The purpose of this document is to introduce a new Advance Dispense Routing (ADR) functionality that Pharmacy may be working with in regards to Automated Dispensing Units (ADUs), aka Pyxis, McKesson, and Omnicell Unit Based Cabinets. The changes and build are minimal, but will affect the way Cerner defaults in the “Dispense from Location” prompt in MedMgr.exe. We will first explore a current MedMgr.exe workflow display and then review the new changes ADR will bring. This document will also provide a high level overview of the hierarchy selection for the ADR build.

So, what is ADR? ADR is core logic built in Cerner that allows for multiple resources, Talyst Carousel and Pyxis ADU, to service a nursing unit. The logic side of ADR operates using a hierarchy that has been constructed for the nursing unit when an order is entered in MedMgr.exe by the pharmacy clinical staff. The logic will return the “Dispense from Location” that houses the product that is being ordered in its floorstock table. Suggested builds will always place the Pyxis ADU at the top of the hierarchy so that the product can be pulled from a floorstock location closest to the patient. With many facilities adding inventory control devices such as Talyst Carousel / McKesson Robot (which should be second in the hierarchy), there may be one more floorstock location to access before reaching the last resort default of Main Pharmacy. Here is what a non-ADR workflow looks like when an order is placed for a product in MedMgr.exe:
As you can see, the Dispense from location is blank in Fig 2. and a manual action is required in Fig 3.
Now let’s take a look at the new ADR workflow that will automate the “Dispense from Location” during the order entry process. When ordering the same product, notice how the “Dispense from Location” defaults to the Pyxis ADU servicing the nursing unit in Fig 4.

The logic looked to the ADR hierarchy for the nursing unit and returned the “Dispense from Location” that could fulfill the order. Now let’s see what would happen if the Pyxis ADU servicing the nursing unit does not stock the product being ordered. If the ADR is built correctly, the Talyst floorstock (second resource in the hierarchy location) will default into the “Dispense from Location.” See Fig 5.

Fig 5. Should you need to modify the “Dispense from Location” to the Main Pharmacy location, it can still be done by selecting the drop-down arrow and choosing the location.
Keeping the same functionality as before – if a location is manually selected and that location does not have the ordered product in the floorstock table, the error below will be generated.

I hope those tips and tricks for ADR implementation for ADUs was beneficial and worthwhile to read. For additional tips and tricks, or to learn more about maxIT-VCS' Cerner practice, please contact us at 610.444.1233, or visit maxIT-VCS.com.