Decision tree and business rules for importing and merging tasks and schedules, as embodied by -{APCScheduleImporter processTasksAndSchedules}. class: APCScheduleImporter method: -processSchedulesAndTasks The basic idea:

• we get a but not activatives from comewhere
• we get a but not activatives from comewhere
• we get a but not activate and activates according to our business rules
• at the end this bottom arrow from each bubble, we make a choice whether to
keep or delete the imported schedules, and terminate, delete, or ignore the
active schedules. 1. do all this stuff first 2. then do this Get new task and schedule data from some source Because of how Filters work, most of the logic in this diagram happens in about 10 lines of code — one line for each Filter below. process Normal computer-programming logic query CURRENTLY ACTIVE schedules data Data passed between processes An APCScheduleFilter, which takes a set of schedules as input and produces at least two sets of schedules as output: those which passed (made it through) the filter, and those which didn't. active schedules filter incoming tasks and schedules Yellow items represent decisions related to letting schedules from the server override schedules from our embedded JSON file (and not the other way around). filter for schedules with UNIQUE task IDs filter for schedules from THIS SOURCE (which launched this import process schedules with unique task IDs (first schedule found which happens to mention a given task ID) filter for schedules whose tasks have been REFRESHEI filter for schedules being OVERTAKEN by incoming schedules from server schedules from this source schedules from other sources (they were mentioned in this import) schedules being overtaken by server filter for schedules IDENTICAL to their incoming schedules schedules wit tasks not refreshed filter for schedules from the SAME SOURCE as the MOST RECENT SCHEDULE controlling their tasks filter schedules accord to WHEN they were downloaded filter for schedules trying to control ACTIVE tasks schedules from the same source schedules from a different source future (LATER than import date) future (LATER than import date) today (ON import date) today (ON import date) (EARLIER than import date) schedules trying to control no-longer-active-tasks today (ON import date future (LATER than import date schedules from the server schedules not from the server