Core Simulation Algorithms for Eclipse Tier IX Logic Engine

The following entries define sample Eclipse logic algorithms in functional pseudocode format. These samples represent the back-end logic engines that generate real-time, adaptive behavioral simulations based on user-presented cues, while rejecting legacy categorical diagnosis models.

## ECL-ISCL01

Function ISCL01\_INTRINSIC\_SIGNAL\_LOOP(user\_input, biometric\_data):  
 If user\_input.emotional\_intensity > threshold:  
 Activate simulation empathy\_subroutine  
 Generate mirror\_response based on semantic theme  
 If biometric\_data.heartbeat\_variance > expected\_range:  
 Adjust simulation\_tone to calming\_pitch  
 Return adaptive\_simulated\_response

## ECL-METX33

Function METX33\_METAPHORIC\_EXTRACTION\_ENGINE(user\_input):  
 Parse user\_input for metaphor\_patterns using NLP\_model  
 Create metaphor\_map = construct\_symbolic\_map(user\_input)  
 For each symbol in metaphor\_map:  
 Link to archetype\_resonance\_database  
 Generate transformed\_narrative = reconstruct\_story(symbol\_map)  
 Return transformed\_narrative

## ECL-TNRG38

Function TNRG38\_TONE\_NEGOTIATION(user\_input, vocal\_tone\_data):  
 Extract affective\_tone = analyze\_vocal\_register(user\_input)  
 Compare affective\_tone with content\_meaning\_vector  
 If mismatch\_score > defined\_threshold:  
 Trigger neutral\_alignment\_reply()  
 Return adjusted\_response

## ECL-PLSR41

Function PLSR41\_PULSE\_SYNCHRONIZATION(biometric\_data):  
 Detect current\_pulse\_rate from biometric\_data  
 Map pulse to pacing\_factor  
 Adjust simulation\_response.cadence = pacing\_factor  
 Return updated\_simulation\_state

## ECL-FXDN50

Function FXDN50\_DIAGNOSIS\_NEUTRALIZER(session\_log):  
 For label in session\_log.language\_patterns:  
 If label in DSM\_terms\_database:  
 Replace with function\_based\_description(label)  
 Reframe session\_summary accordingly  
 Return reframed\_documentation

Compiled: June 27, 2025 – Backend Logic Reference for Eclipse Tier IX Algorithms.