LISTSERV Maestro Admin Tech Doc 1

Configuration Files

October 26, 2016 | © L-Soft Sweden AB
lsoft.com

This document is a LISTSERV Maestro Admin Tech Doc. Each admin tech doc documents a certain facet of the LISTERV Maestro administration on a technical level. This document is number 1 of the collection of admin tech docs and explains the topic "Configuration Files".

Last updated for LISTSERV Maestro 7.2-1 on October 26, 2016. The information in this document also applies to later LISTSERV Maestro versions, unless a newer version of the document supersedes it.

All of L-Soft's manuals for LISTSERV are available in ASCII-text format via LISTSERV and in popular word-processing formats via ftp.lsoft.com. They are also available on the World Wide Web at the following URL:

URL: http://www.lsoft.com/manuals.html

L-Soft invites comment on its manuals. Please feel free to send your comments by e-mail to: MANUALS@LSOFT.COM

Table of Contents

1 Introduction to LISTSERV Maestro INI-Files

The following rules apply to the INI-files "`lui.ini`", "`hub.ini`" and "`tracker.ini`" which are the configuration files for the Maestro User Interface, Administration Hub and Maestro Tracker components, respectively (the "`my.ini`" configuration file of the internal MySQL database follows different rules, since it is a third party product, please see the MySQL documentation for details). The rules also apply to the "`tomcat.ini`" and "`backupRestore.ini`" INI-files.

All INI-files are text files that are assumed to be encoded in ISO-8859-1 [Latin 1 – Western European]).

In the files, every parameter occupies one line. Each line must be terminated by a line terminator (`LF`, `CR`, or `CRLF`). All lines in the file are processed.

A line that contains only whitespace or whose first non-whitespace character is an ASCII "`#`" or "`!`" is regarded a comment, and its content is ignored.

Every line other than a blank line or a comment line describes one parameter (except if a line ends with a backslash "`\`", then the following line, if it exists, is treated as a continuation line, as described below).

A parameter always consists of a key and a value. Keys and values are separated by whitespace or "`=`" or "`:`". Any whitespace around the separation character is also ignored.

All remaining characters on the line become part of the associated value. Some characters which otherwise have special meanings, need to be escaped with a backslash: The ASCII escape sequences "`\t`" (`TAB`), "`\n`" (`LF`), "`\r`" (`CR`), "`\\`" (backslash), "`\"`" (quotation mark), "`\'`" (apostrophe), "`\ `" (space), and "`\uxxxx`" (where "`xxxx`" is the Unicode-value of the required character, expressed in hexadecimal format) are recognized and converted to single characters.

In case the last character on the line is a "`\`", then the next line is treated as a continuation of the current line; the "`\`" and line terminator are simply discarded, and any leading whitespace characters on the continuation line are also discarded and are not part of the parameter value.

The order of the lines and the comments in the file are preserved between sessions, e.g. when the file is written by the application or component, to store settings that have changed during runtime, then the comments and the order of the lines will not be changed. Exception: Comment lines that start with two ASCII "`##`" characters are not preserved, but are removed as soon as the file is stored again.

Examples:

Each of the following four lines specifies the key "`MyKey`" and the associated value "`MyValue`":

```
MyKey = MyValue
     MyKey:MyValue
MyKey               :MyValue
MyKey MyValue
```

The following three lines specify a single parameter:

```
trees                    cedar, oak, maple, \
                              redwood, spruce, \
                              beech, aspen
```

The key is "`trees`" and the associated value is:

```
"cedar, oak, maple, redwood, spruce, beech, aspen"
```

Note that a space appears before each "\" so that a space will appear after each comma in the final result; the "\", the line terminator, and leading whitespace on the continuation line are merely discarded and are not replaced by one or more other characters.

As a last example, the line:

```
cars
```

specifies that the key is "cars" and the associated value is the empty string.

2 Tomcat INI-File Entries

The following table shows all possible entries of the "`tomcat.ini`" file for Tomcat. For any entry which is missing in the INI-file, the corresponding default value is assumed.

Basic Configuration:

Entry Key	Description
AdditionalHost.*N*	Defines an additional host, to be used for added custom content. See "LMA Admin Tech Doc 12 - Adding Content to the Tomcat Server" for details. Default: By default there are no additional hosts.
BindAddress	Defines the local IP-addresses and ports that the server shall bind to, i.e. the server will accept connections only if directed to one of these IP addresses, in combination with the correct port. See also "LMA Admin Tech Doc 6 – IP Addresses and Ports". Default: By default the server binds to **all** addresses of the local computer (i.e. accepts connections on all these addresses), on the default port that is specified by the `Port` setting (see below).
MaxPostSize	Defines the maximum size (in bytes) that the server will accept in a POST request (i.e. the maximum size of bytes that can be "uploaded" to the server). The limit can be disabled by setting it to a value less than or equal to 0. Default: `-1` (i.e. the limit is disabled by default)
Port	Defines the HTTP port used to accept client connections. Default: `80`
ShutdownPort	Defines the port used to listen for shutdown requests. Default: `8007`
Restrict.*CONTEXT*.*N*	Defines a restriction for which IP-addresses are allowed to access a certain context on the server. See "LMA Admin Tech Doc 8 – Restricting Access" for details. Default: By default there are no IP-address restrictions.

HTTPS-related entries (see "LMA Admin Tech Doc 9 – Securing Access with HTTPS" for details):

Entry Key	Description
SecurePort	Defines the HTTPS port used to accept client connections. Default: `443`
SecureServer	Defines if the server is supposed to be secure (`true`) or not (`false`) or defines a list of specific IP-addresses that are to be secure. A secure server uses the HTTPS-protocol, a not-secure server uses the normal HTTP-protocol. Default: `false`

KeystoreFile or KeystoreFile-*IP_ADDRESS*	Only used when "SecureServer=true" or if "SecureServer" defines a list of secured IP-addresses. Defines the name of the keystore-file which contains the server certificate to be used for the HTTPS protocol. The file must exist and must contain a usable server certificate. The given filename must include the full absolute path to the file (on Windows including the drive letter). Default: *none*
KeystorePassword or KeystorePassword-*IP_ADDRESS*	Only used when "SecureServer=true" or if "SecureServer" defines a list of secured IP-addresses. Defines the password used to access the keystore-file as defined by the matching "KeystoreFile" entry. Default: *none*

Advanced Configuration:

Entry Key	Description
AcceptCount	Defines the maximum queue length for incoming connection requests when all possible request processing threads are in use. Any requests received when the queue is full will be refused. Default: 100
AJPConnector	Adds a special Tomcat connector for the AJP protocol, which is necessary to access LISTSERV Maestro through an IIS instance. See "LMA Admin Tech Doc 14 – Sharing a Server with IIS" for details. Default: do not configure an AJP connector.
AllowTrace	Defines if the TRACE HTTP method is enabled (true) or not (false). Default: false
ConnectionLinger	Defines the number of milliseconds during which the sockets used by the server will linger when they are closed. Socket linger can be disabled by setting this entry to "-1". Default: -1 (socket linger is disabled by default)
ConnectionTimeout	Defines the number of milliseconds the server will wait, after accepting a connection, for the request URI line to be presented. Default: 60000
DefaultContext	Defines which context is the default context. See "LMA Admin Tech Doc 12 – Adding Content to the Tomcat Server" for details. Default: no default context used

MaxKeepAliveRequests	Defines the maximum number of HTTP requests which can be pipelined until the connection is closed by the server. Setting this entry to "1" will disable HTTP/1.0 keep-alive as well as HTTP/1.1 keep-alive and pipelining. Setting this entry to "-1" will allow an unlimited amount of pipelined or keep-alive HTTP requests. Default: 100
MaxThreads	Defines the maximum number of request processing threads to be created by this server, i.e. the maximum number of simultaneous requests that can be handled. Default: 200
MinSpareThreads	Defines the number of request processing threads that will be created when the server is first started. The server will also make sure that it has the specified number of idle processing threads available. This entry should be set to a value smaller than that for the entry "MaxThreads". Default: 10
SSL-related entries (see "LMA Admin Tech Doc 9 – Securing Access with HTTPS" for details):	
CertificateAlias or CertificateAlias-*IP_ADDRESS*	Only used when "SecureServer=true" or if "SecureServer" defines a list of secured IP-addresses. Defines the alias (in the keystore) of the server certificate that is to be used. Default: *none* (the first applicable certificate that is found in the keystore will be used)
HttpToHttpsAutoRedirect	Only used when "SecureServer=true" or if "SecureServer" defines a mixed mode. Defines additional HTTP listening addresses/ports for automatic redirect to HTTPS. Default: *no redirect*
KeystoreType	Only used when "SecureServer=true" or if "SecureServer" defines a mixed mode. Defines the type of the keystore-file. Possible types are "JKS" or "PKCS12". Usually you should use keystore files of the "JKS" type. Default: JKS
Secure-*IP_ADDRESS*	Used for the automatic certificate management feature (for Let's Encrypt certificates). See LMA Admin Tech Doc 9 for details. Default: *none*
SSLCiphers	Only used when "SecureServer=true" or if "SecureServer" defines a mixed mode. Defines the SSL/TLS encryption ciphers that LISTSERV Maestro is allowed to use. As the value, specify a comma separated list of the allowed cipher names and/or aliases. Default: DefaultStrong,DefaultStandard

SSLMinimumTLSVersion	Only used when "SecureServer=true" or if "SecureServer" defines a mixed mode. Defines the minimum TLS (or SSL) protocol version that a client must use to be allowed to connect via HTTPS. Default: TLSv1

3 Maestro User Interface (LUI) INI-File Entries

The following table shows all possible entries of the "lui.ini" file for the Maestro User Interface component. For any entry which is missing in the INI-file, the corresponding default value is assumed.

Entry Key	Description
AccessURLBehindProxy	Defines the protocol, host and port that is used by an upstream proxy to access LUI, if the actual users do not access LUI directly but through this proxy. See "LMA Admin Tech Doc 7 – Installing Behind a Firewall or Proxy" for details. Default: *none*
AddJobIdToAllMessages	Defines if the LISTSERV Maestro job-ID should be included in the message-ID of all outgoing mails or not. Set either to "true" or "false". Default: false
AllowCharsetChoice	Defines if the user is allowed to change the content charset on a job-by-job basis, or if he has to accept the default charset (see "DefaultMailCharset"). Default: true
AllowISO-i-Mails	Defines if in outgoing mails the special bi-directional charsets "ISO-8859-6-i" and "ISO-8859-8-i" shall be used instead of their "normal" ISO-8859 counterparts. Default: true
AllowUserAuthenticationWithAdminPassword	Defines if the "Login as This Account" feature that is available in the HUB is enabled or disabled for the admin. Default: false
BounceRemoveWakeupInterval	Defines how often the system looks for bounces and removes bounced addresses from the datasets. Specified as a number, which defines the wakeup interval in hours. Default: 1

ChangeLog	Defines if a change log of subscriber activities (for subscriber lists and datasets) is to be created or not. Also, in case a change log is used, optionally defines the time period for each log (`daily`, `weekly`, `monthly` or `yearly`). See "LMA Admin Tech Doc 18 – Subscriber Activity Changelogs" for details. Default: `false`
CreatePersonalProfileTables	Defines if full personal profiles should be stored in the internal database, when personal tracking is used. Default: `true`
DefaultCustomizationLanguage	Defines the language that is to be used for the membership area subscriber pages of all datasets which do not have their own membership area language defined. The language must be specified using its corresponding two-letter ISO language code (in lower case), as defined by the alpha-2 code of ISO-639-1. (see http://www.loc.gov/standards/iso639-2/englangn.html) Default: "English (Default)"
DefaultMailCharset	Defines the charset that is to be used as the charset of the content for newly created jobs which are not copies of existing jobs. May or may not be changed by user (see "`AllowCharsetChoice`"). Default: `ISO-8859-1`
DisableSpamCheck	Defines if the built-in spam check feature shall be disabled. By default, spam checking is enabled, if the connected LISTSERV instance supports spam checks. Default: `false`
DistributeBaseTimeout	Defines the default timeout for socket connections to LISTSERV, in minutes. Any value less than 1 will be treated as 1, i.e. 1min is the minimum possible timeout. Default: `30`
DistributeChunkSize	Defines if distribute chunking shall be performed, and with which chunk size. A chunk size of zero or less means that no distribute chunking will be performed. A positive non-zero chunk size means, that chunking will be performed with chunks of the given size, but with a minimum size of `10000`, i.e. any positive chunk size less than `10000` will be treated as if `10000` had been specified. Default: `100000`

ExpiredConfirmCleanupInterval	Determines how often the system looks for and cleans out expired unconfirmed subscriptions to subscriber datasets and lists, i.e. subscriptions which were not confirmed during the given expiration interval (see INI-file parameter `OptInConfirmationExpiration`). Specified as a number, which defines the cleanup interval in hours. Default: `1`
ExternalProfileEditConfirmExpiration	The expiration time of unconfirmed external changes to membership area and list subscription profiles, i.e. the maximum amount of time after the user has supplied the changed values on the external profile edit page, during which the user must confirm the changes, otherwise the changes expire (are removed from the temporal storage area). Specified as a number, which defines the expiration time in hours. Default: `96`
FacebookAPIVersion	The Facebook API version that is used when making Facebook API calls. The value specified must be larger than the default value, otherwise it will be ignored. Default: `2.6`
FacebookTokenLifetime	The lifetime of the Facebook login token, in days. The token will be assumed as "stale" when it is older than this value, and a new token will be retrieved upon the next login. This value should always be less than the actual token expiration time as defined by Facebook (which is currently 60 days). Default: `30`
HostName	The host name of the local machine that is to be used whenever a name is required to identify the local host (and no other INI-parameter overrides this for a specific purpose). Default: normal host name (canonical host name) of the server running the Maestro User Interface.
HubRMIPort	Internal communication port (RMI-Port) of the Administration Hub server. Default: `1099`
LogFolder	Defines the folder under which the Maestro User Interface component stores the log files. Default: The "`/lui/logs`" subfolder of the installation folder.
MaxDaysToWaitForBounce	Defines the maximum number of days that the system waits for a potential bounce. Once this interval has elapsed, a delivery to a given address is considered successful and older bounce statistics data for this address is ignored. Default: `14`

`MaxFreeSpaceForLimitedPLOs`	Defines the maximum size that large object files are allowed to use up on disk. Specified as a number, which defines the maximum size as a percentage of the currently remaining free disk space. Must be a number in the range 1-90 and must be specified as a bare number, without a %-sign. The default of "25" means, that each large object file can use up at most 25% of the currently remaining free disk space. Default: `25`
`MinHoursBetweenTwoBouncesToSameAddress`	Defines the minimum number of hours that the system expects to elapse between two bounces for the same address in order to actually count the two bounces separately. If two bounces for the same address occur successively in a time shorter than this interval, they are counted as only one bounce. Default: `12`
`NoBackgroundDistribute`	Set to `true` to **not** use the BACKGROUND distribute feature of LISTSERV. Ignored if the LISTSERV in question does not support BACKGROUND distribute anyway. This is an advanced setting for special purposes. Only set to `true` if you know what you are doing and/or have consulted with L-Soft support. Default: `false`
`NotificationMailRetryDeliveryInterval`	Defines the interval to retry delivery of a notification mail (for example a subscribe confirmation) that could not be sent for some reason. Specified as a number, which defines the interval in hours. Default: `1`
`OptInConfirmExpiration`	The expiration time of unconfirmed subscriptions to subscriber datasets and lists, i.e. the maximum amount of time after the initial subscription, during which the subscriber must confirm the subscription ("double opt-in"), otherwise the subscription expires (is removed). Specified as a number, which defines the expiration time in hours. Default: `48`
`RegistryHubHost`	Host name of the server with the Administration Hub component. Default: `localhost`
`RemoteAdminPassword`	Password for remote log file access. See "LMA Admin Tech Doc 15 – Remote Log Access". Default: *none* (no remote log file access allowed)

`RestoreBackup`	Path name of the folder containing the backup that shall be restored during the next startup. Note: This key will be automatically removed from the INI-file during the next startup. Note: This key is only required to restore old-style backups that were created by LMA 5.0-24 or older. See "LMA Admin Tech Doc 2 – Backups". Default: *none*
`RMIPort`	Internal communication port (RMI-Port) of the Maestro User Interface server. Default: `1099`
`TrackerHost`	Host name of the server with the Maestro Tracker component. Default: `localhost`
`TrackerRMIPort`	Internal communication port (RMI-Port) of the Maestro Tracker server. Default: `1099`
`UnsubscribedCleanupInterval`	Determines how often the system looks for and cleans out subscribers of LISTSERV lists (that are used to back advanced subscriber lists) which have unsubscribed via e-mail (i.e. not via the LISTSERV Maestro web interface). Specified as a number, which defines the cleanup interval length in minutes. Default: `10`

4 Administration Hub (HUB) INI-File Entries

The following table shows all possible entries of the "`hub.ini`" file for the Administration Hub component. For any entry which is missing in the INI-file, the corresponding default value is assumed.

Entry Key	Description
`HostName`	The host name of the local machine that is to be used whenever a name is required to identify the local host (and no other INI-parameter overrides this for a specific purpose). Default: normal host name (canonical host name) of the server running the Administration Hub.
`LogFolder`	Defines the folder under which the Maestro Administration Hub component stores its log files. Default: The "`/hub/logs`" subfolder of the installation folder.
`RemoteAdminPassword`	Password for remote log file access. See "LMA Admin Tech Doc 15 – Remote Log Access". Default: *none* (no remote log file access allowed)

`RMIPort`	Internal communication port (RMI-Port) of the Administration Hub server. Default: `1099`

5 Maestro Tracker (TRK) INI-File Entries

The following table shows all possible entries of the "`tracker.ini`" file for the Maestro Tracker component. For any entry which is missing in the INI-file, the corresponding default value is assumed.

Entry Key	Description
`ActionTrackingCookiesForRootPath`	Defines if action tracking cookies are set for the Tracker specific path "`/trk`" (if set to "`false`") or to the unspecific root path "`/`" (if set to "`true`"). Default: `false`
`DoNotTrack.`*N*	Defines if certain tracking events, from certain IP-addresses, are to be ignored by Tracker. See "LMA Admin Tech Doc 8 – Restricting Access" for details. Default: By default, no tracking events are ignored.
`HostName`	The host name of the local machine that is to be used whenever a name is required to identify the local host (and no other INI-parameter overrides this for a specific purpose). Default: normal host name (canonical host name) of the server running Maestro Tracker.
`HubRMIPort`	Internal communication port (RMI-Port) of the Administration Hub server. Default: `1099`
`LogFolder`	Defines the folder under which the Maestro Tracker component stores the log files. Default: The "`/trk/logs`" subfolder of the installation folder.
`RegistryHubHost`	Host name of the server with the Administration Hub component. Default: `localhost`
`RemoteAdminPassword`	Password for remote log file access. See "LMA Admin Tech Doc 15 – Remote Log Access". Default: *none* (no remote log file access allowed)
`RMIPort`	Internal communication port (RMI-Port) of the Maestro Tracker server. Default: `1099`