

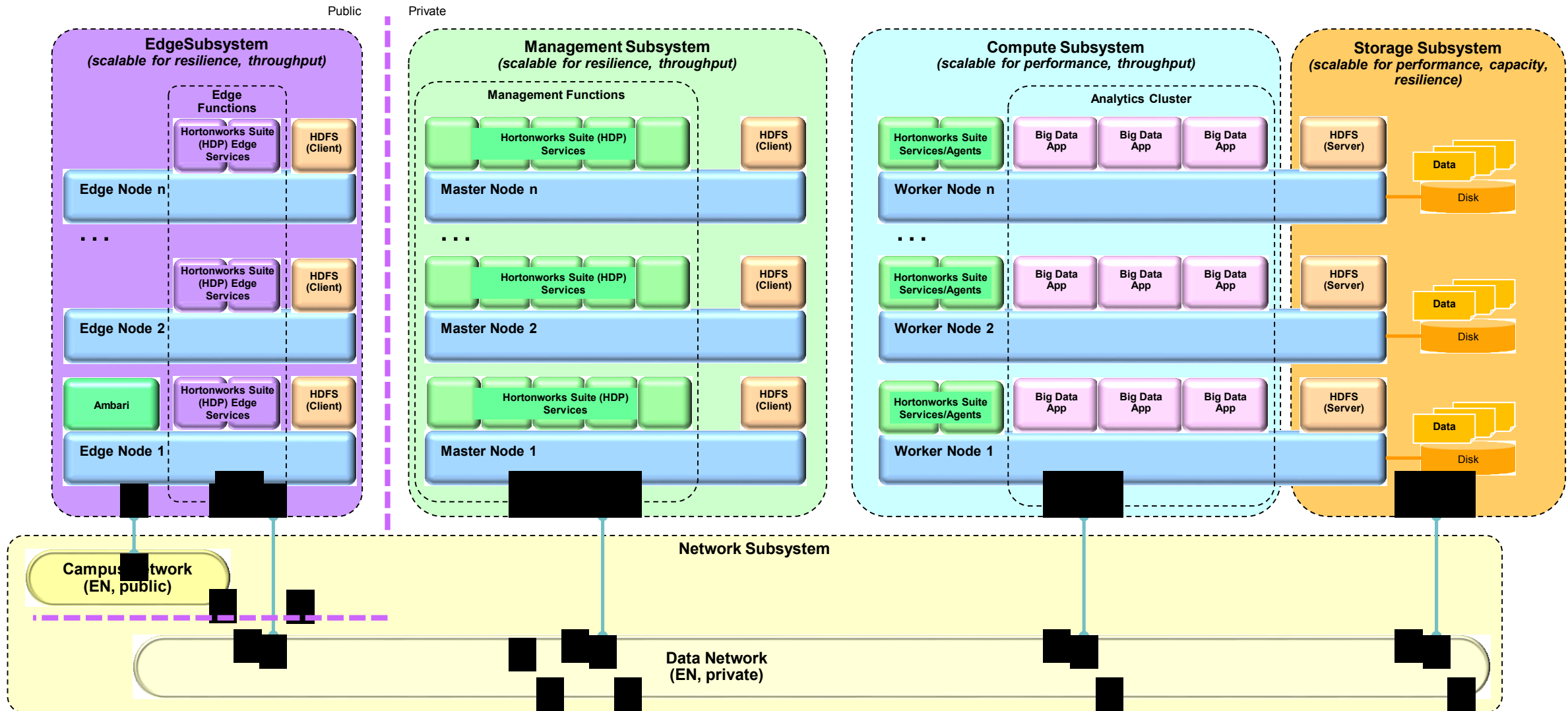


IBM Systems
Power Development

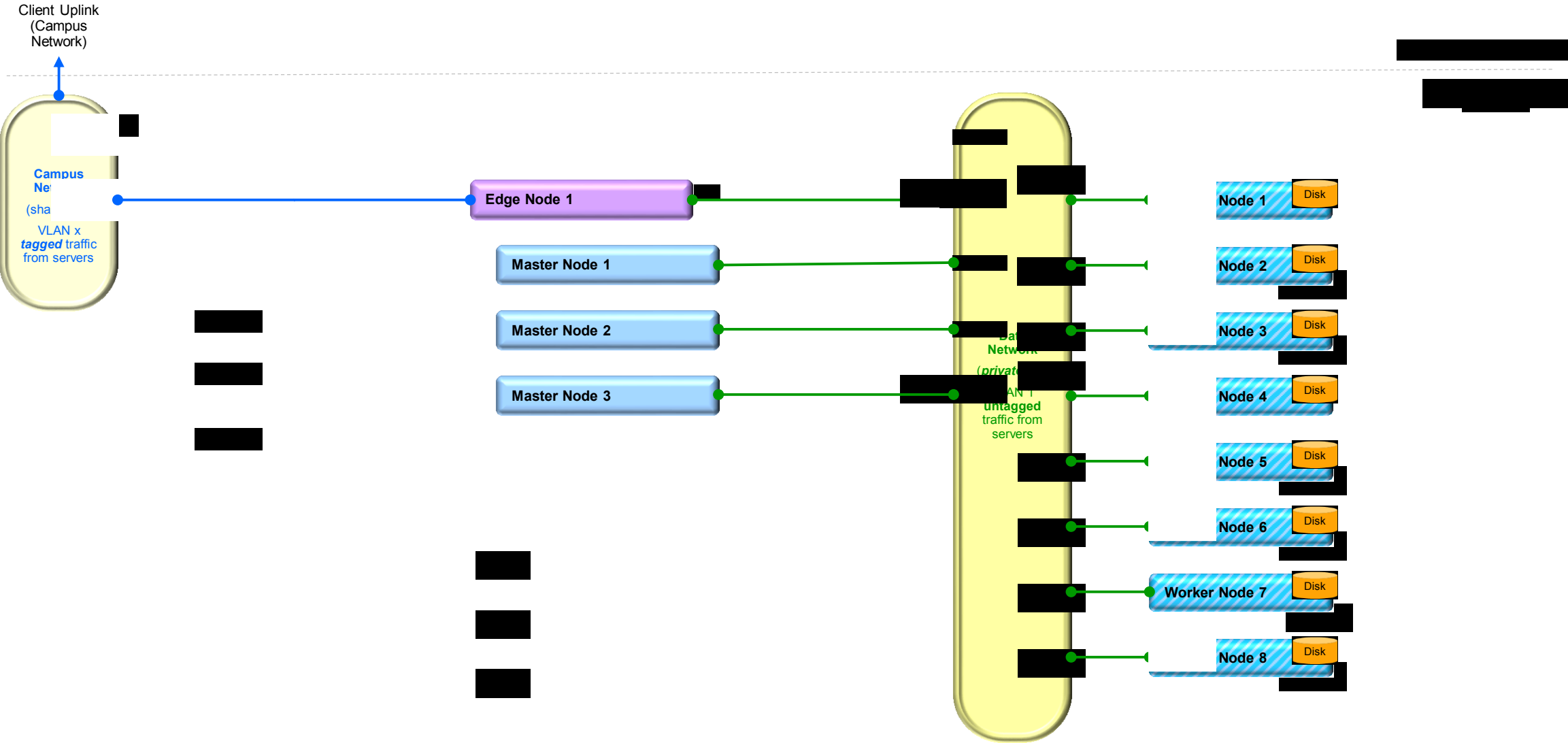
Hortonworks Data Platform on IBM Power (HDP on Power) Deployment Guide

Design Overview

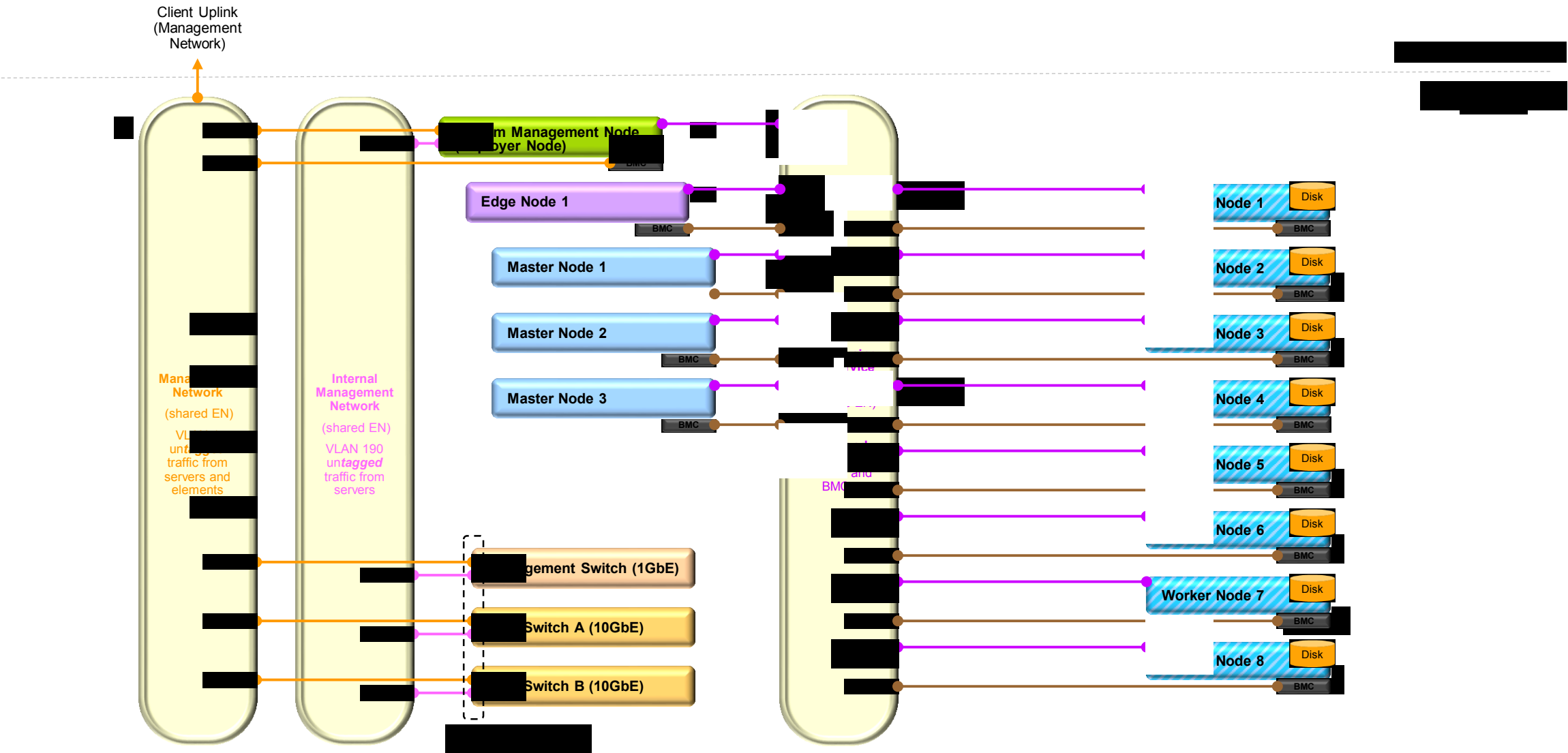
Architecture – Infrastructure/Hosting Overview



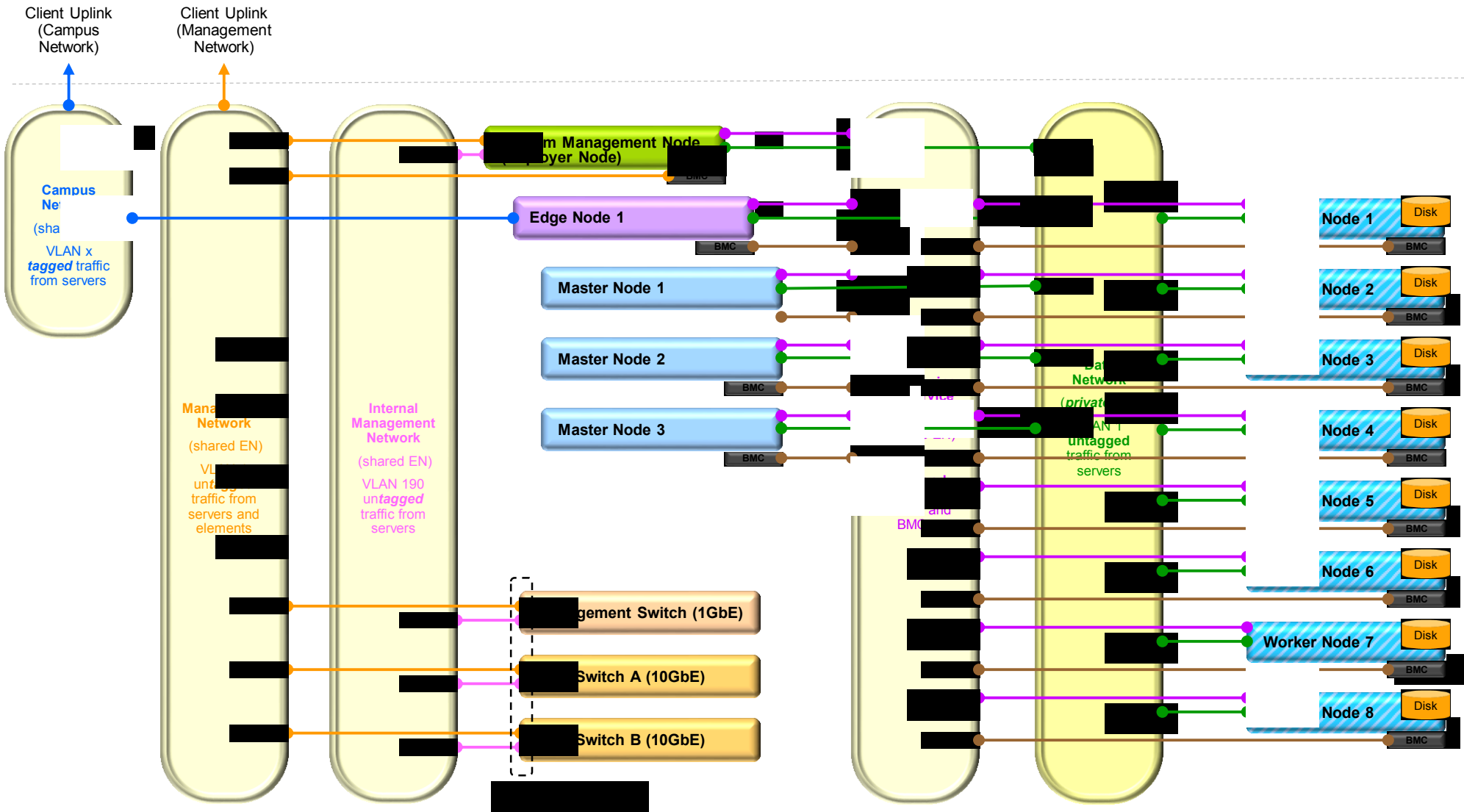
Minimum Production Configuration – Logical Network Topology – Application Level View



Minimum Production Configuration – Logical Network Topology – Infrastructure Level View



Minimum Production Configuration – Logical Network Topology – All Networks



Minimum Production Configuration – Component Specifications

| | System Mgmt Node | Master Node | Edge Node | Worker Node |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Server Type | 1U S821LC (Stratton) 8001-12C | 1U S821LC (Stratton) 8001-12C | 1U S821LC (Stratton) 8001-12C | 2U S822LC (Briggs) 8001-22C |
| Quantity | 1 | 3 | 1 | 8 |
| Cores | 8 | 20 | 20 | 22 |
| Memory | 32GB | 256GB | 256GB | 256GB |
| Storage - HDD | 2x 4TB HDD | 4x 4TB HDD | 4x 4TB HDD | 12x 4TB HDD |
| Storage Controller | Marvell (internal) | LSI MegaRAID 9361-8i (2GB cache) | LSI MegaRAID 9361-8i (2GB cache) | LSI MegaRAID 9361-8i (2GB cache) |
| Network - 1GbE | 4 ports (internal) | 4 ports (internal) | 4 ports (internal) | 4 ports (internal) |
| Network - 10GbE | 1x 2-port SPF+ adapter | 1x 2-port SPF+ adapter | 2x 2-port SPF+ adapter | 1x 2-port SPF+ adapter |

| | Management Switch | Data Switch | Rack |
|-----------------|--------------------------|-----------------------------|----------------------|
| Type | Lenovo G8052 7120-48E | Mellanox SX1410 8831-S48 | 42U Rack 7965-94Y |
| Quantity | 1 | 2 | 1 |