

## NETWORK OPTIMIZATION

Comprehensive Solutions and Services that Increase Agility, Manageability and Security

### TERAMACH'S UNIFIED PORTFOLIO OFFERING

Through our Unified Portfolio, we deliver solutions across the full lifecycle of our customer's technology investments.

#### SERVICE CHANNELS

-  Integration
-  Professional
-  Deployment
-  Workforce
-  Managed

#### SOLUTION DISCIPLINES

-  Workplace
-  Digital Infrastructure
-  Security
-  Cloud
-  Emerging Technology

#### SERVICES VALUE STREAM



The role of IT is evolving from technology maintenance to service delivery as organizations seek to create competitive advantages and get products to market more quickly. However, increasingly complex enterprise networks have made management equally complex, forcing IT departments to stay in caretaking mode. At the same time, organizations are adopting Software-as-a-Service applications and creating a hybrid IT environment that combines on-premises infrastructure with cloud-based platforms. Traditional networks were not built to support this new model.

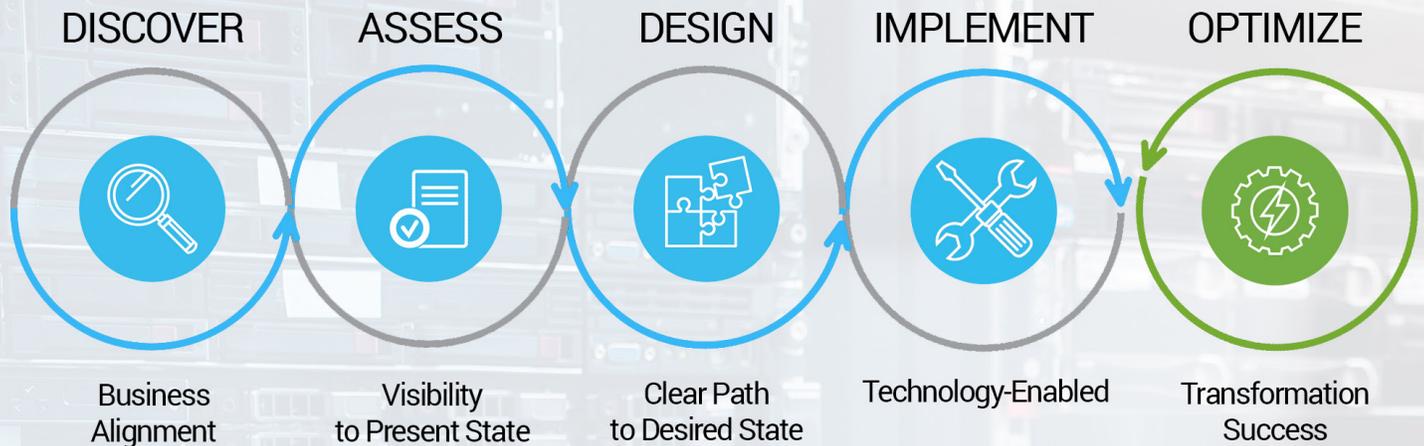
Software-defined networking (SDN) can help alleviate these challenges through streamlined provisioning, centralized management and end-to-end visibility. The result is an intelligent network that delivers secure applications and user experiences based upon policies defined in software. However, IT teams have spent years developing the processes and skill sets needed for hardware-focused network management, making it difficult to transition to a software-defined approach. They also face obstacles mapping application, resource and network dependencies across on-premises and cloud environments.

The TeraMach Network Optimization practice is dedicated to helping organizations accelerate their transition to programmable, software-defined and cloud-native networks.

#### FOUNDATIONAL PILLARS



# NETWORK OPTIMIZATION FRAMEWORK



TeraMach helps organizations implement an agile SDN infrastructure that enables rapid service provisioning and better secures digital assets through segmentation. TeraMach also helps organizations take advantage of software-defined WAN solutions to optimize performance and cloud access, and the unique Smart Edge multi-access edge computing to enable application execution at the edge. Because wireless is now the standard for connectivity, TeraMach brings expertise in the latest Wi-Fi standards and policy-based access controls.

## SOLUTION SUMMARY

Leveraging their extensive experience in the design, architecture, deployment and support of enterprise networks, TeraMach's engineers help organizations create an agile network architecture that is highly efficient, secure and aligned to the business:

**Discovery.** TeraMach begins by determining business and technical objectives and performing an analysis of the existing environment to identify gaps and challenges that could prevent the organization from meeting its objectives. The TeraMach team can then recommend the best path forward and prioritize use cases with the greatest potential benefits. A high-level financial model facilitates strategic decision-making and budgeting.

**Assessment.** In the second phase, TeraMach's engineers perform a thorough network assessment along with site surveys of the wireless network. A key component is application profiling and dependency mapping from a network perspective to identify ways to enhance application performance while reducing TCO and risk.

TeraMach also gains an understanding of the customer's cloud strategy and performs a gap analysis to identify areas of improvement.

**Design.** Armed with an understanding of the organization's current state, the TeraMach team designs and architects the network infrastructure to achieve the desired end state. This involves developing a reference architecture, defining application profiles and determining the security controls needed to protect digital assets. TeraMach then develops a solution roadmap and can perform managed proofs of concept and proofs of value.

**Implement.** The TeraMach team will develop a transition architecture and implementation plan to minimize business disruption while accelerating time-to-value. TeraMach leverages its Advanced Integration Centers and well-defined processes for product provisioning and fulfillment and equipment staging and configuration. Once the implementation and validation of the network are complete, TeraMach develops a strategy for ongoing updates and upgrades.

**Optimize.** Network optimization is an ongoing process requiring KPI measurement and outcome validation. TeraMach utilizes its 24x7 remote monitoring and management to gain visibility into application performance and network capacity. TeraMach's comprehensive managed services reduce operational overhead through problem, incident and change management processes.

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