# MTA Advanced Configuration

This sections collect all the advanced settings for the Mail Transport Agent which are not meant to be changed often and for which the default are probably correct.

## MTA Variables

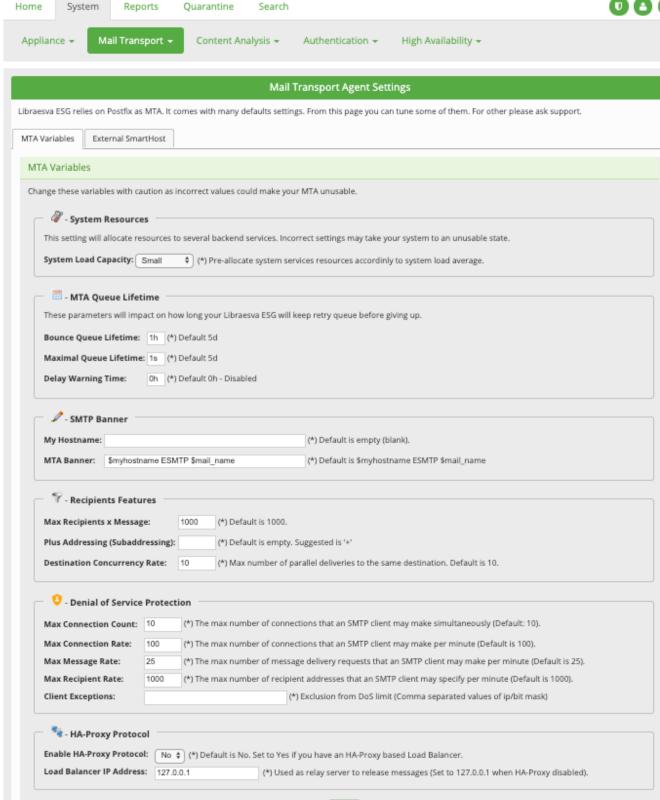All settings in the following page are to change standard variables of your system.

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## Mail Transport Agent Settings

Libraesva ESG relies on Postfix as MTA. It comes with many defaults settings. From this page you can tune some of them. For other please ask support.

| MTA Variables | External SmartHost |

### MTA Variables

Change these variables with caution as incorrect values could make your MTA unusable.

#### 🔧 - System Resources

This setting will allocate resources to several backend services. Incorrect settings may take your system to an unusable state.

**System Load Capacity:** [ Small ▾ ]  (*) Pre-allocate system services resources accordingly to system load average.

#### 📅 - MTA Queue Lifetime

These parameters will impact on how long your Libraesva ESG will keep retry queue before giving up.

**Bounce Queue Lifetime:** [ 1h ]  (*) Default 5d

**Maximal Queue Lifetime:** [ 1s ]  (*) Default 5d

**Delay Warning Time:** [ 0h ]  (*) Default 0h - Disabled

#### 🖊 - SMTP Banner

**My Hostname:** [                                    ]  (*) Default is empty (blank).

**MTA Banner:** [ $myhostname ESMTP $mail_name ]  (*) Default is $myhostname ESMTP $mail_name

#### 🔻 - Recipients Features

**Max Recipients x Message:** [ 1000 ]  (*) Default is 1000.

**Plus Addressing (Subaddressing):** [        ]  (*) Default is empty. Suggested is '+'

**Destination Concurrency Rate:** [ 10 ]  (*) Max number of parallel deliveries to the same destination. Default is 10.

#### 🛡 - Denial of Service Protection

**Max Connection Count:** [ 10 ]  (*) The max number of connections that an SMTP client may make simultaneously (Default: 10).

**Max Connection Rate:** [ 100 ]  (*) The max number of connections that an SMTP client may make per minute (Default is 100).

**Max Message Rate:** [ 25 ]  (*) The max number of message delivery requests that an SMTP client may make per minute (Default is 25).

**Max Recipient Rate:** [ 1000 ]  (*) The max number of recipient addresses that an SMTP client may specify per minute (Default is 1000).

**Client Exceptions:** [                        ]  (*) Exclusion from DoS limit (Comma separated values of ip/bit mask)

#### 🔗 - HA-Proxy Protocol

**Enable HA-Proxy Protocol:** [ No ▾ ]  (*) Default is No. Set to Yes if you have an HA-Proxy based Load Balancer.

**Load Balancer IP Address:** [ 127.0.0.1 ]  (*) Used as relay server to release messages (Set to 127.0.0.1 when HA-Proxy disabled).

**Save**

# System Resources

This setting impact on overall system performances, optimizing services for allocated hardware resources.

Please observe the followings hardware recommendations:

|  | RAM | vCPU | Disk Performances |
|---|---|---|---|
| **SMALL** | 2 GB | 1 vCPU | Standard Storage |
| **MEDIUM** | 4 GB | 2 vCPU | SAS Storage |
| **LARGE** | 8 GB | 4 vCPU | Enterprise Storage |
| **X-LARGE** | 16 GB | 8 vCPU | Enterprise Storage |

×**WARNING:** Incorrect settings may take your system to an unusable state.

# MTA Queue Lifetime

This setting impact on how long your Libraesva ESG will keep queue before giving up. Default is 5 Days. This 5 day period is conform the SMTP RFC 5321. The reason it's not longer than 5 days, is because it's important for the sender to be aware that delivery of their message has been failing for 5 days so they can try and contact the recipient in another way. Keep in mind this consideration when rising this value.

# SMTP Banner

These settings change the way your Libraesva ESG presents itself to other smtp servers. Keep in mind that your hostname must be unique or mail will loop back.

# Recipients Features

The max recipient per messages, impose a limit on the number of recipients allowed in RCPT TO commands for each message. Libraesva ESG rejects RCPT TO commands once the limit is reached.

Subaddressing, known as plus addressing due to its default character, is a feature which allow the use of a tag appended to the local part of an email address. The tag is distinguished from the real local part by finding the *first* occurrence of the specified character (suggested is +). For example, the address `smith+website@example.com` denotes the same recipient as `smith@example.com`, but is tagged with the custom string `website`. The main advantage of subaddressing is that the administrator can create custom transport rules on the mail server based on the tag and, similarly, the user agent can be configured to filter mailbox emails based on tags.

# Denial of Service Protection

These parameters allows you to slow down smtp clients to prevent flooding. All variables are well described in the screenshot above.
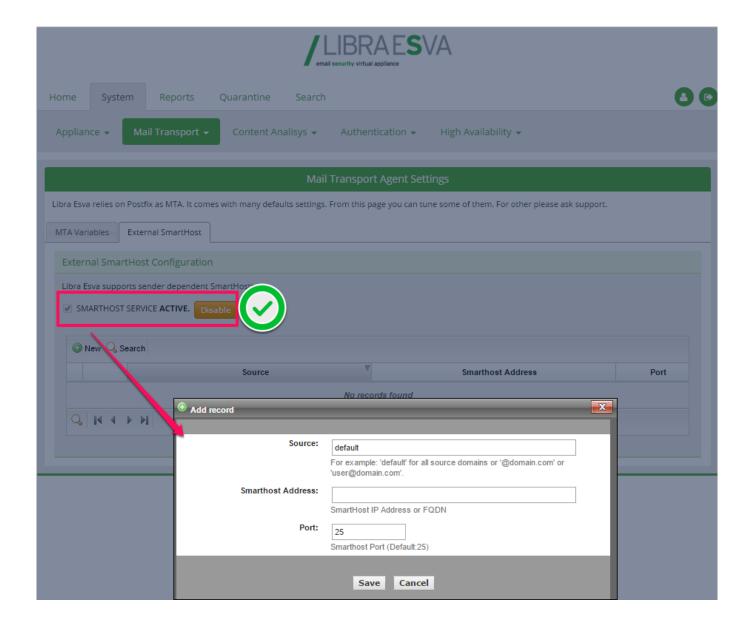
# HA-Proxy Protocol

This setting allow Libraesva ESG to speaks PROXY protocol, as an extension to standard SMTP. This is intended to be used is in combination with an external load balancer that uses the same protocol, like Libraesva LoadBalancer.

×**WARNING:** Enabling this feature without a LoadBalancer before Libra ESVA will break your email flow.

# External Smarthost

ESG normally delivers mail to final destinations, based on its own relay table for incoming messages and via DNS MX record resolution for all other cases.

Multiple smarthosts can be configured simultaneously to specify routes for domain and single recipients, which differ from the default.

- **Source**: use "default" for all source domains or specify a domain (i.e. '@example.com') or email address (i.e. 'user@example.com')

- **Smarthost Address**: the smarthost IP address or FQDN

- **Port**: the smarthost port (default is 25)