

SmartTAP™ Call Recording

Hardware and Software Requirements Version 4.3

This document describes the hardware and software requirements for installing SmartTAP.



Note: Microsoft rebranded *Lync* as *Skype for Business*, therefore when the term *Skype for Business* appears in this document, it also applies to Microsoft Lync.

1 Minimum System Requirements

1.1 Server Configurations

The following table lists the maximum available resources for three different SmartTAP server profiles and for the Media Proxy and Announcement servers.

Table 1-1: SmartTAP Server

Server	Specification	Available Resources
SmartTAP server (Low Profile)	2 Core 2.5 GHz 6 GB Memory 2 SATA 7200 RPM HDD* Dual Gb NIC PCIe slots FL / FH2**	50 resources (audio only) 25 resources when Media Proxy Service is installed on the same server (audio only)
SmartTAP server	6 Cores 2	150 resources

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(Medium Profile)	GHz**** 8 GB Memory 2 SATA 7200 RPM HDD* Dual Gb NIC PCIe slots FL / FH2**	50 resources when Media Proxy Service is installed on the same server (audioonly)
SmartTAP server*** (High Profile)	12 Core 2 GHz**** 14 GB Memory 2 SATA 7200 RPM HDD* Dual Gb NIC PCIe slots FL / FH2**	300 resources
Media Proxy server***	Quad Core 2 GHz 8 GB Memory SATA 7200 RPM HDD Dual Gb NIC	300 resources
Announcement server***	Quad Core 2 GHz 8 GB Memory SATA 7200 RPM HDD Dual Gb NIC	300 resources (assuming the announcement length does not exceed 20% of an average call length)

^{*} SmartTAP server requires two dedicated HDDs - one for the Windows OS, SmartTAP software and DB and another for the recorded media. The media HDD is required for both local or remote media storage (in the case of remote storage it is used for intermediate storage of the media). When running the SmartTAP Server in a virtual environment, the HDDs has dedicated and **SmartTAP** to be mapped to server ** PCIe Full Length / Full Height slots. The number of slots required is determined by the number of Analog Stations required to record. Each card can record 24 channels (i.e., 56 **Phones** will require three PCle card *** A group of these servers can be deployed when more than the supported recording capacity in one server is required. An additional high-end server is required to be deployed for the Application Server and Database.

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**** Higher CPU speed (higher than 2.0 GHz) is recommended to accelerate download and playback for Video and Desktop sharing recorded calls.



Note: When running in a virtual environment, all specification resources listed in Table 1-1 must be reserved for all SmartTAP servers.

To determine the server specification, calculate the required available resources. The calculation of the required resources is based on the number of licenses multiplied by one of the factors specified in the table below.

Table 1-2: License Factors

License Type	Factor
Audio Recorder License	1
Video Recorder License	10
Announcement License	1
Desktop Sharing	5

 Calculate the required number of resources on the SmartTAP server and the Media Proxy server according to the following formula:

Required Number of Resources = (Number of Audio Recorder Licenses)*(Audio Recorder License Factor) + (Number of Video Recorder Licenses)*(Video Recorder License Factor) + (Number of Desktop Sharing Recorder Licenses)*(Desktop Sharing Factor)

Choose the SmartTAP server and Media Proxy server with the number of available resources equal or higher than the required recording resources.

■ Calculate the required number of resources on the Announcement server according to the following formula:

Required Number of Resources = (Number of Announcement Licenses)*(Announcement License Factor)

- **Example 1:** 100 Audio Recorder Licenses:
 - Required Number of Resources = (100 Audio Recorder Licenses)*(1 Audio Recorder License Factor) = 100
 - Choose Medium Profile SmartTAP server and one Media Proxy server
- **Example 2:** 30 Video Recorder Licenses:
 - Required Number of Resources = (30 Video Recorder Licenses)*(10 Video Recorder License Factor) = 300
 - Choose High Profile SmartTAP server and one Media Proxy server

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- Example 3: 50 Audio Recorder Licenses and 20 Video Recorder Licenses:
 - Required Number of Resources = (50 Audio Recorder Licenses)*(1 Audio Recorder License Factor) + (20 Video Recorder Licenses)*(10 Video Recorder License Factor) = 50 + 200 = 250
 - Choose High Profile SmartTAP server and one Media Proxy server
- **Example 4:** 40 Audio Recorder Licenses:
 - Required Number of Resources = (40 Audio Recorder Licenses)*(1 Audio Recorder License Factor) = 40
 - Choose either of the following:
 - Medium Profile SmartTAP server with Media Proxy service installed on the SmartTAP server
 - Low Profile SmartTAP server and separate Media Proxy server
- **Example 5:** 200 Audio Recorder Licenses with Announcement:
 - For SmartTAP server and Media Proxy servers:
 - Required Number of Resources = (200 Audio Recorder Licenses)*(1
 Audio Recorder License Factor) = 200
 - Choose High Profile SmartTAP server and one Media Proxy server
 - For Announcement server:
 - Required Number of Resources = (200 Announcement Licenses)*(1
 Announcement License Factor) = 200
 - Choose one Announcementserver
- Example 6: 50 Audio Recorder Licenses and 50 Desktop Sharing Recorder Licenses:
 - For SmartTAP server and Media Proxy servers:
 - Required Number of Resources = (50 Audio Recorder Licenses)*(1
 Audio Recorder License Factor) + (50 Desktop Sharing Recorder
 Licenses)*(5 Desktop Sharing Recorder License Factor) = 300
 - Choose High Profile SmartTAP server and one Media Proxy server



2 Supported Operating Systems

- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2008 R2

3 Windows Updates

- Recommended to disable Automatic Windows updates to prevent unknown side effects.
- Recommended to perform system backup before applying updates.
- AudioCodes only certifies major Service Pack updates.

3.1 Installing Windows Updates

- Schedule a maintenance window. SmartTAP will not be recording during this timeframe.
- Download and install Windows updates.
- Reboot the server even if Windows does not ask you to reboot to finish installing updates.
- Windows may continue installing updates after the system restarts, which may cause instability within SmartTAP.
- Once Windows updates are complete, reboot the server again.



4 Supported VM Environments

4.1 VMware ESXi

- Version 4.1 and later (IP-based integrations only)
- See the SmartTAP Installation Guide for instructions on how to enable promiscuous mode required for a SmartTAP system that is monitoring (tapping) the network.

4.2 Microsoft Hyper-V

- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012 64-bit
- Windows Server 2008 R2 SP1 or latest service pack
- Windows Server 2008 R2



Note: Hyper-V does not support promiscuous mode. Do not use in Passive integration environments.

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5 Active / Standby Resiliency Configuration (Optional)

AudioCodes supports Microsoft™ Windows Clustering in the failover configuration, which provides high available service to the SmartTAP application. To support this type of install, the following is required:

- Two identical Windows 2008 R2 or 2012 servers, which meet the minimum specifications mentioned above
- A SAN (Storage Area Network) with iSCSI support. The SmartTAP cluster requires at least two Internet Small Computer System Interface (iSCSI) targets one for the disk witness/quorum, and another for the database and shared application data. A 3rd iSCSI target "Optional" is required for the media storage. SmartTAP should not be configured to write the media directly to the 3rd media target; instead, it should be set as Media Transfer Service destination.

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