

Organisation Dynamics
Written Exam
29 January 2004



This written exam is open book, thus you are allowed to use the course materials (reader, assignments, lecture slides) during the exam.

Make your best effort to finish the assignment within the available time. We are aware that you cannot finish the complete model within the available time. To pass you have to provide enough of the organisation model, which is the true determinant of whether or not you obtained the necessary expertise in organisation modelling.

Think of an harbour where ships go to unload goods. The harbour has three terminals where the ships can stop. No two ships can stop at the same terminal at the same time. For this reason, each terminal has a terminal operator that keeps track of the terminal schedule. However, the terminals are operated by different companies and hence do not share information among them. The harbour has one harbour operator who can query each terminal to find out their schedule. When a ship enters the harbour, it contacts the harbour operator to declare its position and the amount of time it needs to spend on each terminal. The harbour operator is responsible for putting together a rotation plan for the ship. In order to do that, the harbour operator contacts each terminal to find an appropriate slot for the ship to unload. When the harbour operator generates the plan, she communicates the rotation plan to the ship.

The organisational property of interest here is the following.

OP(harbour) *Ships find out where to go*

If a ship enters the harbor,

Then it will receive a rotation plan.

Assignment

Design an organisation and identify the dynamic properties (i.e., GP, GI, RI, TP, RP) that enable the analysis of your organisation. You do not have to identify any other OPs than the one given (OP(harbour)).

Your solution must at least include some elements of the following:

- a) the organisation structure, both in diagram and in table format
- b) the behaviour of the organisation, in terms of its dynamic properties
- c) a proof tree for OP(harbour)