

## R-Feasible<sup>11,40</sup>

```

R-Feasible{i:l}
  (R)
≡def es_realizer_ind(R;
  True;
  left,right,rec1,rec2. (rec1 ∧ rec2 ∧ R-compat{i:l}(left; right));
  loc,T,x,v.True;
  loc,T,x,L.normal-type{i:l}
    (T);
  lnk,tag,L.True;
  loc,ds,knd,T,x,f.((normal-ds{i:l}(ds) ∧ normal-type{i:l}(T))
  ∧ ((↑isrcv(knd)) ⇒ (loc = destination(lnk(knd)))));
  ds,knd,T,l,dt,g.(((↑isrcv(knd))
    ⇒ (((↑eq_lnk(lnk(knd); l))
      ⇒ (T = fpf-cap(dt; id-deq; tag(knd); void)))
    ∧ (destination(lnk(knd)) = source(l))))
  ∧ (normal-type{i:l}(T) ∧ normal-ds{i:l}(ds))
  ∧ normal-ds{i:l}
    (dt));
  loc,ds,a,T,P.normal-ds{i:l}
    (ds);
  loc,k,L.True;
  loc,k,L.True;
  loc,x,L.True)

```

*clarification:*

```

R-Feasible{i:l}
  (R)
≡def es_realizer_ind(R;
  True;
  left,right,rec1,rec2. (rec1 ∧ rec2 ∧ R-compat{i:l}(left; right));
  loc,T,x,v.True;
  loc,T,x,L.normal-type{i:l}
    (T);
  lnk,tag,L.True;
  loc,ds,knd,T,x,f.((normal-ds{i:l}(ds) ∧ normal-type{i:l}(T))
  ∧ ((↑isrcv(knd)) ⇒ (loc = destination(lnk(knd)) ∈ Id)));
  ds,knd,T,l,dt,g.(((↑isrcv(knd))
    ⇒ (((↑eq_lnk(lnk(knd); l))
      ⇒ (T
        =
        fpf-cap(dt; id-deq; tag(knd); void)

```

$$\begin{aligned}
& \in \text{Type}\{\text{i}\})) \\
& \wedge (\text{destination}(\text{lnk}(knd)) = \text{source}(l) \in \text{Id})) \\
& \wedge (\text{normal-type}\{\text{i:l}\}(T) \wedge \text{normal-ds}\{\text{i:l}\}(ds)) \\
& \wedge \text{normal-ds}\{\text{i:l}\} \\
& \quad (dt)); \\
& loc, ds, a, T, P. \text{normal-ds}\{\text{i:l}\} \\
& \quad (ds); \\
& loc, k, L. \text{True}; \\
& loc, k, L. \text{True}; \\
& loc, x, L. \text{True})
\end{aligned}$$