



ON-PREMISE DEPLOYMENT

Delivers Video Conferencing and SIP/H.323 calling

UCS CAPACITY GUIDELINES

The capacity of a single OneScreen Unified Collaboration Server (UCS) node is 1000 users given the server, network, database, NAS, and usage conditions described below. Multiple UCS nodes can be grouped into a Unified Collaboration Grid (UCG) to increase datacenter capacity. This UCG configuration provides integrated management, redundancy and load balancing features. These features allow a datacenter UCG to expand without practical limits by adding UCS compute nodes. Multiple datacenters can be linked into a Unified Collaboration Federation (UCF) to span network and geographical boundaries.

1000 user capacity assumptions:

1. Less than 60% of the users are online at any one time
2. Less than 20% of online users are in a meeting
3. The average meeting size is close to 2 users
4. This estimate is for pure native OneScreen client meeting usage. It does not include Hype, H.323, SIP, PSTN gateway, or recorder usage.

UCS node hardware specifications:

- HP DL160, Dell R430, or equivalent
- Dual Xeon E5-2620 CPUs or better
- 16GB RAM or better
- 40G+ SSD, SATA, or better boot drive
- RAID1 or better
- ILO, DRAC, or other embedded management access
- Redundant gigabit network connections
- Redundant power supplies
- CentOS 6 Operating System

Customer provided services:

A single UCS does not require any additional services. A UCG requires the following:

- High availability MySQL database, accessed via Unix ODBC from the UCS nodes, typical 20kb usage per user depending on history retention.
- High availability NAS providing shared file services to the UCS nodes, typical 200kB usage per user. Any recorder storage is separate.
- Reliable database and NAS services are critical for UCS operations.

Datacenter notes:

- A single centralized datacenter is recommended to simplify administration and eliminate database and NAS sharing complexities.
- Datacenter must provide adequate bandwidth access to all customer ISPs.
- Gigabit network links required for peak capacity per server.