

## Enterprise Architect

## Current Release

Version 14.0, Build 1421  
25-May-2018

Enterprise Architect Trial

## Resources

MDG Technologies  
White paper Repository  
Demonstrations  
UML Database modeling  
Mapping Use Cases  
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Extra UML Resources  
Enterprise Architect User Guide

## Webinars

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Model-Driven Use Case Analysis  
Preparing Visual Models  
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Tools for Traceability

## Team Modeling Resources

DBMS Repository Scripts  
Cloud Services  
User Security Key

## Developers

Automation Interface  
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## MDA Style Transforms

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## UML Tutorials

UML Tutorial  
UML Tutorial - Part 2  
UML 2.0 Tutorial  
EA Demonstrations  
UML Models  
Business Process Model  
Custom Model  
Dynamic Model  
Logical Model  
Physical Models  
Use Case Model

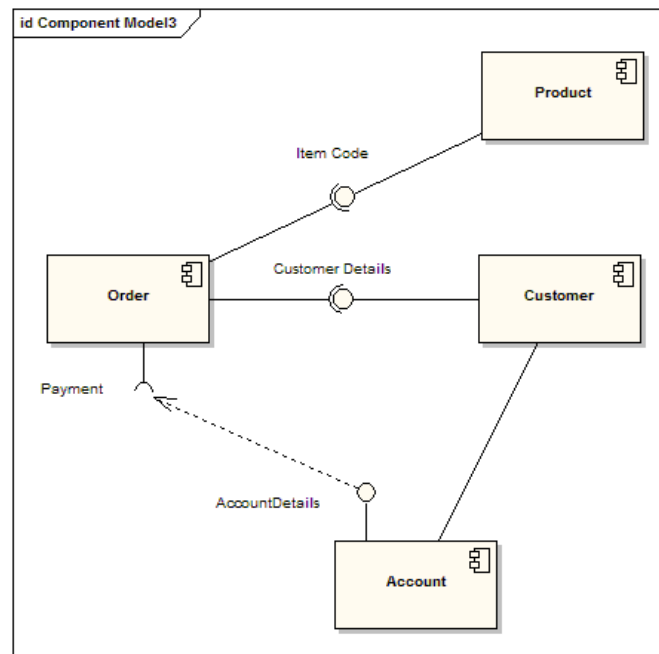
## Enterprise Architect Tutorials

BABOK Guide v3  
NIEM 3 Guide  
Strategic Models  
Diagram Filters  
BPEL Guide  
Resource Management  
Testing Support  
Traceability  
Use Case Metrics

## UML 2 Component Diagram

## Component Diagrams

Component diagrams illustrate the pieces of software, embedded controllers, etc., that will make up a system. A component diagram has a higher level of abstraction than a Class Diagram - usually a component is implemented by one or more classes (or objects) at runtime. They are building blocks so a component can eventually encompass a large portion of a system.

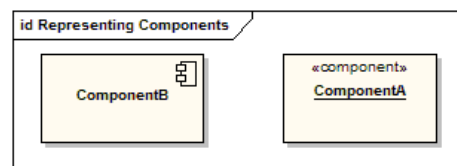


The diagram above demonstrates some components and their inter-relationships. Assembly connectors "link" the provided interfaces supplied by "Product" and "Customer" to the required interfaces specified by "Order". A dependency relationship maps a customer's associated account details to the required interface; "Payment", indicated by "Order".

Components are similar in practice to package diagrams, as they define boundaries and are used to group elements into logical structures. The difference between package diagrams and component diagrams is that Component Diagrams offer a more semantically rich grouping mechanism. With component diagrams all of the model elements are private, whereas package diagrams only display public items.

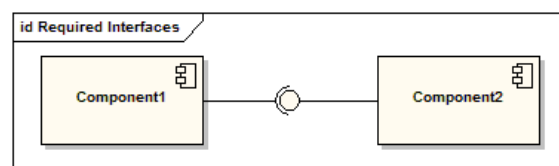
## Representing Components

Components are represented as a rectangular classifier with the keyword «component»; optionally the component may be displayed as a rectangle with a component icon in the right-hand upper corner.



## Assembly Connector

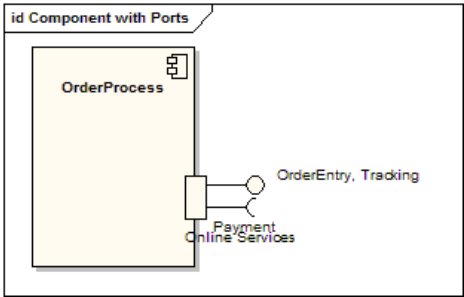
The assembly connector bridges a component's required interface (Component1) with the provided interface of another component (Component2); this allows one component to provide the services that another component requires.



## Components with Ports

Using Ports with component diagrams allows for a service or behavior to be specified to its environment as well as a service or behavior that a component requires. Ports may specify inputs and outputs as they can operate bi-directionally. The following diagram details a

component with a port for online services along with two provided interfaces order entry and tracking as well as a required interface payment.



**Products**

Enterprise Architect  
Eclipse Integration  
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SysML Technology  
DDS Technology  
DOORS Link  
Additional Extensions

**UML at a Glance**

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UML Tools  
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