



# Multi-Start Activity Use Case

Sid Askray  
Monica J. Martin  
Use Case Subgroup Members

WS-BPEL F2F  
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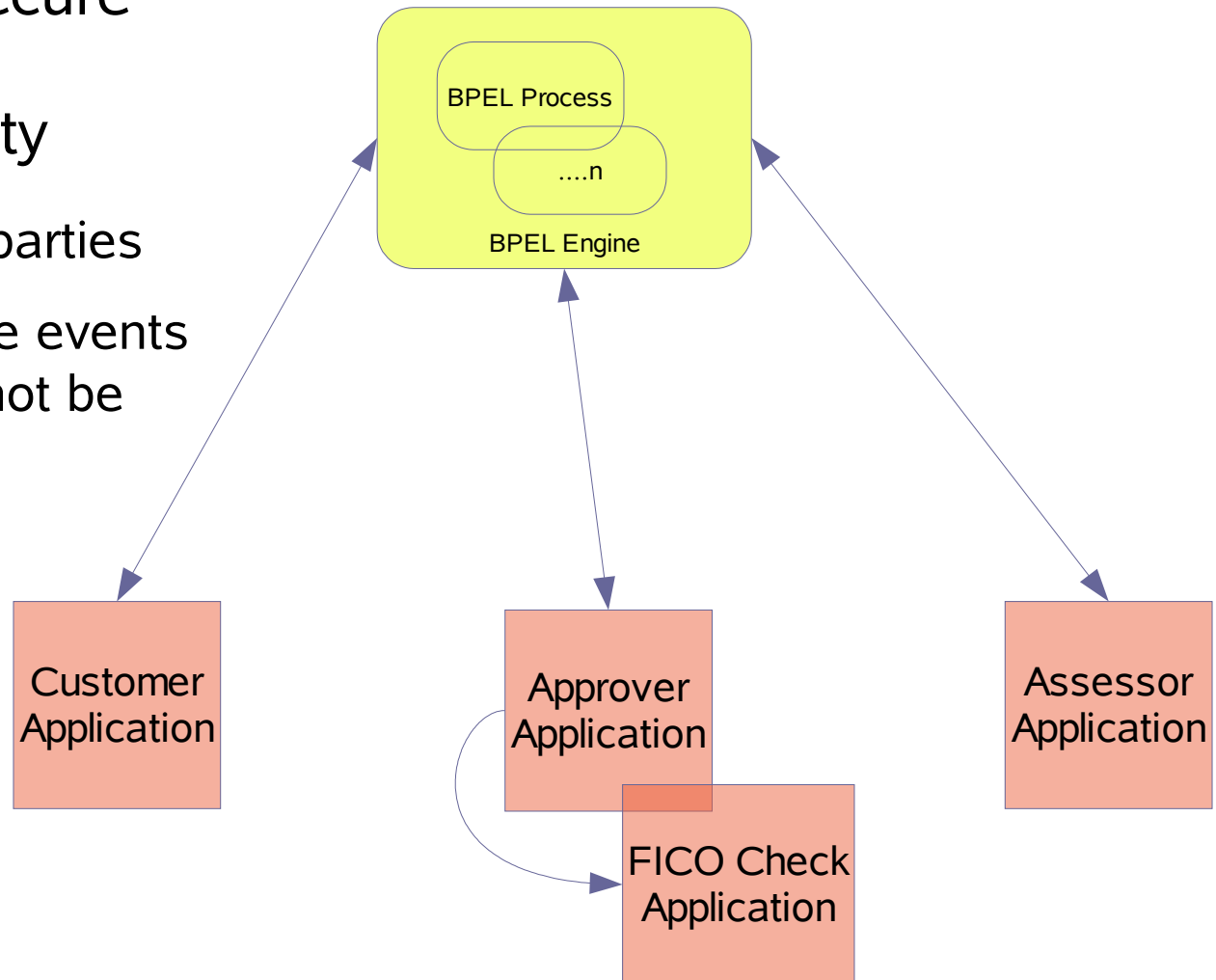


# Multi-Start Activity Use Case Goals

- Build on implementation subgroup scenarios
  - Loan approval process
  - Need to address multi-start (marketplace process)
- Only began to touch the surface on these issues to start the discussion
  - Show relevancy between related issues
  - Building block use case – bolster specification
- Attach business flow example to emphasis use and application of the concepts and issues to be resolved
  - Issue 2: Subprocesses or functions
  - Issue 5: Suspend and resume
  - Issue 78: Multi-start activities
  - Other related issues: Composition and decomposition, coordination of processes

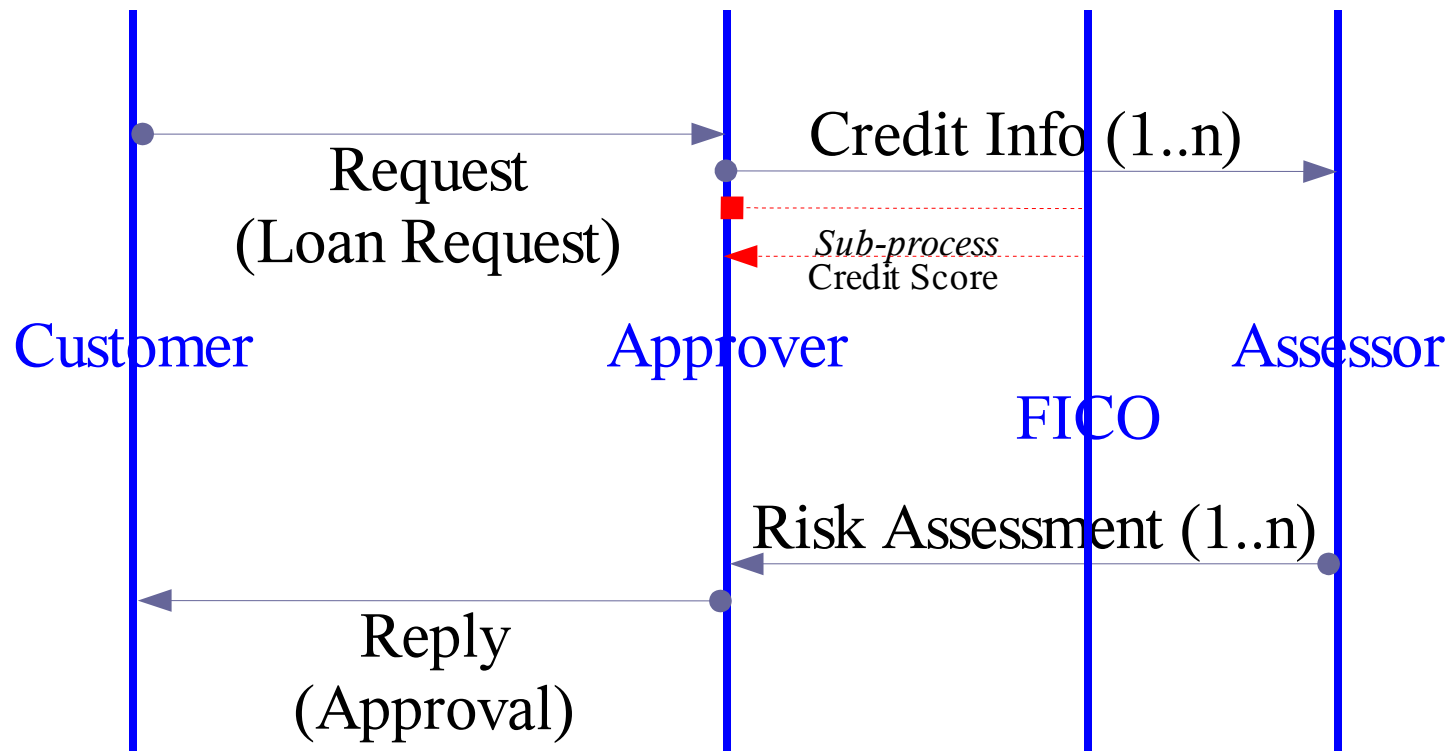
# Multi-Start Activity Use Case Description

- Loan process to secure funds to purchase commercial property
  - Involves multiple parties
  - Surrounds multiple events that may or may not be dependent



# Multi-Start Activity Process Flow Description

- Process flow description
  - Customer interacts with approver
  - Approver triggers assessor for FICO check and risk ratings
  - Assessor responds to approver to input to loan approval process
  - Approver notifies customer on loan approval outcome.

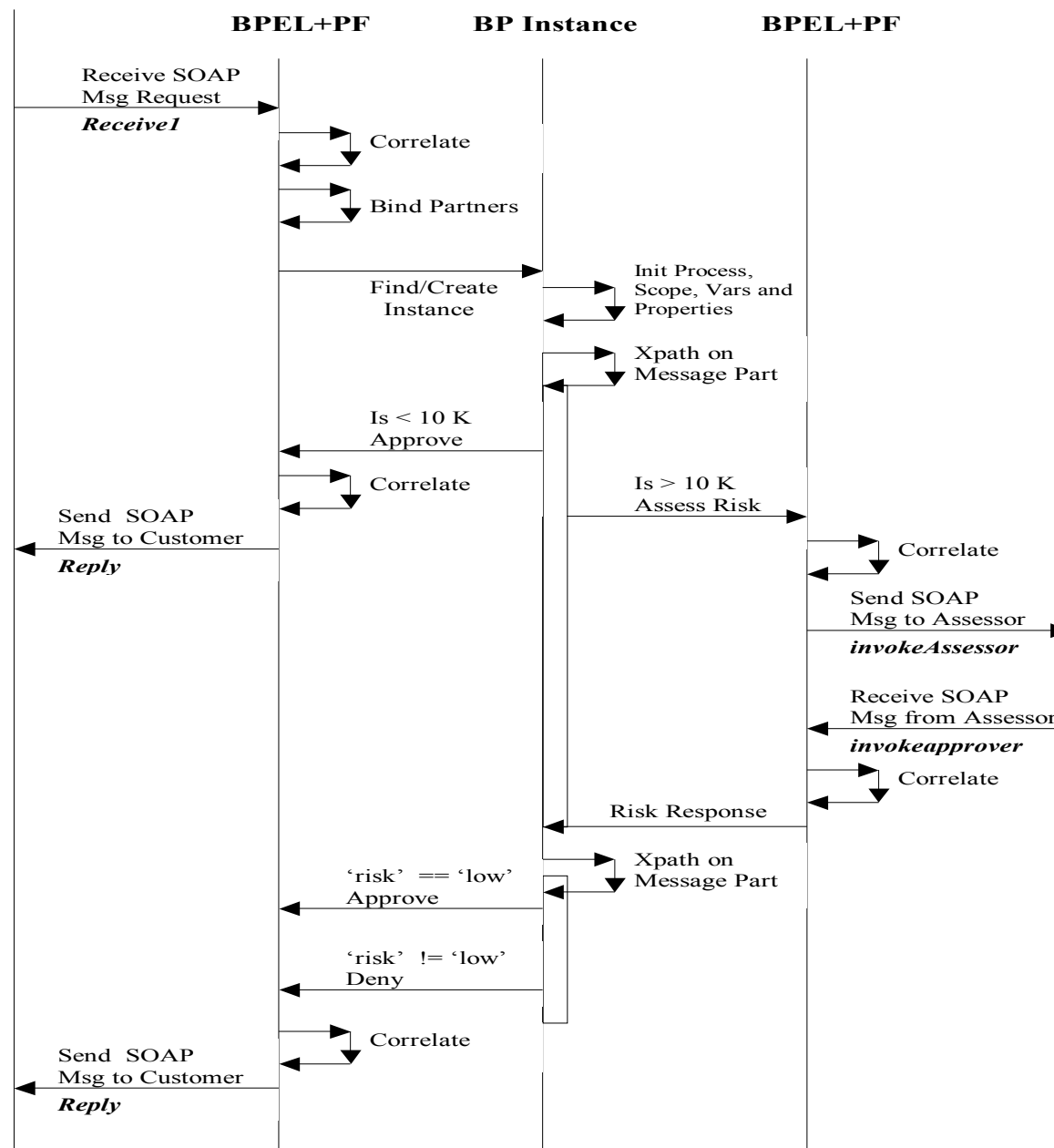


# Multi-Start Activity Use Case 'Normal Flow'

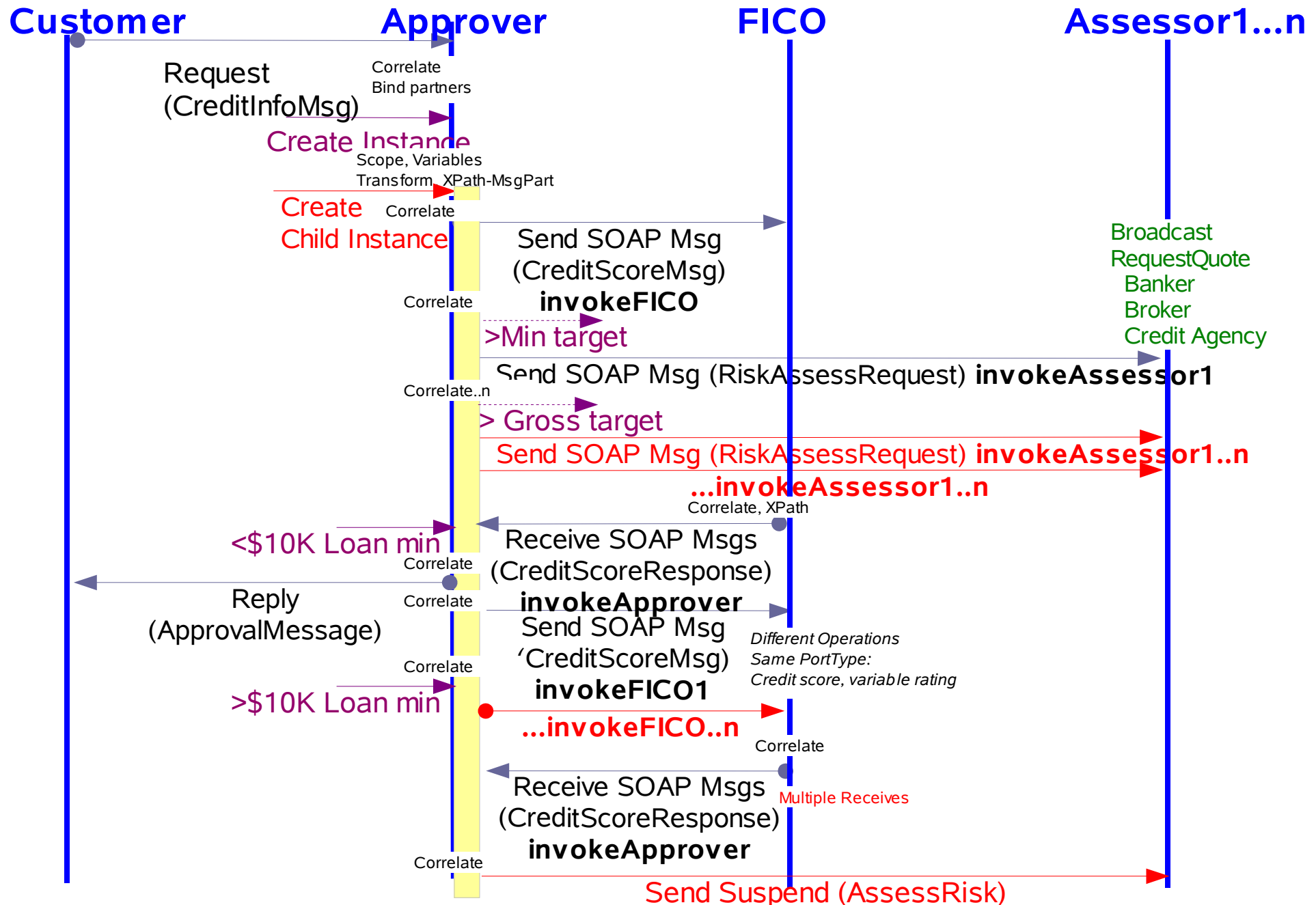
Customer

Loan Approver

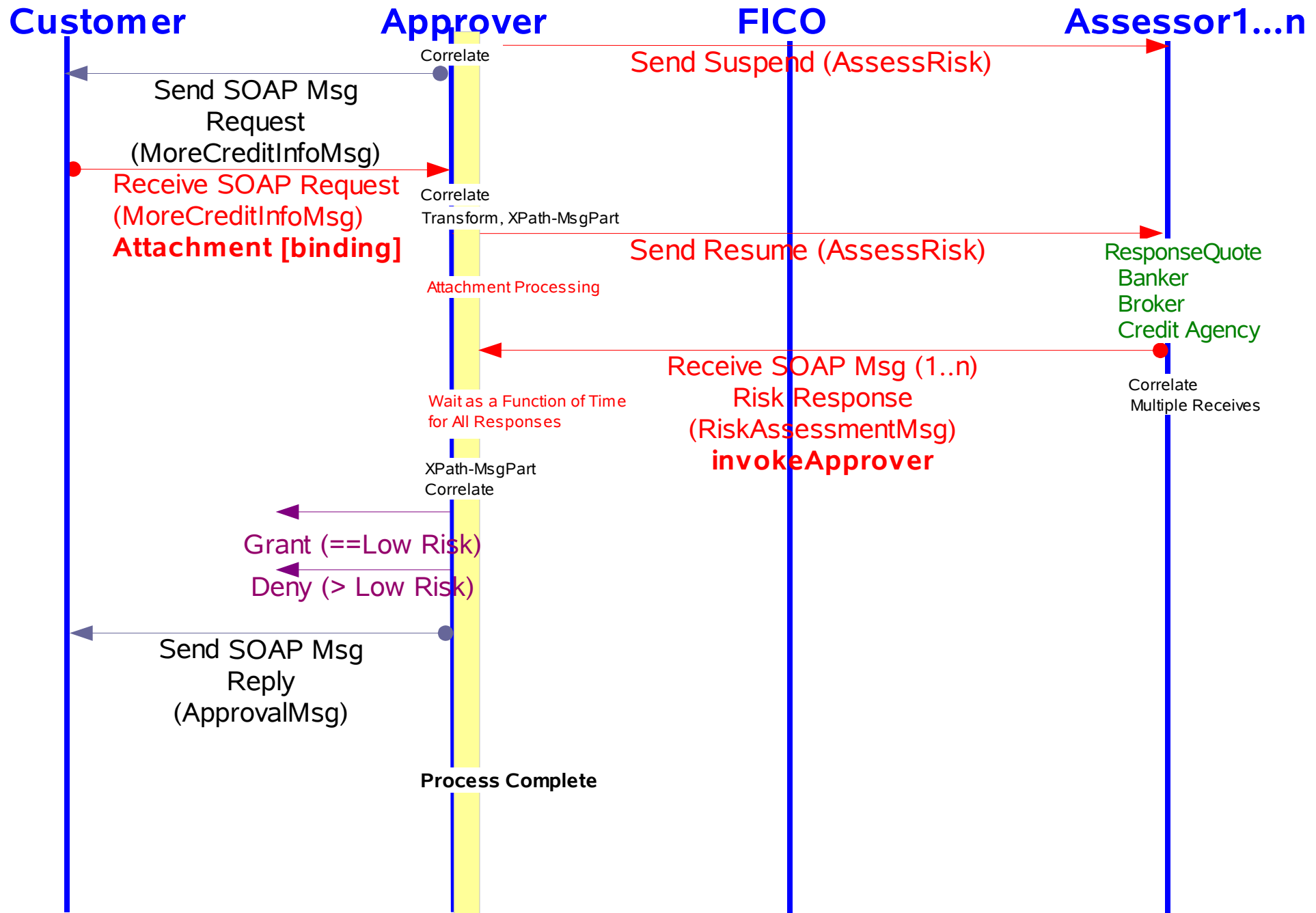
Risk Assessor



# Use Case 'Extended Flow'



# Use Case 'Extended Flow'



# Business Flow Requirements on WS-BPEL

- Business flow potential requirements:
  - Multiple receives on portType
  - Different operations on a portType
  - Attachments [binding impact]
  - Use of multiple correlation sets [on the same portType] (existing)
  - Use of suspend and resume
  - Accommodate parent-child processes



# Discussion Items and Recommendations

- Open items
  - Compensation
  - Fault handling
  - Event handling
  - Variability of asynchronous operations
  - Broadcast functions
  - Impact of underlying infrastructure to support the process (binding)
- At a minimum, recommend:
  - Address parent-child process support
    - Parent-child != partnerLinks
    - In specific circumstances, binding cannot be left to assumption
    - Minimum functions to support process coordination