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# DYNAMIC BPM

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## Dynamic BPM

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- Dynamic BPM provides the flexibility to use processes in ad-hoc way

- In many scenarios, processes cannot be mapped completely at design time

  - Process is not standardized

  - Not enough visibility to map process correctly

  - Process needs to evolve before they can be standardized

  - do the work, then figure out what process was followed;

  - support "unstructured" or "ad-hoc" work;

  - allow flexibility in "structured" work;

  - Not possible to map all scenarios in a template, requires flexibility to change, or too much change renders process definition useless

# Dynamic Process

- Allows a Process Instance to be created without a Process Definition.
- This is done by:
  - Create basic template with one root task
  - Add nodes at runtime as required (sub tasks)
  - Involve people to work (at runtime) to complete the task

- When the owner decides that the goal has been accomplished, they complete the root task, which completes the process.
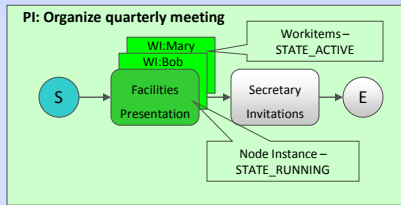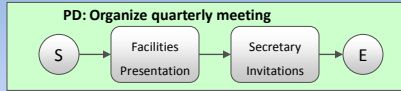
# Subtasks

- Users working on tasks can add subtasks and assign to other people.
- This includes tasks from dynamic processes as well as tasks from a regular (or "structured") process.
- Subtask can be assigned to one or more people.
- Workitems (tasks) are created for the assignees just like they are for assignees of an activity node.
- Subtasks can be further sub-tasked.
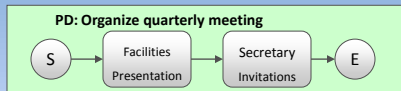- The parent tasks shows in "waiting" state" but can still be worked on.

# Dynamic Task

- The pre-conditions are:
  - a Process Definition already exists
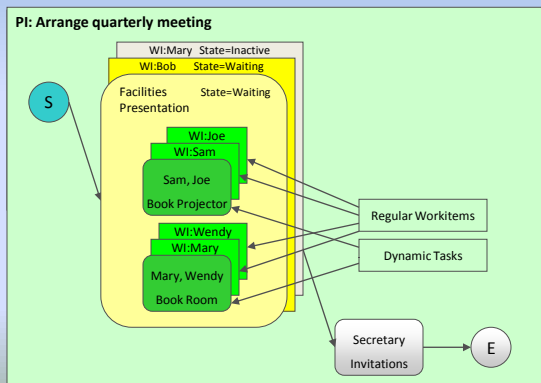  - a Process Instance has been started in the usual way.

**PD: Organize quarterly meeting**

S → Facilities Presentation → Secretary Invitations → E

**PI: Organize quarterly meeting**

WI:Mary
WI:Bob
Workitems – STATE_ACTIVE

S → Facilities Presentation → Secretary Invitations → E

Node Instance – STATE_RUNNING

- Note that Bob and Mary from Facilities are assigned the task of preparing for the presentation.

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# Dynamic Task - Subtask Creation

- Bob implicitly accepts the Presentation task and:
  - creates a Book Projector subtask and assigns it to Sam and Joe; and
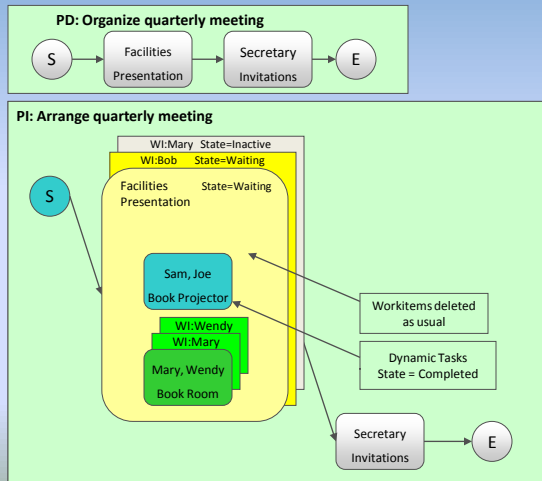  - creates a Book Room subtask and assigns it to Mary and Wendy.

**PD: Organize quarterly meeting**

S → Facilities Presentation → Secretary Invitations → E

The PD has not changed.

**PI: Arrange quarterly meeting**

WI:Mary   State=Inactive
WI:Bob      State=Waiting
Facilities Presentation      State=Waiting

WI:Joe
WI:Sam
Sam, Joe
Book Projector

WI:Wendy
WI:Mary
Mary, Wendy
Book Room

Regular Workitems
Dynamic Tasks

S → Secretary Invitations → E

The original PI …

… is changed with the addition of the new dynamic subtasks.

# Dynamic Task - Subtask Completion

- Dynamic tasks have one fixed choice called "Complete".
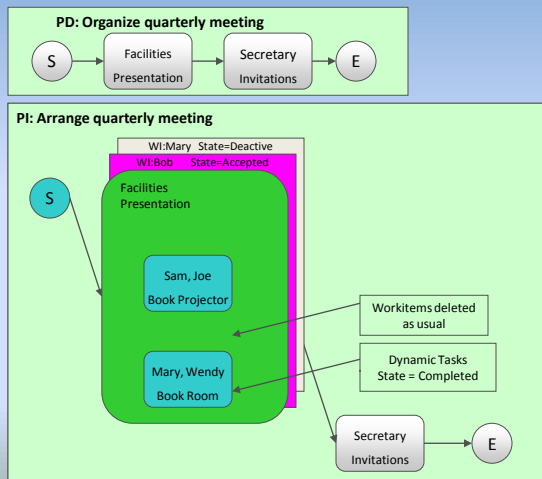- Sam books a projector and completes his WorkItem.

**PD: Organize quarterly meeting**

S → Facilities Presentation → Secretary Invitations → E

**PI: Arrange quarterly meeting**

WI:Mary  State=Inactive
WI:Bob  State=Waiting
Facilities Presentation  State=Waiting

S

Sam, Joe
Book Projector

WI:Wendy
WI:Mary
Mary, Wendy
Book Room

Workitems deleted as usual

Dynamic Tasks State = Completed

Secretary Invitations → E

The PD has not changed.

Sam and Joe's workitems are deleted and the Book Projector subtask is completed.

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# Dynamic Task - Final Subtask Completion

- The final subtask is completed when Wendy books a room and completes her workitem.

**PD: Organize quarterly meeting**

S → Facilities Presentation → Secretary Invitations → E

**PI: Arrange quarterly meeting**

WI:Mary  State=Deactive
WI:Bob  State=Accepted
Facilities Presentation

S

Sam, Joe
Book Projector

Mary, Wendy
Book Room

Workitems deleted as usual

Dynamic Tasks State = Completed

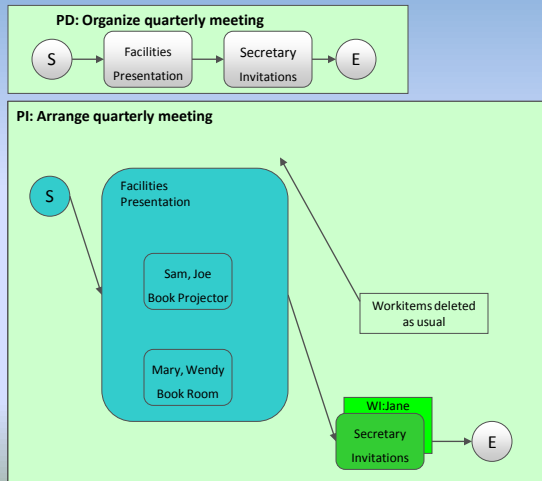Secretary Invitations → E

The PD has not changed.

Wendy and Mary's workitems are deleted and the Book Room subtask is completed.

As all subtasks are complete the original task is put back to state=Running.

Bob's workitem goes into state=Accepted and Mary's to state=De-active.

# Dynamic Task – Original Workitem Completion

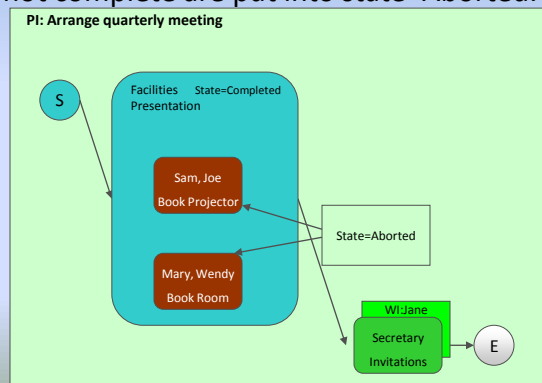FUJITSU

■ Bob now completes the original workitem.

**PD: Organize quarterly meeting**

S → Facilities Presentation → Secretary Invitations → E

**PI: Arrange quarterly meeting**

S

Facilities Presentation

Sam, Joe
Book Projector

Mary, Wendy
Book Room

Workitems deleted as usual

WI:Jane
Secretary Invitations → E

The PD has not changed.

The process moves on to the next task … in this case Invitation and a workitem is created for Jane.

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# Dynamic Task

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■ The user who creates a subtasks can decide that the subtask is no longer needed. In this case the subtask state is put into state=Aborted.

■ The user who create a subtask or subtasks can complete their own workitem before any or all of the subtasks are complete. In this case the subtasks that were not complete are put into state=Aborted.

■ If Bob completed his workitem before Sam or Joe or Mary or Wendy completed their subtasks this would be the result.

**PI: Arrange quarterly meeting**

S

Facilities    State=Completed
Presentation

Sam, Joe
Book Projector

Mary, Wendy
Book Room

State=Aborted

WI:Jane
Secretary Invitations → E

# Dynamic Task – Subtasking Subtasks

- Sam finds that both the portable projectors are broken.
- He creates a subtask for Dave to fix the broken projector.
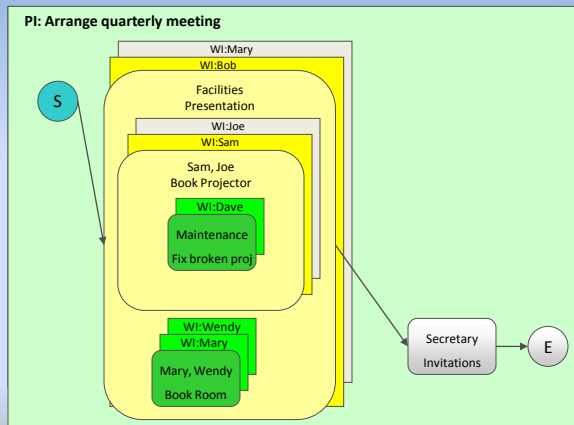


In this case the original dynamic subtask has been further subtasked.

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# Dynamic Task –Using Comments

- Scenario: The projectors may not be fixed before the meeting.
  - Mary books a room and completes her workitem.
  - After Sam creates the "fix broken projector" sub task, he uses his workitem (in waiting state) to write a comment:
    - "Bob, both our projectors are currently broken. I have asked maintenance to fix one quickly, but from my past experience, they may not be able to fix it in time for your meeting."
  - Bob sees Sam's comment. He creates another Book Room subtask with a comment:
    - "Mary, Wendy, please see if we can have our meeting in another building that has a room with a built-in projector."
  - Wendy finds such a room in an adjacent building and books it. She comments:
    - "I have booked room 102 in bldg B, which has a built-in projector".
  - Bob completes his workitem.
  - Secretary Jane sees Wendy's comment, and includes the location "Building B, Room 102" in her meeting invitations.

# Creating dynamic Process

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- Dynamic process can be created directly in console without process definition.
- Creating dynamic process creates an instance with one task
- Select "Create Dynamic Process" on "My Process" tab

# Creating Subtask

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- Subtasks can be added in task panel in BPM Console

# Creating Subtask

- Add Subtask information and "Create"

**New Subtasks**

| | Add a Subtask | Delete Selected | Create Subtasks |

1 New Subtasks found

*Click the cells below to edit; use TAB key to save values and navigate.*

| No. | ▲Task Name(*) | Assigned To(*) | Description | Due Date | Priority... | Comments | |
|-----|---------------|----------------|-------------|----------|-------------|----------|---|
| 1. | Find projector | Sam | find a projector fo... | Feb, 22 2012 | 5 | | |

- Subtask is created and assigned

**Subtasks**

Activity1

| | Abort |

1 Subtasks found

| Task Name | ID | State | Priority | Assignee(... | ▼Due Date | Date Complete... |
|-----------|-----|-------|----------|--------------|-----------|------------------|
| Find Projector | 30597 | ▶ Running | 5 | cuser1 | Feb, 22 2012 | |

- Parent Task is in "Waiting state

3Tasks found

| Activity Name | Id | Process Instance Nam... | ▼Created | Status | Due Date | Priority |
|---------------|-----|-------------------------|----------|--------|----------|----------|
| Activity1 | 30617 | GroupAssignments | Feb, 22 2012 | Waiting | | 8 |

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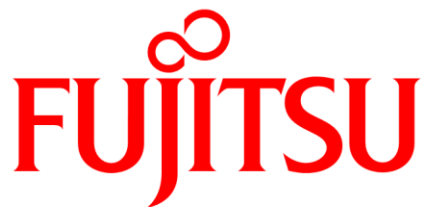
shaping tomorrow with you