remsoft®

GLOBAL FORESTRY CONFERENCE

Shaping the Future of Forest Intelligence

Forestry Intelligence Platform

The platform architecture behind the future

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Enabling the Forestry Intelligence Platform

Today’s reality

Strong products—yet fragmented data & integration patterns

Strong standalone products

Leveraging a breadth of technologies to deliver features designed to streamline specific segments of the forestry value chain.

Point-to-point integrations

Current integrations involve manual and often redundant efforts, leading to inefficiencies.

Fragmented data

Data segmentation and overlap creates inconsistencies, resulting in a lack of a unified "source of truth."

Limited reuse at scale

Siloed capabilities drive complexity, increase costs, and constrains the ability to scale the business.

Customer-driven imperative

Working backwards from customer feedback

Customer focus driving change

Allow stability, scalability, and integration to shape platform architecture and product evolution to ensure customer success.

Reducing fragmentation

Implement a unified architecture to enable smooth interoperability across legacy and modern applications without costly custom solutions.

Iterative delivery and validation

Adopt an approach of continuous improvements to allow quick responses for performance issues and usability insights, enhancing customer experience and environment stability.

Focus on observability and scalability

Prioritize observability and scalable services to improve bottleneck detection and support future feature deployment

Forest intelligence vision

From products to an intelligence platform for the forestry value chain

Unified ecosystem

A platform to integrate planning, operational, and logistics solutions and workflows into a unified, data-driven environment for forest management.

Decision support emphasis

Strong focus on providing accurate cross-solution insights that blend data throughout the forestry value chain for better decision making.

Strategic and evolving framework

Architecture designed for scalability and robust interoperability, enabling seamless communication, data sharing and reduced redundancy.

Foundation for innovation

Well-structured experience, data and service layers to create a stable foundation supporting current requirements as well as future AI-driven innovation.

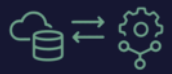
Architecture Blueprint

Platform principles

Principles that protect stability & speed

Experience layer with products

The top experience layer hosts all Remsoft products, each fulfilling specific operational roles and integration needs.



Integration and service layer

Well-defined contracts and event-driven patterns enable synchronous and asynchronous, reliable product communication without tight coupling.

Data lake foundation

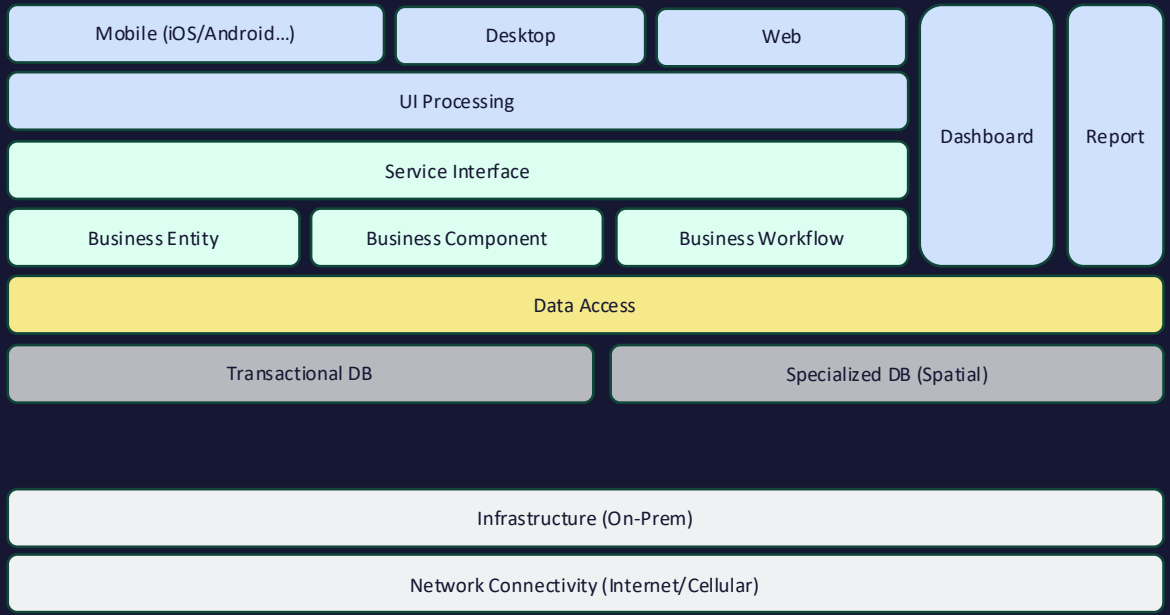
A unified data lake consolidates raw and curated data for long-term compliance-based retention, support for open data formats and publishing analytics data for cross-product intelligence scenarios.

Infrastructure layer

Design to work with different infrastructure and variable connectivity in field.

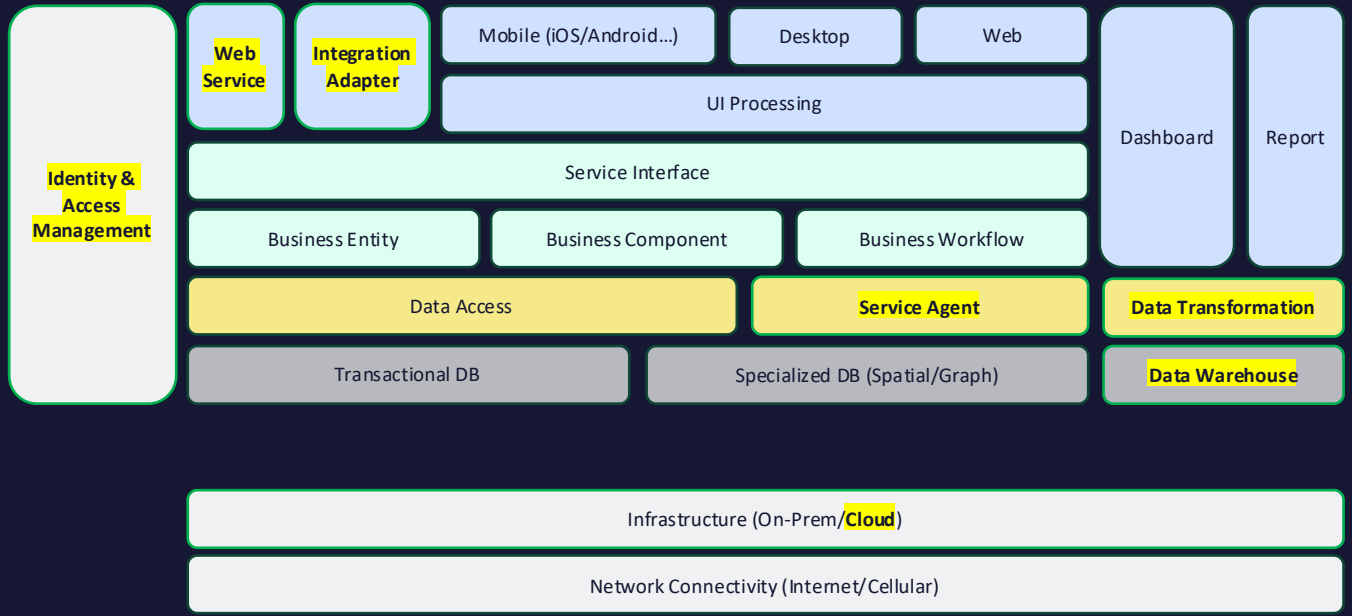
Architectural components

Basic architecture



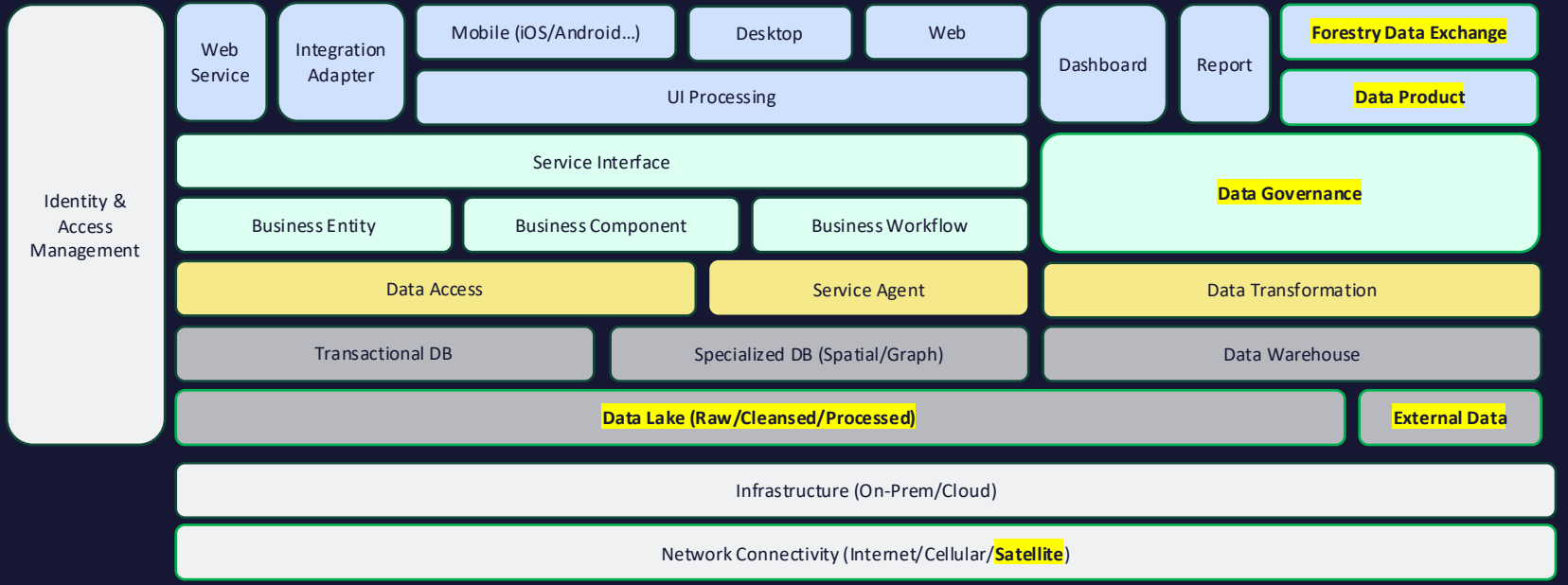
Architectural components

+ web services & cloud



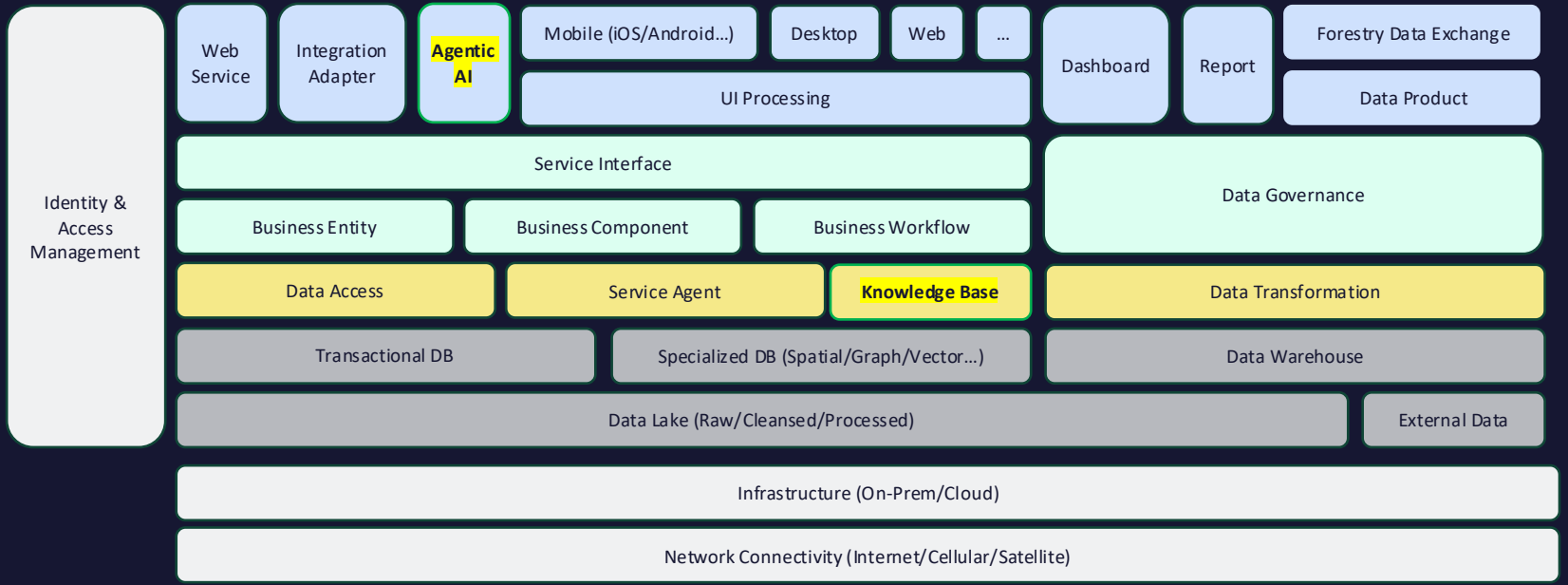
Architectural components

+ data strategy + global connectivity



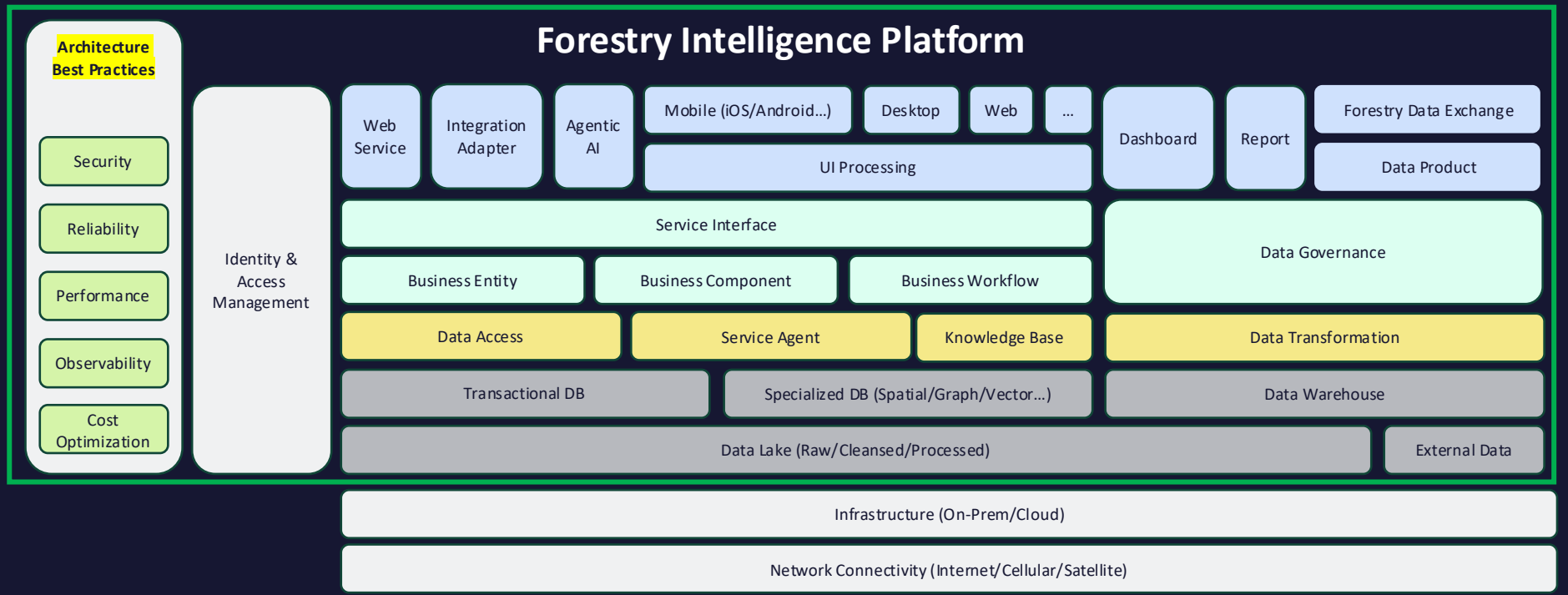
Architectural components

+ AI



Architectural components

+ best practices



Unified data strategy

Source of truth for intelligence

Multi-zone data organization

Data is organized into raw, curated, and analytics-ready zones for optimized processing and insights.

Elimination of data silos

Consolidates data from diverse systems into a unified environment enabling cross-functional analytics.

Metadata governance and quality

Ensures consistent definitions and improves data quality via centralized validation and transformations.

Supporting advanced analytics

Enables model, forecast, and actual analysis to improve forecasting accuracy and decision-making.

AI & Platform Evolution

Responsible use of generative AI

Balancing productivity and responsibility

AI enhanced productivity

Generative AI accelerates engineering tasks like code generation, testing, data analysis, documentation creation, and document analysis.

Responsible AI use

Employees must use AI responsibly, adhering to policies and ensuring confidentiality and data security at all times.

Human judgement reinforcement

Human oversight and verification emphasizes AI as an accelerator and assistant to maintain accuracy, appropriateness, and engineering rigor.

Seamless AI integration

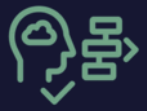
AI capabilities augment system architecture to improve design flexibility and integration capabilities.

Agentic AI enablement

In-product agent layer for cross-product integration

Agent-assisted experience

AI is embedded directly into the product experience to assist users where work happens, not as a separate tool.



Reasoning-based orchestration

The agent can understand intent, plan multi-step activities, and coordinate actions across products and platform services.

Context from the platform

Shared data, metadata, and business context from the platform ensure consistent, informed interactions across the ecosystem.

Human-directed outcomes

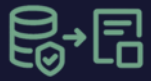
The agent accelerates outcomes while keeping users in control through confirmation, visibility, and policy-aligned behavior.

Factual grounding for AI components

Why grounding matters for trustworthy AI

Grounded in trusted data

AI responses are anchored in Remsoft's authoritative systems of record and platform data, not generic model knowledge.



Retrieval-augmented generation (RAG)

RAG injects relevant, up-to-date enterprise context at response time, reducing hallucinations and improving accuracy.

Agent-orchestrated reasoning

Agents use grounded data to reason across steps, tools, and systems while maintaining traceability to source information.

Trust, safety, and accountability

Factual grounding supports responsible AI use by reinforcing verification, transparency, and human oversight.

Migration strategy: iterative vs big bang

Why we choose iterative modernization

Phased modernization approach

Modernization occurs incrementally with components updated while keeping existing functionality operational, reducing risk.

Customer feedback integration

Continuous customer feedback validates architectural decisions and guides smooth transitions with minimal disruption.

Technical debt reduction

Iterative refactoring targets technical debt and deprecated frameworks, improving stability and performance over time.

Aligned with customer priorities

Each iteration is guided by priorities like resilience and scalability ensuring modernization meets real-world needs.

Built for stability and resilience

Designing confidence into every release

Observability by default

Systems are designed with built-in visibility to proactively detect issues, understand performance, and support faster resolution.

QA automation

Automated testing reduces risk, improves consistency, and ensures changes can be delivered with confidence.

Standardized releases

Consistent release practices improve predictability, reduce disruption, and simplify operations across products.

Measurable reliability

Reliability is tracked and managed through clear metrics, enabling continuous improvement and accountability.

Takeaways

What it looks like in 2026-2027

Near-term execution themes (platform + products)

Unified data integration

The platform consolidates operational data, shared services, and analytics into a scalable, unified architecture.

Iterative modernization

Iterative refactoring reduces risk and improves reliability by leveraging observability and continuous feedback.

Generative AI adoption

Responsible use of generative AI enhances productivity while ensuring data privacy and operational integrity.

Strategic growth foundation

The platform aligns vision, customer expectations, and growth for faster innovation and deeper insights.

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