



Nuxeo 5 Architecture

The Big Picture

Nuxeo 5 – Initial Scope

- Nuxeo 5 addresses the whole scope of ECM
 - Document Management
 - Collaboration
 - Record Management
 - Business Process Management
 - Retention Management & Archiving
 - Compliance Management
 - Search & Indexing

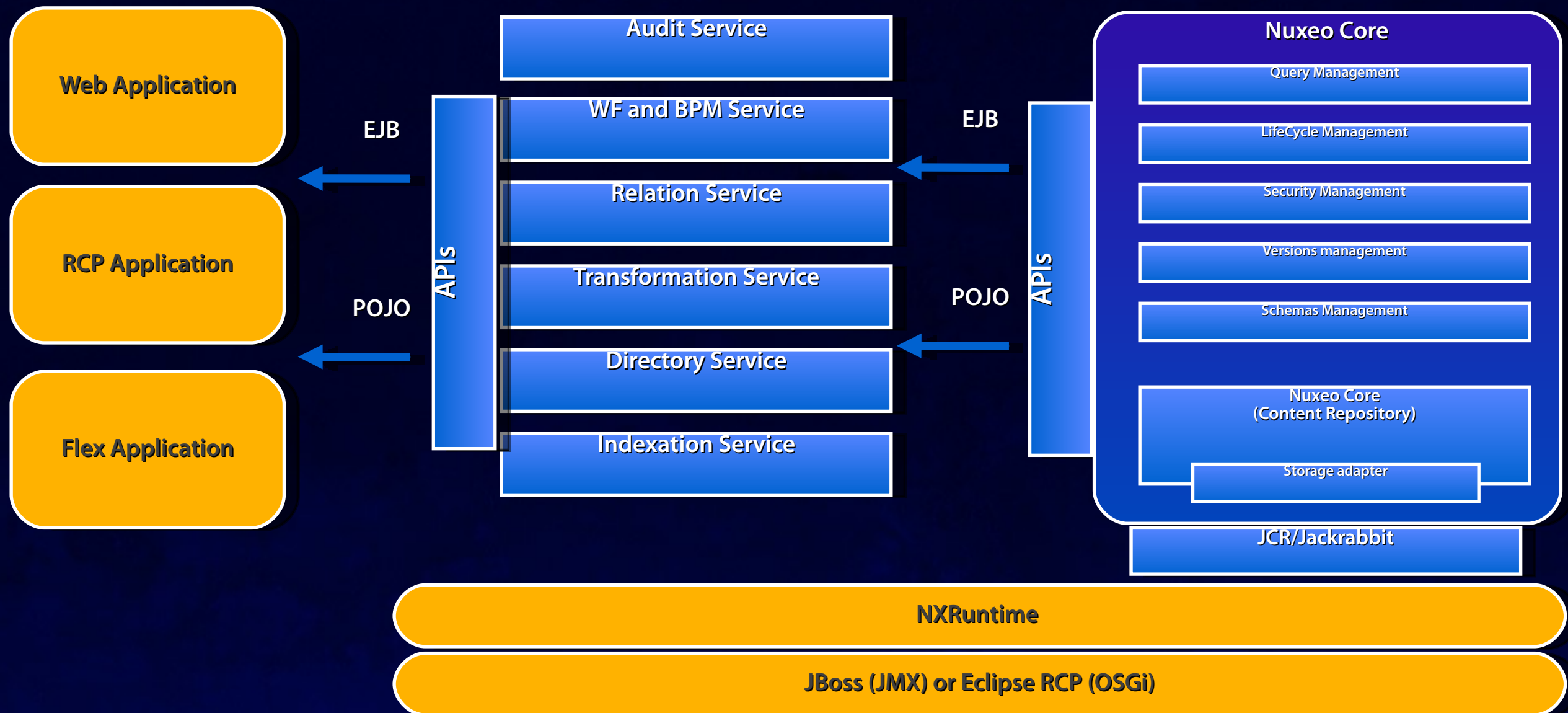
Nuxeo 5 – Overview

- A platform for building custom ECM solution
 - Generic services with an « extension and customization » model
 - A framework for building ECM applications
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- The Java 5 version of CPS 3.4
 - Keep the proven concepts of Zope/CPS (2000 -> 2006)
 - Leverage the Java 5 infrastructure
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- A multi-platform and multi-target ECM solution
 - Thin client: Java EE Web application – Nuxeo 5 EP
 - Rich client: Eclipse RCP application – Nuxeo 5 RCP
 - Client/Server: RCP client with JEE server

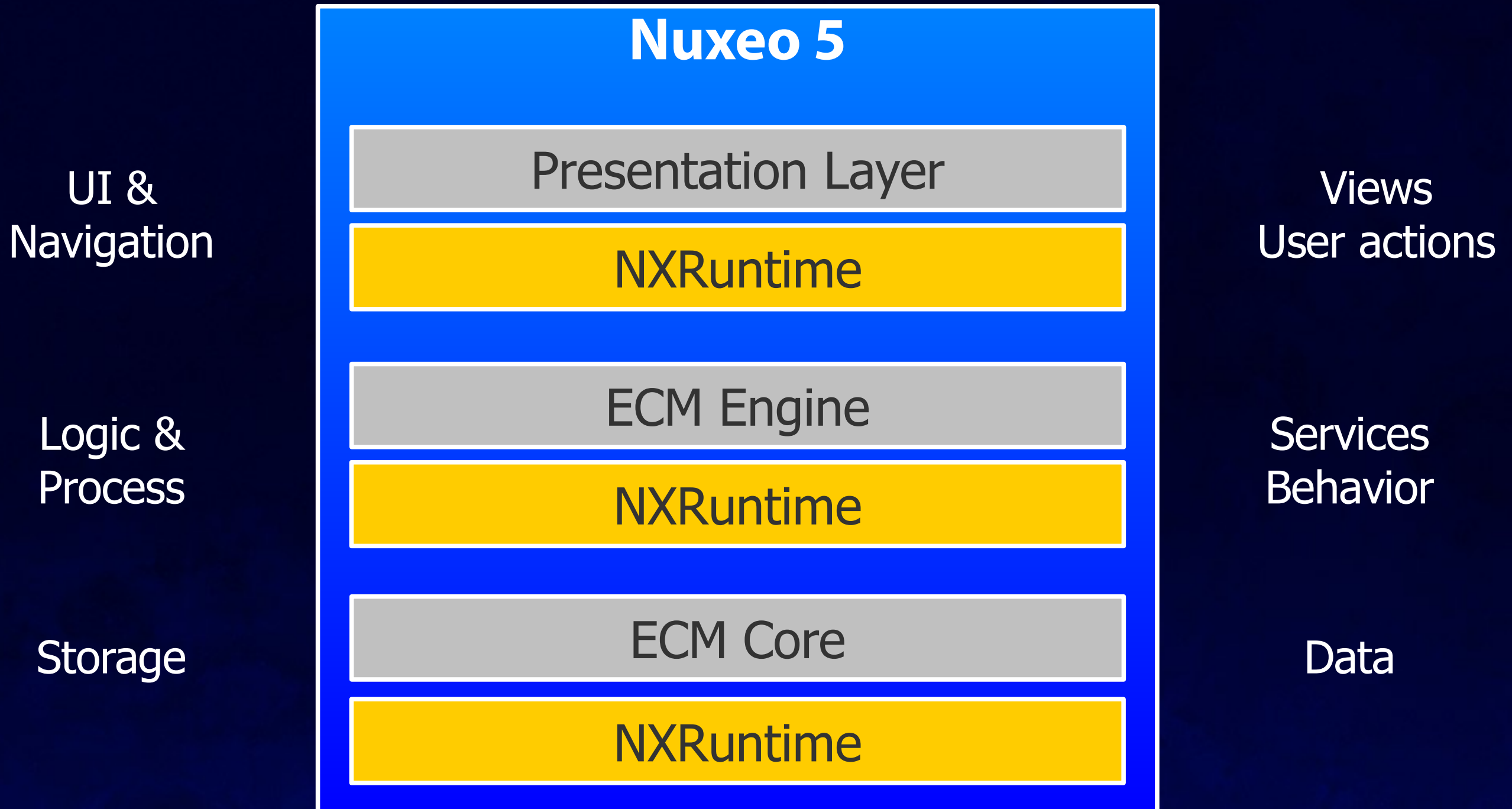
Nuxeo 5 – Layered Architecture

- Core Layer: Embeddable document repository
 - Storage-oriented services + plugin model
 - Repository API: POJO and ejb3
- Service Layer: a extensible set of ECM services
 - Generic and configurable services + extension model
 - Services API: POJO and ejb3
- Client Layer: UI management
 - Links services together to achieve business specific needs
 - Uses Services Layer and Core Layer API
 - Clients can be
 - Web application
 - RCP Application
 - Flex client

Nuxeo 5 Layers



Nuxeo 5 Layers



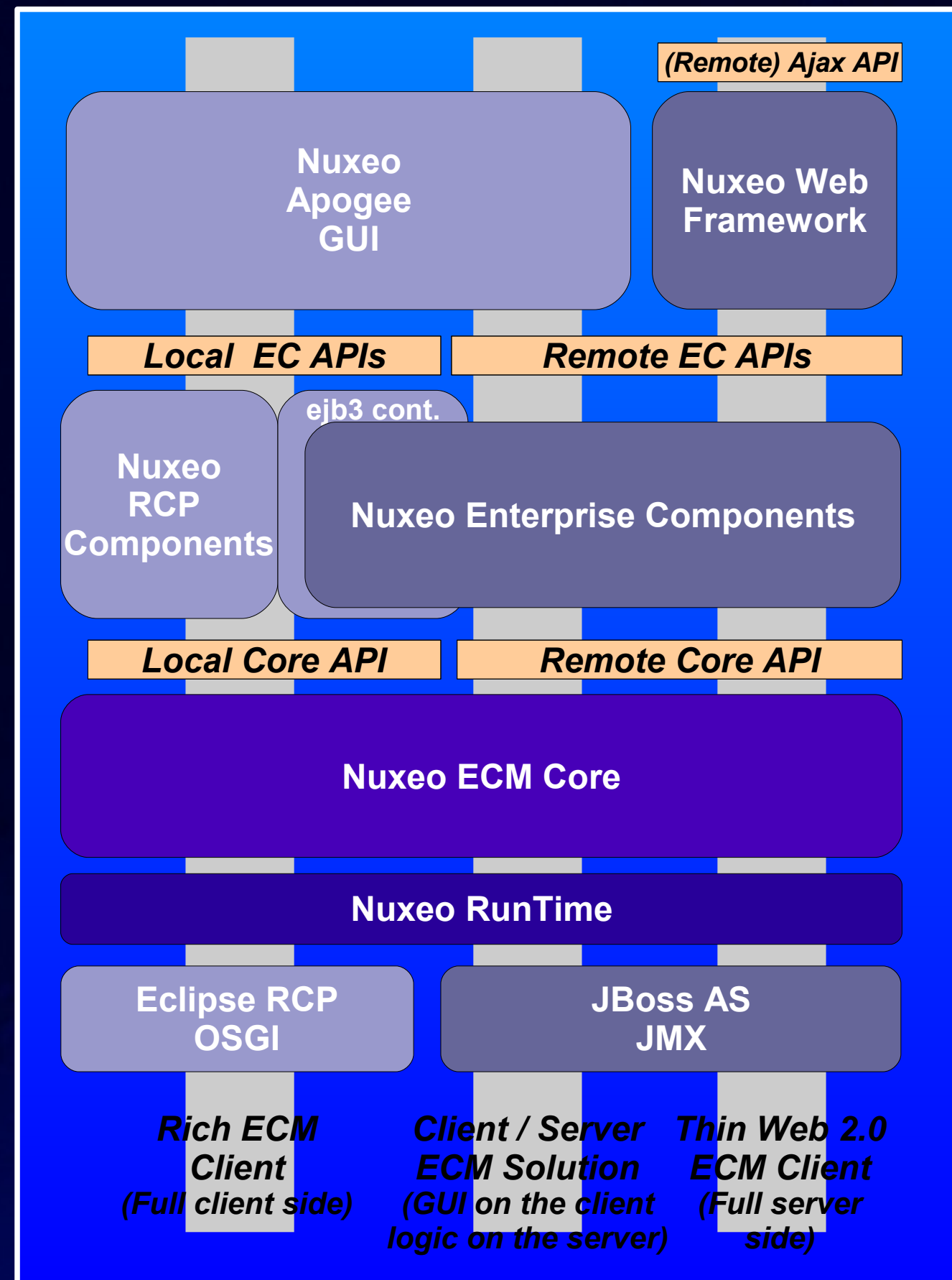
Layers

- Job Separation
 - Document storage handled by the ECM Core
 - ex : eMail document storage
 - All logic handled by the « Logic Layer »
 - ex : Mail extraction, creation, sending ...
 - All presentation handled by the « Presentation Layer »
 - ex : WebMail, Send via mail, Mail display ...

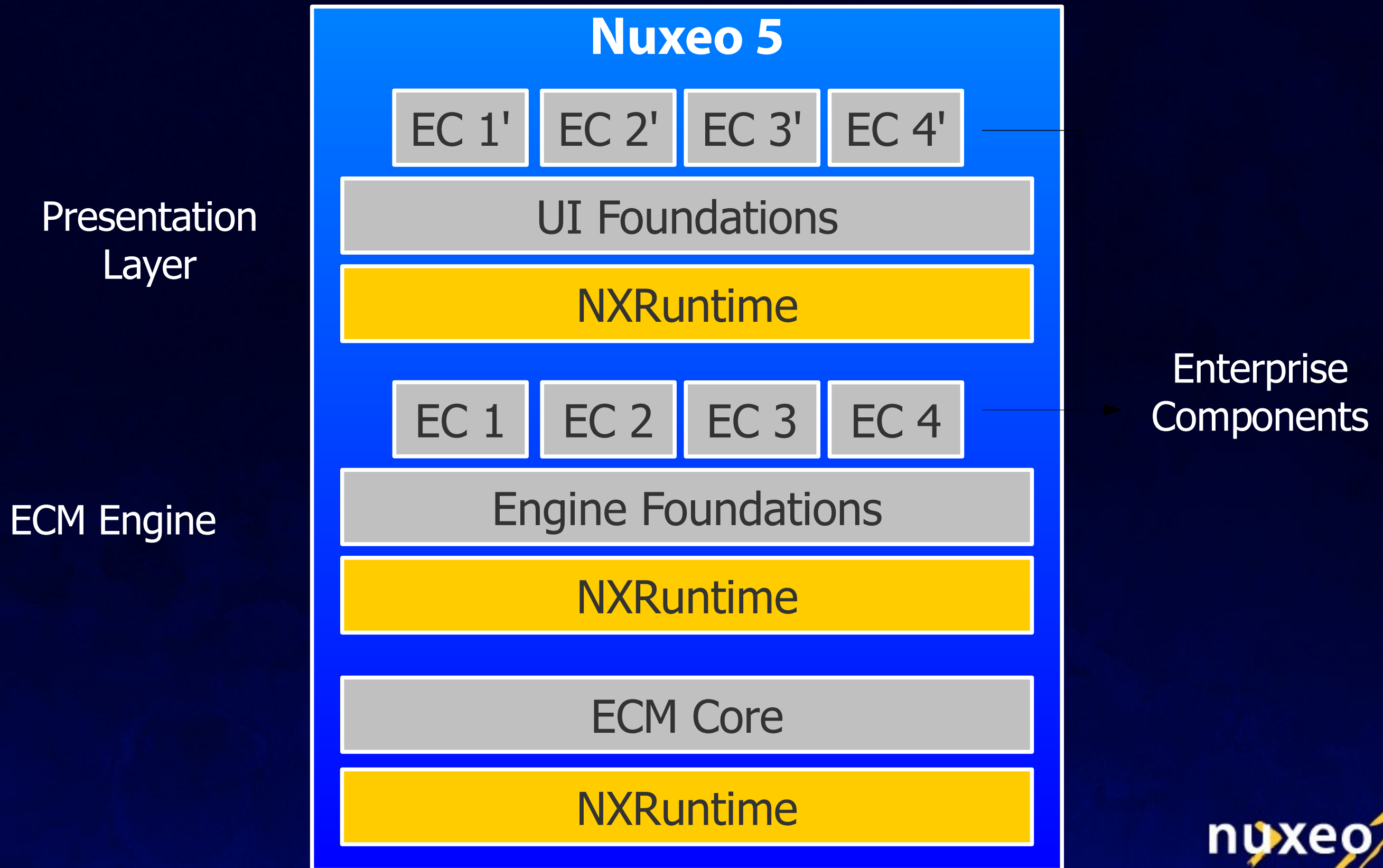
Layers

- Each layer provides its own set of API
 - Core level
 - Monobloc, service-oriented API
 - Logic layer
 - Compound API for the services and content objects deployed
 - UI Layer
 - Compound API on UI controllers (AJAX, EJB3, WS)
- Each layer leverages NXRuntime
 - For extensibility
 - For application composition (component association directives)
 - For deployment abstraction (when needed)

Layers



Enterprise Components and Foundations



EC and Layers : the WF example

- `org.nuxeo.ecm.platform.ec.workflow.web.*`
 - views, controleurs and delegates
 - `org.nuxeo.ecm.platform.ec.workflow.document.*`
 - Workflow -> documents integration services
 - `org.nuxeo.ecm.platform.ec.workflow.api.ejb.*`
 - EJB3 facade on top of API's POJO impl
 - `org.nuxeo.ecm.platform.ec.workflow.api.*`
 - API (interfaces)
 - `org.nuxeo.ecm.platform.ec.workflow.*`
 - API's POJO Implementation + SPI
 - `org.nuxeo.ecm.platform.ec.workflow.jbpm.*`
 - JBPM adapter
 - `org.nuxeo.ecm.core.lifecycle.*`
 - LifeCycle implementation
- Web Layer
EJB3 + Facelets
- Service Layer
EJB3
- Service Layer
POJO / Runtime services
- Core Layer
POJO