



OMG-OCSMP-MBI300^{Q&As}

OMG-Certified Systems Modeling Professional - Model Builder –
Intermediate





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QUESTION 1

Choose the correct answer

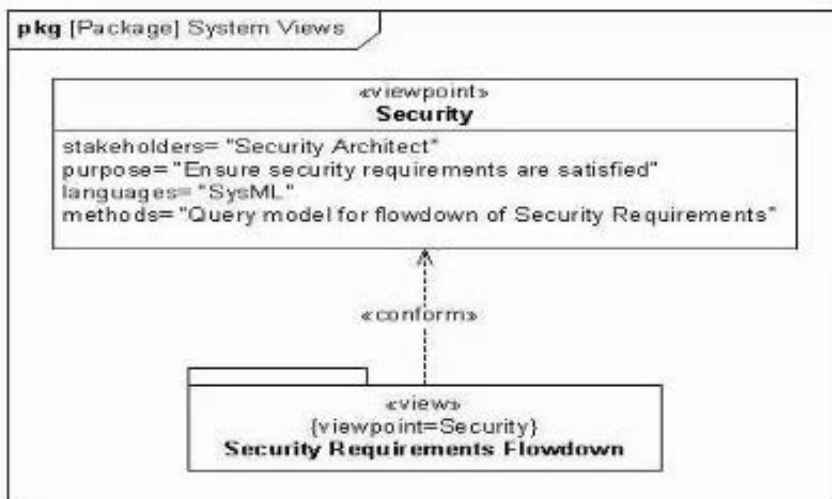
What is an efficient way to represent highly reused patterns of interaction on sequence diagrams?

- A. an Interaction use referencing an interaction defined on a separate sequence diagram
- B. an interaction template construct that is instantiated from the referring sequence diagram
- C. the call interaction operator with an operand referring to the reusable Interaction defined elsewhere
- D. an activation on the referring sequence diagram allocated to another activation on the referenced diagram

Correct Answer: B

QUESTION 2

Choose the correct answer Given the following diagram:



Which statement is true?

- A. The Security viewpoint conforms to the requirements specified by the Security view
- B. The Security view is intended to address the purpose specified by the Security viewpoint
- C. The Security view imports the Security viewpoint to ensure the security requirements are satisfied
- D. The Security viewpoint imports the model elements associated with flowing down the security requirements

Correct Answer: B

QUESTION 3



Choose the correct answer.

What is a property that may be calculated by analysis of the model?

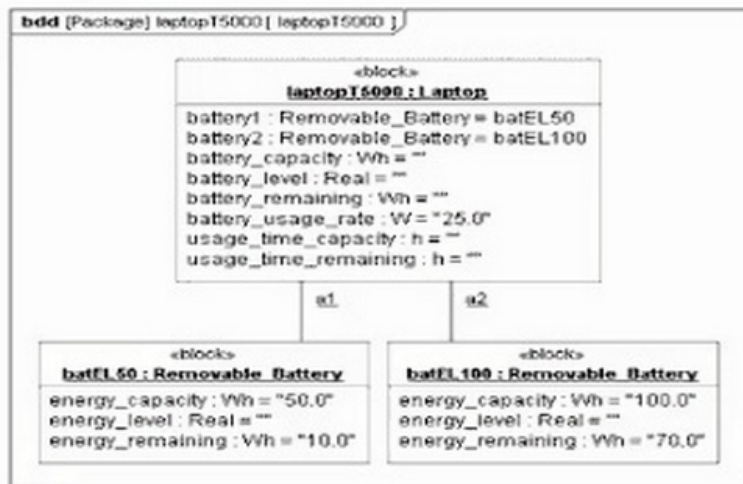
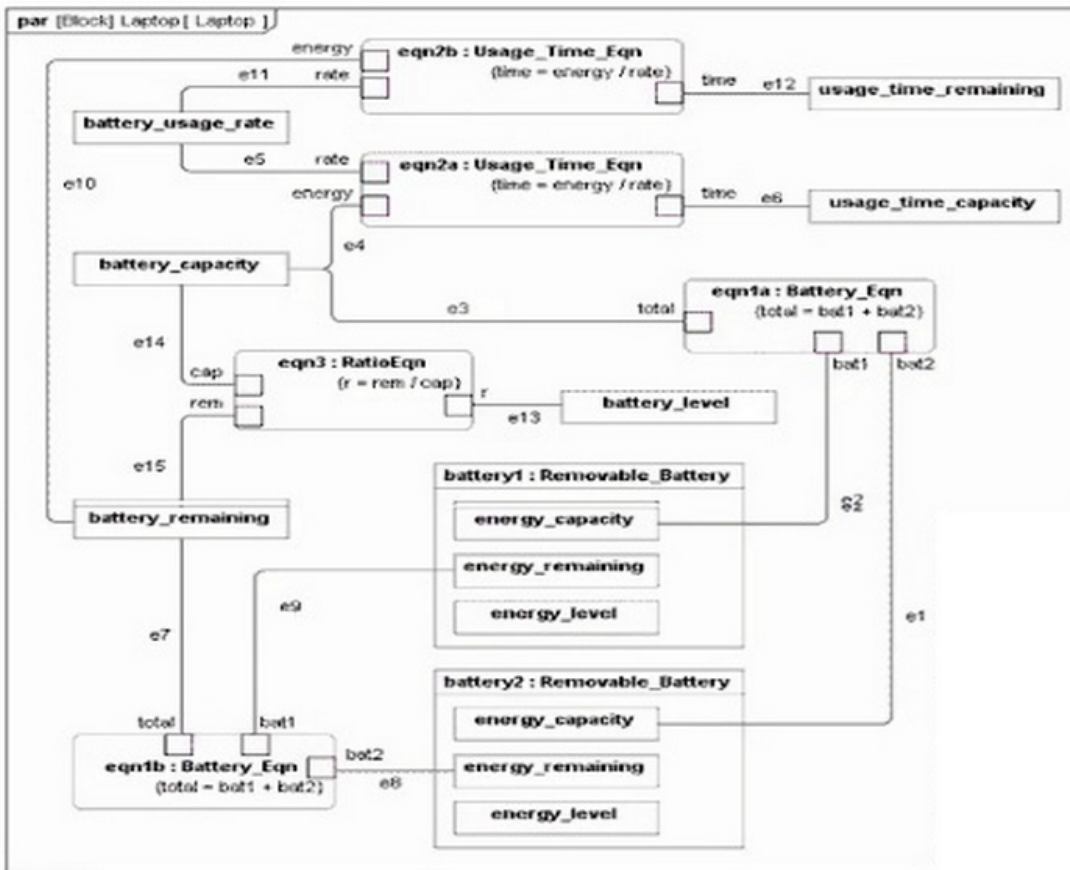
- A. a derived property
- B. an analysis property
- C. a calculated property
- D. an estimation property
- E. a replacement property

Correct Answer: D

QUESTION 4

Choose the correct answer.

The essentials of a laptop battery capacity model are shown in the following diagrams (where the value types W, h and Wh stand for watt, hour, and watt-hour respectively). Assume that the instance values shown are inputs, and that nothing relevant has been omitted.



Here are two model change aspects and associated options the modeler is considering:

Aspect 1 – Changes to model definition.

- O1.1: Use the current model definition as-is.
- O1.2: Change the current model definition to make `battery1.energy_capacity` an output by replacing existing constraint expressions: put `{energy = rate * time}` in `eqn2a` and `{bat1 = total - bat2}` in `eqn1a`.
- O1.3: Create a new model definition (as some consultant has said changing an existing model in this way is not feasible with SysML).

Aspect 2 – Changes to instances.

- O2.1: Use the current instances as-is.
- O2.2: Change the current instances by making `usage_time_capacity = 8 h` as an input value in `laptopT5000`, making `batEL50.energy_capacity` an output (clearing its current value), and then solving the model.
- O2.3: Create new instances with appropriate input values, and then solve the model (as the consultant said reusing existing instances in this way is not feasible with SysML).



The designer needs to determine what the energy_capacity of battery 1 should be to enable a laptop usage_time_capacity time of 8 hours. Which combination of the options listed in the text box in the figure will achieve this Intent with minimal changes (including minimal new aspects)?

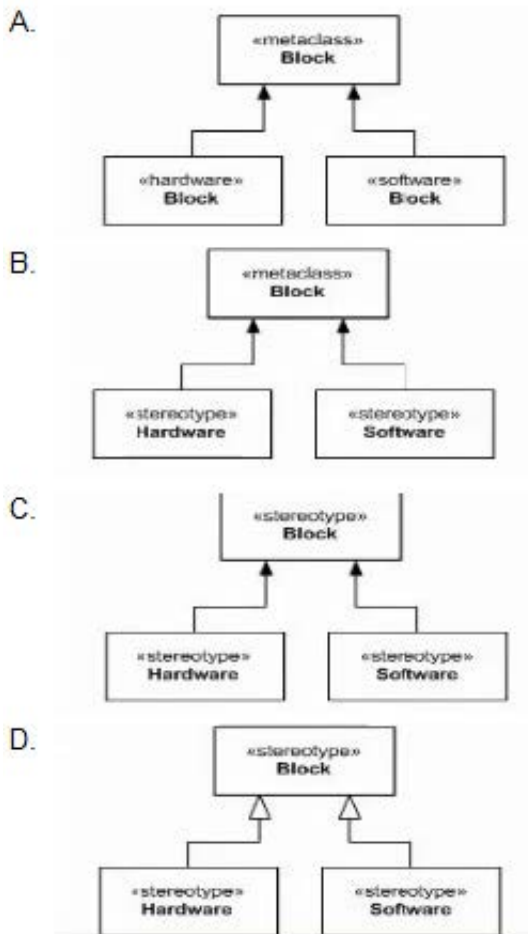
- A. O1.1 and O2.1
- B. O1.1 and O2.2
- C. O1.1 and O2.3
- D. O1.2 and O2.1
- E. O1.7 and O2.2
- F. O1.2 and O2.3
- G. O1.3 and O2.3

Correct Answer: C

QUESTION 5

Choose the correct answer.

Which package diagram fragment depicts the definitions of the stereotypes Hardware and Software?



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

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