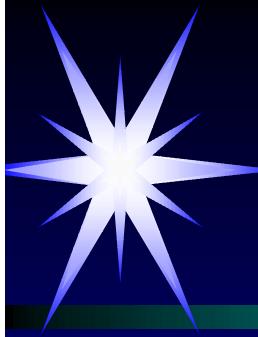




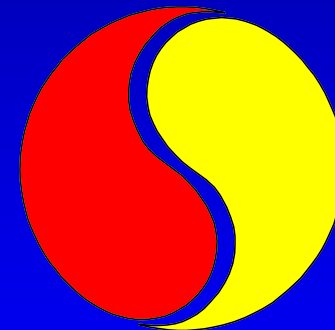
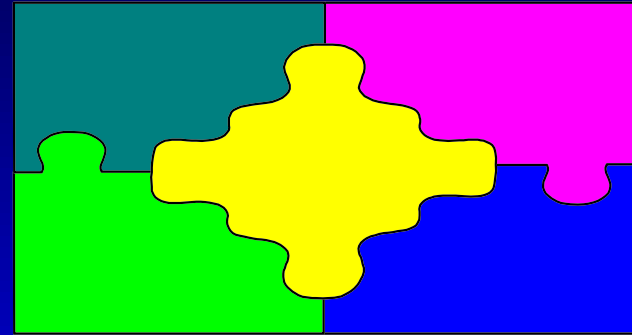
OMG Business Object Component Architecture

BOCA 1.1



Business Component Vision

- Independently developed, easily replaceable business system components.
- A tight coupling between application design and the runtime application.
- Isolation of the application design from runtime technology.



Technology Infrastructure

Component Assembly and Reuse

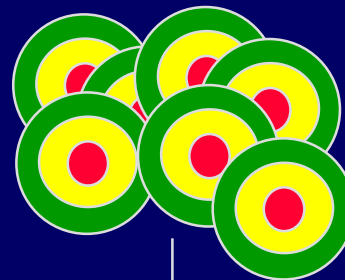


Supplier 1



Different

User Domain
Business System



Custom



Technical Frameworks



Supplier 2



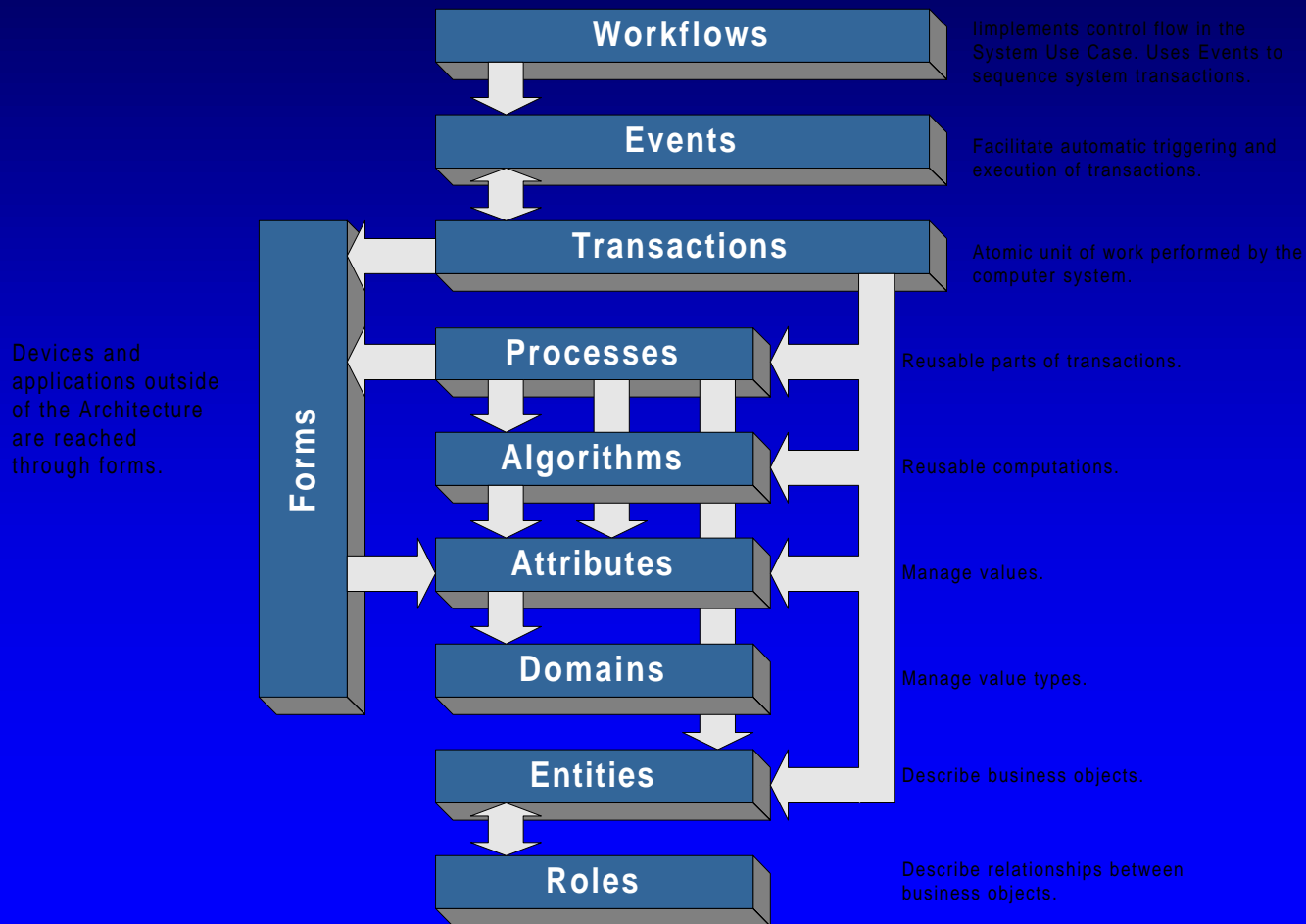
Different

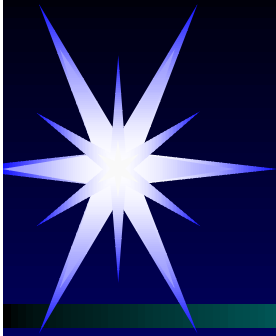


“What you get” with BOCA

- High level specification including...
 - Everything in IDL plus
 - Relationships, Events, States, Rules and Roles
 - Entities, Processes, Business events, Dependents
- Integrated framework providing...
 - Persistent, Concurrent, Transactional, Secure, reflective business objects
 - Referential integrity, Type Managers (With factory), Thin-client support and Query

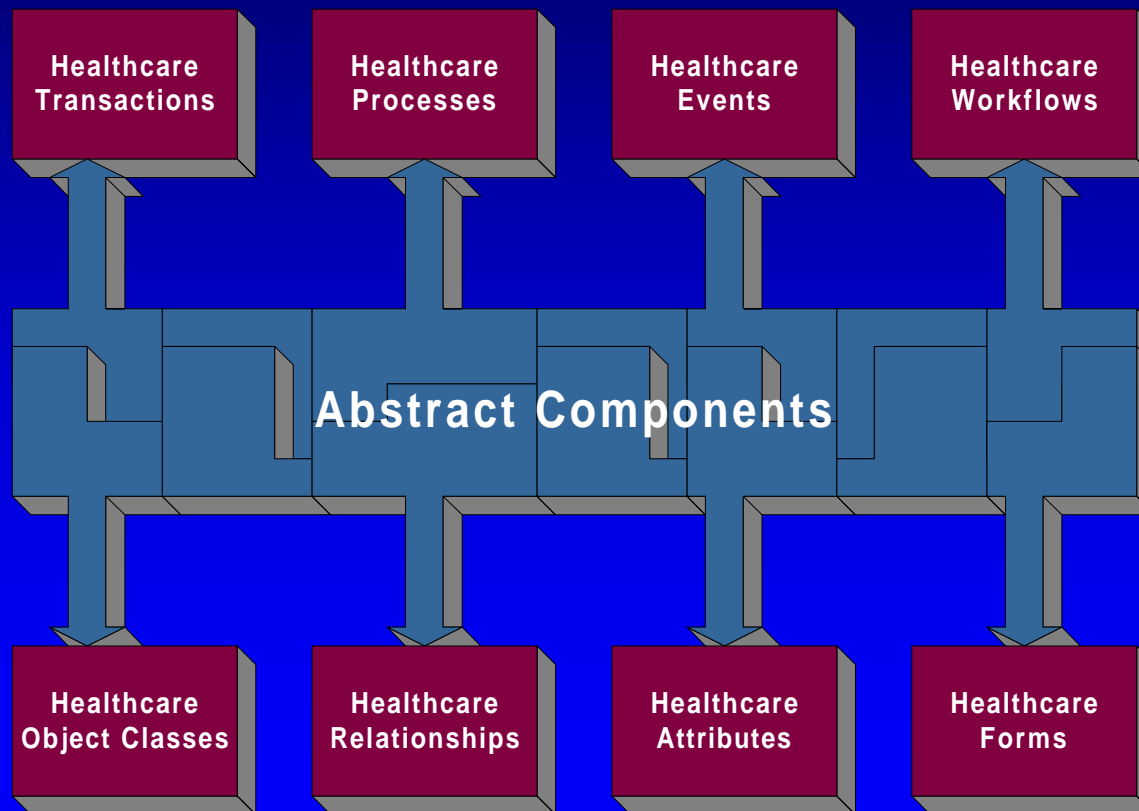
Business System Application Architecture





Business System Application Architecture

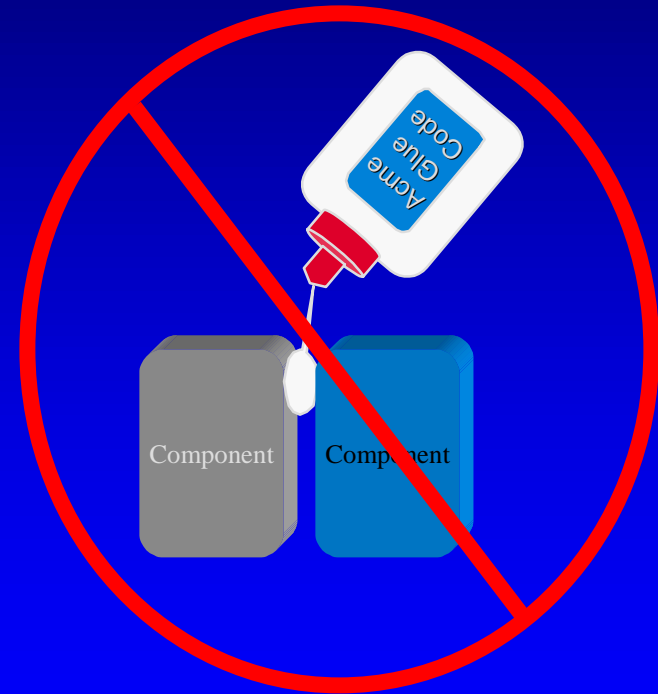
Healthcare Object Classes are Subclasses of the HBOC Application Framework abstract classes.



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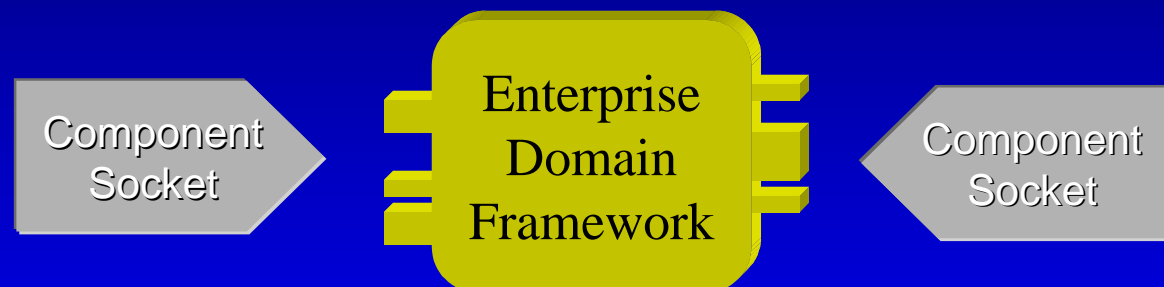
Components without specification?

- ▶ A “programming” model for components
- ▶ Requires expert manual work to use a component
- ▶ Practical for “tightly coupled” components like UI



Specification of component “sockets”

- ▶ Business components are elements of a framework



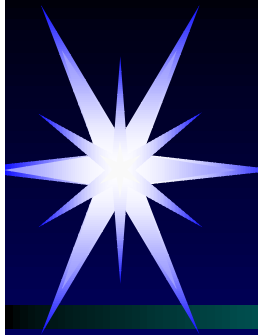
- ▶ The way each business component “fits in” is specified.

“Plugging” Components

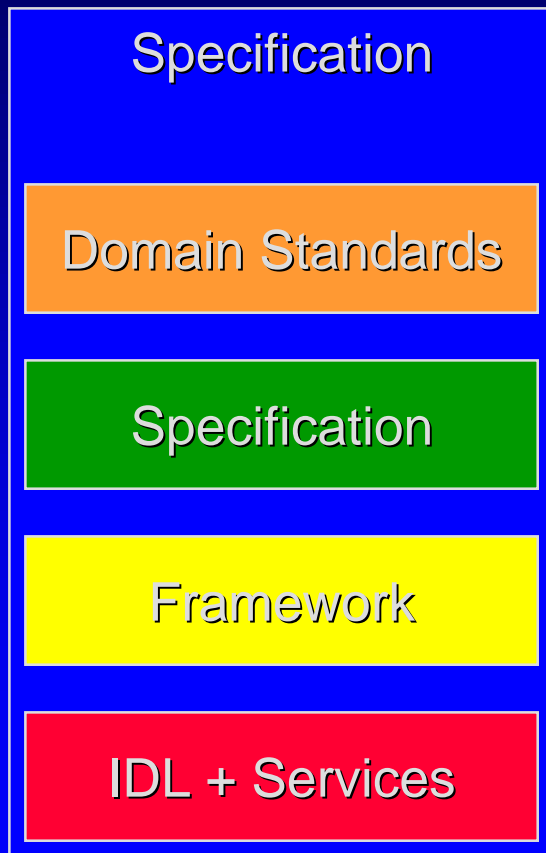
- ▶ A systems integration model for components
- ▶ Specifications for “plugging” components is built-in and automatic
- ▶ Appropriate for application components



Component Implementations “plug in” to the specified framework.



Domain Standards

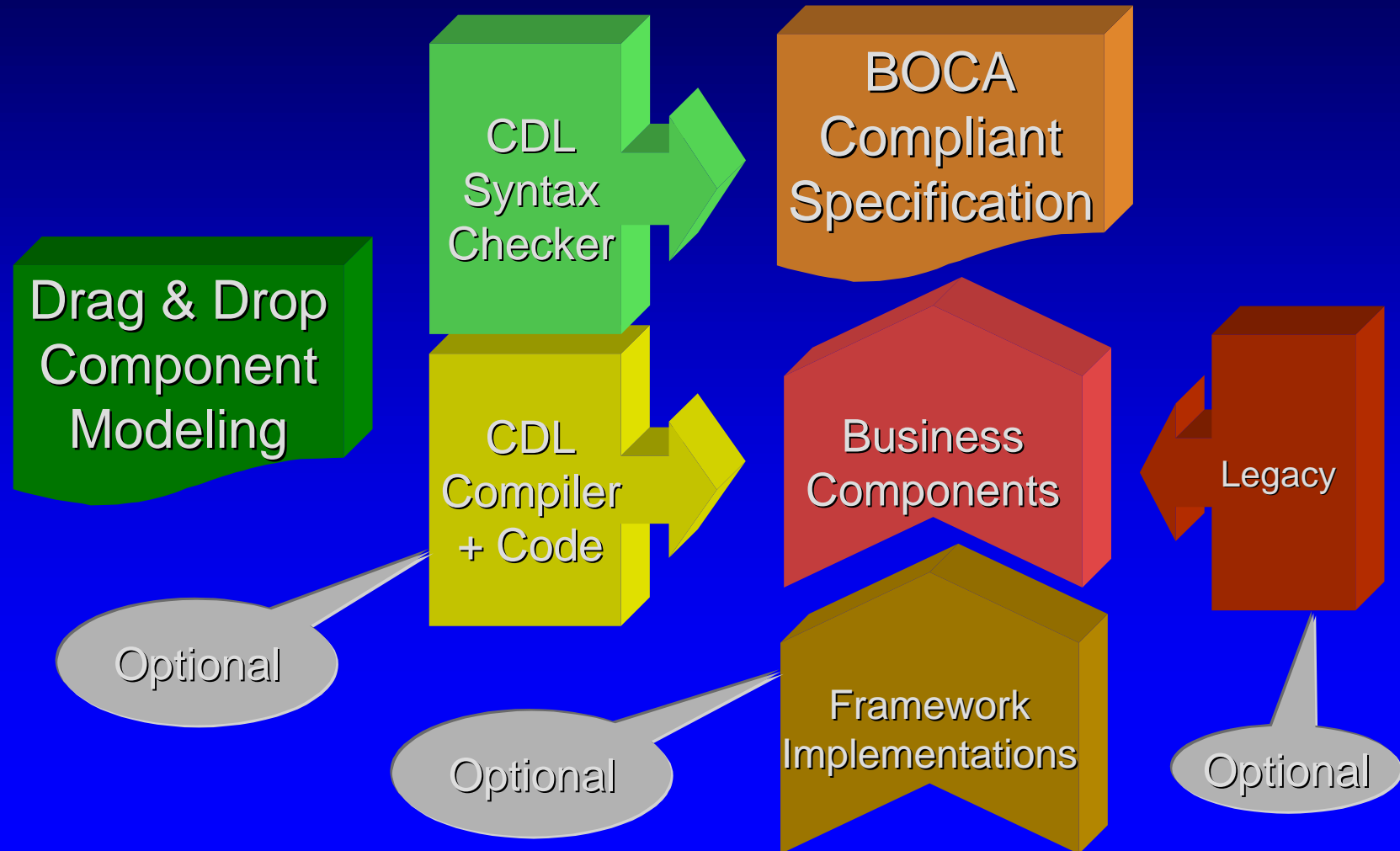


➤ CDL is a direct expression of the BOCA meta-model.

➤ It is a good way to express domain standards.

➤ It will work with any BOCA compliant framework.

Tools and Frameworks





Summary of BOCA benefits for Domain Specifications.

- ▶ Enables a business system component marketplace.
- ▶ Isolates domain specifications from technology details.
- ▶ Simpler to understand, more directly reflects the domain model.
- ▶ May be implemented with legacy applications & component frameworks.
- ▶ Builds on OMG technologies & directions.

