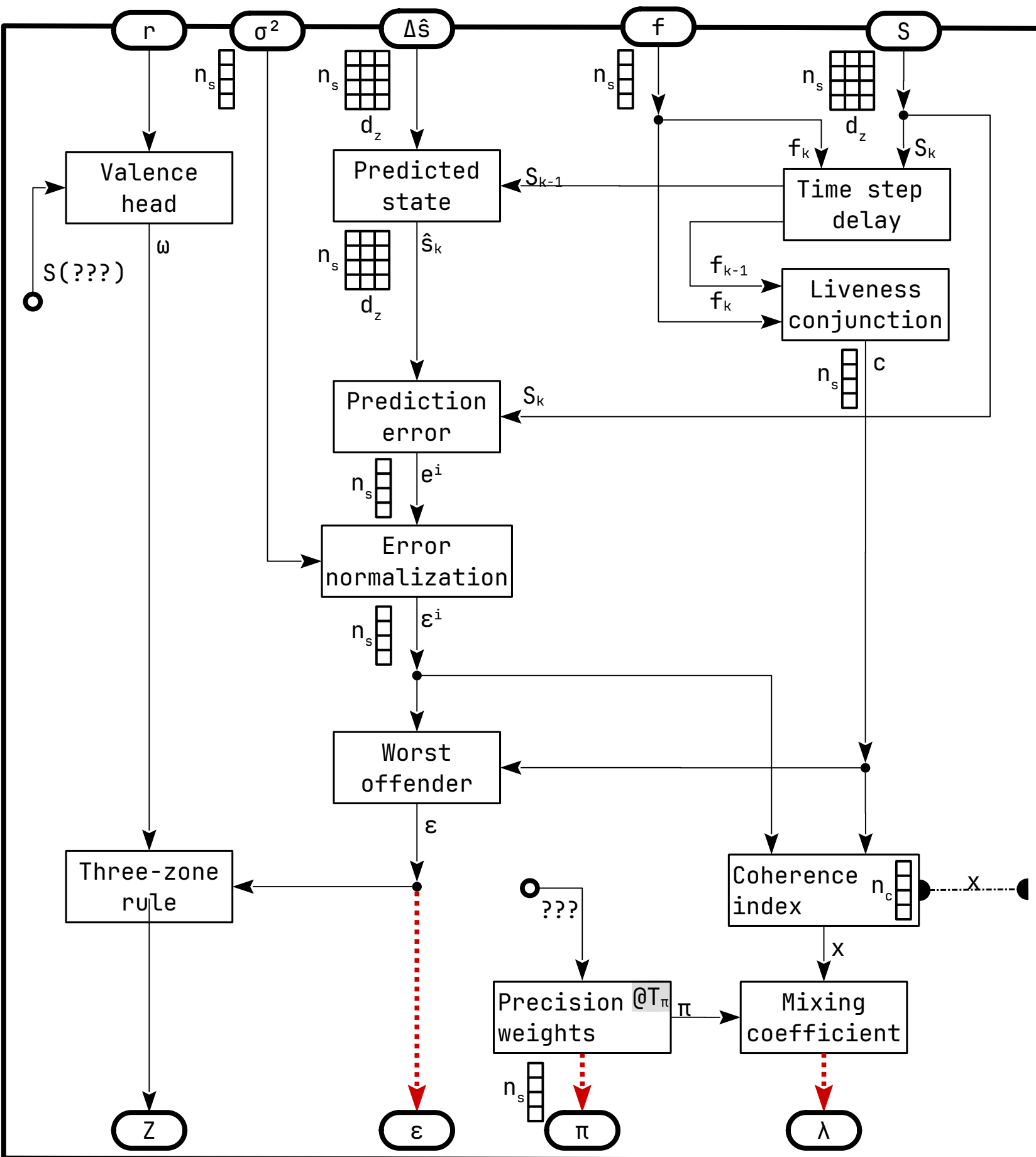


Layer 5 internal structure



Sizes

d_z : slot width
 n_c : coherence window length
 n_s : slot count

Periods

T_s : base sample period
 $T_{L1}=p_{L1}T_s$: Layer 1 time step
 $T_\pi=p_\pi T_s$: precision weights update period

p_{L1} , p_π integers, >0

Symbols

c : liveness conjunction
 e : prediction error
 f : slot existence mask
 r : reward signal (valence training target)
 S : slot matrix
 Z : behavioral mode
 $\Delta\hat{S}$: forward model T per-call mean
 ϵ^i : normalized error
 ϵ : worst offender, i.e., maximum of ϵ^i
 λ : Layer 3 mixing coefficient
 π : precision weights
 ω : predicted valence
 σ^2 : forward model T per-call variance
 x : coherence index

Implementation details

A slot enters the error chain only if live at both $k-1$ and k .

$\Delta\hat{S}$ and σ^2 are computed by the forward model T at each step from the retained pair.

Indices k , $k-1$ appear only where the time step delay relationship is drawn and all other labels are single-instant.

All blocks update at T_{L1} except those tagged with a gray $@T$.