Cs 462 lab 8 questions

1. Yes because any other collection just has to have a subscription to it. Implications are just that the sensor needs to check who it sends stuff to. The transaction role to make sure it is sending stuff to subscribed picos that care only.
2. By giving them a different type of role. So when you are asking picos to raise the event that they have finished generating the report you are only asking the picos who you want to receive a report from. The picos with a certain transaction role.
3. Because the timing of the event finish processing (the pico generating the report) and the event where the manager receives the report are asynchronous. One pico finishes and sends of the report to the manager while the others are still processing or some sort of interlacing of the sort.
4. By counting the number of subscriptions and if they equal the number of responded picos then the report is done.
5. I would just send off the report as is, with the missing picos report. But then fork another pico whose sole job is to keep asking that missing pico or picos for their report until they finish completing. If after some timer it or they do not respond I can just send a secondary type of report that the person in charge of the fleet of whatever should check on those devices whose picos are not responding.