

Action DFD Sketches

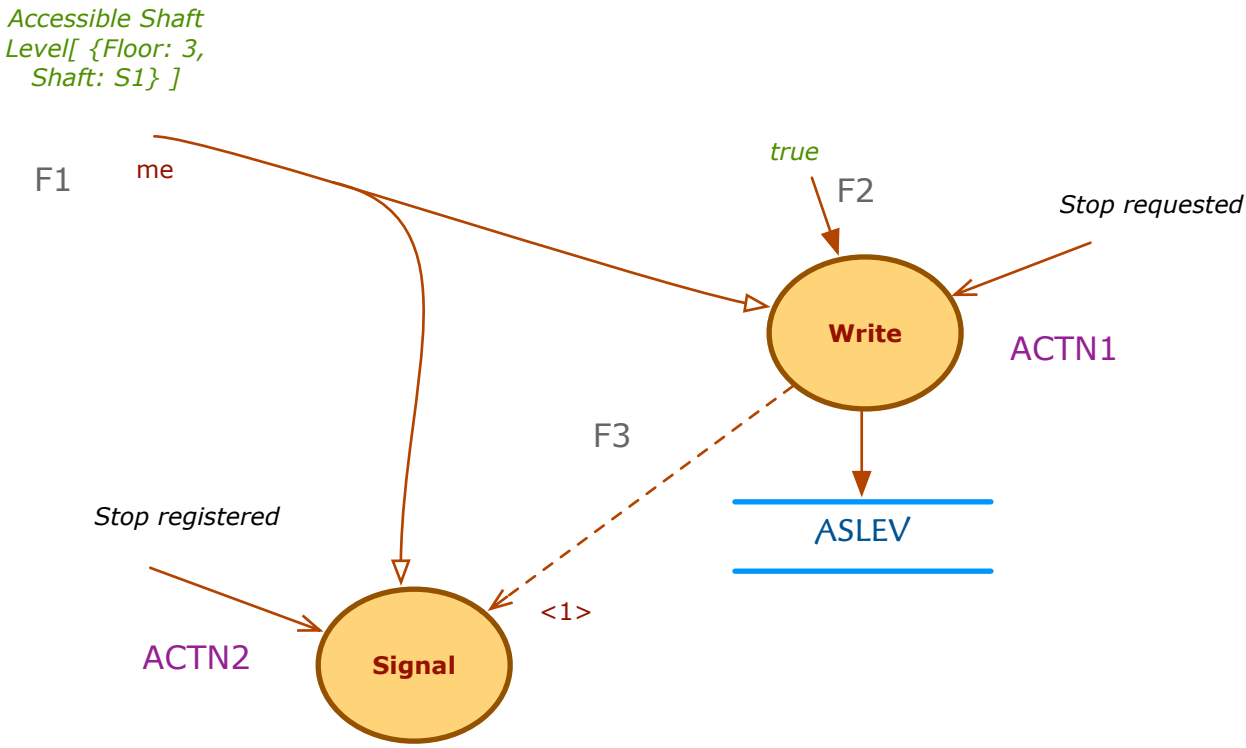
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```
state Registering stop
activity
  1 Stop requested = TRUE <1> // Can't dis
  2 <1> Stop registered -> me
transitions
  Stop registered > Requesting service
--
```

The problem with Stop requested.set is that we are implicitly writing the value of the Stop Requested attribute instead of merely applying a type operator.

We would have to know somehow that the .set operator does not require a scalar input, it always sets the value to true, regardless, and that an attribute write is required.

Instead, we need to clearly distinguish in the Scroll grammar, between the output of a type operator, which is always a single scalar flow and a write or an assignment

So, instead of Stop requested.set, we could do one of these:

```
Stop requested = true // keyword
Stop requested = Boolean[true] // Selector op
Stop requested = _yes // if Symbol type
```

Instead of saying Direction.toggle() for the purpose of changing the up value to down or vice versa, with the implied write, we do this instead:

```
Direction = Direction.toggle // operator based on current value
```

In the first case, we specify an assignment taking advantage of the true keyword. This approach only works for a boolean type.

Here we make the assignment explicit, and the toggle operator simply outputs _up or _down depending on the current value of Direction.

We could also use a symbolic selector Boolean[true], but the true keyword is shorthand for this anyway.

Here we do use the boolean name pair _up/_down mapped to true/false on the Boolean base type.

Or, we could use a Symbol Set type instead of boolean and define _yes, _no values. But this doesn't add any enlightenment from an analysis perspective.

Se could apply a boolean name pair to get the same effect, but we discard this approach for the same reason.