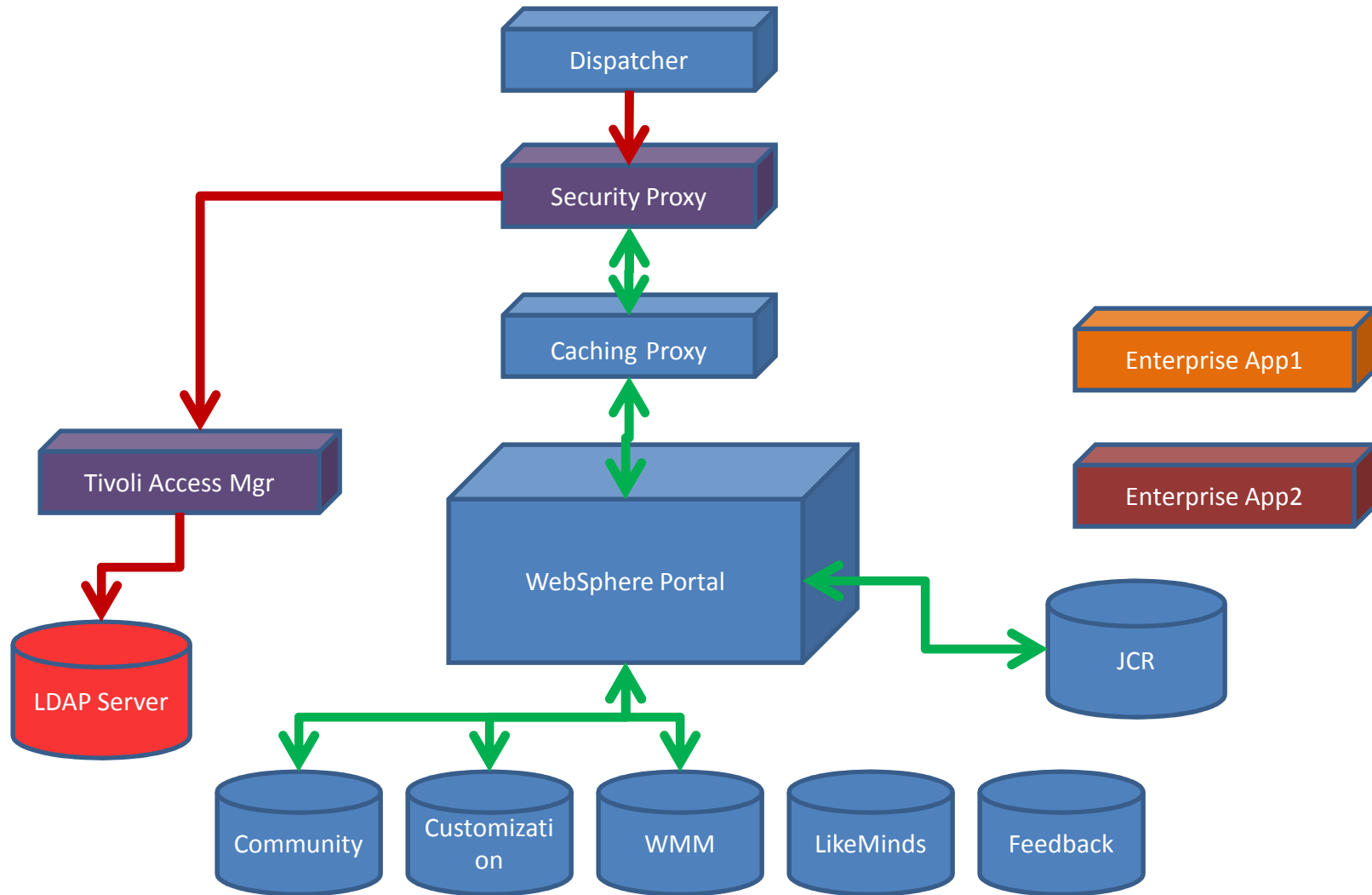
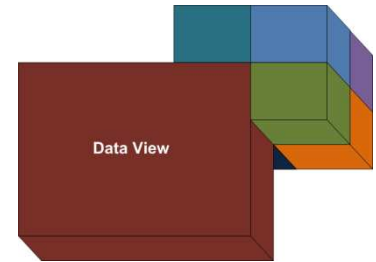
Architectural Views

DATA VIEWS

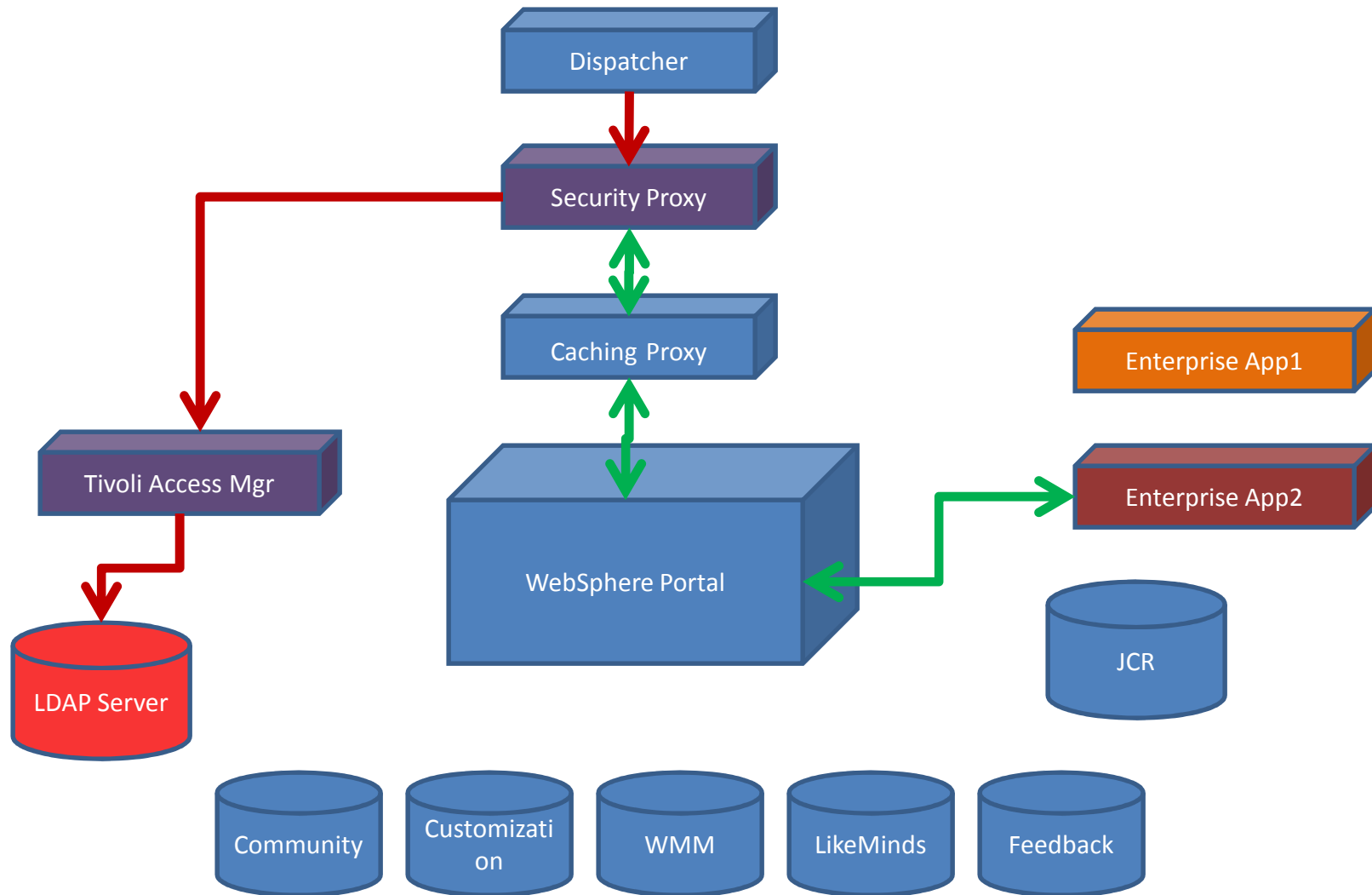
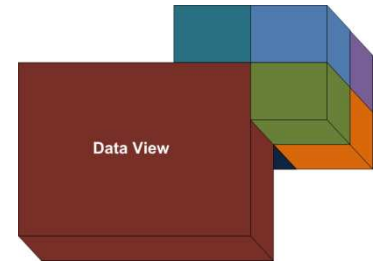
Data Flow Diagram – Unsecured Content Access



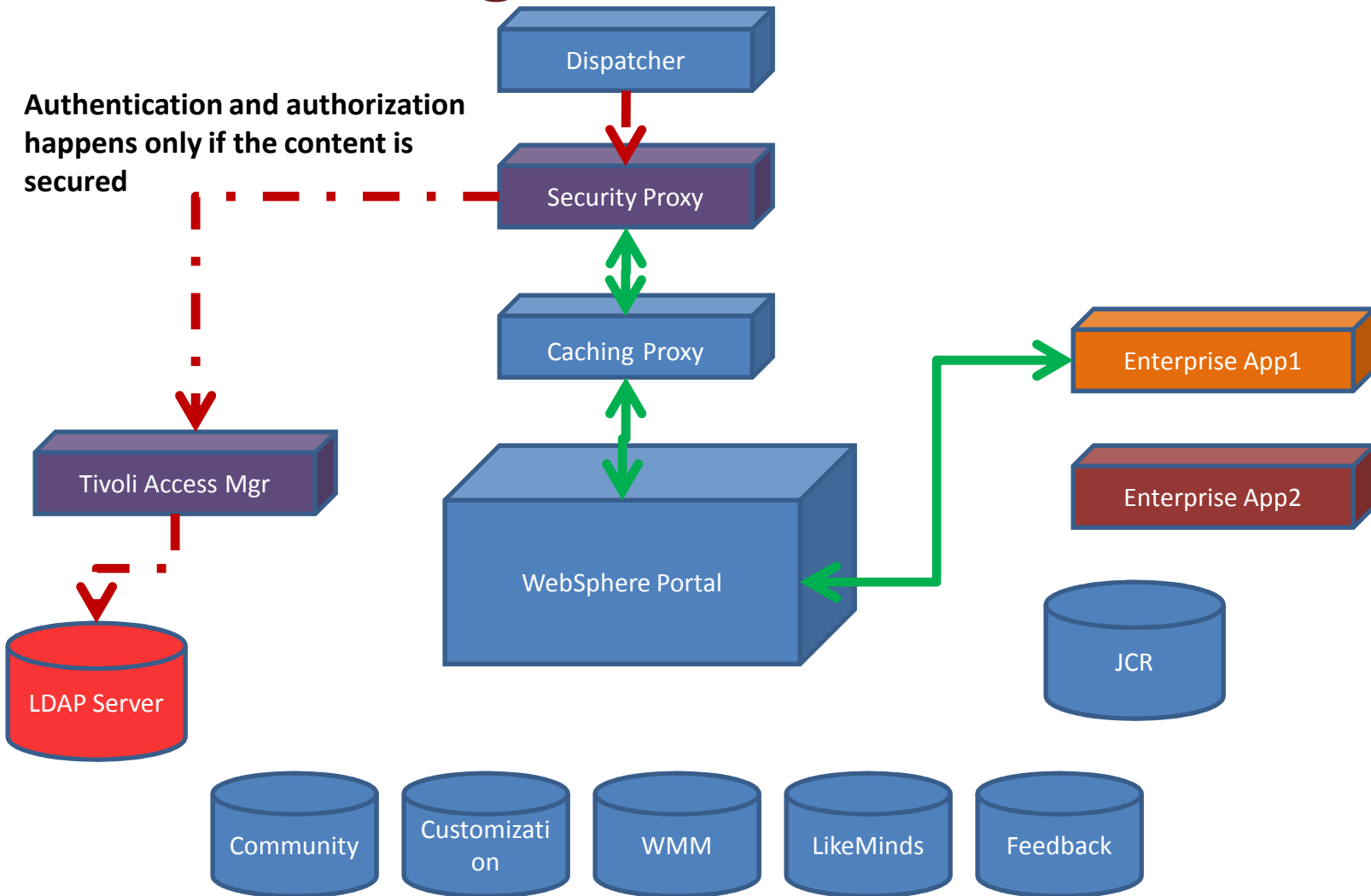
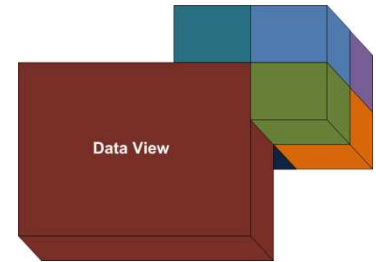
Data Flow Diagram – Secured Content Access



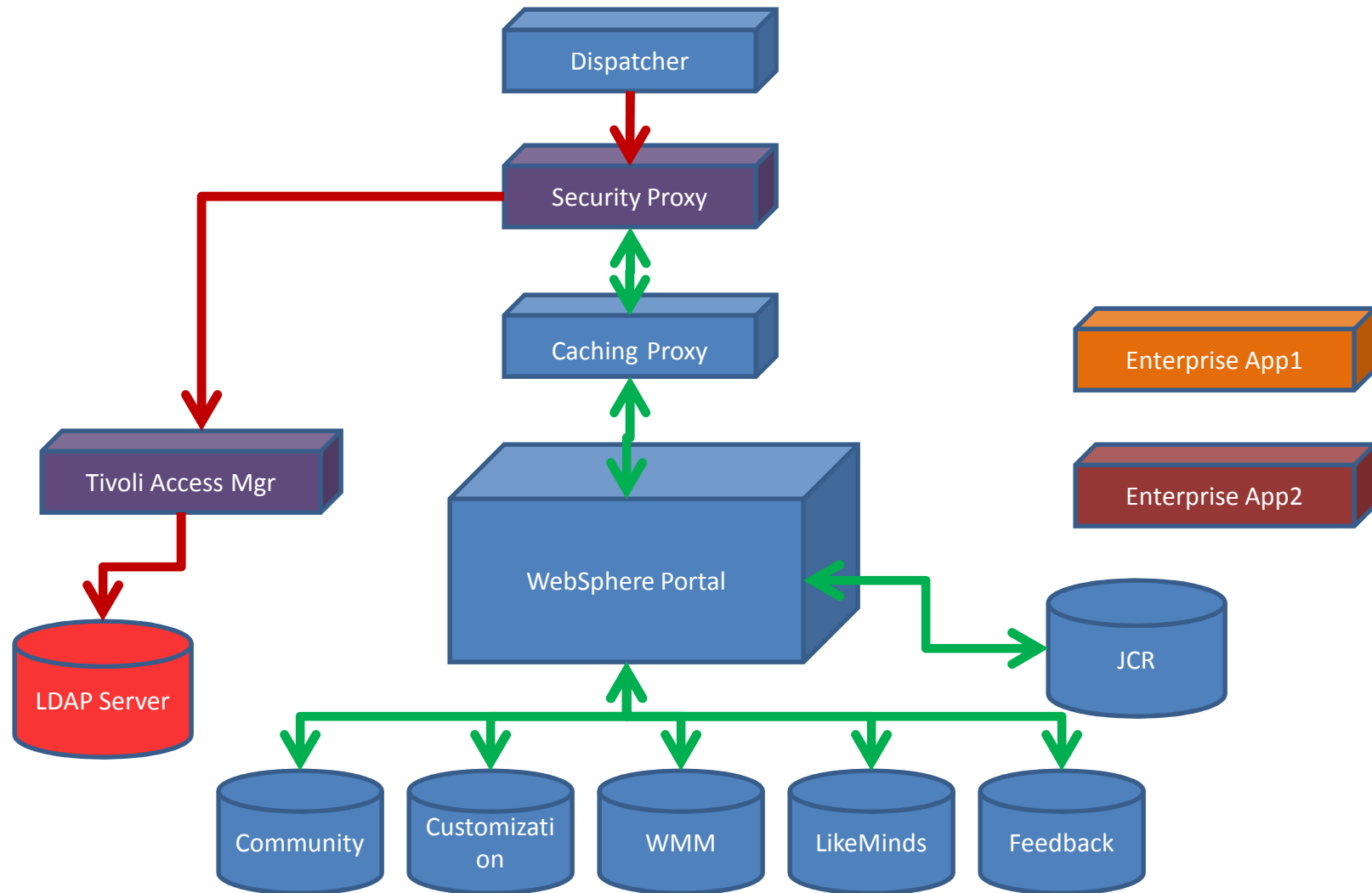
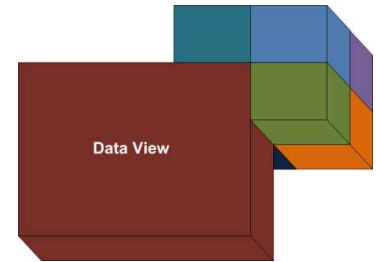
Data Flow Diagram – Transaction Services Access



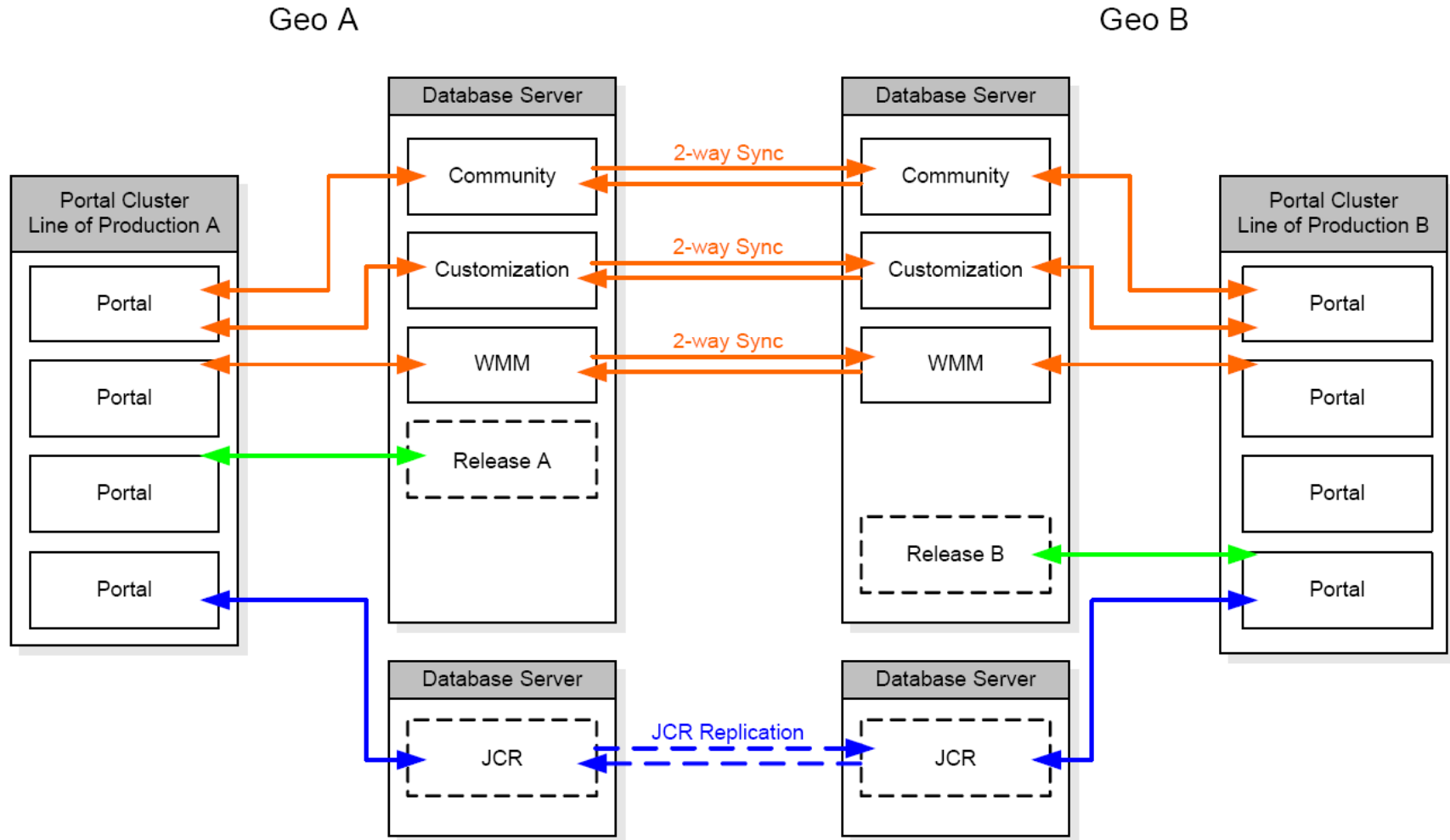
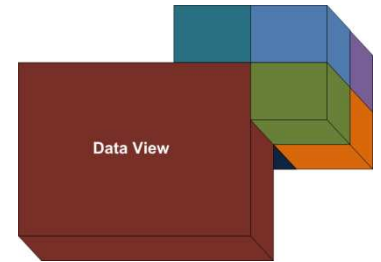
Data Flow Diagram – Streaming Content Access

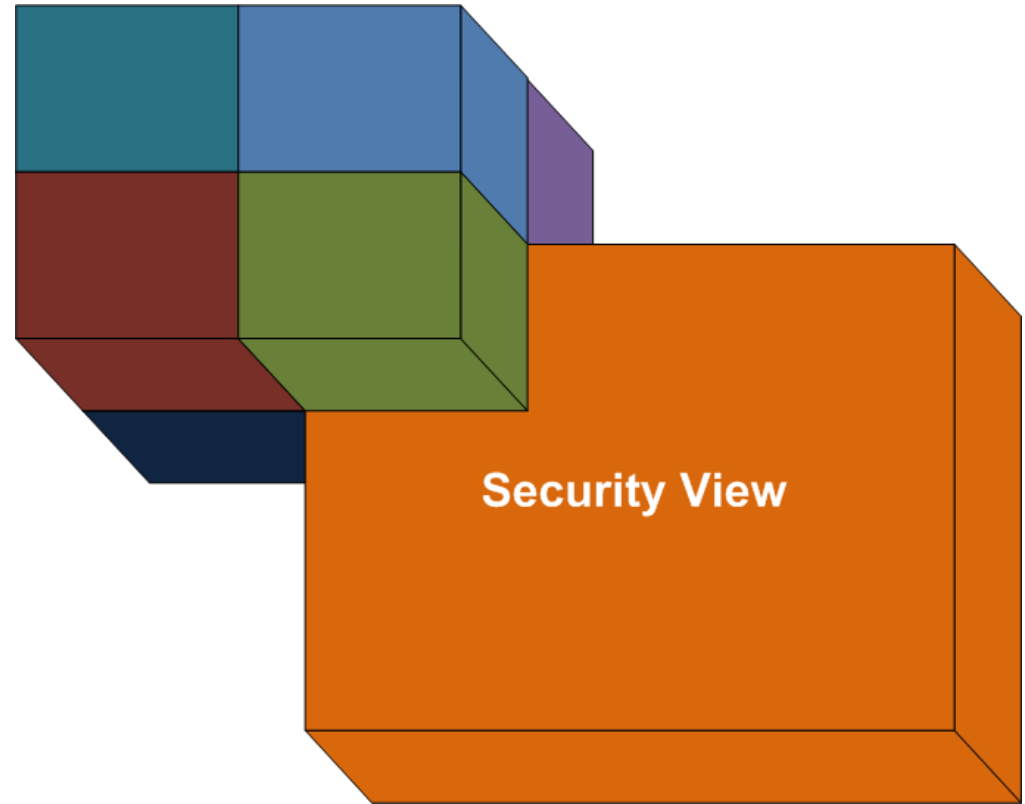


Data Flow Diagram – Personalized Content Access



Resource View

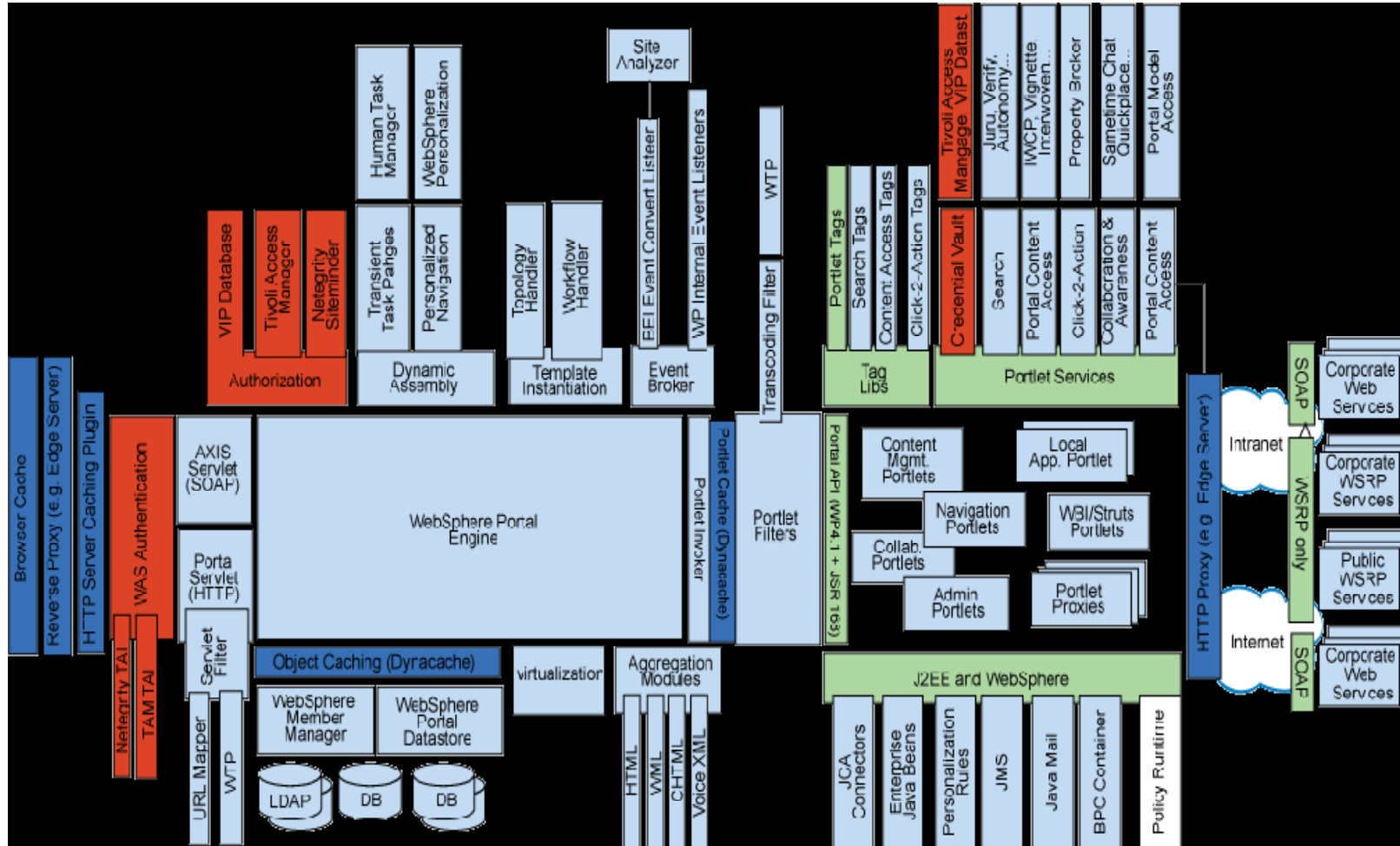
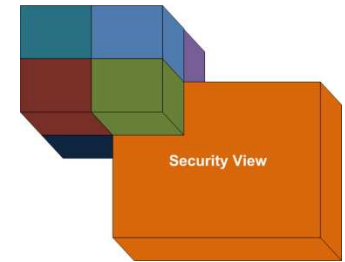




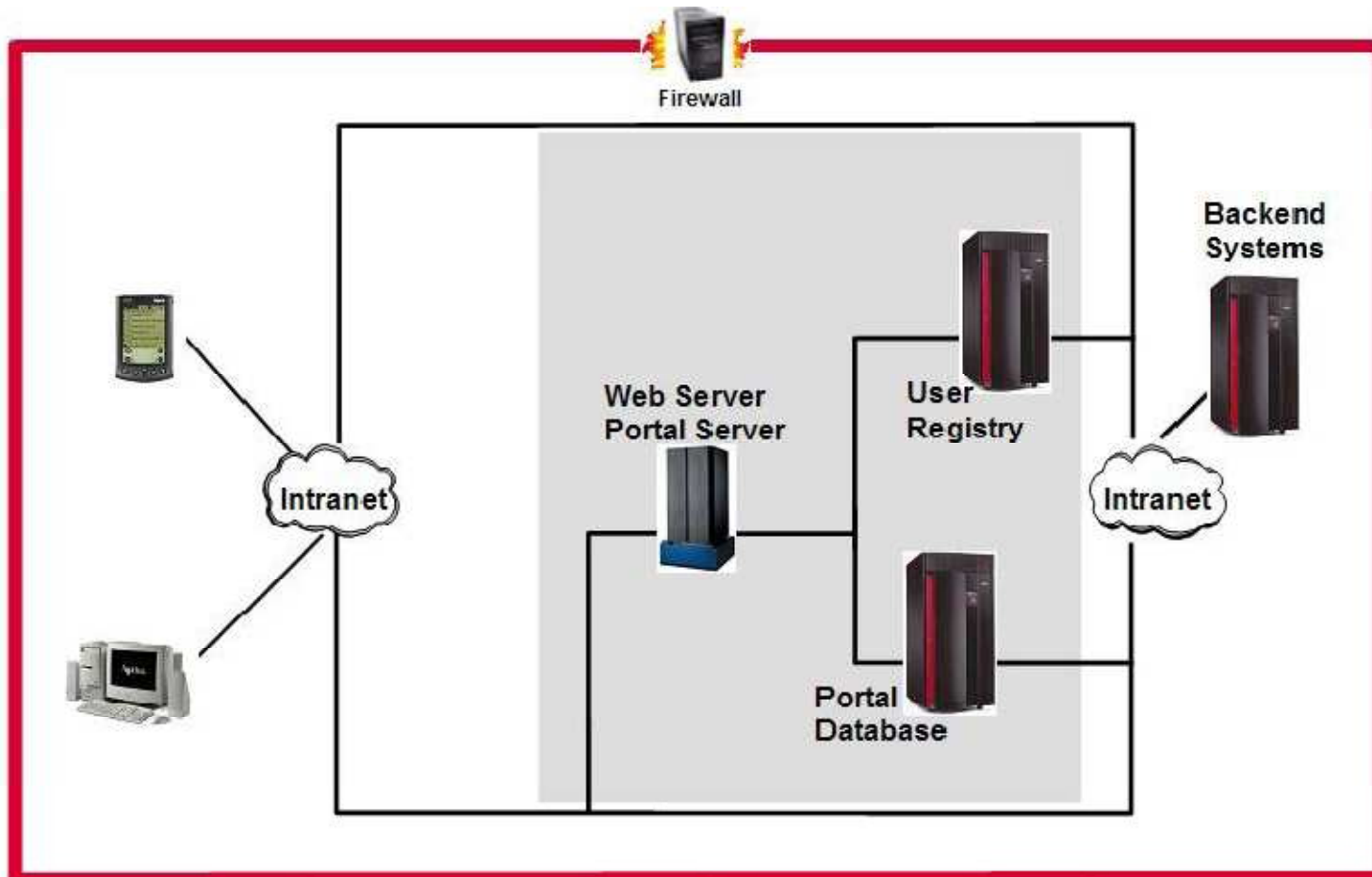
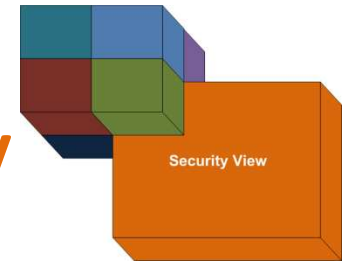
Architectural Views

SECURITY VIEWS

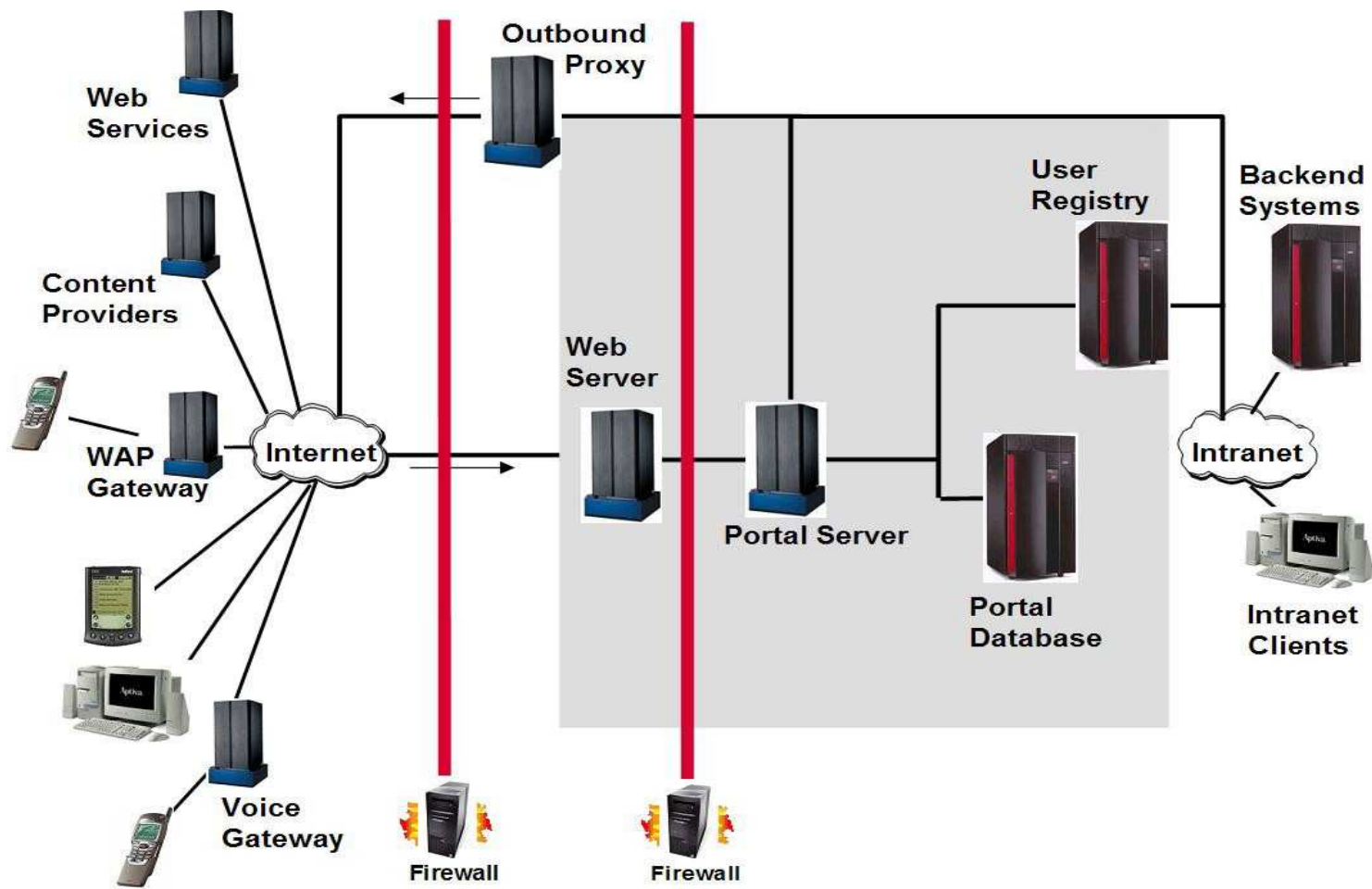
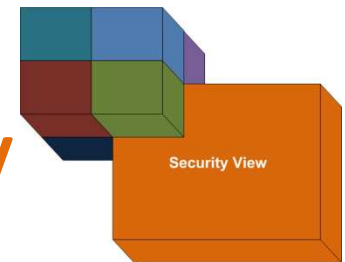
Component Security View



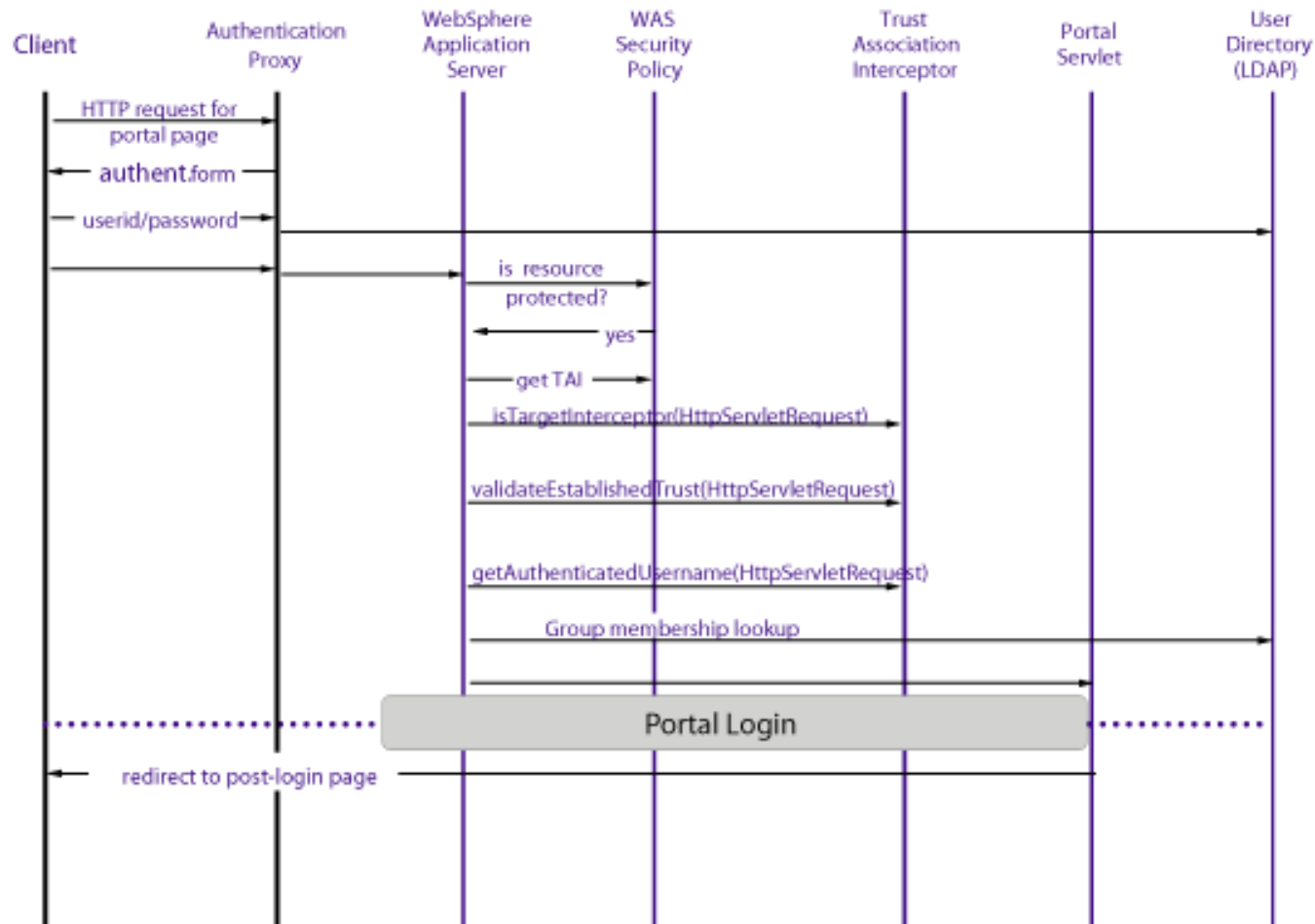
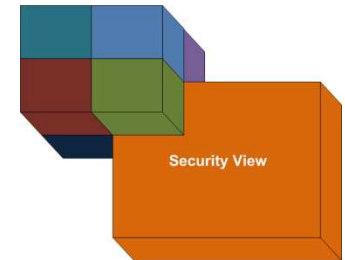
Intranet Perimeter Security



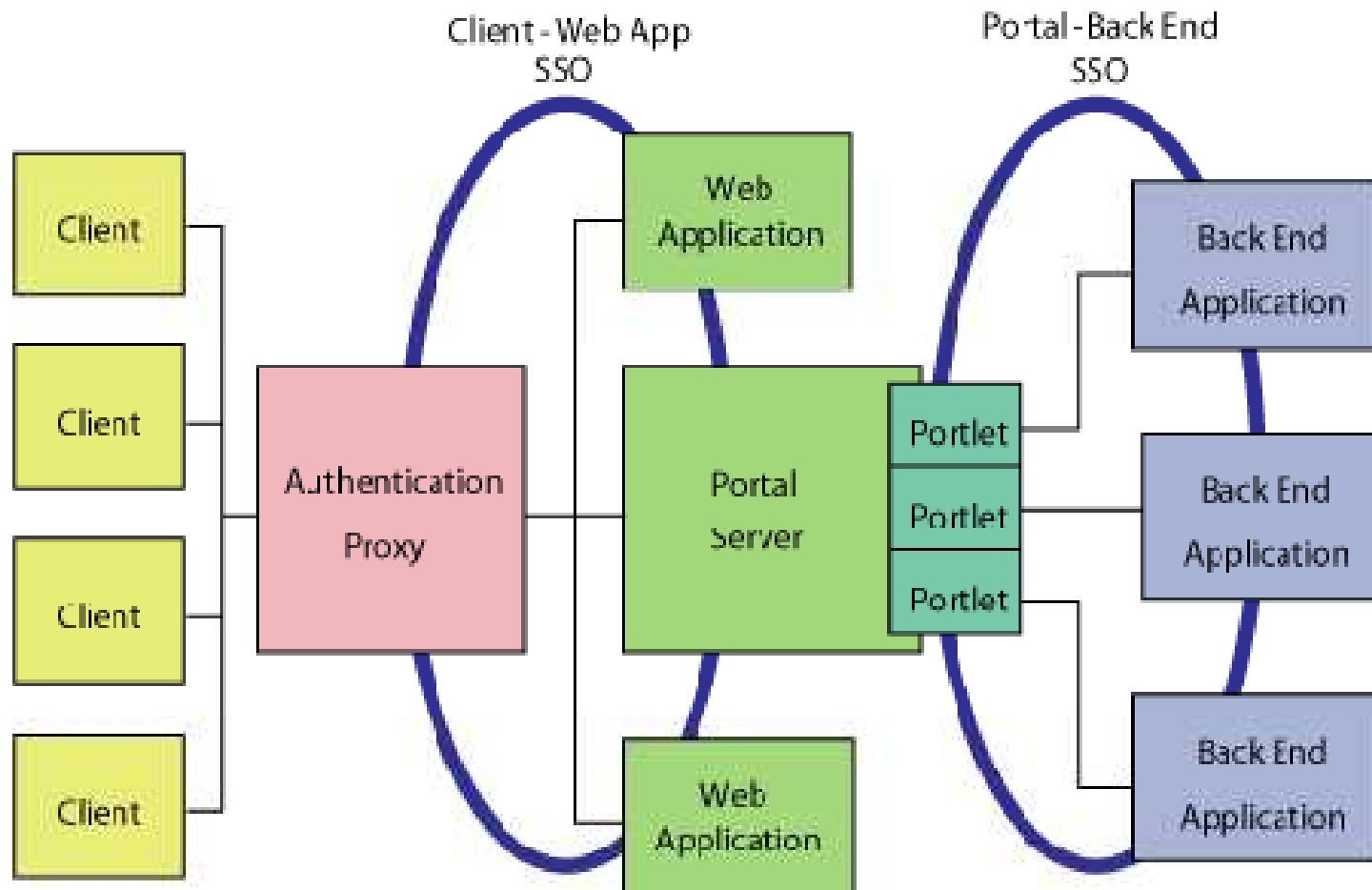
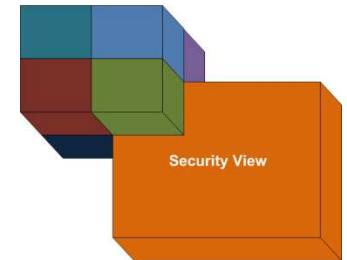
Internet Perimeter Security



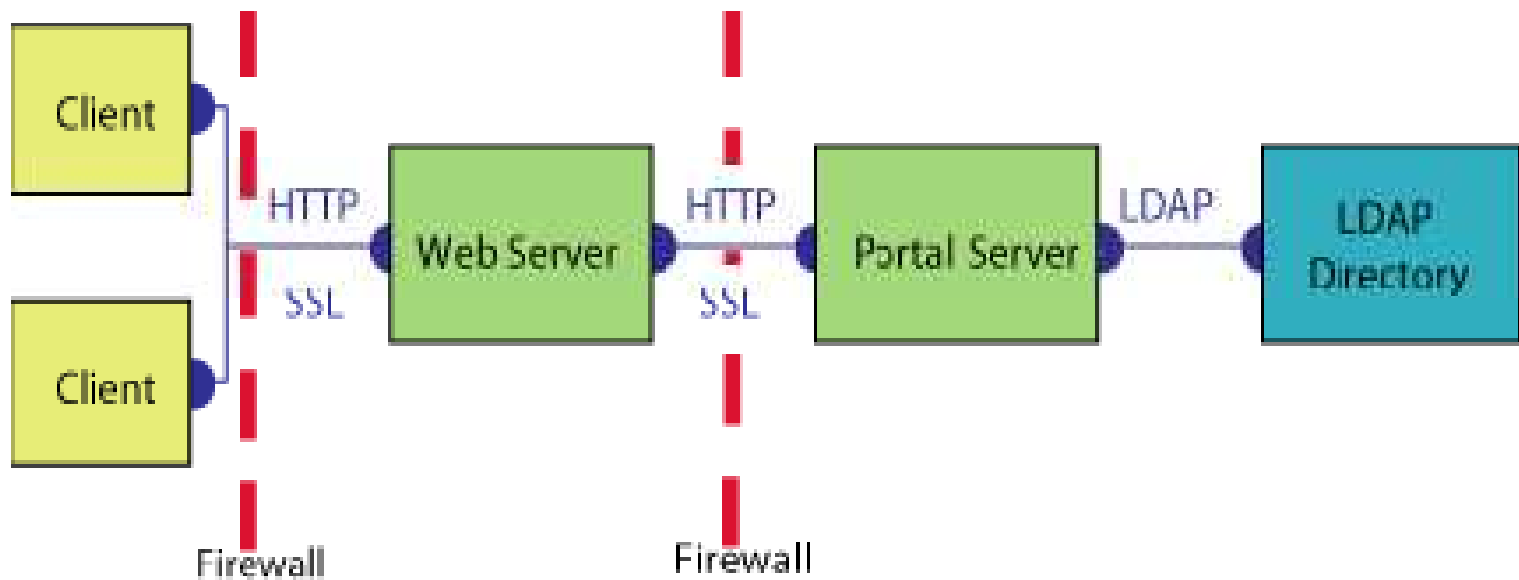
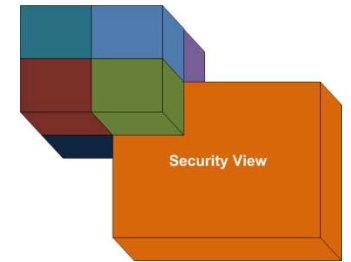
Security Policy View



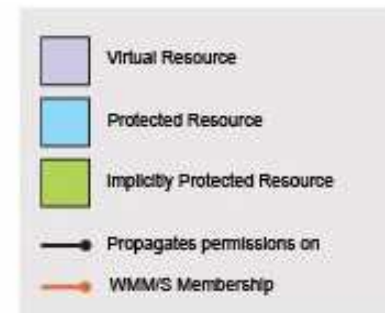
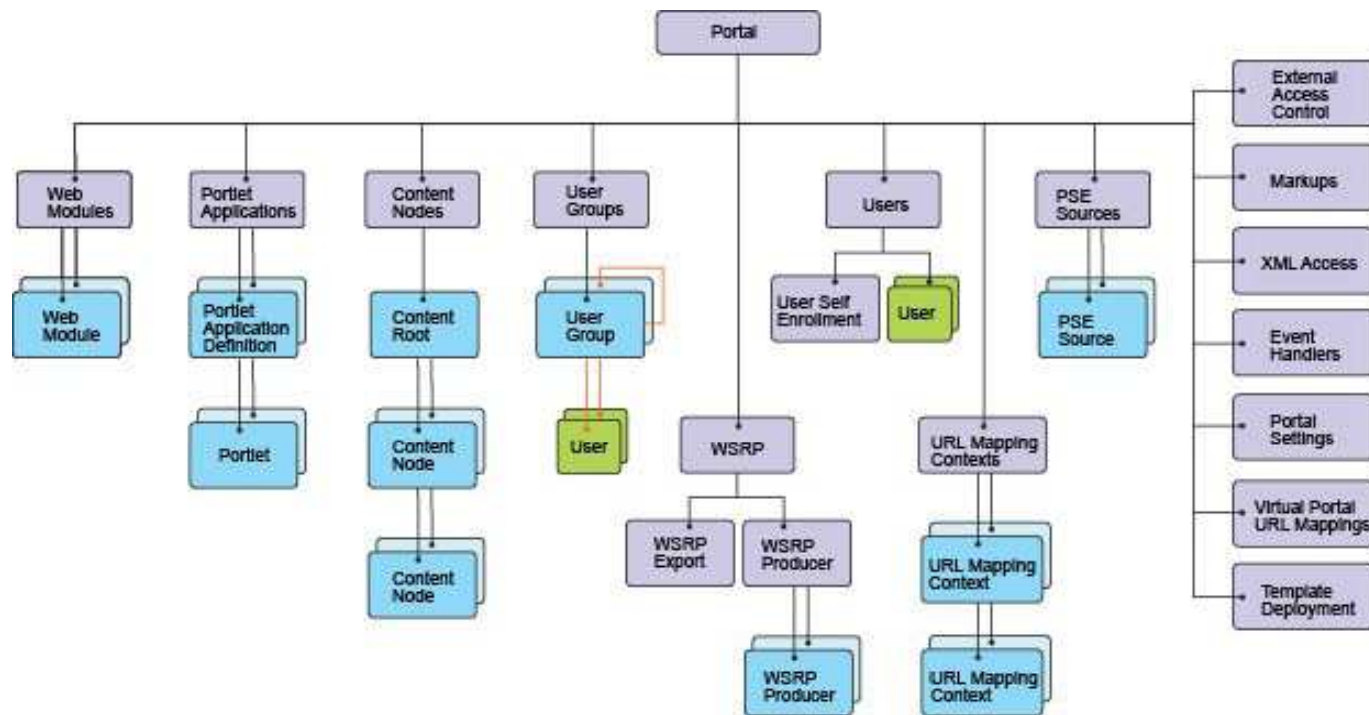
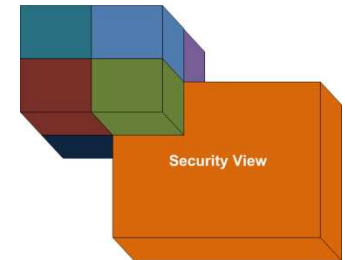
Single Sign-On



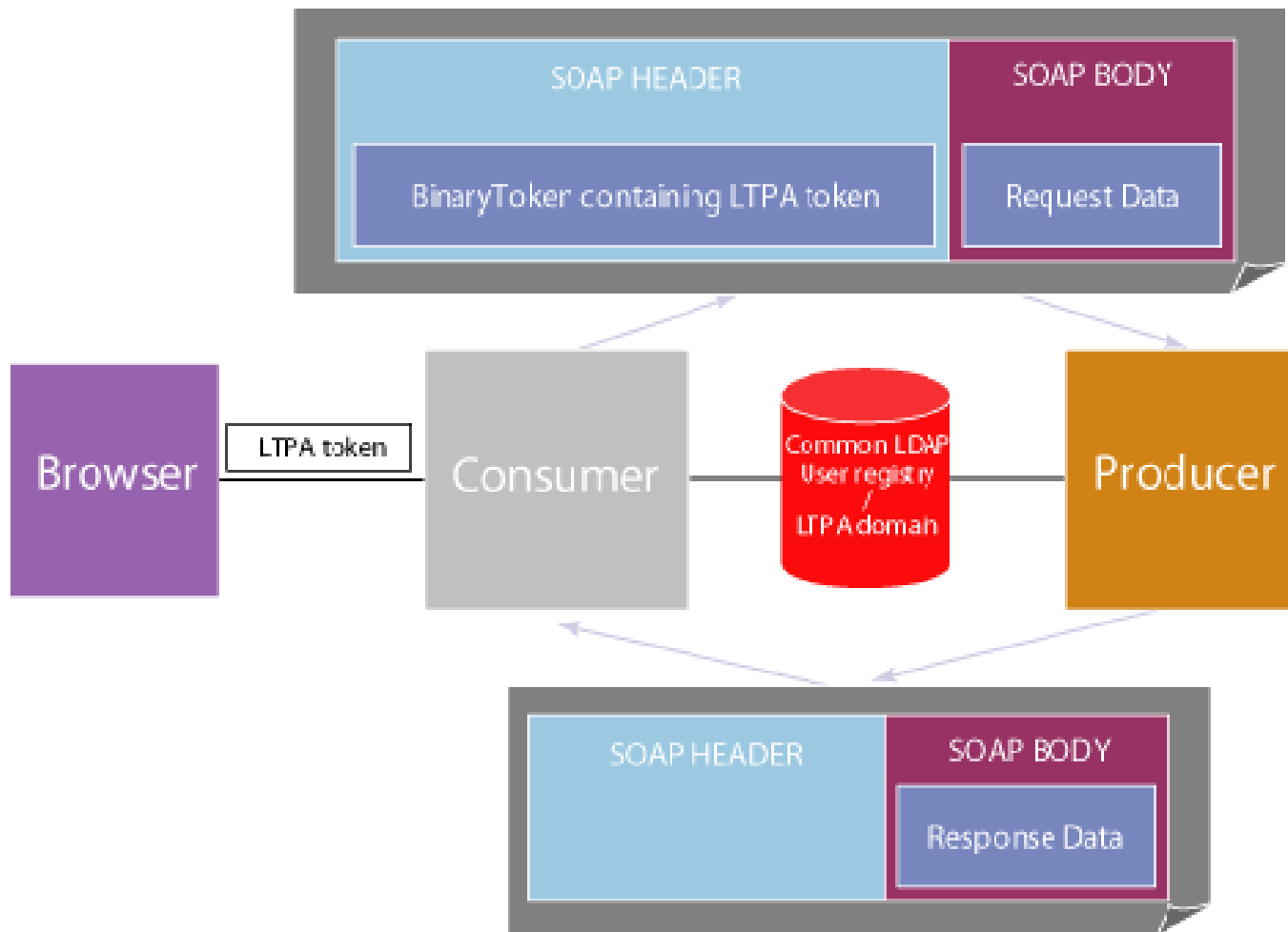
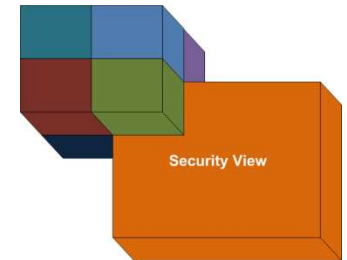
Transport Level Security

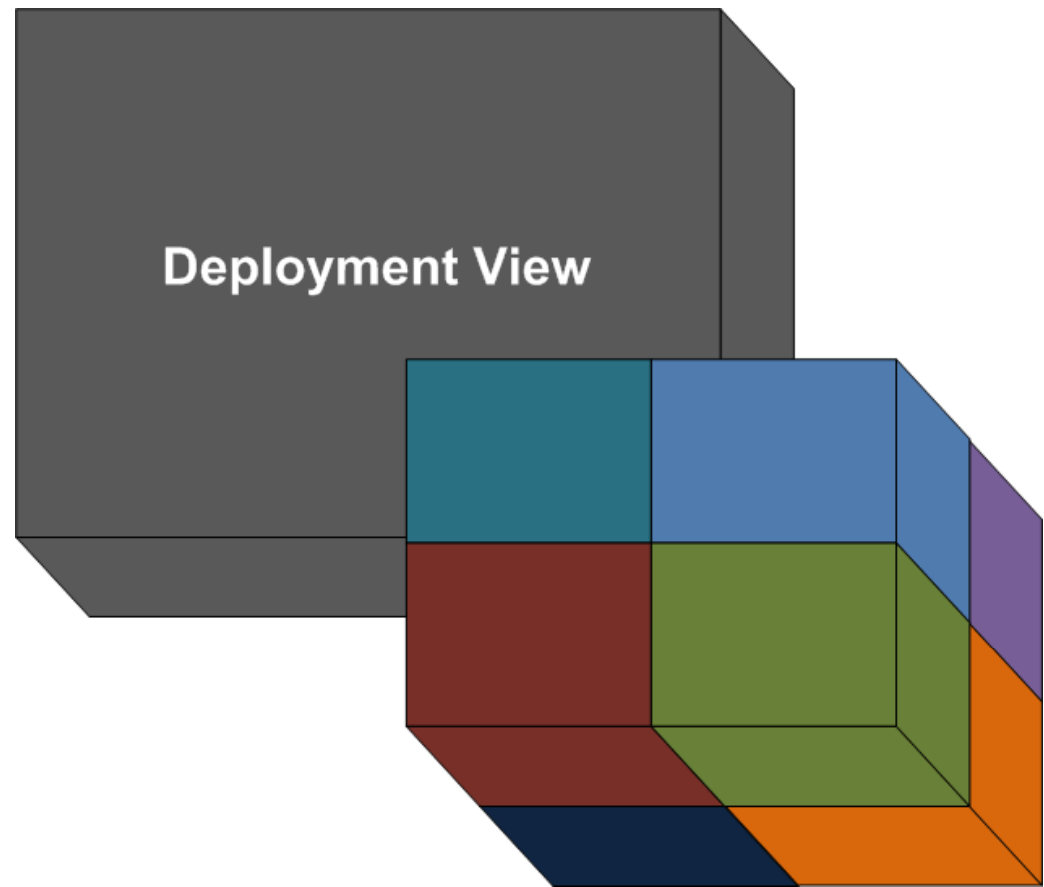


Portal Resource Security



WSRP Security View

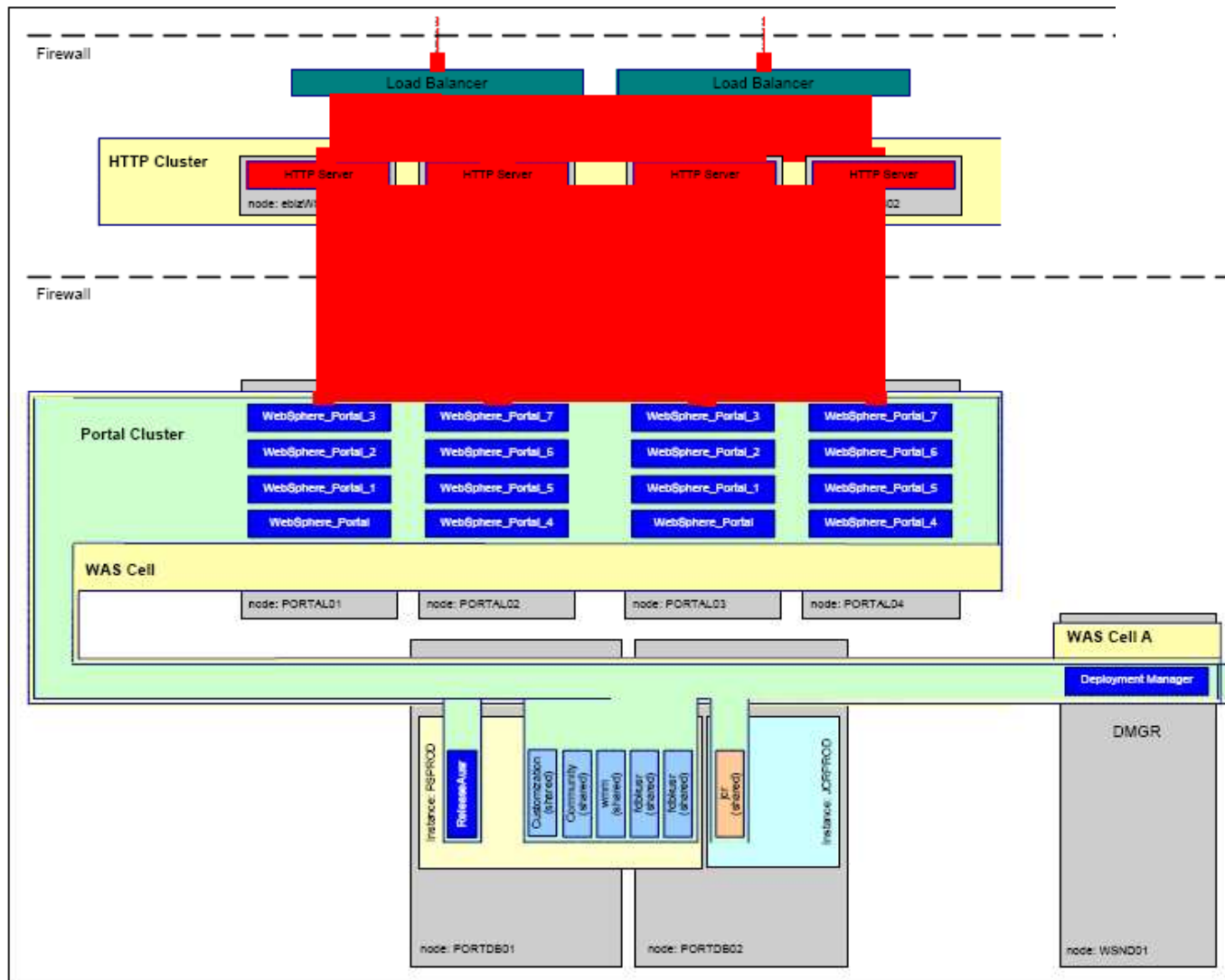
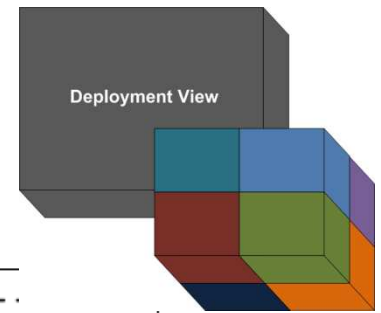




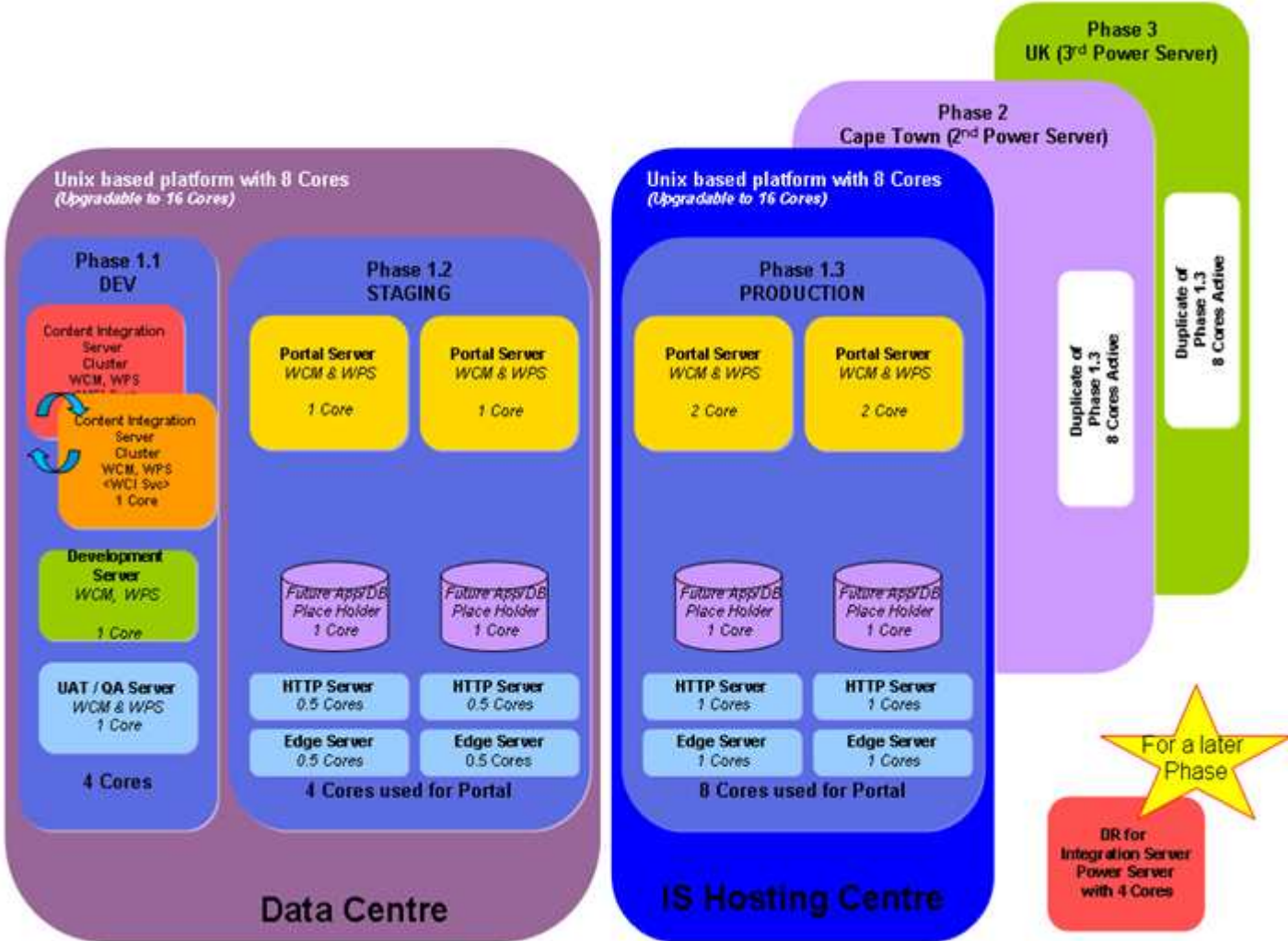
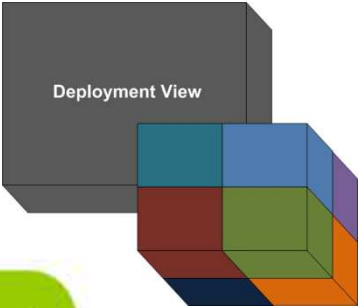
Architectural Views

DEPLOYMENT VIEW

Software Topology



Sizing View



Q & A

Thank You!