

Mutare giSTT™ Enterprise Appliance Specifications	Document #: 212
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Overview

This document outlines the requirements for a behind the firewall giSTT Enterprise Appliance for speech to text conversions.

Server Specifications

A medium to high end equipped, dedicated, server is required. Must be a physical server – virtual servers are not allowed. While results may vary slightly depending on intricate details of hardware, the following general guideline should yield approximate 2-3X duration turnaround per speech to text channel assuming 1 engine per CPU/HT.

Server Hardware Specifications:

- Processors: 64-bit Intel Xeon processor core running at 2.5GHz or greater with HT technology.
- One core processor/HT is required for each concurrent Recognizer/Delivery engine pair (up to 32 core processors are supported).
- 1.5GB RAM for each core processor.
- In addition to the above 1.5GB per core requirement, a minimum of 6GB of RAM is required for operating system use. (The operating system is embedded on the USB flash drive.)
- No hard drive is required.
- A BIOS that supports booting from USB drives is required.
- One Ethernet port is required.
- A dedicated USB port is required on the server. The dongle must remain in the dedicated USB port. Removing it causes the software to halt and requires a restart.
- USB 1 or USB 2 is supported. Do not use the dongle in a USB 3 port.
- NOTE: No other USB ports may be used on the USB bus on which the dongle-controlled software is installed.
- NOTE: Servers with Advanced Management Modules that use USB-based storage need to be disabled in the BIOS and/or the Management Module software.

As examples of planning a system with the above specifications:

- A quad core Xeon/HT with 12GB of RAM installed will run four concurrent Recognizer/Delivery engine pairs (1.5 x 4 + 6).
- An Intel Core i7 (quad quad) with HT enabled and 64GB of RAM installed will run 32 concurrent Recognizer/Delivery engine pairs (1.5 x 32 + 6).

Server Configuration Requirements:

Mutare will ship a USB dongle and instructions to the customer. Customer will install the dongle, configure the networking for the server and Mutare will access the server from the Application Server to complete the configuration and licensing.

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Estimating the Number of giSTT Channels Needed

The table below provides a rough estimate on the number of channels needed based on the giSTT mailbox subscriptions purchased. These estimates are based on an average of 30 second messages, as well as each mailbox receiving an average of 30 messages per month.

Number of Mailboxes	Number of Channels	Cores/Threads	RAM
100	2	2	9 GB
350	4	4	12 GB
750	6	6	15 GB
1,150	8	8	18 GB
1,950	12	12	24 GB
2,750	16	16	30 GB
3,550	20	20	36 GB
4,350	24	24	42 GB
5,950	32	32	54 GB