

Blockchain and eBusiness

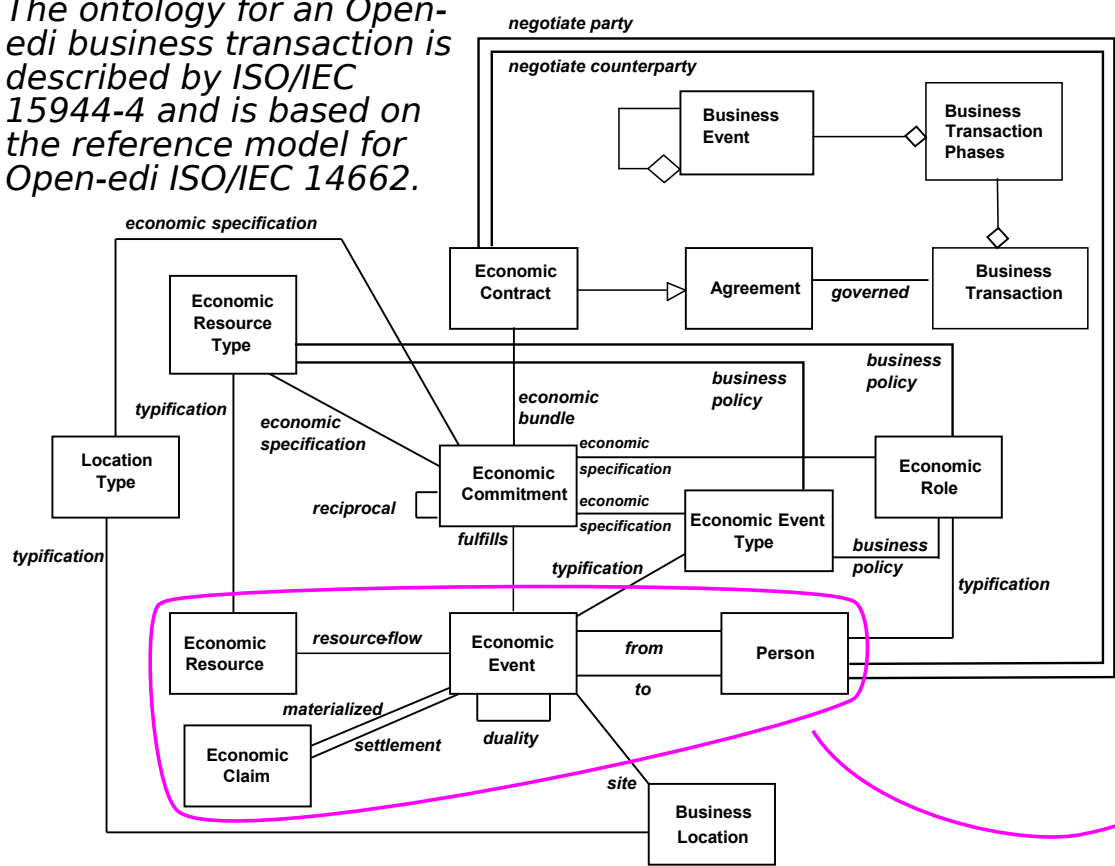
The Open-edition

Distributed Business Transaction Repository

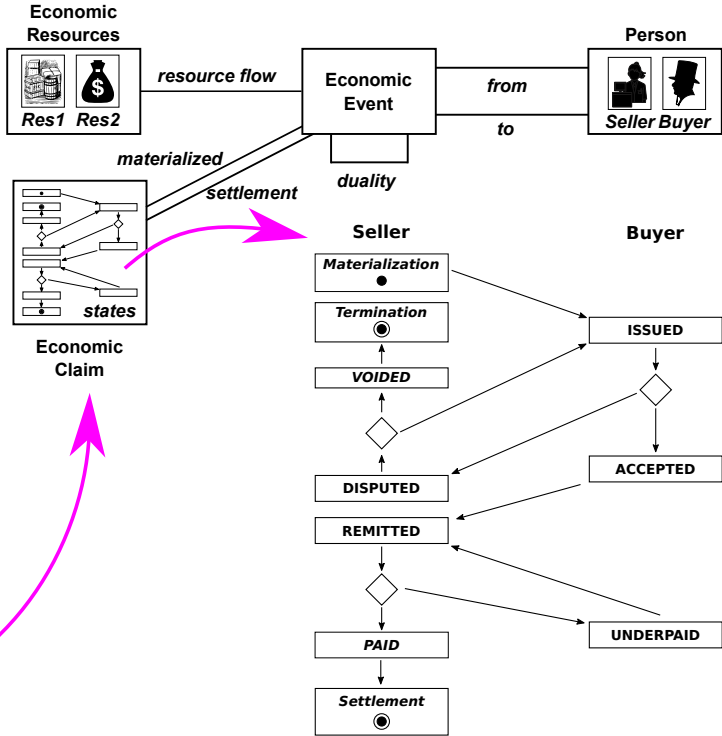
ISO/IEC 15944-21 OeDBTR

Edited by Bill McCarthy (MSU) and G. Ken Holman

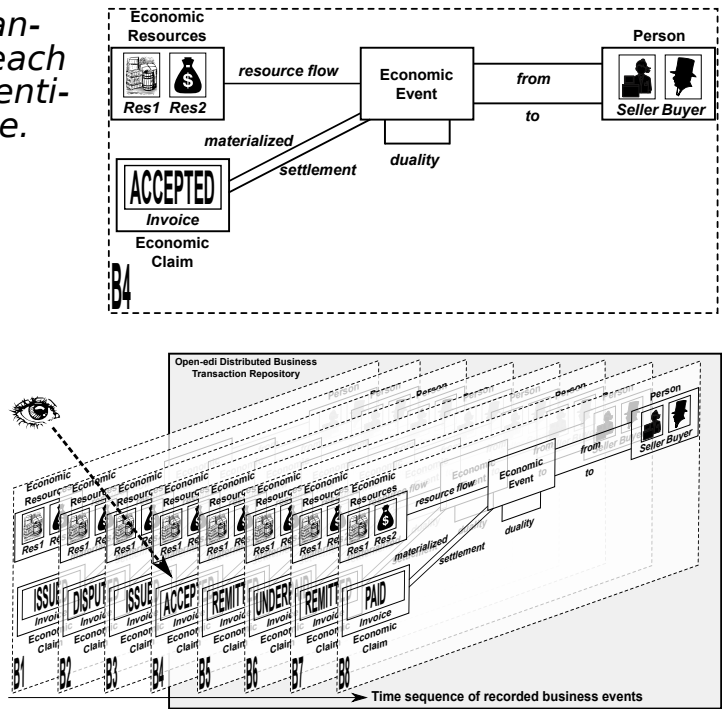
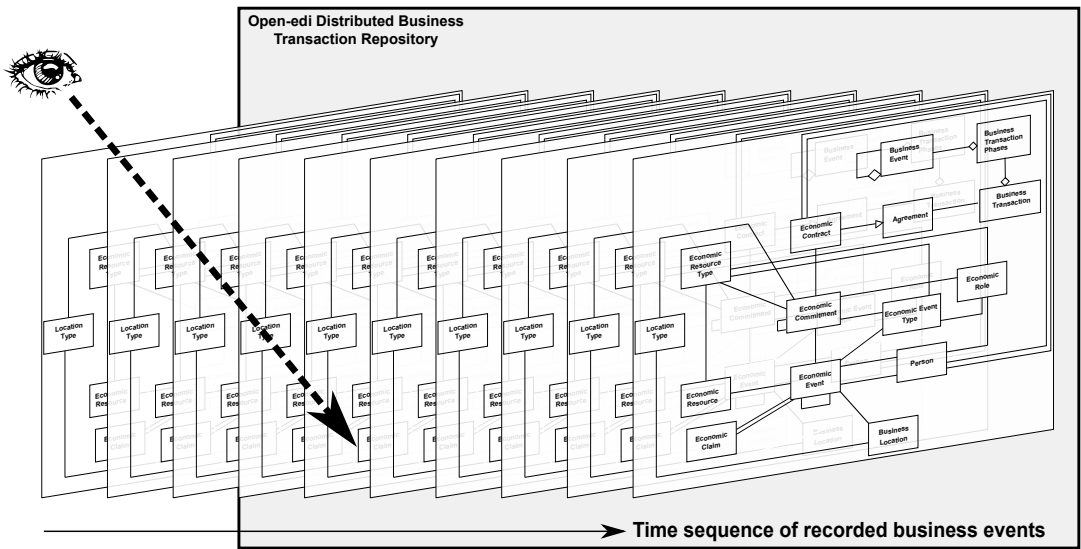
The ontology for an Open-edition business transaction is described by ISO/IEC 15944-4 and is based on the reference model for Open-edition ISO/IEC 14662.



Each of the business entities of the ontology has a state machine that progresses through different state values in response to business event stimuli triggered during the transaction.



A minimum OeDBTR tracks a single business entity during the entire transaction. A more complete OeDBTR tracks multiple business entities as each single business event triggers a change in state in some or all of those entities at a moment in time sequence. This history of changes is immutable.



The OeDBTR is the single source of truth for the information regarding entire business transactions. Traditionally-maintained artefacts such as journals and ledgers now are trading partner views created dynamically as a projection of the information found in the immutable data store. Two trading partners should not maintain their own information separately, as different systems may introduce inconsistencies or influences on the data being reported. Each trading partner extracts information from the OeDBTR as if it is light seen through different prisms.

