

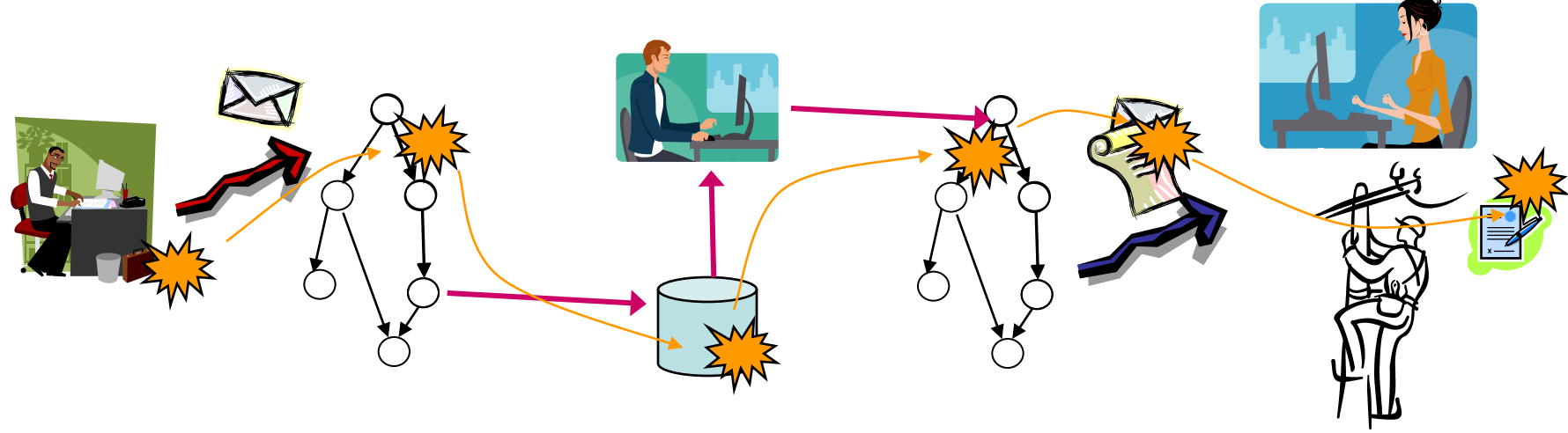
End-to-End Monitoring of Multi-Module Business Processes in IBM WebSphere Business Modeler

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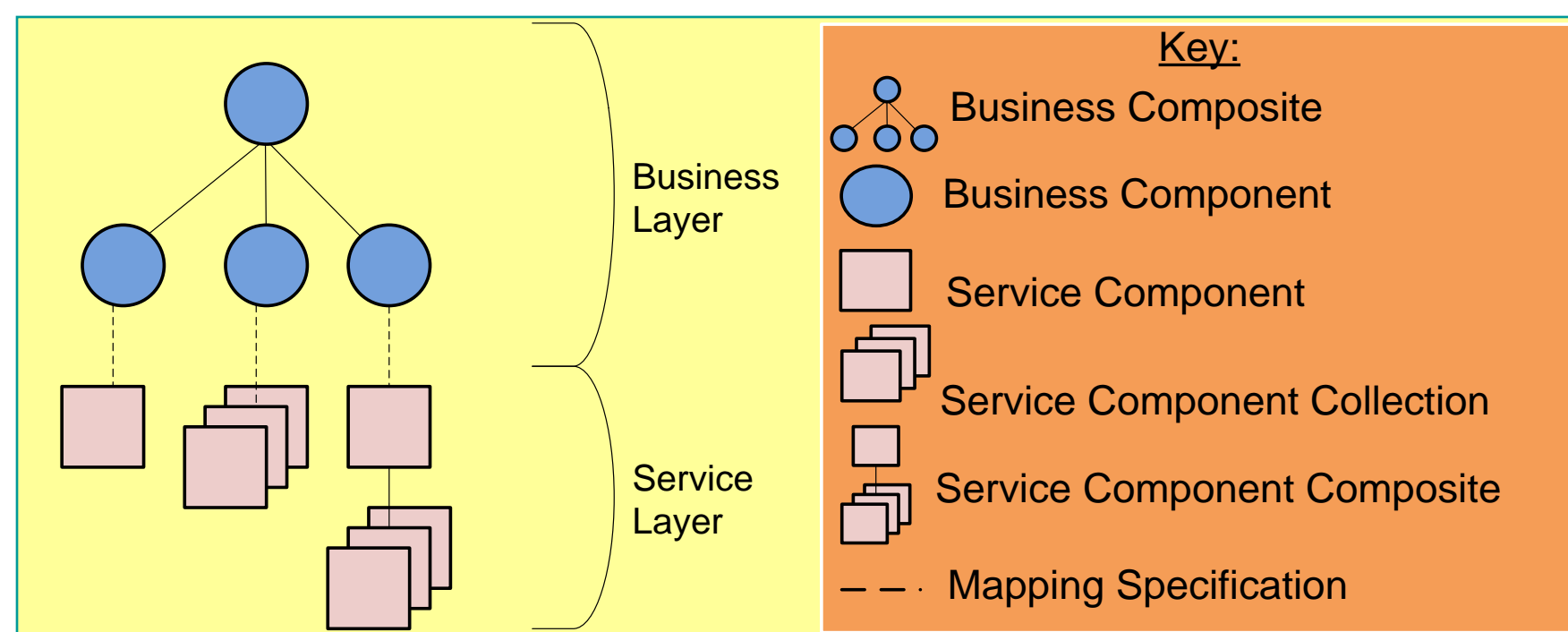
IBM T. J. Watson Research Center, Hawthorne, NY

Business scenario: End-to-end Line of Business processes

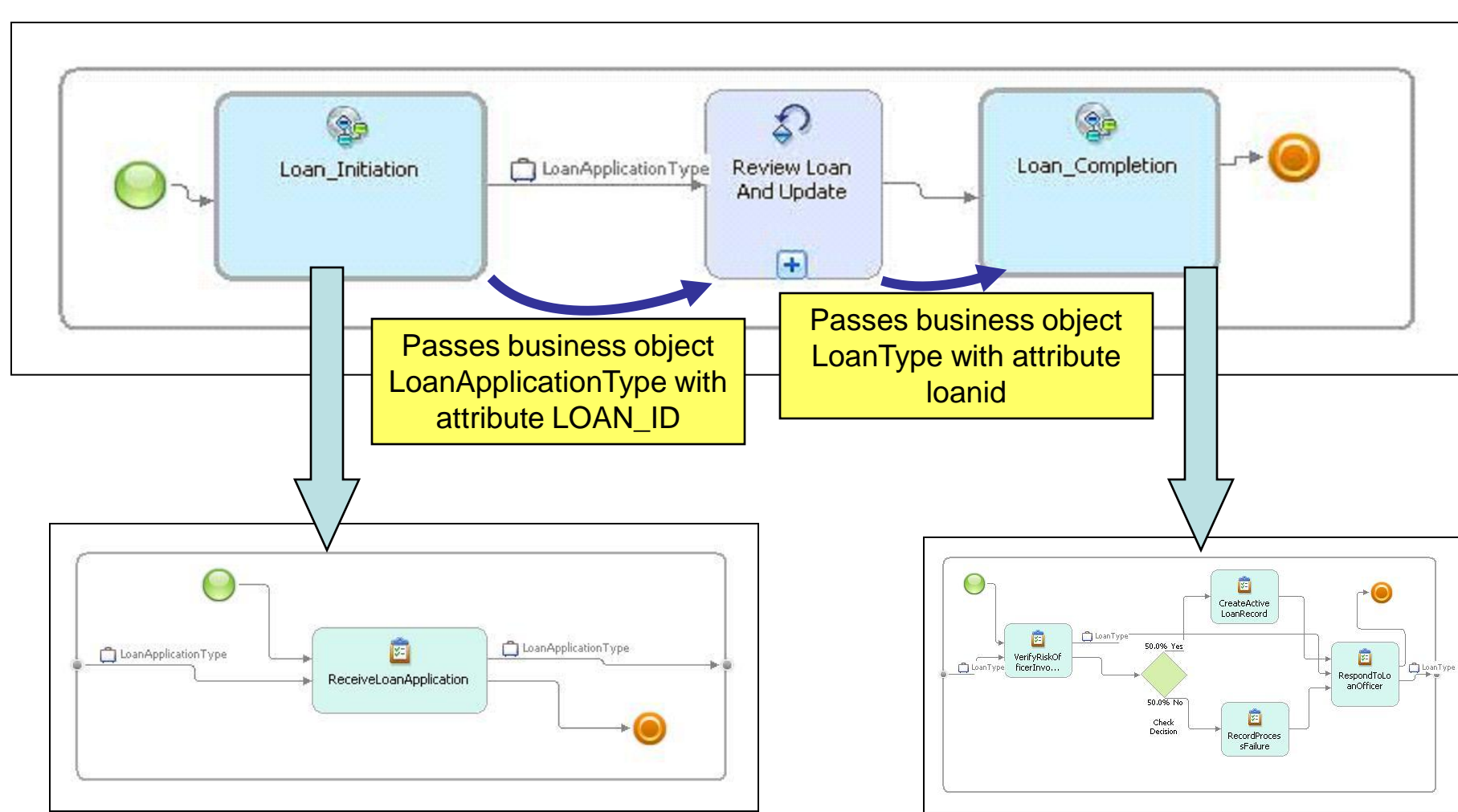


- End to end operation is composed of multiple short or long running heterogeneous processes and information records and people interactions
- Evolving system with many components and no particular coherent design. All the connections may not be obvious
- Goal: Monitor the end-to-end business process.

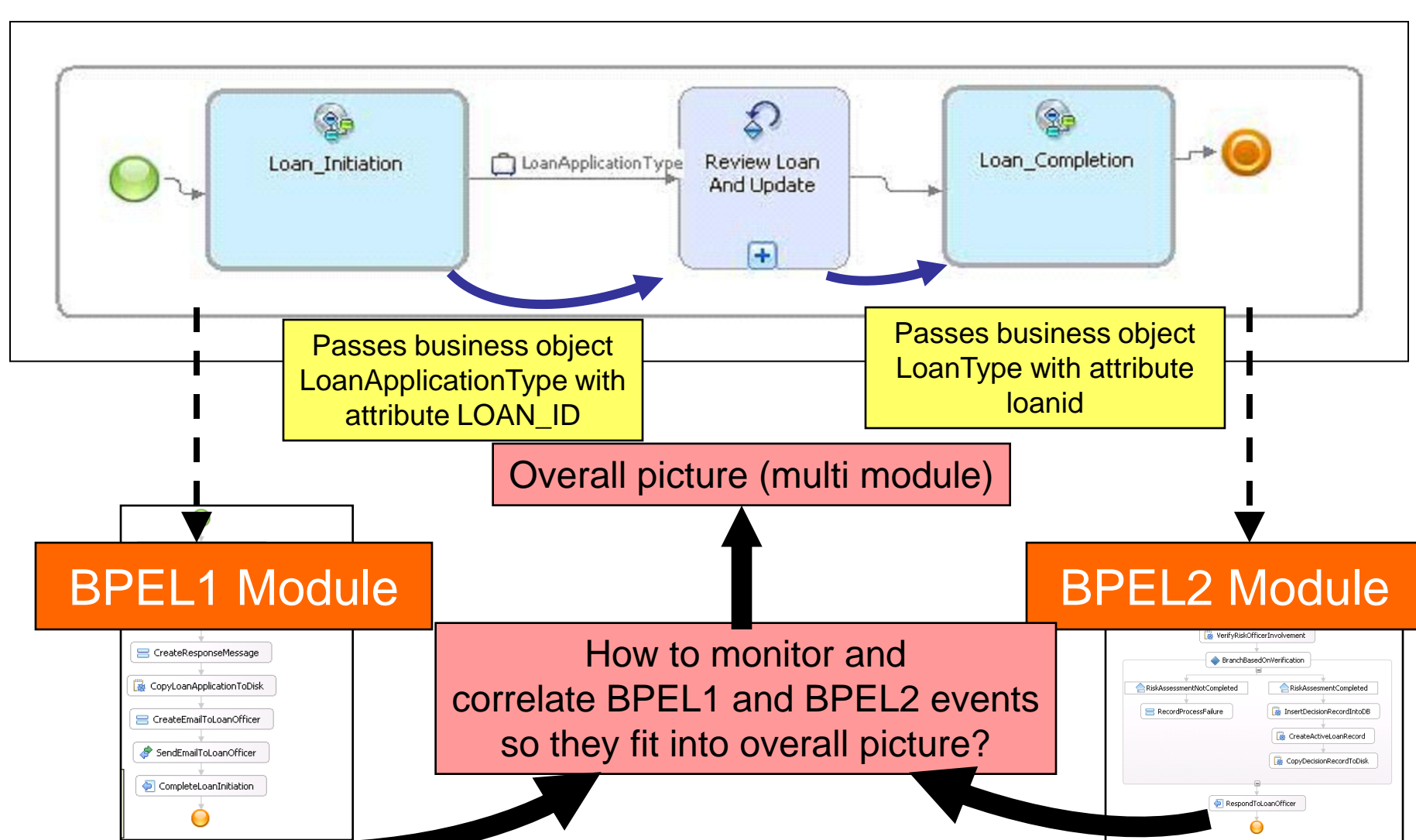
Business to Service Layer Mapping



Example Scenario: How to Monitor a Multi-Module Loan Process



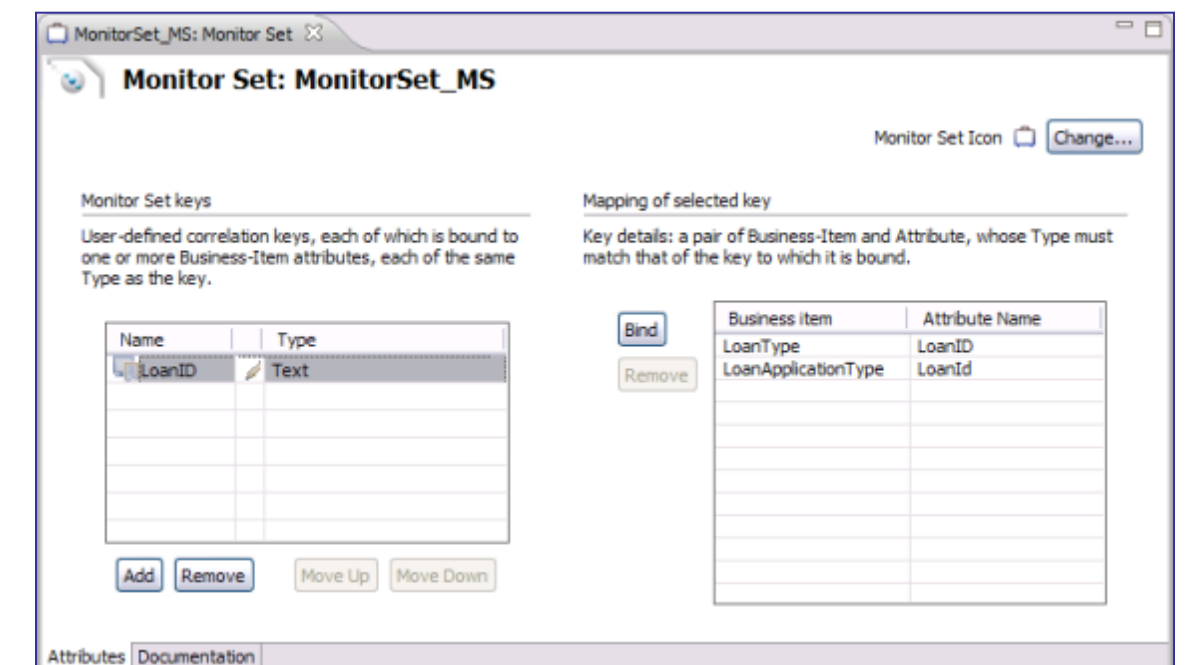
How to Monitor a Multi-Module Loan Process



Our Technical Approach: Monitor Sets

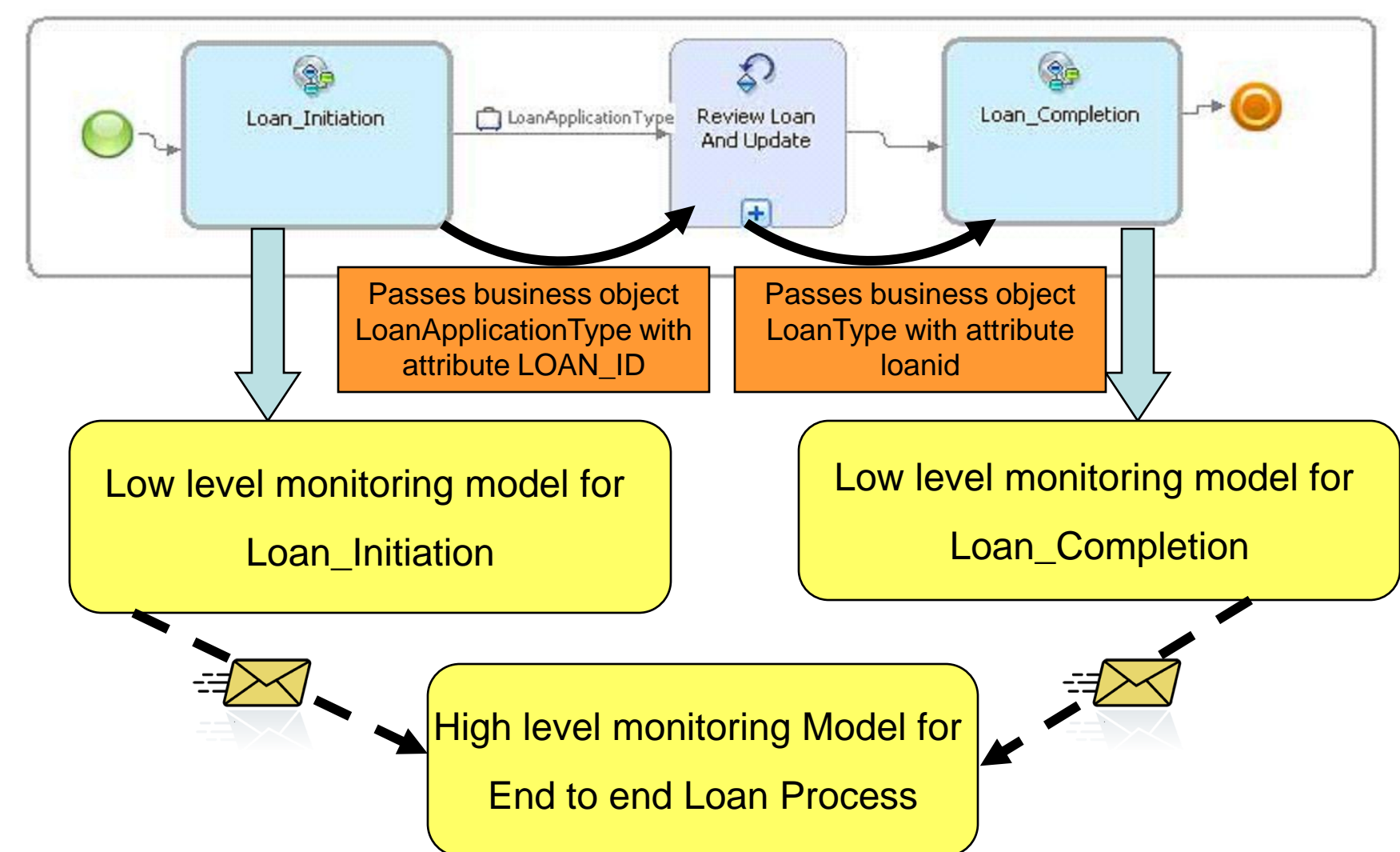
User creates a Monitor Set attribute, LoanID of type String. This attribute maps to:

- Business object attribute loanid for business item LoanType
- Business item attribute LOAN_ID for business item LoanApplicationType

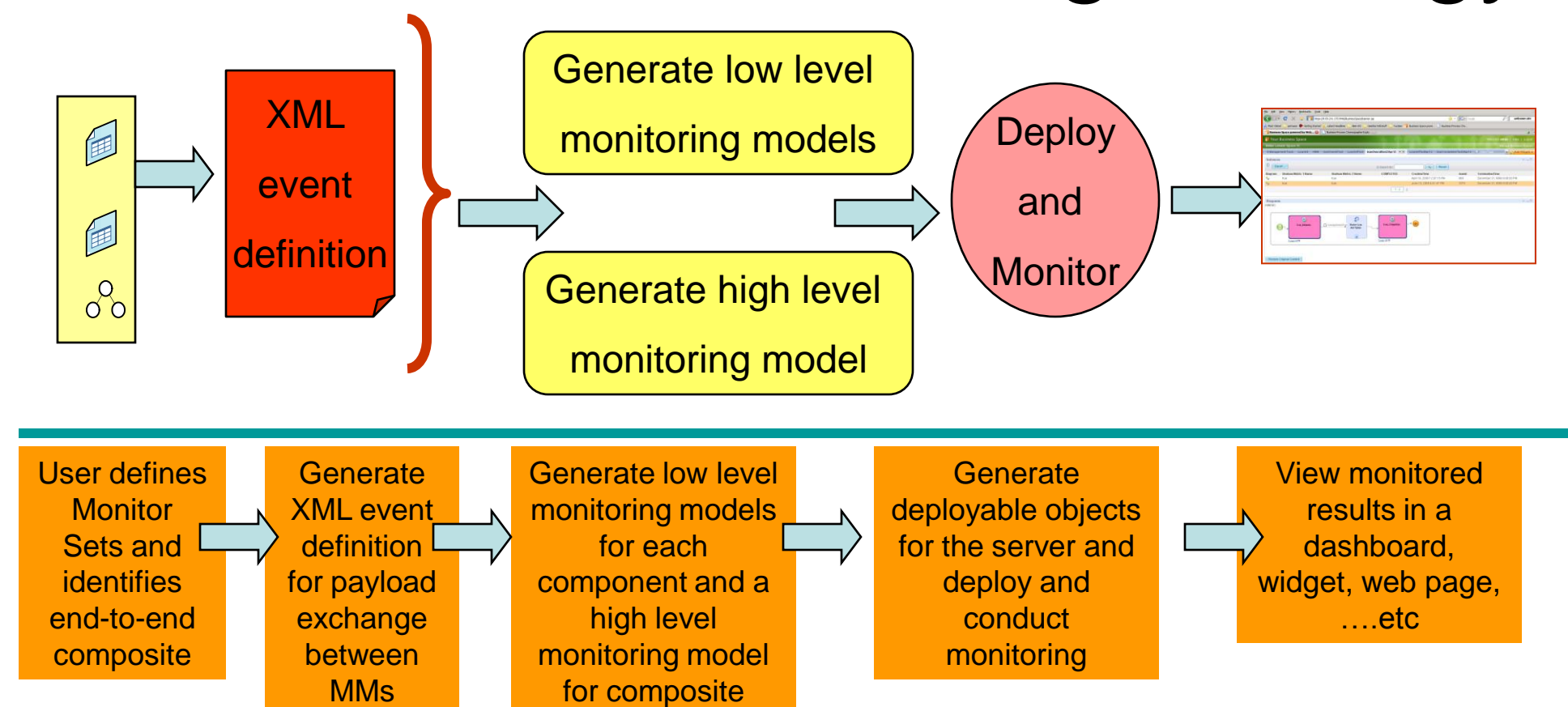


Monitor Set Editor implemented as a plug-in for WebSphere Business Modeler.

Monitor Set and Monitoring Strategy



End-to-end Monitoring Strategy



Implementation and References

- Tested and validated on WebSphere BPM v6.2 and v7 runtimes (WebSphere Integration Developer, WebSphere Business Monitor, Business Space, Business Process Choreographer).
- Implemented as Java plug-ins for WebSphere Business Modeler. 30 page article and plug-ins available for download: http://www.ibm.com/developerworks/websphere/library/techarticles/1003_lakshmanan/1003_lakshmanan.html?ca=drs-
- Geetika T. Lakshmanan, Paul Keyser, Aleksander Slominski, Francisco Curbera, Rania Khalaf: A Business Centric End-to-End Monitoring Approach for Service Composites. IEEE SCC 2010: 409-416.

Impact: IBM WebSphere BPM suite

