### Class Diagram

Class diagrams show the system’s entities and their relationships. Use it to explain terms and their relations on high level (glossary, topic map), or to show the structure of data to be processed.

#### Use Case Diagrams

Use Case diagrams allow the specification of a system’s desired functionality on task level. You can show which use cases exist and who participates in them. Describe all use cases in an additional detailed text document.

Relation to other diagram types: Use Component / Block diagrams to show where data is stored or transferred in the system.

### Design level

#### Component / Block Diagram

Additional components and connectors are introduced to describe the static structure of the system on design level.

#### Sequence Diagram

Describe method calls between objects here.

#### Activity Diagram

Provide more detailed information on behavior on method level.

#### Class Diagram

Show classes and interfaces with their methods and attributes and their relations, including inheritance.

#### Package Diagram

Describe dependencies between packages that include classes and interfaces.

### Relation to other diagram types: Use Component / Block diagrams to show which agents will perform which tasks. Use Activity, Sequence or State Machine diagrams to display the behavior described by the tasks.

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What is TAM?

TAM™ stands for Technical Architecture Modeling. TAM defines a common language and a graphical notation for communication on model level at SAP. The main target is to introduce a UML standard-based set of diagram types.

- TAM can be used on conceptual and on design level
- TAM defines a set of seven UML diagram types
- TAM defines the features to be used for each diagram type
- TAM extends the UML 2.0 metamodel to incorporate FMC (www.fmc-modeling.org) block diagrams

Why TAM?

By unifying technical architecture modeling methods, you benefit in many ways:

- TAM improves the quality of architecture models by eliminating the ambiguity introduced by freestyle modeling.
- TAM facilitates knowledge exchange across teams around the world through unified architecture models.
- TAM minimizes the learning effort by reducing the number of diagram types (UML offers 13) and the variety of elements.

Conceptual Level

Component / Block Diagram

The Component / Block diagram is the most important diagram type to describe architecture. Use it to show the static structure of the system, and to provide a big picture view.

Sequence Diagram

Sequence diagrams show how agents interact and communicate. They should be used on instance level, that is they should show one typical sequence.

Agent/s

Object's

Lifeline

Synchronous

Message Exchange

Relation to other diagram types: The connection of the agents via channels is shown in Component / Block diagrams. To show more details of processing, use Activity diagrams.

Activity Diagram

Activity diagrams show the behavior of one or more agents in greater detail. In contrast to the Sequence diagram, you can show loops or concurrency in a more intuitive way. Using swimlanes, you can assign actions to specific agents.