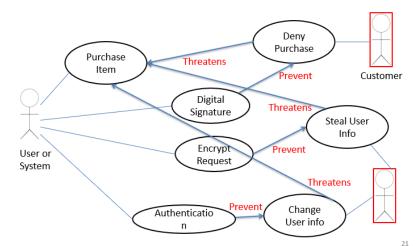
Use Case

Table 15.6 Use Case KBO_UC_01: Record Transaction

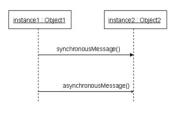
ID	KBO_UC_01
Name	Record Transaction
Objective	To record transaction information for a particular account in KBO.
Pre-conditions	Administrator must be logged into KBO and must be able to access transaction information from Master Ledger.
Post-conditions	Success Transaction information is successfully recorded in KBO. Failure Transaction has failed. Transaction has succeeded but transaction information cannot be recorded in KBO.
Actors	Primary Administrator Secondary Master Ledger User Notifier
Trigger	Periodic reminder to Administrator
Normal flow	Administrator requests transaction information for a particular account for a particular period of time from Master Ledger via the Get Transaction Information use case. Administrator accepts information supplied by Master Ledger. Administrator checks status of each particular transaction, whether success or failure via the Check Transaction Status use case. Administrator sends failed transaction information to failed transactions queue. System processes failed transaction information via the Notify User use case. Administrator records succeeded transactions in the system. System confirms successful recording of transaction.
Alternative flow	a Master Ledger is not able to supply transaction information; use case concludes with error notification. a. No successful transactions to record; use case concludes with error notification. a. Successful transactions can not be recorded in KBO; use case concludes with error notification.
Interacts with	Get Transaction Information, Check Transaction Status, Record Transaction, Login, Notify User use cases.
Open issues	How quickly must Master Ledger respond to request for transaction information? How will the system identify Administrator from other users?

Misuse Case: Online Purchase

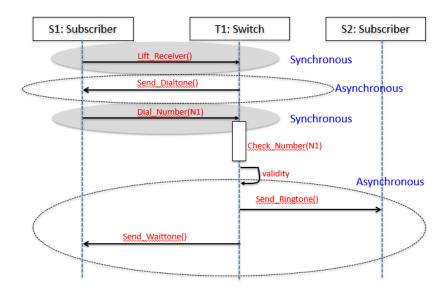


Arrows and Orders

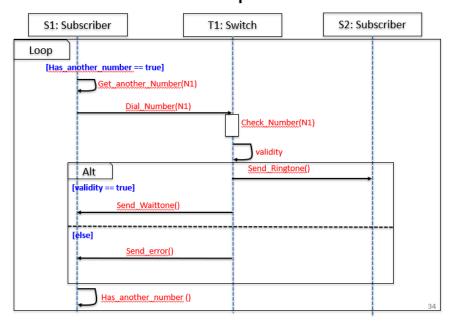
- A solid arrowhead if a synchronous call operation
- A stick arrowhead if an asynchronous signal
- The order of the messages is defined two rules:
 - On the same lifeline, a higher message precedes a lower message
 - Message sending precedes message receiving



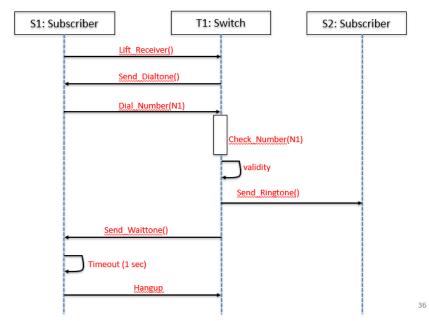
Synch and Asynch Messages

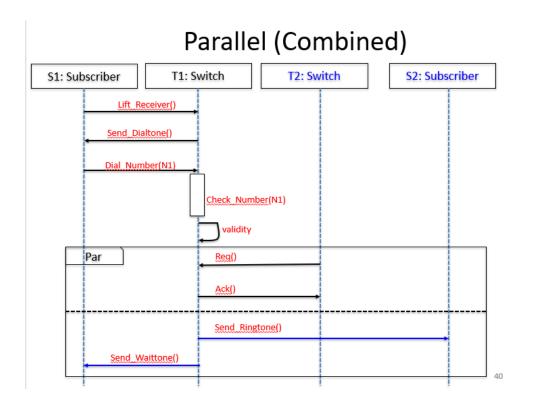


Loops

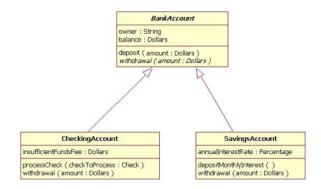


Timeout

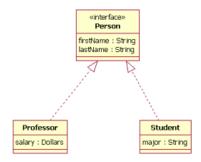




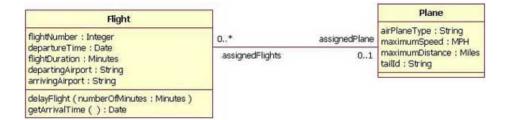
Inheritance



Interfaces



Dotted line indicates it's NOT inheritance.



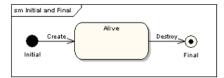
Multiplicity

Indicator	Meaning
01	Zero or one
1	One only
0*	Zero or more
*	Zero or more
1*	One or more
3	Three only
05	Zero to Five
515	Five to Fifteen

State Machine Diagram



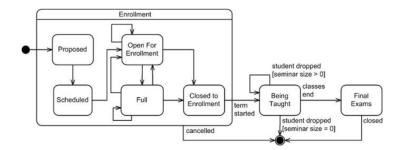
Initial and final states



• Transitions



State Machine Example

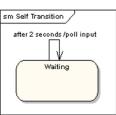


State Machine Diagrams: More

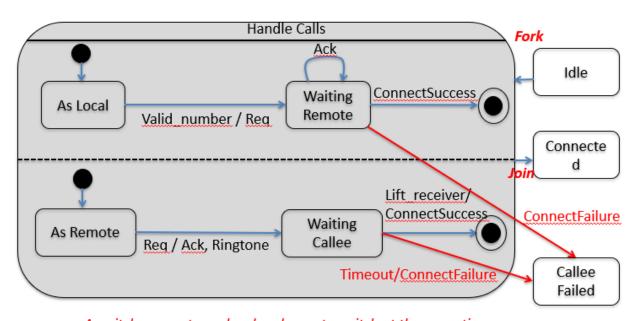
· State actions



• Self-looping actions



Concurrent states



A switch may act as a local and remote switch at the same time

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