BROADSTREAM

VM Host Specifications

OASYS
INTEGRATED PLAYOUT

Validated Hardware for the VM Host

OASYS VIP
Virtualized Integrated Playout

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This document provides the hardware specifications and requirements needed to host virtual machines running OASYS Integrated Playout applications. **NOTE: Hardware that does not fit these specifications needs to be validated and approved by BroadStream before going on-air.**

VALIDATED HARDWARE REQUIREMENTS FOR THE HOST

- **Operating System**
  - Hyper-V on Windows Server 2019 or newer.
  - VMs need to run on Windows Server 2025.
- **Motherboard**
  - Currently the Supermicro H13 motherboard has been verified for OASYS virtualization usage. Other motherboard models need to be verified.
- **Processor**
  - AMD EPYC 9004 series (Zen 4) or 9005 series (Zen 5)
  - Minimum base clock 2.2 GHz
  - Minimum all core boost speed of 3.1 GHz
  - Minimum 2 MB L3 cache per core
  - Actual number of cores depends on the number of channels to be hosted.
- **CPU Cores and RAM per channel, input, and output**
  - The number of cores and RAM depend on the number of channels hosted. The number of input and outputs per channel are also a factor. Please consult with BroadStream for specific numbers.
- **RAM (Memory)**
  - 12 channel DDR% (12 RAM modules)
  - Minimum frequency of 4800 MHz (4800MT/s)
  - RAM size depends on the number of channels to be hosted.
- **Storage for virtual hard drives**
  - Each VM virtual hard drive (C: Windows drive) to be stored on a SSD drive
  - SSD grade performance needs to be kept for each VM if they are stored on the same SSD, meaning their total sequential read/write speed needs to be enough to cover 500 MBs for each VM simultaneously.
  - 200 GB of space is required for each VM
  - Recommend enterprise-grade m.2 SSD drives running RAID 1
- **Storage for media files**
  - Assume recorded and played media files do not exceed 50 Mb/s. Each VM must have access to storage with a minimum 100 MB/s sustainable sequential read/write speeds.
  - Minimum speeds must always be available for the VMS.
  - The storage can use SSD's or mechanical drives, direct part of VM's virtual hard drive, or mapped as iSCSI connection.
  - Using files larger than 50Mb/s needs to be properly tested before use.
- **Network connections – Office backbone**
  - These are used for controlling the playout and fetching missing files
  - 0.5 Gbps of bandwidth for each VM is required for connecting to the office backbone network
  - An adapter can be shared between multiple VM's.
- **IP Streaming**
  - Host machine needs to have a dedicated network adapter port separated from the office backbone NIC
  - The network adapter can be shared between multiple VM's if there is enough bandwidth and overhead to support sharing.