



# ENTRA® vCMTS

Reliable. Flexible. Simplified

Simple to launch. Easy to expand.

Resilient from Day 1.

## Overview

Vecima's Entra® vCMTS is a cloud-native, open, and highly scalable solution that enables cable operators to transition seamlessly from legacy DOCSIS® to DOCSIS 3.1 and DOCSIS 4.0. It supports high-speed data and voice services for both residential and business customers.



As part of the Entra Cloud platform, Entra vCMTS delivers exceptional performance, featuring industry-leading reliability, as well as improved power and cooling efficiency, space density, and cost savings. Deployed on COTS hardware, vCMTS features a secure, containerized architecture that is automation-ready and free from the constraints of chassis-based systems and legacy virtualization, while relieving the operator of the burden of container-orchestration.



### Reliable



#### Resilient HA

All servers active with distributed HA for built-in resiliency.



#### Container Isolation and Resiliency

Isolated container management reduces component interactions.



#### Access Your Data

Accessible, exportable, and never trapped behind proprietary walls.



### Flexible



#### Servers (Density)

High density per server reduces the total number of servers needed.



#### Mix and Match Server Generations

Right size your deployment and avoid EOL challenges.



#### Servers on the Increment

Scale capacity as needed, add incrementally to an existing cluster.



### Simplified



#### More Automation

Automate operations to reduce manual effort, errors, and operational overhead.



#### Orchestration

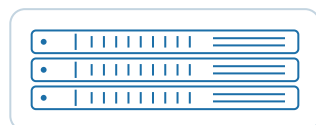
Centralized orchestration simplifies lifecycle management and speeds up operations.



#### Telemetry Included

Built-in telemetry with open access – no additional tools or licenses required.

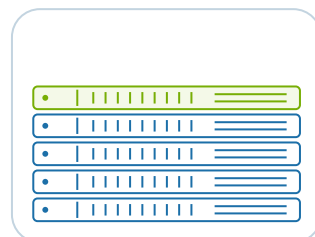
Whether scale is driven by service groups, subscriber counts, or throughput, add servers on the increment to meet your needs.



**3 Servers (Standard)**  
Up to 312 SG

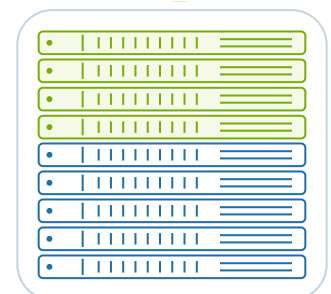


**4 Servers**  
Up to 468 SG



**5 Servers**  
Up to 628 SG

...  
+N



**9 Servers**  
Up to 1200 SG

Long service life. Scale as you grow.



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## Hardware Specifications

| Entra vCMTS BOM | Configurable Capacity (Up to...)                                     | Network Interfaces                                            | Server Type                                                              | Power Supply                                                                                                   | Power Consumption* (varies with active SG count) |
|-----------------|----------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| LD              | 52 SG (1x2) for 3-server cluster.<br>+32 SG per additional server.   | 2 x 100G QSFP28<br>1 x 10/100/1000 Ethernet Mgmt<br>1 x iDRAC | Dell PowerEdge R660 1RU Chassis<br>or<br>Dell PowerEdge R470 1RU Chassis | Optional AC vs. DC supply.<br><br>Dual-Redundant<br>- 1100W 120/240VAC<br>- 1400W 120/240VAC<br>- 1100W -48VDC | 320 W @ 50% CPU<br>405 W @ 85% CPU               |
| HD              | 128 SG (1x2) for 3-server cluster.<br>+64 SG per additional server.  | 4 x 100G QSFP28<br>1 x 10/100/1000 Ethernet Mgmt<br>1 x iDRAC |                                                                          |                                                                                                                | 365 W @ 50% CPU<br>450 W @ 85% CPU               |
| XHD             | 192 SG (1x2) for 3-server cluster.<br>+96 SG per additional server.  |                                                               | Dell PowerEdge R660 1RU Chassis<br>or<br>Dell PowerEdge R670 1RU Chassis |                                                                                                                | 540 W @ 50% CPU<br>650 W @ 85% CPU               |
| UHD             | 312 SG (1x2) for 3-server cluster.<br>+160 SG per additional server. |                                                               |                                                                          |                                                                                                                | 630 W @ 50% CPU<br>740 W @ 85% CPU               |

\* Estimated based on server BOM

## Physical and Environmental Specifications

Dell PowerEdge installation and service manuals: [R660](#), [R470](#), [R670](#).

| Vecima Part Number                                          | Description                                                                                                                         |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Servers</b>                                              |                                                                                                                                     |
| EN-VCMTS-SRV-AC-LD-2 / EN-VCMTS-SRV-DC-LD-2                 | Entra vCMTS 1RU Server, AC/DC Power, 2nd Generation                                                                                 |
| EN-VCMTS-SRV-AC-HD-2 / EN-VCMTS-SRV-DC-HD-2                 | Entra vCMTS High-Density 1RU Server, AC/DC Power, 2nd Generation                                                                    |
| EN-VCMTS-SRV-AC-XHD-2 / EN-VCMTS-SRV-DC-XHD-2               | Entra vCMTS Extra High-Density 1RU Server, AC/DC Power, 2nd Generation                                                              |
| EN-VCMTS-SRV-AC-UHD-2 / EN-VCMTS-SRV-DC-UHD-2               | Entra vCMTS Ultra High-Density 1RU Server, AC/DC Power, 2nd Generation                                                              |
| <b>Licensing</b>                                            |                                                                                                                                     |
| EN-VCMTS-LIC-1x2-SG-1.2G                                    | Entra vCMTS License, Single 1x2 Service Group, 1.2 GHz Plant                                                                        |
| EN-VCMTS-LIC-1x2-SG-1.8G-HS<br>EN-VCMTS-LIC-1x1-SG-1.8G-UHS | Entra vCMTS License, Single 1x2 HS Service Group, 1.8 GHz Plant<br>Entra vCMTS License, Single 1x1 UHS Service Group, 1.8 GHz Plant |
| EN-VCMTS-LIC-1x2-UPG-600MHz                                 | Entra vCMTS License, Single Service Group, 1.2 GHz to 1.8 GHz Plant Upgrade (Additional DS Spectrum)                                |
| <b>Services</b>                                             |                                                                                                                                     |
| EN-VCMTS-STAGING-SVCS                                       | Entra vCMTS Server Staging Services, Configuration and Burn-in                                                                      |
| <b>Support</b>                                              |                                                                                                                                     |
| vCMTS-Gold                                                  | Entra vCMTS Gold-level Support                                                                                                      |