













	1 Cont	oloor m	adal	
		ainer m	odel	
 CORBA 	Usage Mod	el		
the (Obje	CORBA services	action between t s, ie reference pe onversational, du	ersistence and	
51	nent catego			
	5	ernal and externation	al APIs	
usage model	container API	comp.category	object ref	servant/OID
stateless	session	service	transient	1:N
conversational	session	session	transient	1:1
durable	entity	process	persistent	1:1



characteristics	property (service)	
internal interface	session context (basic) or Session2Context (extended)	
callback interface	session component	
usage model	stateless	
extenral API type	keyless	
client design pattern	factory	
servat lifetime mgmt	method (only)	
characteristics	property (entity)	
internal interface	entitycontext(basic) or entity2context(extended)	
callback interface	EntityComponent	
usage model	durable	
extenral API type	keyfull	
client design pattern	factory or finder	
servat lifetime mgmt	any	



















CCM development project stages component implementation declare component's persisent state in PSDL and some behaviour aspects in CIDL compile to get skeletons; fill in with business logic; compile to joint result to get compiled libraries



















Packaging and Deployment of Components Components are packaged into a self-descriptive package Packages can be assembled Assemblies can be deployed

- Helped by XML descriptors
- Packaging and Deployment model Allows interoperability between deployment tools and containers



- It is necessary for an application to
- List component instances
- Define logical location and partitioning
 Specify connections between components
- Specify connections between componer
- It is necessary for a component to
 - Specify its elements
 - interfaces, implementationsDescribe system requirements
 - OS, ORB, JVM, library releases,
 - Specify its initial configuration
- It is necessary for a connection to
 Associate related component ports
- Component Packaging Artifacts
 Software Package Descriptor (.csd)
 Describes contents of a component software package
 Lists one or more implementation(s)
 CORBA Component Descriptor (.ccd)
 Technical information mainly generated from CIDL
 Some container managed policies filled by user
 Component Assembly Descriptor (.cad)
 Describes initial virtual configuration
 nomes, component Instances, and connections
 Component Property File Descriptor (.cpf)
 name/value pairs to configure attributes





Component Assembly Descriptor (.cad)

- References one or more Component Software Descriptors
- Defines home instances and their collocation and cardinality constraints
- Defines components to be instantiated
- Defines that homes, components or ports are to be registered in the ComponentHomeFinder, Naming or Trading Service
- Defines connections to be made between component ports, e.g. receptacles to facets and event sinks to event sources

Software Package Descriptor (.csd)

- Descriptive general elements
 title, description, author, company, webpage, license
- Link to OMG IDL file
- Link to default property file
- Implementation(s)
 - Information about Implementation
 - Operating System, processor, language, compiler, ORB
 - Dependencies on other libraries and deployment requirements
 - Customized property and CORBA component descriptor
 - Link to implementation file
 - Shared library, Java class, executable
 - Entry point







