R53 Multiple Assigner DFDs

Leon Starr 2025-9-26/ v1.0.1 State name: NO TRANSFER

No actions

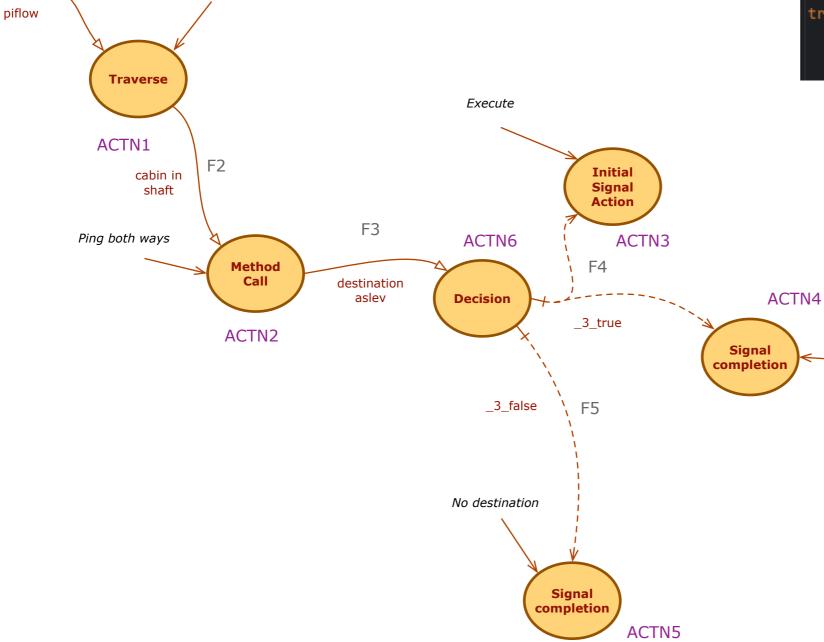
```
state NO TRANSFER
activity
    // Waiting for service request
transitions
    Service requested > Search for new destination
```

State name: Search for new destination

A9

F1

/R2/Cabin



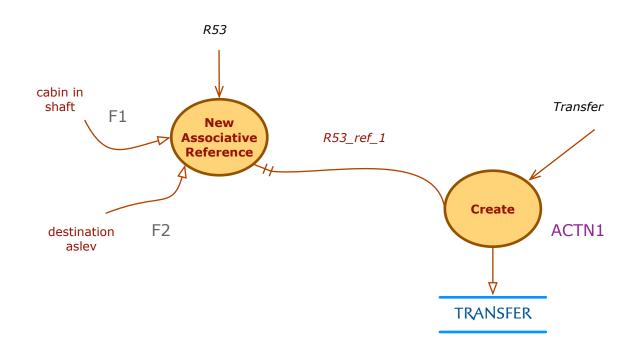
```
state Search for new destination
activity
   // The Cabin in this Shaft is stationary and has no Transfer
   cabin in shaft .= /R2/Cabin
   destination aslev .= cabin in shaft.Ping both ways()
   destination aslev? {
        Execute -> *Transfer &R53 cabin in shaft, destination aslev
        Transfer created -> me
   } : No destination -> me
transitions
   No destination > NO TRANSFER
   Transfer created > TRANSFER IN PROGRESS
```

Transfer created

Execute(cabin in shaft: Cabin, destination aslev: Accessible Shaft Level)

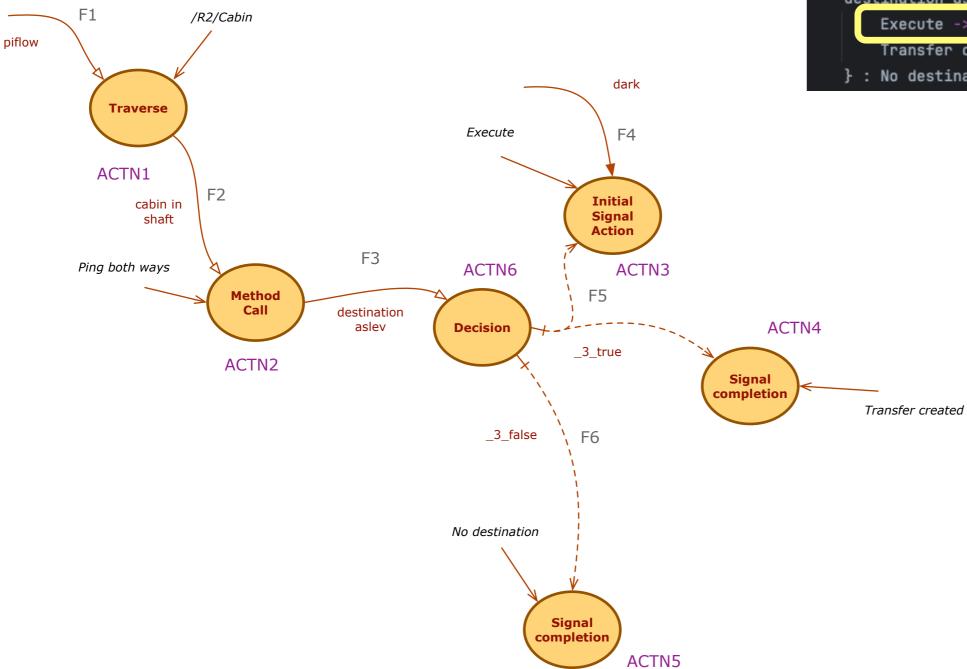
Delegated Creation Activity on Transfer

A38



A9

Added Tint/Color attributes to test setting of explicit and default scalar attribute values

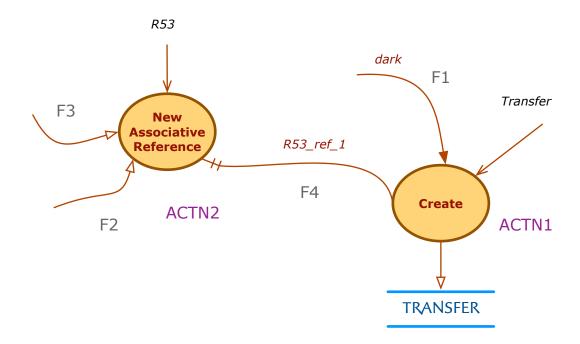


Delegated Creation Activity on Transfer

A37

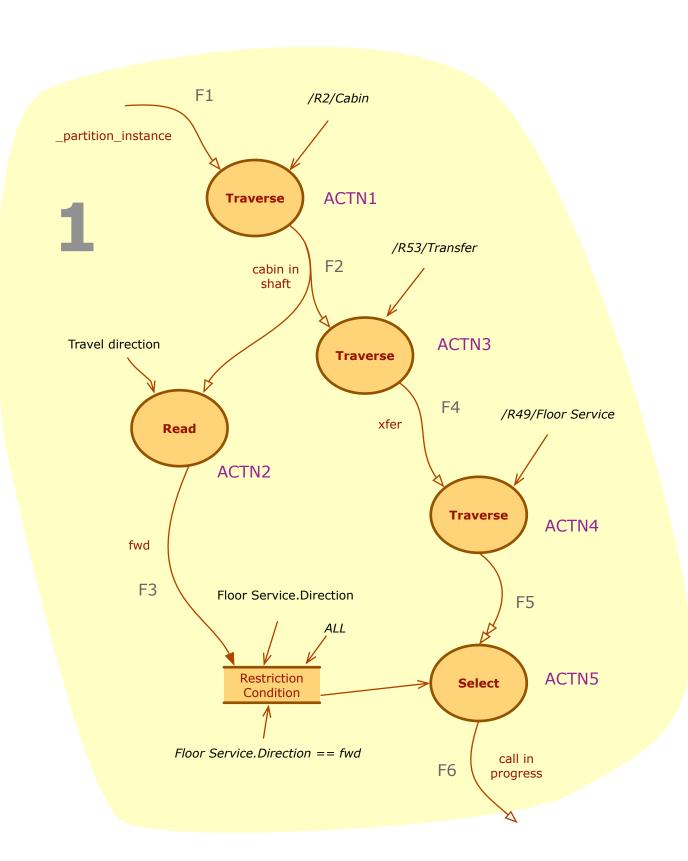
Added Tint/Color attributes to test setting of explicit and default scalar attribute values

cabin in shaft



destination aslev

A11



```
state Search for alternate destination
       activity
          cabin in shaft .= /R2/Cabin
          fwd = cabin in shaft.Travel direction
          xfer .= cabin in shaft/R53/Transfer
          call in progress .= xfer/R53/Accessible Shaft Level/R49/Floor Service( Direction: fwd )
        5 fwd dest .= cabin in shaft.Ping( dir: fwd )
       6 fwd dest? dest aslev .= fwd dest :
              !call in progress? {
                 // Search opposite the travel direction only if not servicing
                 // a floor request in the current direction
rev = fwd.opposite
                 rev dest .= cabin in shaft.Ping( dir: rev )
                 rev dest? cabin in shaft.Travel direction = rev
                 // may be empty
                 dest aslev .= rev dest
      7 dest aslev? {
              dest floor = dest aslev.Floor
              dest floor != xfer.Destination floor?
                 Dest change request( new dest: dest floor ) -> xfer
       8 Dest change evaluated -> me
```

