

## ma-single-pre-init-ma-single-pre-init-compatible<sup>0,22</sup>

$\forall a:\text{Id}, T:\text{Type}, ds:x:\text{Id} \text{ fp} \rightarrow \text{Type}, P:\text{Top}, \text{init}:x:\text{Id} \text{ fp} \rightarrow ds(x)?\text{Void}, a_1:\text{Id}, T_1:\text{Type},$   
 $d_1:x:\text{Id} \text{ fp} \rightarrow \text{Type}, P_1:\text{Top}, i_1:x:\text{Id} \text{ fp} \rightarrow d_1(x)?\text{Void}.$

$ds \parallel d_1$

$\Rightarrow \text{init} \parallel i_1$

$\Rightarrow \neg a = a_1$

$\Rightarrow$  (with ds:  $ds$  init:  $\text{init}$  action  $a:T$  precondition  $a(v)$  is  $P$   
 $\parallel+$  with ds:  $d_1$  init:  $i_1$  action  $a_1:T_1$  precondition  $a_1(v)$  is  $P_1$ )