SFG Aluminium Ltd Website Version Log

Current Version: 1.6.0

Release Date: November 5, 2025
Status: SFG Aluminium Real-Time Orchestration System Implemented

Version History

v1.6.0 (November 5, 2025)

- **MAJOR ENHANCEMENT** - SFG Aluminium-Specific App Registration with Real-Time Orchestration
- **WEBHOOK SYSTEM:** Complete webhook endpoint implementation for real-time NEXUS events
- **MESSAGE HANDLERS:** Request/response message system for inter-app communication
- **SFG BUSINESS RULES:** Complete implementation of SFG-specific business logic
- Margin enforcement (15% minimum, 25% target)
- Tier-based approval limits (T1-T5: £1k to £1M)
- Credit check automation (> £10k orders, 90-day validity)
- Customer tier system (Platinum, Sapphire, Steel, Green, Crimson)
- Document stage tracking (ENQ → QUO → SENT → ACC → ORD → FAB → INS → INV → PAID)
- **WEBHOOK EVENT TYPES:**
- `enquiry.created` - New customer enquiry received
- `quote.requested` - Quote generation requested
- `order.approved` - Order approval notification
- `customer.registered` - New customer registration
- `credit.check_required` - Credit check trigger
- `invoice.due` - Payment due notification
- `payment.received` - Payment confirmation
- **MESSAGE TYPES SUPPORTED:**
- `query.customer_data` - Fetch customer information
- `query.quote_status` - Get quote details
- `query.order_status` - Get order tracking info
- `action.create_quote` - Generate new quote
- `action.approve_order` - Approve order
- `action.send_invoice` - Send invoice to customer
- **CODE EXAMPLES PROVIDED:**
- `webhook-handler-python.py` - Python/FastAPI webhook implementation
- `webhook-handler-nodejs.js` - Node.js/Express webhook implementation
- `message-handler-python.py` - Python/FastAPI message handler
- `message-handler-nodejs.js` - Node.js/Express message handler
- `sfg-aluminium-example.json` - Complete registration example for SFG Customer Portal
- **INTEGRATION REQUIREMENTS:**
- NEXUS (orchestration hub) - Required
- MCP-SALES (sales tools) - Required

- MCP-FINANCE (finance tools, Experian, Xero) - Required
- MCP-OPERATIONS (production tracking) - Required
- MCP-COMMUNICATIONS (notifications) - Required
- MCP-DATA (data tools) - Required
- SharePoint (document storage) - Recommended
- Xero (accounting) - Recommended
- Companies House (company verification) - Recommended
- **DOCUMENTATION CREATED:**
- `SFG_ALUMINIUM_APP_REGISTRATION.md` - Complete SFG-specific registration guide
- Webhook setup instructions with signature verification
- Message handler implementation patterns
- SFG business rules reference
- Troubleshooting guides for webhooks and message handlers
- **REGISTRATION WORKFLOW:**
  1. Install GitHub client (Python/Node.js)
  2. Authenticate with GitHub App credentials
  3. Extract business logic with SFG requirements
  4. Implement webhook endpoint
  5. Implement message handler
  6. Create registration files
  7. Submit GitHub issue
  8. NEXUS tests webhook and message handler
  9. Approval within 24 hours
  10. Begin orchestrated operation
- **APPROVAL WORKFLOW:**
- NEXUS reviews registration (24 hours)
- Webhook endpoint tested (sends test event)
- Message handler tested (sends test message)
- Issue labeled `approved` upon success
- Real-time orchestration begins
- **FILES ADDED:**
- `/satellite-registration/SFG_ALUMINIUM_APP_REGISTRATION.md`
- `/satellite-registration/examples/webhook-handler-python.py`
- `/satellite-registration/examples/webhook-handler-nodejs.js`
- `/satellite-registration/examples/message-handler-python.py`
- `/satellite-registration/examples/message-handler-nodejs.js`
- `/satellite-registration/examples/sfg-aluminium-example.json`
- **TARGET APPS:** Customer portals, operations apps, finance apps, any SFG business-critical apps
- **UNIVERSAL PROMPT PRESERVED:** Simple registration still available for utility apps
- **STATUS:** ✅ Full Real-Time SFG Aluminium App Orchestration System Operational

v1.5.0 (November 3, 2025)

- **MAJOR FEATURE** - SFG Satellite App Registration System
- **GITHUB INTEGRATION:** Complete GitHub App authentication with Octokit
- **AUTONOMOUS REGISTRATION:** Automated GitHub issue creation for satellite apps
- **BUSINESS LOGIC FRAMEWORK:** Comprehensive extraction and documentation system

- **DIRECTORY STRUCTURE:**
- `/satellite-registration/` - Root directory for registration system
- `/satellite-registration/scripts/` - GitHub auth, extraction, and registration scripts
- `/satellite-registration/types/` - TypeScript interface definitions
- `/satellite-registration/utils/` - Issue formatting utilities
- `/satellite-registration/examples/` - Templates and examples
- **CORE COMPONENTS:**
- `github-auth.ts` - GitHub App authentication with credentials
- `extract-business-logic.ts` - Business logic extraction template
- `register-satellite.ts` - Main registration orchestration script
- `issue-formatter.ts` - GitHub issue body formatting
- `business-logic.ts` - TypeScript type definitions
- **TEMPLATES PROVIDED:**
- Quick registration template (manual GitHub issue creation)
- Example business logic (QuickSpace workspace management)
- Complex app example (Pichada Legal compliance system)
- **DOCUMENTATION:**
- Complete README with setup instructions
- 5-minute quick start guide
- 30-45 minute detailed registration guide
- Troubleshooting section
- Success criteria checklist
- **ENVIRONMENT VARIABLES CONFIGURED:**
- `GITHUB_APP_ID=2228094`
- `GITHUB_APP_INSTALLATION_ID=92873690`
- `GITHUB_OWNER=sfgaluminium1-spec`
- `GITHUB_REPO=sfg-app-portfolio`
- `GITHUB_APP_PRIVATE_KEY` (RSA private key secured in .env)
- **DEPENDENCIES ADDED:**
- `@octokit/rest` - GitHub REST API client
- `@octokit/auth-app` - GitHub App authentication
- **CAPABILITIES:**
- Autonomous satellite app registration via GitHub issues
- Business logic extraction with validation
- Workflow documentation with steps, triggers, outputs
- Business rules with conditions and priorities
- API endpoint documentation
- Data model definitions
- Integration tracking
- Local backup of business logic (JSON)
- **REPOSITORY:** https://github.com/sfgaluminium1-spec/sfg-app-portfolio
- **NEXUS REVIEW:** 24-48 hour approval workflow
- **STATUS:** ✅ Full Satellite App Registration System Operational

v1.4.0 (October 31, 2025)

- **MAJOR DOCUMENTATION** - Comprehensive Chat Extraction completed
- **CONSOLIDATION:** All conversation history from August 2024 to October 2025 extracted
- **SOURCES PROCESSED:**
- Current conversation summary (key decisions and implementations)
- `SFG Website  llm chat  conversation.pdf` (176 pages of detailed conversation)
- `user_message_2025-08-11_20-18-06.txt` (180+ page specification)
- `user_message_2025-08-11_23-11-30.txt` (SFG Innovations override directive)
- **DOCUMENT CREATED:** `COMPREHENSIVE_CHAT_EXTRACTION.md` (30+ pages)
- **CONTENT COVERAGE:**
- Complete project evolution timeline (4 phases)
- All critical specifications and decisions
- Brand identity and design guidelines (Warren Executive Theme)
- Technical architecture documentation
- Content strategy and requirements
- UK compliance and regulations mapping
- Integration requirements (Microsoft 365, /apps microfrontends)
- Complete page inventory (180+ pages mapped)
- Implementation directives and Universal Task Framework
- Current status and detailed roadmap
- **KEY INSIGHTS DOCUMENTED:**
- Brand separation rules (SFG Aluminium vs SFG Innovations)
- PPM-only services model (no 24/7 emergency)
- Warren Executive Theme specifications
- Product page structure (10 categories × 6 subpages = 60 pages)
- /apps microfrontends security model
- 15+ source files identified for content extraction
- **FILES MODIFIED:**
- Created: `/home/ubuntu/sfg_aluminium_ltd/COMPREHENSIVE_CHAT_EXTRACTION.md`
- Created: `/home/ubuntu/sfg_aluminium_ltd/COMPREHENSIVE_CHAT_EXTRACTION.pdf`
- Updated: `/home/ubuntu/sfg_aluminium_ltd/VERSION.md`
- **STATUS:** ✅ Complete Conversation History Documented and Archived

v1.3.0 (September 8, 2025)

- **MAJOR DOCUMENTATION** - Unified Application Inventory framework created
- **EXTRACTION PLAN:** Comprehensive legacy content extraction strategy
- **PROCEDURE TEMPLATES:** Standardized documentation for business procedures
- **WORKFLOW TEMPLATES:** Standardized documentation for workflows
- **INTEGRATION FRAMEWORK:** Complete API endpoint specifications
- **DATA MODELS:** Core entity schemas (Customer, Staff, Document, BaseNumber)
- **MCP CONFIGURATION:** AgentPass server orchestration documented
- **THEME TOKENS:** Warren Executive Theme complete specification
- **EXTRACTION TOOLS:** Python script for automated content extraction
- **BUSINESS LOGIC:** Framework for capturing procedures and workflows
- **STATUS:** ✅ Ready for Legacy Content Extraction Phase

v1.2.0 (September 8, 2025)

- **MAJOR FEATURE** - Advanced video hero background system implementation
- **VIDEO SYSTEM:** Multi-device responsive video (Desktop/Tablet/Mobile formats)
- **ANIMATIONS:** Scroll-triggered animations with intersection observers
- **MICRO-INTERACTIONS:** Button hover effects, scale transforms, shimmer animations
- **ACCESSIBILITY:** Full compliance with reduced-motion support and screen readers
- **PERFORMANCE:** Progressive enhancement with intelligent fallbacks
- **THEME INTEGRATION:** Warren Executive Theme colors and metallic effects
- **CTA ENHANCEMENT:** Animated "Get Free Quote" and "Book Survey" buttons
- **STATISTICS:** Dynamic counting animations for trust indicators
- **CONTROLS:** Video play/pause, mute/unmute, progress tracking
- **STATUS:** ✅ Advanced Interactive Hero Experience Complete

v1.1.0 (September 8, 2025)

- **SERVICE CONTENT UPDATE** - Replaced emergency services with PPM focus
- **CHANGE:** Updated "24/7 Emergency Service Available" to "Pre-Planned Maintenance (PPM) Services"
- **ENHANCEMENT:** Added prominent version display system with floating badge
- **FOOTER UPDATE:** Enhanced footer with dynamic version information
- **FEATURES:** Version badge component with multiple display variants
- **ALIGNMENT:** Content now accurately reflects PPM-only service model
- **STATUS:** ✅ Content Aligned with Business Model

v1.0.0 (September 8, 2025)

- **INITIAL BUILD** - Base Next.js structure created
- **DESIGN BRIEF INTEGRATION** - 180+ page specification implemented
- **SCOPE:** Comprehensive aluminium solutions showcase
- **FEATURES:** Hero section, products, stats, basic navigation
- **ARCHITECTURE:** Next.js 14.2.28 with TypeScript
- **STATUS:** ✅ Foundation Complete

Universal Task Framework – Category Mapping

Task Categories & Recommended AI Agents

1️⃣ Ideation & Strategy

Best Agents/LLMs: GPT-5 Thinking, Claude Sonnet 4, Grok 4, Nano Banana
Use Cases: product strategies, campaign ideation, sales narratives, stakeholder vision docs
Outputs: strategy papers, vision maps, feature roadmaps

2️⃣ Research & Intelligence

Best Agents/LLMs: Perplexity Pro, SearchLLM, Gemini 2.5 Pro, Claude Sonnet 3.7, RouteLLM
Use Cases: market scans, compliance/legal research, competitor analysis, technical stack evals, trend scouting
Outputs: research briefs, competitor benchmarks, regulatory impact summaries

3 Planning & Directives

Best Agents/LLMs: GPT-5, Claude Sonnet 4, Gemini 2.5 Flash, Llama4 Maverick, AI Engineer Agent
Use Cases: build directives, project planning, technical paradigms, security & compliance protocols
Outputs: directive documents, resource allocation plans, governance standards

4 Prototyping & Build

Best Agents/LLMs: CodeLLM, GPT-4o, GPT-5 Mini, Nano Banana
Use Cases: code generation, frontend/backend scaffolds, UI mockups, workflow POCs, RAG/chatbot prototypes
Outputs: code repos, sandbox builds, prototype screenshots, UI wireframes

5 Testing, QA & Review

Best Agents/LLMs: GPT-4.1, GPT-5 Thinking, CodeLLM, Claude Sonnet 3.7, DeepSeek R1
Use Cases: regression/unit testing, security testing, compliance reviews, accessibility checks, performance simulations
Outputs: test reports, bug logs, compliance gap analysis

6 Content & Communication

Best Agents/LLMs: GPT-5, Claude Sonnet 4, Grok 4, Gemini 2.5 Flash, Custom Content Bots
Use Cases: corporate web copy, tenders, bids, social media text, blogs, HR comms
Outputs: copy drafts, campaign packs, compliance-aligned statements, FAQs

7 Creative & Media

Best Agents/LLMs: Nano Banana, GPT-4o, Image Agent, Video Agent
Use Cases: images, ads, renders, storyboards, short videos, schematics
Outputs: graphics, explainer clips, mockup assets, campaign visuals

8 Workflows & Automation

Best Agents/LLMs: AI Engineer Agent, Workflow Agents, Autonomous Browser Agent
Use Cases: CRM sync, Microsoft 365 automation, Xero integration, email triage, Slack/Teams orchestration, portal form automation
Outputs: automated flows, API call sequences, browser logs, updated dashboards

9 Deployment & Operations

Best Agents/LLMs: Autonomous Browser Agent, AI Engineer, RouteLLM, Claude Sonnet 4
Use Cases: final app deploy, DNS + security configs, Microsoft 365 app reg, launch acceptance checklists, audit trails
Outputs: deployment scripts, handover docs, exec reports, compliance record snapshots

10 Post-Deployment Support

Best Agents/LLMs: Ops Custom Bots, RouteLLM, DeepSeek R1 (for logs), Claude Sonnet 4
Use Cases: email/chat triage, customer service bots, monitoring dashboards, compliance audits, bug patch logging
Outputs: ticket reports, triage decisions, monitoring dashboards, compliance packs

◆ Execution Rules for DeepAgent

- Always check tool/LLM availability at session start → integrate new models/agents by updating mappings above
- Select best specialist model per task category; avoid generalists unless no specialist fits

- For critical stages (testing, compliance, deployment), validate through RouteLLM multi-model arbitration
- Generate handover summaries at every lifecycle stage
- Enforce GDPR & security: never expose keys, rotate API secrets, isolate knowledge bases
- Outputs must be packaged into actionable formats: structured docs, workflows, test plans, dashboards, or reports

✅ **This is now the master instruction set** — not limited to websites, but spanning all task families DeepAgent can handle today and adaptively in the future.

Think of it as your AI Production Director across Sales, Ops, Compliance, Dev, Creative, and Deployment.

Project Scope Summary

Main Website (100+ pages)

- Comprehensive aluminium solutions showcase
- Warren Executive Theme with blues/metallics
- 3D immersive elements and sustainability messaging
- Lead generation and conversion optimization

/apps Microfrontends Host (16 pages)

- 12 specialized tools with magic-link security
- Microsoft 365 SharePoint integration
- UK Building Regulations compliance mapping

Technical Requirements

- Next.js with TypeScript
- SSR capabilities
- SEO optimization
- GDPR compliance
- Performance optimization

Next Agent Instructions: Review this version log and continue development based on the comprehensive design brief. All updates should increment the version number and document changes here.