## Internal Block Diagram

### Requirements

- **Requirement X**
  - **Id**: 4711
  - **Text**: The System...
  - **Derives**: Requirement Y
  - **Trace**: Traceability
  - **Satisfies**: Requirement X
  - **Verifies**: Test Case

- **Requirement Y**
  - **Derived From**: Requirement X
  - **Traced From**: Requirement X
  - **Refined By**: Use Case

### Model View

- **View**
  - **Stakeholder**: Who has an interest in the model view?
  - **Concerns**: Which requirements satisfy the model view?
  - **Purposes**: What objectives/purposes fulfill the model view?
  - **Methods**: What methods/processes build the model view?
  - **Languages**: What languages constitute the model view?

### Packages

- **Package**
  - **Subpackage**
    - **Subpackage**
      - **Block**
State Machines

State entry/behavior

Composite State

Exit point

[package] Package

stm StateMachineName

H

[initial state]

State

event[guard]/behavior

Junction

at(time)

after(time)/behavior

Entry point

Composite State

Final state

[x>0] [x<-5] [else]

Send Signal

Receive Signal

stm1:StateMachine

Terminate

Behavior

Orthogonal State

Exclude

State

Allocate

Logical Block

Physical Block 1

allocatedFrom

Action 1

act

Action

allocatedTo

Object

allocatedTo

Action

allocatedTo

Connector

ActivityName

allocatedTo

Element name

Parametric Diagram

par [package] Package

valueA

PartB.valueC

b:ConstraintBlock

Parametric Diagram

<constraint> Constraint block

constraints

\{x > y\}

z1:ConstraintBlock

parameters

x:Real

y:Real

Allocations

<block> Logical Block

allocate

Physical Block 1

allocatedFrom

Action 1

allocatedTo

Object

allocatedTo

Action

allocatedTo

Connector

ActivityName

allocatedTo

Element name

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OMG Systems Modeling Language (OMG SysML™) 1.3 (http://www.omgsysml.org)

incl. SYSMOD (http://www.sysmod.de) and FAS stereotypes (http://www.fas-method.org)