

Material for Bucharest DEPLOY 2-day course (July 14th – July 16th, 2010)

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This document should be forwarded to all potential attendees of the Bucharest DEPLOY 2-day course from July 14th to July 16th.

1 Topics

Below are the list of topics that we hope to cover during the training:

- Presentation: Controlling cars on a bridge
- Presentation: Bounded retransmission protocol
- Review: Event-B mathematical notation
- Exercise: Set theoretical exercise
- Review: Event-B notation and proof obligations
- Exercise: Modelling and proving with the RODIN Platform.
- Project: Modelling an access control system
- Presentation: Leader election on a ring-shaped network.

2 Course Material

The following documents are available from the DEPLOY repository at the following address <http://deploy-eprints.ecs.soton.ac.uk/238/>.

- *Controlling cars on a bridge* (slides, 4-up handout, RODIN Platform archive).
- *Bounded retransmission protocol* (slides, 4-up handout, RODIN Platform archive).
- *society.zip* (RODIN Platform archive).
- Reference card (by Ken Robinson).

3 Preparation

You do not require to read the material in advance or prepare specifically for the lectures. However, please make sure to read through the list of materials.

Moreover, it is very important that you come to the course with a copy of the RODIN Platform (with Aterlier B prover installed). You are also encouraged to install the *ProB* plug-in which could be used for animating Event-B models.

To save more time during training, you can prepare your RODIN Platform workspace by *importing* the following two models *search.zip* (as given with the pre-reading material) and *society.zip*, which will be used during our exercise sessions.