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 The primary objective of component-based

architecture is to ensure component reusability. A component encapsulates functionality and behaviors of a software element into a reusable and self-deployable binary unit. There are many standard component frameworks such as COM/DCOM, JavaBean, EJB, CORBA, .NET, web services, and grid services.

A service is a component that is deployed independently. For example, a bank might deploy a market data service to cloud infrastructure. This service would provide stock market data to a variety of stock trading systems and applications. Services allow for extremely resilient applications. For example, if an application doesn't get a response from a service, it can try again and be directed to a completely different instance.

Component-based software engineering (CBSE) can be defined as an approach to software development that relies on software reuse. It aims at reducing costs of building software through developing different components and integrating them to a well-defined software architecture.

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These integrated parts are known as components. Component-based development techniques consist of non-conventional development routines, including component evaluation, component retrieval, etc. It is important that the CBD is carried out within a middleware infrastructure that supports the process, for example, Enterprise Java Beans.

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Component-Based Software Engineering (CBSE): Definition ...

An example is electronic engineering, where small electronic components like diodes, resistors and transistors are not designed for a single application but for numerous and different ones. They can be

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Component-based software development approach is based on the idea to develop software systems by selecting appropriate off-the-shelf components and then to assemble them with a well-defined software architecture. Component-based software engineering (CBSE) is a branch of software engineering

component-based software engineering (CBSE) and model-driven development (MDD). CBSE focuses on the construction of systems from existing software modules called components, and makes a clear distinction between developing a component and developing a system.

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