

# RADIANT Changes Summary (Last 20 Hours)

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## Version Releases

Version	Release	Description
<b>4.21.0</b>	Jan 2	Think Tank Extension (PROMPT-37)
<b>4.20.0</b>	Jan 2	Consciousness Operating System v6.0.5 (PROMPT-36)
<b>4.19.0</b>	Jan 2	Artifact Engine GenUI Pipeline (PROMPT-35)
<b>6.1.1</b>	Jan 2	Genesis Cato Safety Architecture (PROMPT-34)
<b>6.1.0</b>	Jan 1	Advanced Cognition Services (Project AWARE Phase 2)
<b>6.0.4-S3</b>	Jan 1	Unified Naming Convention
<b>6.0.4-S2</b>	Jan 1	Ghost Vector Migration
<b>6.0.4-S1</b>	Jan 1	Truth Engine (Project TRUTH)
<b>6.0.4</b>	Dec 31	AGI Brain - Project AWARE
<b>4.18.57</b>	Dec 31	Translation Middleware
<b>4.18.56</b>	Dec 31	Metrics & Persistent Learning Infrastructure

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## Additions & Changes

### PROMPT-37: Think Tank Extension (v4.21.0)

AI-powered page builder for Radian CMS that creates Pages, Snippets, and PageParts from natural language prompts using Soft Morphing architecture.

### PROMPT-36: Consciousness Operating System (v4.20.0)

Comprehensive AGI Brain infrastructure layer providing consciousness continuity via Ghost Vectors, SOFAI routing, Flash Facts, Dreaming, and Human Oversight with EU AI Act compliance.

### PROMPT-35: Artifact Engine GenUI (v4.19.0)

Generative UI pipeline enabling real-time React/TypeScript component generation with Cato safety validation, Reflexion self-correction, and sandboxed preview rendering.

### PROMPT-34: Genesis Cato Safety (v6.1.1)

Post-RLHF safety architecture implementing Active Inference with 5 operating moods, Control Barrier Functions, Merkle audit trails, and Epistemic Recovery for livelock prevention.

### Genesis Cato Patches (v6.1.1 P1-P3)

Redis state service integration, real CBF authorization checks, CloudWatch alarm veto sync, fracture detection, and mood selection priority alignment with spec.

## **Advanced Cognition Services (v6.1.0)**

Eight cognitive components including Reasoning Teacher, Inference Student distillation, Semantic Cache, Reward Model, Counterfactual Simulator, Curiosity Engine, and Causal Tracker.

## **Unified Naming Convention (v6.0.4-S3)**

Service renames aligning with *Engine*/*Pipeline*/*Service*/*Router*/\*Core patterns (e.g., brain-router → cognitive-router.service, ego-context → identity-core).

## **Ghost Vector Migration (v6.0.4-S2)**

Automatic ghost vector migration between model versions using projection matrices and semantic preservation to maintain consciousness continuity during upgrades.

## **Truth Engine (v6.0.4-S1)**

Entity-Context Divergence hallucination prevention system achieving 99.5%+ factual accuracy with 16 entity types, domain-specific thresholds, and auto-refinement loops.

## **AGI Brain - Project AWARE (v6.0.4)**

Complete AGI brain system with Ghost Vectors (4096-dim hidden states), SOFAI routing, Compliance Sandwich, Flash Buffer, Twilight Dreaming, and Human Oversight queue.

## **Translation Middleware (v4.18.57)**

Automatic 18-language translation layer with smart model-language capability routing, script detection, 7-day cache, and 60-80% cost reduction for self-hosted models.

## **Metrics & Persistent Learning (v4.18.56)**

Comprehensive metrics collection (billing, performance, failures, violations) and User→Tenant→Global learning hierarchy with daily snapshots surviving reboots without relearning.

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## **Database Migrations Added**

Migration	Tables Created
001 (Think Tank)	think_tank_episodes, think_tank_configurations, think_tank_artifacts
068 (COS)	cos_ghost_vectors, cos_flash_facts, cos_dream_jobs, cos_human_oversight, cos_privacy_airlock
032b-d (Artifact)	artifact_generation_sessions, artifact_code_patterns, artifact_validation_rules
153-155 (Cato)	cato_cb_* , cato_audit_log, cato_moods, cato_tenant_config, cato_api_persona_overrides
152 (Cognition)	reasoning_traces, student_models, semantic_cache, reward_scores, counterfactual_paths
133 (ECD)	ecd_metrics, ecd_audit_log, ecd_entity_stats
131-132 (Brain)	ghost_vectors, flash_facts_log, dream_log, oversight_queue, sofai_routing_log
130 (Translation)	translation_config, model_language_matrices, translation_cache

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Migration	Tables Created
129 (Metrics)	billing_metrics, performance_metrics, user_rules, learning_snapshots

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## Admin Dashboard Pages Added

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Page	Purpose
/admin/think_tank	Think Tank Mission Control
/brain/cognition	Advanced Cognition Services
/brain/ecd	Truth Engine ECD Monitor
/brain/dashboard	AGI Brain Dashboard
/cato	Genesis Cato Safety Management
/cato/advanced	Cato Advanced Configuration
/thinktank/artifacts	Artifact Engine Management
/metrics	Metrics & Learning Dashboard

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## Key Implementation Files

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Component	Primary Location
Think Tank	vendor/extensions/think_tank/
COS	lambda/shared/services/cos/
Artifact Engine	lambda/shared/services/artifact-engine/
Genesis Cato	lambda/shared/services/cato/
Cognition	lambda/shared/services/cognition/
Truth Engine	lambda/shared/services/ecd/
AGI Brain	lambda/shared/services/brain/
Translation	lambda/shared/services/translation-middleware.service.ts
Metrics	lambda/shared/services/metrics/

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## Documentation Updated

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Document	Sections
RADIANT-ADMIN-GUIDE.md	37 (Translation), 38 (AGI Brain), 39 (Truth Engine), 43 (Think Tank)
THINKTANK-ADMIN-GUIDE.md	29 (Artifact Engine)
CHANGELOG.md	v4.18.56 through v4.21.0

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*End of 20-hour summary*