Contents

RADIANT Changes Summary (Last 20 Hours)

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Version Releases

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

Additions & Changes

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

AI-powered page builder for Radiant 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.

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_cbf_*, 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
129 (Metrics)	billing_metrics, performance_metrics, user_rules, learning_snapshots

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Admin Dashboard Pages Added

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

Page	Purpose
/cato/advanced	Cato Advanced Configuration
/thinktank/artifacts	Artifact Engine Management
/metrics	Metrics & Learning Dashboard

Key Implementation Files

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/

Documentation Updated

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

End of 20-hour summary