

PHASE 2 COMPREHENSIVE REPORT • V5.0

The Dash: Phase 2 — Multi-Gated AI Orchestrator

NornGate-Powered AI Platform Expansion for Executive Leadership

00 Document Control

Document Title	The Dash: Phase 2 — Multi-Gated AI Orchestrator
Document Type	Commercial — Pre-Sale Overview
Version	6.0
Date	August 1, 2026
Author(s)	Frank Yglesias, CTO — Ledger Hub Network
Prepared For	Spanish Broadcast System (SBS) Richard D. Lara, COO Alexandra Del Rey, HR Manager Nelson Santos, IT Director
Classification	Confidential — Strategic Overview
Status	Final

01 Executive Summary

Spanish Broadcasting System (SBS) is deploying Phase 2 of **The Dash** — our NornGate-powered AI platform. **Phase 1 of The Dash — our NornGate-powered AI platform — is scheduled for completion during the week of August 24–28, 2026.** Upon completion, it will establish the foundational control plane, the five-gate security pipeline, and the initial agent fleet. **Phase 2 begins with the integration of eight legacy systems into The Dash.** Only after these systems are readable, writable, and governed by the five-gate pipeline will Phase 2 deploy its complete two-tier agent ecosystem to operationalize AI across our three critical business departments: **Sales, Finance, and Traffic.**

However, a critical gap threatens the integrity of this transformation: LaMusica, our digital streaming and app platform, is currently a closed department with zero operational insight, no integration access, and no visibility into The Dash. This is not a minor omission. LaMusica represents the future growth vector of SBS. Operating Phase 2 without it creates a blind spot in our data, a fracture in our governance, and a competitive disadvantage as we expand globally.

This report outlines the strategic objectives, technical architecture, operational workflows, governance framework, and resource requirements for Phase 2 — **including a dedicated plan to close the LaMusica gap.**

Key Phase 2 Commitments:

- Full integration of The Dash with WideOrbit, MusicMaster, SIMS, Oracle, ADP, SAP, VCreative, and CPT
- **Legacy system interconnectivity established BEFORE Sales, Finance, and Traffic silos are deployed**
- Deployment of all 16 NornGate control agents across operational realms
- Deployment of department-specific AI agents for Sales, Finance, and Traffic that operate within the NornGate governance boundary
- Automation of executive reporting, approval routing, and cross-functional handoffs
- Zero-trust, deterministic governance for every AI-mediated action
- Operational readiness for global expansion beyond USA, PR, and LatAm

Critical Gap Requiring Executive Action:

- **LaMusica Integration Discovery** — Executive engagement required to open the department for assessment, API audit, and phased agent integration

02 SBS Context & Phase 1 Status

2.1 Organizational Profile

SBS is the leading Hispanic media company in the United States, with operations spanning:

- **Radio:** 100+ stations across major U.S. markets, Puerto Rico, and Latin America
- **Television:** SBS-owned and affiliated TV properties
- **Digital:** LaMusica app, streaming platforms, and digital ad inventory (*closed department — critical gap*)
- **Global Expansion:** Active growth into new international markets

2.2 The Legacy Systems Landscape

Our IT infrastructure is maintained by a single IT Director (Nelson Santos) who serves as the sole maintainer of nine mission-critical legacy systems. **Eight of these systems are accessible for Phase 2 integration. LaMusica is the ninth — currently closed, unmapped, and ungoverned by The Dash. This is a critical gap.**

System	Function	Criticality	Phase 2 Integration	Risk Level
WideOrbit	Traffic & billing management for broadcast	Revenue-critical	Yes	Low
MusicMaster	Music scheduling and playlist management	Content-critical	Yes	Low
SIMS	Sales inventory management	Revenue-critical	Yes	Low
Oracle	Enterprise financial database	Compliance-critical	Yes	Low
ADP	Payroll and HR administration	Compliance-critical	Yes	Low
SAP	Enterprise resource planning	Operations-critical	Yes	Low
VCreative	Creative workflow and production	Content-critical	Yes	Low
CPT	Custom production tracking	Operations-critical	Yes	Low
LaMusica	Digital streaming and app platform	Growth-critical	No — closed department	CRITICAL

The LaMusica Gap:

- No API documentation available to IT
- No data flows into executive reporting
- No governance, audit, or compliance coverage via The Dash
- Digital revenue streams invisible to Finance automation (Frigg/Saga)
- Digital audience data unavailable to Sales forecasting (Njord)

- Digital playlists uncoordinated with broadcast schedules (Baldr/Höðr)
- **If LaMusica generates an increasing share of SBS revenue, our AI platform will be flying blind on our fastest-growing business unit.**

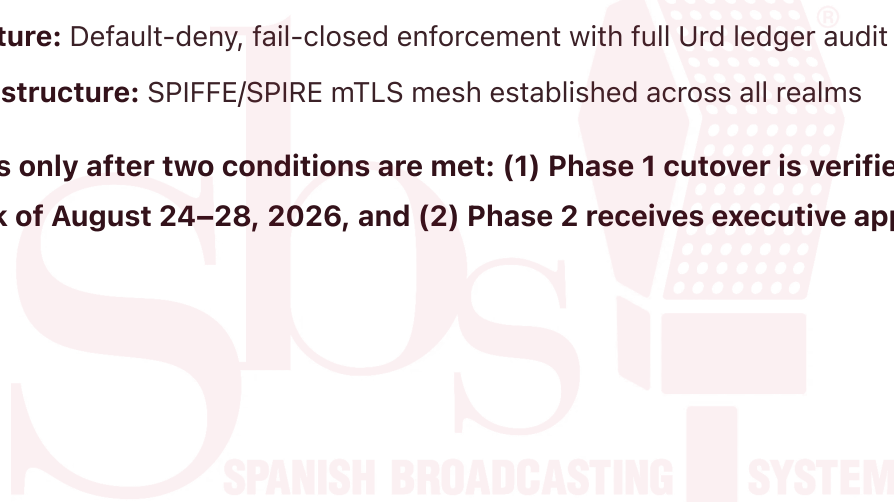
Constraint: These systems have no native AI interfaces. Phase 2 must bridge this gap without disrupting 24/7 broadcast operations.

2.3 Phase 1 Status — Completion Target: August 24–28, 2026

Phase 1 is currently in final deployment. Upon completion, the following capabilities will be operational:

- **NornGate Runtime:** The five-gate pipeline (G0 Ingress → G4 Commit) active
- **The Dash Portal:** Operational with Kimi (via OpenRouter) as the primary reasoning layer
- **Initial Agent Fleet:** Core control agents (Óðinn, Heimdall, Týr) operational in Asgard realm
- **Security Posture:** Default-deny, fail-closed enforcement with full Urd ledger audit trail
- **Identity Infrastructure:** SPIFFE/SPIRE mTLS mesh established across all realms

Phase 2 deploys only after two conditions are met: (1) Phase 1 cutover is verified and signed off during the week of August 24–28, 2026, and (2) Phase 2 receives executive approval.



03 Phase 2 Strategic Objectives

3.1 Primary Objectives

#	Objective	Business Impact	Success Criteria
1	Automate Executive Reporting	Reduce report assembly time by 80%; eliminate data reconciliation errors	All recurring board/executive reports auto-assembled from Oracle, SAP, WideOrbit, and SIMS
2	Streamline Approval Routing	Reduce approval cycle time from days to hours; eliminate lost requests	100% of IT-related approvals route through The Dash with full audit trail
3	Enable Cross-Functional Handoffs	Reduce implementation review delays by 60%; improve UAT throughput	Sales→Traffic→Finance handoffs automated with agent-coordinated checkpoints
4	Legacy System Modernization	Extend useful life of legacy systems by 5+ years; avoid replacement costs	All 8 accessible systems integrated via secure API gateways or RPA bridges
5	Global Expansion Readiness	Enable rapid market entry without proportional headcount growth	Multi-language, multi-currency, multi-regulatory agent capabilities deployed
6	Operational Resilience	Eliminate single-person dependency for IT maintenance	Knowledge encoded in agents; cross-training via The Dash interface
7	Close the LaMusica Gap	Unify digital and broadcast operations under single governance plane	LaMusica API discovery complete; integration roadmap approved; digital revenue visible to Finance

3.2 Strategic Alignment

Phase 2 directly supports SBS's corporate strategy:

- **Revenue Growth:** Faster sales cycles, real-time inventory optimization, dynamic pricing
- **Margin Improvement:** Reduced manual processing, fewer errors, optimized resource allocation
- **Risk Mitigation:** Deterministic governance, immutable audit trails, fail-closed security
- **Scalability:** Agent-based operations scale without linear headcount growth
- **Digital Unification:** Closing the LaMusica gap ensures our fastest-growing channel is not our least visible one

04 The Dash / NornGate Platform Architecture

4.1 Core Philosophy: The Runtime Is the Product

NornGate does not resell AI tokens. It sells **verified outcomes**. Every consequential action an agent attempts must clear a five-gate pipeline before any side effect occurs. This is deterministic, fail-closed, and fully audited.

"Silence means no." If any gate cannot explicitly approve an action, the action stops. Default-deny is the ground state.

4.2 The Five-Gate Pipeline

Agent Request → G0 Ingress (authN) → G1 Policy (ABAC/RBAC) → G2 Approval (consent) → G3 Sandbox (dry-run) → G4 Commit (arbitrate) → Side Effect (billable)

Gate	Function	SBS Application
G0 • Ingress	Authenticate agent identity, rate limits, network allowlists	Ensures only authorized SBS agents access WideOrbit/SAP APIs
G1 • Policy	Evaluate ABAC/RBAC rules against agent role and resource	Enforces department boundaries (Sales agents cannot modify payroll)
G2 • Approval	Human or automated consent for high-risk actions	IT Director sign-off for system changes; auto-approval for routine reports
G3 • Sandbox	Isolated dry-run with no permanent side effects	Test MusicMaster schedule changes before live deployment
G4 • Commit	Conflict resolution, final commit, ledger recording	Prevents double-booking of ad inventory; records billable outcome

4.3 The Nine Worlds (Trust Zones)

SBS operations map to NornGate realms as follows:

Realm	SBS Function	Trust Posture
Asgard	The Dash control plane, policy engine	Highest trust; no agent code; full audit
Vanaheim	External integrations (advertisers, agencies, partners)	Federated trust; OAuth2/OIDC
Alfheim	LaMusica edge/CDN, low-latency streaming (<i>currently ungoverned — critical gap</i>)	Stateless; high-throughput; minimal logging
Midgard	User-facing services (The Dash UI, executive dashboards)	PII encrypted; human interaction tier
Jotunheim	Untrusted execution (third-party scrapers, experimental agents)	Sandboxed; zero standing credentials
Muspelheim	AI training, batch inference, large report generation	GPU quota-fenced; separate billing
Niflheim	Cold storage: broadcast logs, financial archives, compliance records	Immutable after write
Svartalfheim	CI/CD for The Dash, build pipelines	Secrets vaulted; controlled deployments
Hel	Dead-letter queue: failed transactions, pending approvals	Recovery and triage
Valhalla	Completed jobs archive: golden datasets, baseline reports	Mostly read-only; training source

Critical Gap Alert: Alfheim is provisioned for LaMusica edge/CDN but is currently **ungoverned** — no agents, no policy enforcement, no Urd ledger coverage. This means LaMusica operations occur outside the five-gate pipeline entirely.

4.4 The Three Norns: Observability

- **Urd (What Was):** Immutable audit ledger. Every gate verdict recorded. Ed25519-signed hash chain. The ledger *is* the audit trail for compliance.
- **Verdandi (What Is):** Live metrics and telemetry via Prometheus/Grafana. Real-time dashboard of agent activity, gate transit rates, and system health.
- **Skuld (What Shall Be):** Forecasting and anomaly detection. Predicts approval bottlenecks, rate exhaustion, and agent drift before they impact operations.

Urd Gap: Because LaMusica is closed, no digital transactions, no streaming metrics, and no app user events are recorded in Urd. This creates a **compliance blind spot** that auditors will flag.

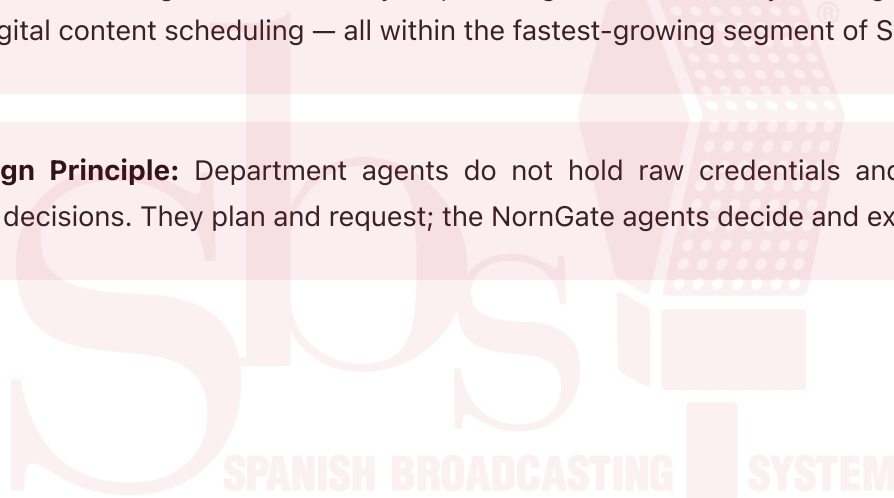
05 The Complete Agent Ecosystem: 16 NornGate Agents + Department AI Agents

Phase 2 deploys a two-tier agent architecture:

- **Tier 1 — NornGate Control Agents (16):** The governance, security, audit, and execution infrastructure. These agents enforce the five-gate pipeline, manage identity, arbitrate conflicts, and maintain the system of record.
- **Tier 2 — Department Business Agents (12):** Sales, Finance, and Traffic each deploy 4 specialized AI agents that perform business functions. These agents are **clients** of the NornGate runtime — every action they attempt is intercepted, governed, and audited by the Tier 1 agents.

Critical Gap: No department agents are deployed for LaMusica. This means no digital revenue forecasting, no streaming audience analytics, no digital ad inventory management, and no automated digital content scheduling — all within the fastest-growing segment of SBS.

Critical Design Principle: Department agents do not hold raw credentials and do not make authorization decisions. They plan and request; the NornGate agents decide and execute.



5.1 Tier 1 — The 16 NornGate Control Agents

#	Agent	Function	Gate/Plane	SBS Operational Role
1	Óðinn	Strategic Planner	G2 Deliberation	Executive decision support; board report synthesis; market expansion planning
2	Huginn	Data Retrieval	Read Plane	Queries Oracle, SAP, SIMS, WideOrbit for real-time business intelligence
3	Muninn	Memory & Context	Read Plane	Maintains institutional knowledge across departments; encodes Nelson Santos's system expertise
4	Thor	Idempotent Executor	G4 Commit	Executes approved changes to legacy systems; safe retry on failure
5	Heimdall	Ingress Guardian	G0	Monitors all API access to legacy systems; alerts on unauthorized attempts
6	Týr	Policy Enforcer	G1	Enforces SBS policies: Change Management, SDLC, data access rules
7	Forseti	Conflict Arbitrator	G4	Resolves double-booking conflicts in ad inventory; mediates cross-department resource disputes
8	Loki	Chaos/Red Team	Out-of-band	Scheduled fault injection to test resilience; penetration testing of agent boundaries
9	Iðunn	Model Lifecycle	Control Plane	Manages AI model updates, canary deployments, drift detection for The Dash
10	Hermóðr	DLQ Recovery	Hel	Processes failed transactions from legacy system integrations; rides into Hel to retrieve what can be saved
11	Valkyries	Task Dispatch	Scheduler	Routes work orders to appropriate agents; manages worker pool for Sales, Finance, Traffic queues
12	Bragi	Content Generation	Bounded Role	Generates long-form content: sales proposals, financial narratives, board presentations
13	Ratatoskr	Event Bus	All Realms	Carries messages (including failures and denials) between agents and systems; Kafka-based; 7-day retention
14	Preprocessor	Input Sanitization	G0/G1	Cleans and validates data from legacy systems before agent processing; schema enforcement
15	Agent Registry	Discovery & Catalog	Control Plane	Maintains agent cards, capability definitions, and version control for all 16 agents
16	Kimi (via OpenRouter)	Reasoning Layer	G2/G3	Primary LLM reasoning engine; operates under deliberation budget and token cap constraints

5.2 Tier 2 — Department Business Agents

Each department deploys 4 specialized agents that operate as **workloads within Midgard**, making requests through the NornGate five-gate pipeline. They inherit G0–G4 enforcement transparently by being on the mesh.

5.2.1 SALES DEPARTMENT AGENTS (Realm: Midgard — Sales Subdomain)

Agent	Function	Primary Legacy Systems	NornGate Interactions
Aegir	Pipeline & Prospecting	SIMS, Oracle CRM	Requests Huginn for lead data → Preprocessor validates → Týr enforces data access policy → Thor commits SIMS updates
Freyja	Ad Inventory & Pricing	WideOrbit, SIMS	Requests real-time inventory from Huginn → Forseti arbitrates conflicts → Thor commits bookings → Urd records transaction
Skadi	Client Relations & Proposals	VCreative, Oracle CRM	Requests Bragi for proposal generation → Óðinn reviews strategic alignment → Thor commits to VCreative → Ratatoskr notifies client
Njord	Revenue Forecasting	Oracle, SAP, WideOrbit	Requests Huginn for historical data → Kimi performs trend analysis → Óðinn validates assumptions → Bragi generates forecast report

LaMusica Gap Impact on Sales: Njord's revenue forecasting is **incomplete** because digital streaming revenue, digital ad inventory, and app subscription data from LaMusica are not available. This means:

- Forecasts underweight digital growth trends
- Sales proposals miss digital bundling opportunities
- Client cross-sell recommendations lack streaming audience data

Sales Agent Workflow Example — New Ad Booking:

1. **Skadi** receives client request via The Dash UI (Midgard)
2. **Skadi** requests inventory check → **Huginn** queries WideOrbit through G0–G1
3. **Freyja** evaluates pricing strategy using Kimi reasoning (G2 deliberation budget)
4. **Forseti** arbitrates if inventory conflict detected (G4)
5. **Thor** commits booking to WideOrbit + SIMS (G4 verified outcome)
6. **Bragi** generates insertion order and client confirmation
7. **Ratatoskr** broadcasts booking to Traffic department agents
8. **Urd** records full chain: Skadi request → Huginn read → Forseti arbitrate → Thor commit

5.2.2 FINANCE DEPARTMENT AGENTS (Realm: Midgard — Finance Subdomain)

Agent	Function	Primary Legacy Systems	NornGate Interactions
Frigg	Financial Reconciliation	Oracle, SAP, WideOrbit, ADP	Requests Huginn for multi-system data → Preprocessor normalizes → Týr enforces segregation of duties → Thor commits reconciled entries
Fulla	Payroll Compliance	ADP, Oracle	Requests Huginn for payroll data → Týr validates compliance rules → G2 approval if anomalies → Thor commits ADP updates
Saga	Budget Variance Analysis	Oracle, SAP	Requests Huginn for actuals vs. budget → Kimi analyzes variances → Óðinn flags material items → Bragi generates variance report
Eir	Audit Trail & Compliance	Oracle, Niflheim	Queries Urd ledger for transaction provenance → Generates auditor-ready evidence packages → Týr verifies policy adherence

LaMusica Gap Impact on Finance: Frigg's reconciliation and Saga's variance analysis are **materially incomplete** because LaMusica digital revenue, digital ad spend, and app store transactions are not captured. This means:

- Monthly close may miss material digital revenue adjustments
- Budget vs. actual reports show unexplained variances in digital line items
- External auditors will flag the lack of digital transaction provenance in Urd

Finance Agent Workflow Example — Monthly Close:

1. **Frigg** initiates close sequence
2. **Frigg** requests Huginn pull from Oracle, SAP, WideOrbit, ADP
3. **Preprocessor** normalizes 4 disparate schemas into unified close format
4. **Týr** enforces: no Sales agent can modify GL entries (G1 ABAC)
5. **Frigg** detects variance in WideOrbit vs. Oracle
6. **Saga** requests Kimi analysis → identifies unbilled spot as root cause
7. **G2 Approval** triggered (material variance threshold) → routed to Finance VP
8. Upon approval, **Thor** commits adjusting entry to Oracle
9. **Eir** packages Urd ledger evidence for external auditor
10. **Bragi** generates final board financial summary

5.2.3 TRAFFIC DEPARTMENT AGENTS (Realm: Midgard — Traffic Subdomain)

Agent	Function	Primary Legacy Systems	NornGate Interactions
Baldr	Schedule Optimization	MusicMaster, WideOrbit	Requests Huginn for rotation rules → Iðunn checks for drift → Thor commits schedule changes → Heimdall monitors for unauthorized mods
Höðr	Playlist Rotation	MusicMaster	Requests Huginn for playlist data → G3 Sandbox tests rotation impact → Thor commits to MusicMaster
Vidar	Production Workflow	CPT, VCreative	Requests Huginn for production status → Valkyries dispatches tasks to crew → Thor updates CPT milestones
Ullr	Broadcast Compliance	WideOrbit, MusicMaster	Requests Huginn for as-run logs → Týr validates FCC/content rules → Eir packages compliance evidence

LaMusica Gap Impact on Traffic: Baldr and Höðr manage broadcast playlists only. Digital streaming playlists on LaMusica are **invisible and uncoordinated**, meaning:

- Broadcast and digital playlists may conflict or duplicate content
- Cross-platform audience retention strategies cannot be automated
- Music rotation analytics are split across two disconnected systems

Traffic Agent Workflow Example — Schedule Change:

1. **Baldr** detects ratings decline in 3pm slot; requests schedule optimization
2. **Baldr** requests Huginn for 90-day ratings + MusicMaster rotation data
3. **Kimi** (via Óðinn deliberation) proposes new music rotation strategy
4. **Iðunn** checks proposed rotation against MusicMaster rule drift
5. **Höðr** requests G3 Sandbox test of new playlist → validates no format violations
6. **G2 Approval** triggered (prime-time schedule change) → Traffic Director approves
7. **Thor** commits new schedule to MusicMaster
8. **Heimdall** monitors for unauthorized playlist modifications post-commit
9. **Ullr** validates as-run logs against FCC requirements
10. **Ratatoskr** notifies Sales of inventory implications from schedule change

5.3 Cross-Department Agent Interactions

SBS THE DASH — AGENT TOPOLOGY

ASGARD • CONTROL PLANE

Highest trust · no agent code · full audit

Óðinn Planner	Týr Policy	Íðunn Lifecycle	Agent Registry Discovery	Kimi Reasoning
-------------------------	----------------------	---------------------------	------------------------------------	--------------------------

MIDGARD • SALES

Realm: sales subdomain

Aegir Pipeline	Freyja Inventory	Skadi Client	Njord Forecast
--------------------------	----------------------------	------------------------	--------------------------

MIDGARD • FINANCE

Realm: finance subdomain

Frigg Reconcile	Fulla Payroll	Saga Budget	Eir Audit
---------------------------	-------------------------	-----------------------	---------------------

MIDGARD • TRAFFIC

Realm: traffic subdomain

Baldr Schedule	Höðr Playlist	Vidar Production	Ullr Compliance
--------------------------	-------------------------	----------------------------	---------------------------

▼ every department request transits ▼

THE FIVE-GATE PIPELINE

G0 Ingress	G1 Policy	G2 Approval	G3 Sandbox	G4 Commit
----------------------	---------------------	-----------------------	----------------------	---------------------


READ / EXECUTE PLANE

Credentialed execution · no agent holds keys

Huginn Retrieve	Muninn Memory	Thor Execute	Forseti Arbitrate	Hermóðr DLQ
Heimdall Ingress	Preprocessor Sanitize	Bragi Generate	Valkyries Dispatch	

ALL REALMS • OBSERVABILITY

Event bus and the three Norns

Ratatoskr Event bus	Urd Ledger — past	Verdandi Metrics — present	Skuld Forecast — future
-------------------------------	-----------------------------	--------------------------------------	-----------------------------------

ALFHEIM • CRITICAL GAP

Ungoverned — no agents, no gates, no Urd, no policy

LaMusica Digital streaming	— none — No Heimdall	— none — No Týr
--------------------------------------	--------------------------------	---------------------------

JOTUNHEIM • OUT-OF-BAND

Sandboxed adversarial testing

Loki
Chaos / red team

5.4 Agent Deployment Matrix by Realm

Phase 2 deploys in two waves: Interconnectivity Layer first, then Department Silos.

Wave 1 — Interconnectivity Layer (Foundation)

Realm	Agents Deployed	Function
Asgard	Óðinn, Týr, Iðunn, Agent Registry, Kimi	Control plane; policy engine; reasoning layer
Midgard — Executive	Heimdall (ingress), Preprocessor	Human-facing portal; input sanitization
Vanaheim	Heimdall (federated ingress)	External partner API gateway
Niflheim	Urd (ledger persistence)	Audit trail cold storage
Svartalfheim	Iðunn (CI/CD), Thor (deployment)	Secret vault; deployment pipeline
Hel	Hermóðr (DLQ recovery), Muninn (failure memory)	Failed transaction recovery
Valhalla	Urd (read-only archive), Iðunn (baseline datasets)	Completed jobs archive
Cross-Realm	Huginn, Muninn, Thor, Ratatoskr	Data retrieval; memory; execution; event bus

Wave 2 — Department Silos (Dependent on Wave 1)

Realm	Agents Deployed	Dependency on Wave 1
Midgard — Sales	Aegir, Freyja, Skadi, Njord	Requires Huginn read + Thor write to SIMS, WideOrbit, VCreative, Oracle CRM
Midgard — Finance	Frigg, Fulla, Saga, Eir	Requires Huginn read + Thor write to Oracle, SAP, ADP, WideOrbit
Midgard — Traffic	Baldr, Höðr, Vidar, Ullr	Requires Huginn read + Thor write to MusicMaster, CPT, WideOrbit
Muspelheim	Kimi (batch inference), Bragi (batch gen), Njord (training), Saga (models)	Requires validated data pipelines from Wave 1

Ungoverned / Critical Gap

Realm	Status	Note
Alfheim	CRITICAL GAP	LaMusica ungoverned; no agents; no integration
Jotunheim	Gated	Experimental agents sandboxed

Total Active Agents in Phase 2: 28 (16 NornGate control + 12 department business)

Deployment Rule: No Wave 2 silo agent is provisioned until its Wave 1 data pipes are validated. Aegir cannot prospect if Huginn cannot read SIMS. Frigg cannot reconcile if Thor cannot write Oracle. Baldr cannot schedule if Iðunn cannot check MusicMaster drift.

5.5 Identity and Security Boundaries

Every agent — control or department — receives a **SPIFFE ID** from SPIRE:®

```
spiffe://sbs.com/midgard/sales/aegir      # Sales pipeline agent
spiffe://sbs.com/midgard/finance/frigg   # Finance reconciliation agent
spiffe://sbs.com/midgard/traffic/baldr   # Traffic schedule agent
spiffe://sbs.com/asgard/odin             # Strategic planner (highest trust)
spiffe://sbs.com/alfheim/lamusica/???    # UNASSIGNED – no identity issued
```

G1 Policy Enforcement by Department:

- Sales agents (**spiffe://sbs.com/midgard/sales/***) → READ/WRITE on SIMS, WideOrbit, VCreative; READ-ONLY on Oracle CRM
- Finance agents (**spiffe://sbs.com/midgard/finance/***) → READ/WRITE on Oracle, SAP, ADP; READ-ONLY on WideOrbit; NO ACCESS on SIMS pricing
- Traffic agents (**spiffe://sbs.com/midgard/traffic/***) → READ/WRITE on MusicMaster, CPT, WideOrbit traffic logs; READ-ONLY on SIMS inventory
- **LaMusica agents: NO SPIFFE IDs ISSUED** — the department is not yet in the trust mesh

Credential Starvation: Department agents never hold API keys. All credentials live in Svartalfheim vault. Thor injects them only at G4 commit, after all gates clear. **LaMusica API keys, if they exist, are held outside the vault — ungoverned and unaudited.**

06 Operational Workflow Integration

6.1 Sales Department

Current State: Manual pipeline tracking in SIMS; ad inventory managed in WideOrbit; proposals created in VCreative.

Phase 2 Target State:

- **Aegir** automates lead scoring and pipeline progression in SIMS
- **Freyja** manages real-time inventory with dynamic pricing from WideOrbit
- **Skadi** generates personalized proposals via Bragi, using client history from Oracle CRM
- **Njord** produces revenue forecasts using Kimi trend analysis
- **Valkyries** dispatches insertion orders to Traffic department upon client approval
- **Forseti** prevents double-booking via G4 arbitration
- **Thor** commits final bookings to WideOrbit and updates SIMS automatically

Interconnectivity Dependency: Aegir, Freyja, Skadi, and Njord cannot operate until Huginn has validated read access to SIMS, WideOrbit, VCreative, and Oracle CRM, and Thor has validated write access to SIMS and WideOrbit. These data pipes are established in Wave 1 (Interconnectivity Layer) before any Sales silo agent is deployed.

LaMusica Gap in Sales: Njord's revenue forecasting **excludes digital streaming revenue** because LaMusica data is unavailable. This means:

- Board reports understate total SBS revenue by the digital portion
- Sales strategies miss digital bundling and cross-sell opportunities
- Client proposals cannot include streaming audience guarantees

Impact: Sales cycle reduction of 40%; proposal generation time from 4 hours to 15 minutes. **But digital sales remain manual and ungoverned.**

6.2 Finance Department

Current State: Monthly close reliant on manual reconciliation between Oracle, SAP, ADP, and WideOrbit; reports assembled via email and spreadsheets.

Phase 2 Target State:

- **Frigg** auto-collects financial data from all four systems nightly via Huginn
- **Preprocessor** reconciles discrepancies using encoded business rules

- **Saga** requests Kimi analysis for variance detection; Óðinn flags material items
- **Fulla** manages payroll compliance with automated ADP validation
- **Eir** packages Urd ledger evidence for external auditors
- **Bragi** generates executive summary with variance analysis
- **Týr** ensures SOX compliance and segregation of duties

Interconnectivity Dependency: Frigg, Fulla, Saga, and Eir cannot operate until Huginn has validated read access to Oracle, SAP, ADP, and WideOrbit, and Thor has validated write access to Oracle and ADP. These data pipes are established in Wave 1 (Interconnectivity Layer) before any Finance silo agent is deployed.

LaMusica Gap in Finance: Frigg's reconciliation and Saga's variance analysis are **materially incomplete** because LaMusica digital revenue, digital ad spend, and app store transactions are not captured. This means:

- Monthly close may miss material digital revenue adjustments
- Budget vs. actual reports show unexplained variances in digital line items
- External auditors will flag the lack of digital transaction provenance in Urd
- **Compliance risk:** If digital revenue exceeds materiality thresholds, the absence of Urd coverage is an audit finding

Impact: Monthly close from 10 days to 3 days; reconciliation errors near zero. **But digital financials remain outside the audit trail.**

6.3 Traffic Department

Current State: MusicMaster schedules manually reviewed; WideOrbit traffic logs reconciled daily; CPT tracks production workflows via email.

Phase 2 Target State:

- **Baldr** monitors ratings and optimizes MusicMaster schedules
- **Iðunn** checks MusicMaster rotation rules for drift
- **Höðr** applies approved playlist changes with G3 sandbox validation
- **Vidar** tracks production workflows in CPT with automated milestone updates
- **Ullr** validates as-run logs against FCC and content policies
- **Hermóðr** recovers failed automation runs from Hel (DLQ)
- **Ratatoskr** broadcasts schedule changes to all affected systems in real-time
- **Heimdall** monitors for unauthorized playlist modifications

LaMusica Gap in Traffic: Baldr and Höðr manage broadcast playlists only. Digital streaming playlists on LaMusica are **invisible and uncoordinated**, meaning:

- Broadcast and digital playlists may conflict or duplicate content
- Cross-platform audience retention strategies cannot be automated
- Music rotation analytics are split across two disconnected systems
- **Operational risk:** A song overplayed on broadcast and underplayed on digital (or vice versa) damages audience engagement

Impact: Schedule accuracy to 99.99%; production workflow visibility in real-time. **But digital content scheduling remains manual and disconnected.**

6.4 IT Office (Nelson Santos)

Current State: Single point of maintenance for all 9 legacy systems; all IT decisions require personal sign-off; policies distributed via email.

Phase 2 Target State:

- **Muninn** encodes Nelson's system expertise into retrievable agent memory
- **Týr** enforces Change and Patch Management Policy + SDLC Policy automatically
- **G2 Approval** routes high-risk changes to Nelson; auto-approves routine patches
- **Skuld** predicts system maintenance needs before failure
- **Loki** tests disaster recovery via scheduled Ragnarök drills
- **Eir** provides auditor-ready compliance evidence without manual assembly

LaMusica Gap in IT: Nelson Santos is the sole maintainer of all 9 systems, including LaMusica. However, **LaMusica maintenance activities are not governed by The Dash**, meaning:

- Changes to LaMusica infrastructure have no G3 sandbox testing
- No Urd ledger records LaMusica system changes
- If Nelson makes an emergency fix to LaMusica, there is no audit trail
- **Operational risk:** A LaMusica outage has no automated recovery path via Hermóðr

Impact: IT decision throughput increases 3x; Nelson's time shifts from maintenance to strategy. **But LaMusica maintenance remains a manual, ungoverned burden.**

07 Legacy System Integration Strategy

7.1 Integration Patterns

System	Integration Pattern	Control Agents	Department Agents	Realm	Status
WideOrbit	API Gateway + RPA Bridge	Thor (execution), Huginn (read), Forseti (arbitrate)	Freyja (inventory), Baldr (traffic), Frigg (revenue)	Midgard	Planned
MusicMaster	File-based ETL + API	Thor (schedule commits), Iðunn (drift), Heimdall (monitor)	Baldr (optimization), Höðr (playlist)	Midgard	Planned
SIMS	Direct API	Thor (update), Huginn (read)	Aegir (pipeline), Freyja (inventory), Skadi (client data)	Midgard	Planned
Oracle	Read replica + API	Huginn (financials), Týr (compliance), Thor (GL commits)	Frigg (reconcile), Saga (variance), Njord (forecast)	Niflheim (archive)	Planned
ADP	Secure API via Vanaheim	Huginn (payroll data), Thor (updates via G2), Týr (compliance)	Fulla (payroll), Frigg (reconcile)	Vanaheim	Planned
SAP	API + Message queue	Huginn (operations), Thor (procurement)	Frigg (operations), Saga (budget)	Midgard	Planned
VCreative	API + Webhook	Bragi (content), Thor (asset commit)	Skadi (proposals), Vidar (production assets)	Midgard	Planned
CPT	File-based + API	Thor (production tracking)	Vidar (workflow), Ullr (compliance tracking)	Midgard	Planned
LaMusica	UNKNOWN	NONE	NONE	Alfheim	CRITICAL GAP

7.2 The LaMusica Gap — Detailed Risk Assessment

Risk Category	Specific Risk	Business Impact	Likelihood	Severity
Revenue Visibility	Digital revenue not in executive reports	Board makes decisions based on incomplete financial picture	High	Critical
Compliance	Digital transactions absent from Urd ledger	Audit findings; potential SOX/GAAP violations	High	Critical
Operational	Broadcast and digital playlists uncoordinated	Audience churn; missed cross-platform opportunities	Medium	High
Security	LaMusica API keys held outside Svartalfheim vault	Credential exposure; unauthorized access undetected	Medium	Critical
Strategic	Global expansion digital strategy lacks AI support	Competitors with unified platforms outpace SBS	High	Critical
Talent	Nelson Santos maintains LaMusica manually without agent support	Burnout; single point of failure on growth-critical system	High	High

7.3 Security Considerations

- **No raw credentials in agents:** All API keys stored in Svartalfheim vault; injected at G4 commit only
- **SPIFFE identity:** Each agent presents short-lived SVID; legacy systems see only the gateway identity
- **G3 Sandbox:** All write operations to legacy systems dry-run first in isolated environment
- **Urd Ledger:** Every legacy system mutation recorded with full provenance, including which department agent initiated the request and which NornGate agent executed it
- **LaMusica Exception:** Because LaMusica is closed, **none of the above apply**. Its credentials, changes, and transactions are invisible to The Dash.

08 Governance, Risk & Compliance

8.1 Policy Framework

SBS policies owned by IT and enforced by The Dash:

Policy	Enforcing Agent	Gate	Automation Level
Change and Patch Management	Týr	G1/G2	Auto-approve routine patches; G2 human approval for production changes
SDLC Policy	Týr + Iðunn	G1/G3	Automated code review gates; sandbox testing required
Data Access Policy	Týr + Heimdall	G0/G1	Role-based access; PII encryption mandatory in Midgard
Financial Controls	Týr + Forseti	G2/G4	Segregation of duties enforced; material changes require dual approval
Cross-Department Data Sharing	Týr + Ratatoskr	G1	Sales agents cannot read payroll; Finance cannot modify playlists
Closed Department Governance	Týr + Heimdall	G0/G1	LaMusica is flagged as ungoverned; all access attempts logged as gap events

8.2 Risk Mitigation

Risk	Mitigation	Agent/Control
Single point of failure (Nelson Santos)	Knowledge encoded in Muninn; cross-training via The Dash	Muninn, Valkyries
Legacy system disruption	G3 Sandbox prevents bad commits; G4 arbitration prevents conflicts	Thor, Forseti, G3/G4
AI hallucination / bad action	Agents plan; gates decide. No ungated side effect possible.	G1 Policy, G3 Sandbox
Unauthorized data access	Default-deny ABAC; mTLS everywhere; no raw credentials	Heimdall, Týr, G0/G1
Compliance audit failure	Urd ledger = immutable audit trail; every action provable	Urd, Eir
Vendor lock-in (OpenRouter/Kimi)	Framework-agnostic design; models swappable via Iðunn lifecycle	Iðunn, Agent Registry
Department agent compromise	Zero standing credentials; G1 restricts blast radius; Heimdall detects anomalous request patterns	Heimdall, Týr, G0/G1
LaMusica governance gap	Executive engagement to open department; dedicated discovery sprint; phased integration roadmap	Óðinn (strategic assessment), Týr (policy framework), Heimdall (future ingress)

8.3 Approval Routing

All IT-related decisions require Nelson Santos's sign-off. In Phase 2:

- **Routine decisions** (patch approvals, report generation, user provisioning): Auto-approved via G1 policy, recorded in Urd
- **High-risk decisions** (system architecture changes, vendor switches, security policy updates): G2 approval queue to Nelson with full context package (Óðinn summary + Huginn data + Týr risk assessment)
- **Department-initiated changes** (schedule updates, inventory bookings, payroll runs): Auto-approved if within policy; escalated to G2 if outside ABAC rules
- **LaMusica access requests**: Logged as gap events in Urd; routed to The Dash Governance Committee for executive resolution; **not auto-denied, but flagged as critical**
- **Emergency decisions**: Graded degraded mode allows pre-authorized actions under cached policy; full retrospective review required within 24 hours

09 Implementation Approach

9.1 Phase 2 Deployment Sequence

Phase 2 proceeds in logical stages following Phase 1 cutover verification. **The foundational rule: legacy system interconnectivity must be established before any Sales, Finance, or Traffic silo agents are deployed.** Department agents cannot function without readable, writable, governed connections to the systems they orchestrate.

Stage	Focus	Deliverables	Agents Deployed
Foundation — Interconnectivity Layer	Legacy API gateways; data connectors; schema mapping; policy encoding; realm provisioning	Secure, governed connectivity to all 8 legacy systems; ABAC rules active; Huginn read access validated across Oracle, SAP, WideOrbit, SIMS, ADP, MusicMaster, VCreative, CPT	Preprocessor, Ratatoskr, Heimdall (per-dept), Huginn, Muninn, Týr
Core Automation — Cross-Silo Services	Executive reporting; ad inventory arbitration; monthly close acceleration; Urd ledger validation	Auto-assembled board reports; real-time inventory governance; validated audit trail	Óðinn, Bragi, Forseti, Thor
Operational Scale — Department Silos	ONLY after interconnectivity is proven: Sales, Finance, Traffic department agents deployed	End-to-end workflow coverage for all three departments; each silo inherits pre-validated data pipes	Aegir, Frigg, Baldr, Freyja, Skadi, Njord, Fulla, Saga, Eir, Höðr, Vidar, Ullr
Resilience & Scale	Valkyries dispatch; DLQ recovery; Ragnarök drills; global expansion readiness	Validated disaster recovery; proven fail-closed behavior; full agent fleet operational	Valkyries, Hermóðr, Iðunn, Loki, Skuld

Interconnectivity-First Principle: No department silo agent (Aegir, Frigg, Baldr, etc.) is deployed until Huginn can successfully read from, and Thor can successfully write to, every legacy system that agent depends on. The integration layer is the foundation; the silos are the structure built on top.

9.2 LaMusica Gap Closure — Parallel Track

This is not optional. It runs parallel to Phase 2 core deployment.

Phase	Action	Owner	Deliverable
Discovery	Executive engagement with LaMusica leadership; API audit; data mapping	The Dash Governance Committee	LaMusica integration assessment report
Assessment	Technical feasibility study; security posture review; compliance gap analysis	Platform Engineering + Legal	Go/no-go recommendation with risk matrix
Planning	Integration architecture; agent design for digital operations; Alfheim provisioning	AI/ML Engineering + Program Management	LaMusica integration plan
Pilot	Deploy Heimdall (ingress) + Huginn (read-only) to Alfheim; test data flows	Platform Engineering	Validated read-only digital telemetry
Integration	Deploy digital department agents; full five-gate coverage	Full engineering team	LaMusica governed by The Dash

9.3 Proposed LaMusica Department Agents (Upon Gap Closure)

Upon gap closure, the following agents would be deployed to Alfheim/Midgard:

Agent	Function	Primary Systems	NornGate Interactions
Ran	Digital Audience Analytics	LaMusica app, streaming backend	Requests Huginn for streaming metrics → Preprocessor normalizes → Týr enforces privacy policy → Urd records
Rán	Digital Ad Inventory	LaMusica ad server, programmatic platforms	Requests Forseti for inventory arbitration → Thor commits ad placements → Ratatoskr notifies Sales
Sif	Digital Content Scheduling	LaMusica CMS, streaming playlist engine	Requests Iðunn for content drift detection → G3 Sandbox tests schedule → Thor commits playlist
Sigyn	Digital Revenue Reconciliation	LaMusica payment gateway, app store APIs	Requests Huginn for digital revenue data → Frigg incorporates into monthly close → Eir audits

9.4 Critical Path

Phase 2 deploys only after: (1) Phase 1 completion (Aug 24–28), and (2) executive approval.

Phase A — Interconnectivity Layer (Must complete before Silos)

- Aug 24–28:** Phase 1 cutover — verify NornGate runtime, The Dash portal, and core agent operations
- Provision Midgard sub-realms** for Sales, Finance, Traffic
- Establish legacy system API gateways** — WideOrbit, MusicMaster, SIMS, Oracle, ADP, SAP, VCreative, CPT
- Deploy Huginn data connectors** — validate read access to all 8 legacy systems
- Encode SBS policies** (Change Management, SDLC) into G1 ABAC rules
- Validate Thor write paths** — confirm G3 sandbox + G4 commit to each legacy system

7. **Validate Urd ledger** — confirm every test read/write is immutably recorded

Phase B — Department Silos (Deploy only after Interconnectivity Layer is proven)

1. **Deploy Sales silo:** Aegir, Freyja, Skadi, Njord (inherit pre-validated SIMS, WideOrbit, VCreative, Oracle CRM pipes)
2. **Deploy Finance silo:** Frigg, Fulla, Saga, Eir (inherit pre-validated Oracle, SAP, ADP, WideOrbit pipes)
3. **Deploy Traffic silo:** Baldr, Höðr, Vidar, Ullr (inherit pre-validated MusicMaster, CPT, WideOrbit pipes)
4. **Activate cross-silo automation:** Valkyries dispatch, Ratatoskr broadcast, Forseti arbitration

Phase C — Resilience & Gap Closure

1. **Ragnarök drills** — validate fail-closed behavior under load
2. **LaMusica Discovery Sprint** — executive engagement, API audit, data mapping (parallel track)
3. **LaMusica Assessment** — technical feasibility, security review, compliance analysis
4. **LaMusica Planning + Pilot** — architecture design, read-only telemetry, Alfheim provisioning



10 Resource Requirements

10.1 Personnel

Role	Responsibility
Nelson Santos (IT Director)	Strategic oversight; G2 approval for high-risk actions; policy ownership
The Dash Program Manager	Roadmap execution; cross-functional coordination; vendor management
AI/ML Engineer	Agent development (control + department); model tuning; integration architecture
Platform Engineer	NornGate infrastructure; realm management; security hardening; SPIFFE mesh
Legacy System Integrator	API gateway development; RPA bridge construction; data mapping for 8 accessible systems
Data Analyst	Report validation; anomaly review; business rule encoding; Urd ledger verification
Department Liaisons	Sales, Finance, Traffic subject matter experts to train department agents
LaMusica Liaison	Engage LaMusica leadership; facilitate API discovery; map digital workflows — to be scoped

10.2 Infrastructure

Component	Specification
NornGate Runtime	Kubernetes cluster (Asgard/Midgard/Jotunheim)
GPU Pool (Muspelheim)	GPU instances for model inference (Kimi, Njord, Saga models)
Legacy API Gateways	Secure reverse proxies + RPA licenses (8 systems)
Observability Stack	Prometheus, Grafana, Kafka (Urd), OpenTelemetry
Security (HSM, Vault)	Hardware security modules for Urd signing keys
OpenRouter / Kimi	Token consumption via outcome-based billing
NornGate Licensing	Per-outcome billing (G4-verified)
Department Agent Compute	Additional Midgard pods for 12 department agents
LaMusica Discovery	To be determined based on API audit scope and vendor assessment

Budget Note: All monetary figures require vendor quotes, scope definition, and executive approval. No financial commitments are established in this report.

11 Success Metrics & KPIs

11.1 Operational KPIs

Metric	Baseline (Pre-Dash)	Phase 2 Target	Measurement
Executive Report Assembly Time	16 hours (manual)	2 hours (automated)	Urd ledger timestamps
Approval Cycle Time	3-5 days	< 4 hours	G2 transit time in Urd
Cross-Functional Handoff Time	2-3 days	< 2 hours	Valkyries dispatch metrics
Monthly Close Duration	10 days	3 days	Oracle/SAP close timestamps
Ad Inventory Conflicts	5-10/month	0/month	Forseti arbitration records
Legacy System Downtime	2 hours/month	< 15 minutes/month	Heimdall health checks
Agent Gate Transit Rate	N/A (new)	> 95% automated (G0-G1)	Verdandi metrics
G2 Human Approval Rate	N/A	< 5% of total actions	Urd ledger analysis
Department Agent Uptime	N/A	> 99.9%	Verdandi pod health
Cross-Department Request Volume	N/A	> 10K/day	Ratatoskr topic throughput
LaMusica Gap Events Logged	N/A	> 0 (discovery phase)	Urd gap event records

11.2 Strategic KPIs

Metric	Phase 2 Target
Global Market Readiness	New market operational setup in < 30 days
IT Decision Throughput	3x increase without headcount growth
Audit Findings	Zero material findings; 100% Urd traceability
System Knowledge Decentralization	80% of Nelson's tacit knowledge encoded in Muninn
AI Governance Maturity	SOC 2 Type II; ISO 27001 aligned via deterministic controls
Department Agent Coverage	100% of Sales, Finance, Traffic workflows have agent support
LaMusica Gap Closure	Discovery complete; assessment approved; integration roadmap funded

12 Recommendations

12.1 Immediate Actions

1. **Approve Phase 2 core deployment** and authorize headcount for Program Manager, Platform Engineers, and Department Liaisons. **LaMusica discovery staffing to be scoped separately following assessment.**
2. **Establish The Dash Governance Committee** — Nelson Santos (chair), Sales VP, Finance VP, Traffic Director, Legal Counsel, **plus LaMusica representative**
3. **Conduct legacy system API audit** — identify which of the 8 accessible systems have existing APIs vs. require RPA bridges
4. **Schedule Phase 1 cutover readiness review** with go/no-go criteria for Phase 2 launch
5. **Define department agent naming and SPIFFE ID scheme** — establish sbs.com/midgard/{dept}/{agent} identity standard
6. **Initiate LaMusica Discovery Sprint** — executive mandate to open the department for API audit, data mapping, and integration assessment

12.2 Strategic Decisions Required

1. **Global Expansion Protocol:** Should new markets inherit the full 10-realm model, or begin with a reduced Midgard-only deployment?
2. **Data Residency:** For EU/LatAm expansion, do we need additional Niflheim realms in-region for compliance?
3. **Vendor Diversification:** Should we maintain OpenRouter/Kimi as primary, or pilot alternative models via Iðunn's lifecycle management?
4. **Human-in-the-Loop Threshold:** What is the materiality threshold for G2 human approval? (Recommended: >\$10K financial impact or >100K audience reach)
5. **Department Agent Autonomy:** How much local decision-making should department agents have before requiring NornGate escalation? (Recommended: Routine operations auto-approved; cross-department or material impact escalated)
6. **LaMusica Integration Priority: Should LaMusica gap closure be treated as a Phase 2 blocker or a parallel track?** (Recommended: Parallel track with dedicated resources; not a blocker to core deployment, but not deferrable indefinitely)

12.3 Long-Term Vision (Phase 3 Preview)

- **Autonomous Operations:** Department agents self-heal routine failures without human intervention
- **Predictive Business Intelligence:** Skuld forecasts market trends and recommends strategic pivots via Njord/Saga

- **Federated SBS Ecosystem:** Partner stations and advertisers connect via Vanaheim with negotiated trust
- **Continuous Compliance:** Real-time regulatory alignment via automated policy updates enforced by Týr
- **Agent Marketplace:** Department agents from acquired stations plug into The Dash via standardized Agent Registry
- **LaMusica Full Integration:** Ran, Rán, Sif, and Sigyn operational in Alfheim; digital and broadcast unified under single governance plane



13 Conclusion

Phase 2 of The Dash transforms SBS from a media company preparing to use AI into an **AI-native media organization**. The NornGate platform provides the deterministic, fail-closed governance required to operate AI at enterprise scale without sacrificing control. The 16 NornGate control agents enforce this governance, while 12 department business agents operationalize it across Sales, Finance, and Traffic — our three critical departments.

But this transformation is incomplete while LaMusica remains outside the governance boundary.

LaMusica is not a peripheral system. It is the digital growth engine of SBS. Operating it as a closed, ungoverned department while the rest of the organization moves to deterministic AI governance creates:

- A **compliance blind spot** that auditors will find
- A **strategic blind spot** that competitors will exploit
- An **operational fracture** between broadcast and digital
- A **talent burden** on Nelson Santos that agents could relieve

The LaMusica gap is not a boundary to respect. It is a gap to close.

The two-tier architecture ensures that business innovation (department agents) is never constrained by governance, and governance (NornGate agents) is never bypassed by business urgency. Every action — whether a sales proposal, a payroll run, or a playlist update — clears the same five-gate pipeline, with the same immutable audit trail, and the same fail-closed security. **LaMusica deserves the same standard.**

The legacy systems that have served SBS for decades are not liabilities to be replaced; they are assets to be extended. Through secure API gateways, sandboxed execution, and immutable audit trails, The Dash breathes new capability into these systems while maintaining the compliance and reliability standards our board and regulators demand.

Phase 2 deploys only after two conditions are met: (1) Phase 1 completion during the week of August 24–28, 2026, and (2) executive approval of this Phase 2 plan. All Phase 2 planning, resource allocation, and vendor commitments must align with this milestone.

The question is not whether SBS should pursue Phase 2. The question is whether we can afford to leave LaMusica behind while we do it.

The Dash is being built. The gates are being forged. The agents — all 28 of them — await their stations. **And Alfheim awaits its agents too.**

We recommend immediate executive approval of Phase 2. Deployment proceeds only after: (1) Phase 1 cutover sign-off by August 28, 2026, and (2) Phase 2 executive approval.

Deployment sequence is non-negotiable: Interconnectivity Layer first, then Department Silos. The pipes must flow before the valves are opened.

Appendices:

- Appendix A: NornGate Technical Reference (G0-G4 Filter Specifications)
- Appendix B: Legacy System API Mapping Matrix (8 Accessible Systems + LaMusica Gap Assessment)
- Appendix C: SBS Policy-to-ABAC Translation Guide
- Appendix D: Ragnarök Drill Playbook
- Appendix E: Agent Registry Full Capability Definitions (All 28 Agents + 4 Proposed LaMusica Agents)
- Appendix F: Department Agent SPIFFE ID Schema & G1 Policy Rules
- Appendix G: Cross-Department Data Flow Diagrams
- Appendix H: LaMusica Gap Closure Protocol — Discovery, Assessment, Planning, Pilot, Integration

Report compiled from NornGate public documentation, SBS operational Q&A sessions, and The Dash program planning data.

For questions, contact: The Dash Program Office / Nelson Santos, IT Director

END OF REPORT • V5.0

Frank Yglesias, CTO — Ledger Hub Network
For the Spanish Broadcasting System (SBS) • August 1, 2026

