

# Testing Techniques

## Assignment 3

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## 1 Model-Based Testing

### 1.1 MBT Tool Selection

For our tool we have chosen OSMO MBT TOOL<sup>1</sup>. This tool seemed to be the most appropriate from the list of tools given in the assignment description. Firstly the tool is free software under the LGPL License. This allows us to freely use this model. Many existing tools are proprietary, requiring us to buy a license for continued use. Secondly the chosen tool, and its tests are written in Java. Our SUT is also written in Java so integration is easier than it would have been if our SUT and Testing Tool were written in different languages.

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<sup>1</sup><https://github.com/mukatee/osmo>

1.2 MBT Modeling

1.3 MBT Test Environment

1.4 MBT Testing

1.5 Deliverable

## 2 Comparison

2.1 implementation relation;

2.2 support for test input generation as well as output checking;

2.3 support for non-determinism;

2.4 method of test selection;

2.5 modeling notation: its expressiveness and ease of use;

2.6 on-line vs. off-line testing, i.e., on-the-fly vs. batch.