



Managed AI Infrastructure Services

Service Definition



Executive overview

Artificial Intelligence is now a board-level priority for organisations seeking to improve efficiency, unlock new revenue streams, and make better, faster decisions. However, for many CIOs, the challenge is not the AI models themselves, but the complexity, risk, and cost of building and operating the infrastructure required to support them at scale.

WhiteSpider's **Managed AI Infrastructure Services** address this challenge by providing a secure, scalable, and operationally robust foundation for enterprise AI. Delivered as Professional and Managed Services for Cisco AI solutions, this service enables organisations to adopt AI with confidence, ensuring performance, security, governance, and cost control are embedded from day one.

By combining Cisco's validated AI architectures with WhiteSpider's experience in designing and managing mission-critical infrastructure, CIOs gain a predictable, supportable platform that accelerates time-to-value while reducing operational burden and risk.

Cisco AI infrastructure solutions

Cisco's AI infrastructure portfolio delivers validated, enterprise ready architectures designed to support the full AI lifecycle—from data ingestion and model training to inference and edge deployment.

Cisco AI Pods

Cisco AI Pods are pre-validated, modular AI infrastructure stacks designed to simplify and accelerate the deployment of GPU-accelerated workloads. Rather than building bespoke platforms from individual components, organisations can adopt a proven reference architecture that integrates high-performance compute, networking, and storage.

This approach reduces design risk, shortens deployment timelines, and provides consistent performance across training and inference workloads. For CIOs, AI Pods offer a pragmatic route to scaling AI initiatives while maintaining architectural control and operational predictability. Each AI Pod integrates:

- High performance Cisco UCS compute with NVIDIA GPUs
- High bandwidth, low latency networking
- Integrated storage and data pipelines
- Secure, scalable management frameworks

AI Pods enable organisations to deploy AI environments rapidly while maintaining architectural consistency and predictable performance across training and inference workloads.

Cisco Secure AI Factory

Cisco Secure AI Factory is designed for organisations where security, compliance, and trust are non-negotiable. It embeds security controls and governance mechanisms across the entire AI lifecycle, from data ingestion and model training through to inference and operational use. By applying Zero Trust principles, strong segmentation, and policy-driven access control, Secure AI Factory helps protect sensitive data, models, and intellectual property. This enables CIOs to support AI innovation in regulated or high-risk environments without compromising organisational security or compliance obligations.

Cisco Unified Edge

Cisco Unified Edge extends AI capabilities beyond the data centre, enabling organisations to deploy and manage AI workloads consistently across core, cloud, and edge environments. This is particularly important for use cases where latency, data locality, or operational resilience are critical.

Unified Edge allows CIOs to support real-time AI-driven decision making closer to the source of data, while retaining centralised visibility, governance, and control across the estate.

WhiteSpider professional services

WhiteSpider Professional Services provide structured, outcome-driven support to ensure Cisco AI solutions are designed and implemented in line with organisational goals, technical standards, and operational realities.

Engagements typically begin with a discovery and assessment phase to understand existing infrastructure, data flows, security requirements, and AI ambitions. This informs a detailed design that aligns Cisco AI Pods, Secure AI Factory, and Unified Edge architectures to specific business outcomes.

WhiteSpider then delivers the build and integration of the solution, configuring compute, networking, storage, and security controls, and integrating the AI platform into existing data centre, cloud, and edge environments. Where required, existing workloads and data pipelines are migrated, validated, and performance-tested before formal handover to operations.

This approach ensures AI platforms are not only deployed quickly, but are supportable, secure, and ready for long-term operation.

WhiteSpider managed services for AI infrastructure

WhiteSpider Managed AI Infrastructure Services provide CIOs with confidence that AI platforms will remain performant, secure, and cost-effective throughout their lifecycle. The service delivers proactive, SLA-backed management across the full AI stack, reducing operational burden on internal teams.

WhiteSpider continuously monitors AI infrastructure, including GPU resources, compute, networking, and storage, to identify issues before they impact service. Performance and capacity are actively managed to ensure AI workloads operate efficiently as demand grows.

Lifecycle management is embedded into the service, covering firmware and software updates, patching, configuration compliance, and capacity planning. Security and governance controls are continuously enforced, with monitoring and reporting aligned to organisational and regulatory requirements.

Customers are supported by a named service team with deep knowledge of the environment, providing direct access to expertise and regular service reviews focused on optimisation and value realisation. This enables CIOs to focus on strategic AI initiatives rather than day-to-day infrastructure management.

Key features and benefits

WhiteSpider's Managed AI Infrastructure Services are designed to deliver measurable value to both IT leadership and the wider organisation.

For CIOs, the service provides a predictable and secure operating model for AI, reducing the risk associated with large-scale infrastructure investment. Pre-validated Cisco architectures minimise design uncertainty, while managed services reduce operational complexity and reliance on scarce specialist skills.

From a business perspective, faster deployment and improved reliability of AI platforms accelerate innovation and time-to-value. Integrated security and governance support regulatory compliance and protect organisational data and intellectual property. Flexible service models enable organisations to scale AI capability in line with demand, maintaining control over cost and performance.

Use cases

WhiteSpider Managed AI Infrastructure Services support a wide range of enterprise AI use cases.

Organisations deploying large-scale model training benefit from the performance and scalability of Cisco AI Pods, enabling data science teams to iterate more quickly and reduce time to insight.

In regulated industries, Secure AI Factory enables the adoption of AI while maintaining strict security, governance, and compliance controls, supporting innovation without increasing organisational risk. For latency-sensitive or distributed environments, Unified Edge supports real-time inference and analytics close to the source of data, improving responsiveness and operational efficiency.

Many organisations adopt a hybrid AI model, operating workloads across on-premises, cloud, and edge environments. WhiteSpider's services provide the consistency, visibility, and control required to manage this complexity effectively.

Why WhiteSpider

WhiteSpider combines deep Cisco expertise with a proven managed services capability to deliver AI infrastructure that is secure, scalable, and operationally sound. Our approach mirrors our broader cloud and infrastructure services: discover, design, build, migrate, and manage—ensuring AI platforms are engineered for long term success.

By partnering with WhiteSpider, organisations gain a trusted advisor capable of supporting AI initiatives from strategy through to day to day operations.

Next steps

WhiteSpider Managed AI Infrastructure Services can be tailored to specific workloads, industries, and operating models. Engagements typically begin with a discovery and assessment phase to align technical design with business outcomes.



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