

## Chapter 1

## Secure State Machine Model

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- 1.1.1 Next-state Function
- 1.1.2 Next-output Function
- 1.1.3 Transition Commands

## 1.2 Secure State Machines

- 1.2.1 State Machine Versus Secure State Machine
- 1.2.2 Transition Types
- 1.2.3 Authentication
- 1.2.4 Authorization

## 1.3 Secure State Machines in HOL

- 1.3.1 Parameterizable Secure State Machine
- 1.3.2 Parameterization
- 1.3.3 Configurations: five parts
- 1.3.3.1 State Interpretation
- **1.3.3.2** Security context 2
- 1.3.3.3 Input stream
- 1.3.3.4 State
- 1.3.3.5 Output stream
- 1.3.4 Authentication