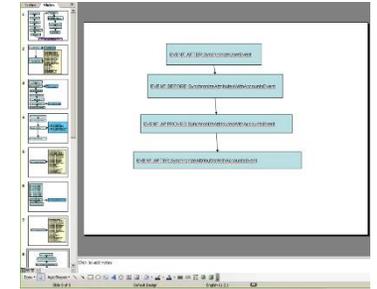
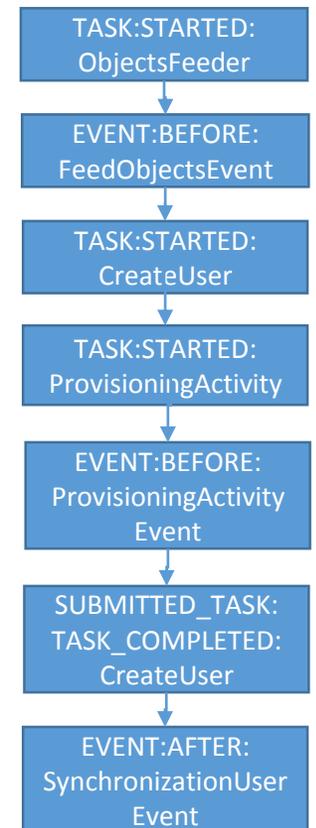


# DOCUMENT IM BUSINESS LOGIC 1 OF 2

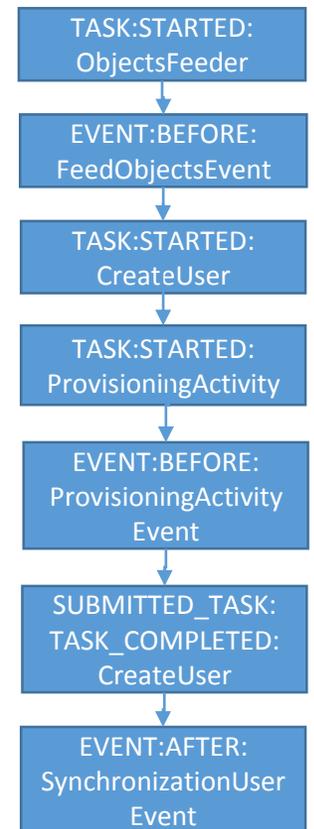
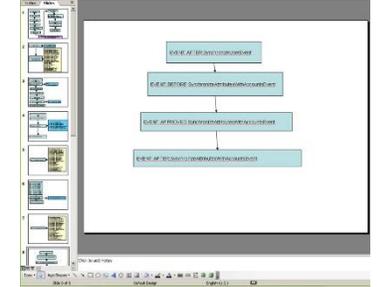
- Business logic may change during the lifecycle of the solution.
  - As it drifts from initial documentation, it can be a costly process for debugging or adding on new functionality without impacting current business. The process outline below will demonstrate a step by step process of how to capture business logic and then document within MS powerpoint or MS visio for a complete view of all uses cases.
- This process may be time consuming and will require a pre-prod environment that has matching prod business logic.
- The pre-prod system MUST be quiet; which mean no other users or services acting upon the solution during this process; otherwise “noise” will defeat this exercise.



- **Actions:**
  - Deploy the IM logging.jsp file/folder from the CA IM samples (IAM Suite / Tools) to ALL J2EE platforms (or just one for testing)
    - Copy this file over the existing STUB.jsp with the same name. May wish to back the files/folder prior.
    - Recompile for JBOSS 4/5 per readme.txt (Not required for WebLogic/WebSphere/JBOSS 6)
  - Launch the browser to the URI with logging.jsp to ALL J2EE servers (or just run one J2EE) (E.g <http://imwa001.im.dom:7001/iam/im/logging.jsp>)
  - Enabled the following
    - J2EE loggers to DEBUG state {be careful of spaces} (if system is quiet, may use **ims=ALL** and **im=ALL**)
      - **ims.tasktrack.custom** {Used to monitor general start/exit transition for task/event/blth/lah}
      - **im.feeder** {View how the BLC or Bulk Load task loads data into IME}
      - **ims.policyxpress** {Provides the complete trail of PX/MX rules being executed}
      - **ims.ilsdk.role.azengine** {Provides the name of the Identity Policy used for a user}
      - **ims.ilsdk.role.azcache.ridiculouslydetailed** { Provide detail on Identity Policies executed}
    - IMPS ETATrans logs (loglevel=3) (IMPS\logs\etatrans{datestamp}.log)
    - IMPS ADS log (IMPS\logs\ADS\adshostname.log) & If needed IMPS CAM Logs (CAM\logs\\*)
    - IMPS IAMCS logs (IAMCS\jcs\log\\*.log + IAMCS\jcs\log\NameOfCX\\*.log)
  - Note the time stamp before starting
    - Validate the J2EE logs are quiet (may need to shutdown all other J2EE servers to enforce single stack for debugging)
    - If other loggers are present, and are “noisy”; set that logger = WARN in logging.jsp during this exercise.



# DOCUMENT IM BUSINESS LOGIC 2 OF 2



- **Actions:**
  - Execute the beginning of the use-case
    - If using the IM Bulk Loader Client; execute that process for one (1) record pre use-case.
      - Do not use more than one; as this will add “noise” and make it difficult to map the business logic.
  - Monitor the progress of the use-case with IM View Submitted Task
    - When the task shows as “completed”, view the J2EE log and ensure that all loggers are viewable, ensuring that they were entered correctly within the logging.jsp.
    - If all loggers are seen, copy this file to your desktop.
  - Open Visio or PowerPoint or any tool that will allow a capture of visual representation of the data flow.
    - Create a starting point with the 1<sup>st</sup> box; it will be labeled with the very first STEP of the [ims.policyxpress] logger. **TASK:STARTED:ObjectsFeeder**
    - Continue to the next STEP of the [ims.policyxpress] logger; add in arrows between the boxes of the serial data flow.
    - When a STEP has a PX rule executed; identify the step; then add another box (comment) to the side that captures the PX Rule’s name
      - Additional information of the PX rule will need to wait, until we capture the entire serial data process flow.
    - This process will continue across multiple slides, as needed, don’t crowd the data, as additional information will be added later, to fill out the business logic executed.
    - Create a new deck or visio TAB for each use-case.
    - After the process flow has been captured for each STEP, add in additional notes on PX Rule priorities & PX Action Rules.
      - PX Data Elements (with loops) + PX Action Rules will have their own data flow (Iterators)
      - Multiple PX Rule may exist for the SAME STEP, e.g. priority 10,20,30,40,....,999.
      - Capture the PX data flow on a new deck/visio.
    - If business logic is missing due to BLTH or other custom code; add in these loggers as needed, and re-execute the use-case.
  - Review of business logic
    - Follow PX Framework best practices (see the CA Community Site for the PX Wiki) to move any PX Rule trigger from an EVENT STEP to a TASK STEP.
    - Identify any IM Identity Policies that may be moved to PX Framework
    - Determine if any PX Rule may be adjusted with Data Entry Rule to prevent execution for use-cases that don’t apply.
    - Remember to add the IMPS provisioning logs from ETA/ADS/Exchange/CAM/IAMCS/API GW/Layer7/Cloud Apps to complete the data flow.