Model	Description	Customer Characteristics	Components (Minimum Configuration)	Included Services & Benefits	Service Constraints
A (Colo - Carrier of Choice)	The Customer hosts and operates their compute infrastructure (servers, storage, security and other appliances), their Network Access Layer and Network Routing Services, but contract with a non-CTS 3rd party provider for Network Services and for Internet Access.	Customers who do not make use of CTS hosted services, but have a need for a purpose built facility within which to operate their computing infrastructure and who rely on 3rd party providers for network connectivity, would use this Colocation Service model. An example would be SBCTC who's systems are fully self-contained and managed by internal SBCTC staff and who contracts thru K20 - UW/GigaPop for network services.	• 1 – 5KW Enclosure @ • 1 Cable from the Customer Enclosure to the Facilities-managed Provider Space	• Facilities Management	• No Access to SGN, PGN or IGN • No Access to other CTS Services (Email, Vault, Storage, Virtual Servers, Firewalls, etc.) • No Data Security Services
B (Colo with SGN)	The Customer hosts and operates their compute infrastructure (servers, storage, security and other appliances), their Network Access Layer and internal Network Routing	Customers who rely on CTS for network connectivity to state resources but manage their internal network access layer and routing within the enclosure would use this Colocation Service model. An example	• 1 - 5KW Enclosure • 1 - Cable- from the Customer Enclosure to the CTS Core Network • 1 - Copper or Fiber 100/1GB Connection (port) • 2 – SFPs (Fiber only)* • 1 - time install charge per Connection (port)	• SGN/IGN & PGN Access** • Access to CTS Hosted Services (Email, Virtual Servers, Storage, etc.) • Facilities Management • Network Connection Monitoring	• **Requires a Firewall if connecting to the SGN, IGN or PGN • *For fiber links, an SFP is required at each end of the connection and is usually provided by the card maker.

	Services, but contract with CTS as the Network Services Provider to state resources and for Internet Access.	would be OAH who leverages CTS network services for transport between their corporate sites and to other state services . Customers have skills in TCP/IP and Routing protocols.	• 1 – Firewall** Could be CTS or customer managed/owned	• 24x7 helpdesk Support • Ongoing Technical Support • Configuration Changes • Vulnerability Scanning	Customers generally provide an SFP for the host side while CTS provides for the switch side
C (Colo with Network Access (L3) provided by CTS)	The Customer hosts and operates their compute infrastructure (servers, storage, security and other appliances) and manages the Network Access Layer, but contracts with CTS to provide Network Routing Services for their internal services and uses CTS as the Network Services Provider to state resources and for Internet Access.	Customers who rely on CTS for network routing services but manage their own LANs and access layer switching in their enclosure(s) would use this Colocation Service model. Customers may operate multiple network segments within an enclosure. Customers have skills in LAN and desktop management	• 1 - 5KW Enclosure • 1 - Cable from the Customer Enclosure to the CTS End-of-Row Distribution Switch • 1 - Copper or Fiber 100/1GB Connection (port) • 2 – SFPs (Fiber only)* • 1 - time install charge per Connection (port) • 1 – Firewall** Could be CTS or customer managed/owned	• SGN/IGN & PGN Access** • Access to CTS Hosted Services (Email, Virtual Servers, Storage, etc.) • Facilities Management • Network Connection Monitoring • 24x7 helpdesk Support • Ongoing Technical Support • Configuration Changes • Vulnerability Scanning • Layer 3 Logging • CTS Provides the Gateway Address	• **Requires a Firewall if connecting to the SGN, IGN or PGN • Customers perform all adds, moves and changes of servers/end-point devices in their enclosures • Customers can add/remove LAN network ports at will, but need assistance from CTS to add new routed networks. • *For fiber links, an SFP is required at each end of the connection and is usually provided by the card maker. Customers

					generally provide an SFP for the host side while CTS provides for the switch side
D (Full Network Infrastructure Consolidation)	The Customer hosts and operates their compute infrastructure (servers, storage and other appliances) but leverages CTS network infrastructure for the Network Access Layer and Network Routing Services and uses CTS as the Network Services Provider and for Internet Access.	For customers who wish to focus on managing their server & application infrastructure. Customers L2/L3 Network services and facilities management are provided by CTS.	• 1 - 5KW Enclosure • 1 - Copper or Fiber 100/1GB Connection (port) per Server • 2 – SFPs (Fiber only)* • 1 - time install charge per Connection (port)	• SGN/IGN & PGN Access** • Access to CTS Hosted Services (Email, Virtual Servers, Storage, etc.) • Facilities Management • Network Connection Monitoring • Colocation Management • 24x7 helpdesk Support • Ongoing Technical Support • Configuration Changes • Vulnerability Scanning • Layer 3 Logging	*For fiber links, an SFP is required at each end of the connection and is usually provided by the card maker. Customers generally provide an SFP for the host side while CTS provides for the switch side (cost for both sides to customer)