

Conveyor Agent

Kitting Cell v0

Data	Messages	Scheduler	Actions
List<Kit> KitsOnConveyor	//From KitRobot NeedKit(){ NumKitsToDeliver++; }	//Default KS for Kit is //AwaitingPickup If $\exists k$ in KitsOnConveyor \in k.KS = AwaitingPickup call SendKit(k)	PrepareKit(){ Kit k = new Kit(); KitsOnConveyor.add(k); }
Int NumKitsToDeliver //Initially 0			MoveConveyor(){ DoMoveConveyor(); }
FCS fcs	//From KitRobot TakeKitAway(Kit k){ KitsOnConveyor.add(k) }	If $\exists k$ in KitsOnConveyor \in k.KS = Shipped call DeliverKit(k)	StopConveyor(){ DoStopConveyor(); }
KitRobot kitrobot		if(NumKitsToDeliver > 0) call PrepareKit	SendKit(Kit k){ NumKitsToDeliver--; kitrobot.HerelsKit(k); }
		if(KitsOnConveyor.size() > 0) call MoveConveyor(); else call StopConveyor();	DeliverKit(Kit k){ DoDeliverKit(k); }
			DoDeliverKit(Kit k){ //Animate //e.g., when it goes offscreen, get //rid of it }
			DoMoveConveyor(){ //Animate}
			DoStopConveyor(){ //Animate}