Influence of Security Attributes in Component-Based Software Development

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Abstract : A component is generally defined as a piece of executable software with a published interface. Component-based software engineering (CBSE) has become recognized as a new sub-discipline of software engineering. In the component-based software development, components cannot be completely secure and thus easily become vulnerable. Some researchers have investigated this issue and proposed approaches to detect component intrusions or protect distributed components. Software security also refers to the process of creating software that is considered secure.The terms "dependability", "trustworthiness", and "survivability" are used interchangeably to describe the properties of software security.