



UML Case Study – 3 Collaboration Diagrams

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Objectives

- **To discuss Collaboration Diagrams**
 - Example interaction between dispatcher and flight planner
- **To attempt some object modelling**
 - Aircraft navigation data example

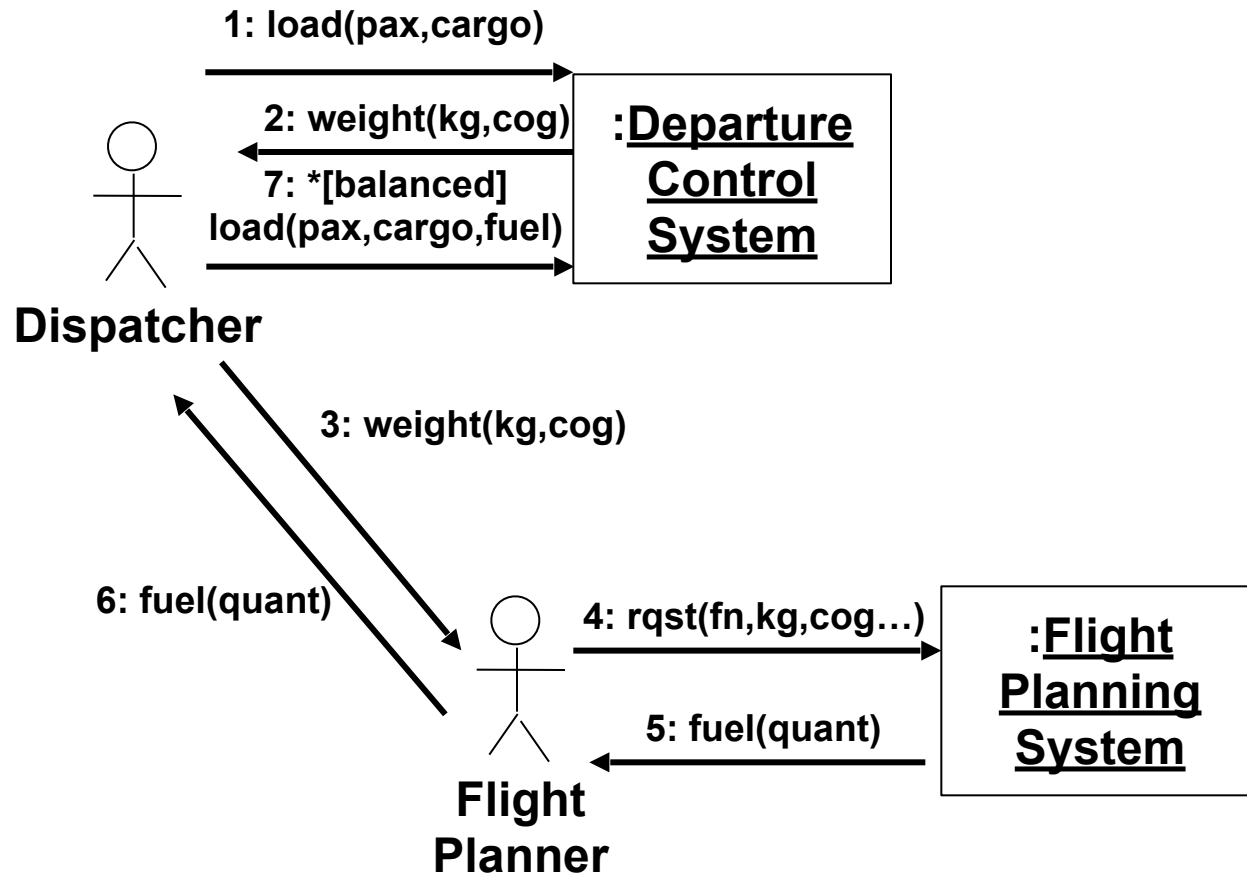


Collaboration Diagrams

- **Aim is to show interaction between objects**
 - Interaction by “messages”
- **Equivalent to Sequence Diagrams**
 - Sequence diagrams emphasise time
 - Collaboration diagrams emphasise object organisation
 - But can also show time



Example Collaboration





Collaboration Pros & Cons

- Good things
 - Can show both object relationships and time
 - Can have multiple receivers, synchronisation, active objects etc.
- Not so good things
 - Can quickly get very complicated
 - There may be better ways
 - Flowchart
 - Structured narrative

Your correspondent is not convinced about the utility of collaboration diagrams....



Object Modelling Exercises

- You will need to take some notes
 - Try to identify the main objects, any properties and methods
 - Provide in a list or a class diagram
 - Concentrate on the Navigation Data
 - There is no “right” or “wrong” answer!
 - This is an exercise in modelling
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- Following diagrams deliberately not UML



Calculating a Fuel Load

