Log File Management Tool Deployment and User's Guide

LFMT Storage and Resource Sizing

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LFMT Storage and Resource Sizing

The following section describes how to size hardware for the LFMT Server Host(s).

For information on storage requirements for the LFMT Client Host(s), please refer to the Genesys Administrator Extension (GAX) Deployment Guide.

Sizing Approach

LFMT Sizing can be approached in two ways:

Detailed Sizing

- The **Detailed Sizing** (i.e. production) procedure facilitated by the sizing table below will guide you to collect the information required to produce a strong estimate for your LFMT sizing needs. This will allow you to factor in your expected call volumes including peaks, your preferred log retention period, etc.

Simplified Sizing

- If a more expedient LFMT Sizing is preferred (i.e. a lab/test environment), the **Simplified sizing** can provide a guide to get you started more quickly, however, please note:
  - These are approximate, and you may need to adjust your data LFMT Retention Period so that your log producing rate does not overfill the CLS central file storage.
  - It is recommended that you provision the hardware in a way that is easily extendable in the future so you can adjust it to your preferences.
    - e.g. Perhaps your environment data generation rate only allows for 6 days of logs stored on the default proposed storage but your company prefers a longer period, then additional storage may need to be planned.

LFMT - Detailed Sizing Approach (i.e. Production environment)

The Storage requirements for LFMT consists of two parts:

- The first is the space for the host Operating System and the LFMT applications installation.
- The seconds is the CLS storage – the space used by LFMT as workspace and storage for the Log Files it collects and manages.

For the first part, Genesys recommends that the LFMT Indexer and LFMT Collector be installed on the same drive where the host Operating System resides. Minimum recommended storage for this drive is as follows:

- 100GB for hosts running a Linux Operating System
- 160GB for hosts running a Windows Operating System

A separate/additional drive (local to the Collector Host and not a mapped network drive) is recommended for housing the Central Log Storage (CLS).

> **Important**
>
> - To calculate the LFMT Central Log Storage (CLS) requirements, download and refer to the Genesys Log File Management Tool Sizing Template

- The LFMT Sizing XLS requires details of:
  - Site Tab
    - Provide Customer Name and Site/Data-Center
  - Application Tab
    - Provide Application Name (i.e. EMEA_sip_a, APAC_urs_b, Chicago_stat_1), Hostname, Host IP Address, Local Log Path (i.e. /home/genesys/gcti/_logs/Chicago_sip_a/Chicago_sip_a)
  - Volume of Logs Tab
    - Provide Application Name with Approx. Daily Log Volume
  - Number of calls per week Tab
    - Provide the Number of Calls per Week
  - Calculations Tab
    - Provide Number of Days for which Logs will be stored (Retention Period), Average File Size, Indexes per File
  - Results Tab
    - Shows the recommended number of LFMT Hosts/Nodes along with CPUs, RAM, Storage, IO, Throughput
  - Disk IO notes Tab
    - Explanation of Disk IO
  - Additional Information Tab
    - Provide HDD Capacity (MB), Application Name, Version, Segment (MB), Expire, Log Level (not used for Sizing but useful)

Use the following table to estimate the Memory and CPU requirements for the LFMT Server Host(s).

From the sizing template results, average throughput for log generation, or CLS storage requirements can be used as a reference.

Average Throughput	CPU-Processor (Xeon-class 2.2 GHz or better)	Memory	CLS Storage*
Less than 2MB/s	One quad-core processor	4GB to 8GB	Up to 500GB
Between 2-10MB/s	Two quad-core processors	8GB	Up to 2.5TB
Between 10-25MB/s	Three quad-core processors	16GB	Up to 7.5TB
Between 25-50MB/s	Four quad-core processors	16GB	Up to 15TB
Greater than 50MB/s	**Please consult with Genesys Customer Care.**		

LFMT - Simplified Sizing Approach (i.e. lab/test environment)

The Storage requirements for LFMT consists of two parts:

- The first is the space for the host Operating System and the LFMT applications installation.
- The seconds is the CLS storage – the space used by LFMT as workspace and storage for the Log Files it collects and manages.

For the first part, recommends that the LFMT Indexer and LFMT Collector be installed on the same drive where the host Operating System resides. Minimum recommended storage for this drive is as follows:

- 100GB for hosts running a Linux Operating System
- 160GB for hosts running a Windows Operating System

A separate/additional drive is recommended for housing the Central Log Storage (CLS). To calculate CLS storage requirements, refer to the table below.

Use the following table to estimate the Memory and CPU and storage requirements for the LFMT Server Host(s). Average daily call volume can be used as a reference. Note that a deployment would typically have a separate LFMT Server host per datacenter so the sizing should represent the call volume handled by that datacenter.

Average Daily Calls	CPU-Processor (Xeon-class 2.2 GHz or better)	Memory	CLS Storage*
Less than 10k	One quad-core processor	4GB to 8GB	200GB
Between 10k-30k	Two quad-core processors	8GB	500GB

Average Daily Calls	CPU-Processor (Xeon-class 2.2 GHz or better)	Memory	CLS Storage*
Between 30k-120k	Three quad-core processors	16GB	2TB
Greater than 120k	**Please consult with Genesys Customer Care. (Detailed Sizing approach recommended)**		

Important

Storage is based on calculations for 7 days of log files and includes allowance for the operation of the application. When using the Simplified LFMT sizing method, we recommend you start by configuring a low log file retention period (e.g. 3 or 4 days) and then adjust it accordingly after data collection is started and it is clear there is sufficient space for additional retention.