

Release Notes for LISTSERV® Version 16.0-2014a

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LISTSERV 16.0-2014a includes all known fixes and patches up to April 23, 2014, as well as a number of new features and enhancements.

**IMPORTANT: LISTSERV 16.0-2014a requires a version 16.0 LAK!
Valid Maintenance expiring on April 23, 2014 or later is also required!**

BEFORE YOU START THE UPGRADE you must obtain and install a LISTSERV version 16.0 product LAK and (for sites with perpetual licensing) an appropriate maintenance LAK, or LISTSERV will not start after the upgrade. **DOUBLECHECK** your LAK before upgrading!

Changes for LISTSERV

EXTENSIBILITY, USABILITY: workaround for DMARC p=reject

LISTSERV list owners and site administrators are still reeling after Yahoo, followed by AOL, implemented aggressive DMARC authentication policies that created giant headaches. Stuck between a rock and a hard place with no advance warning, list administrators have had to resort to a variety of circumventions, from deleting all Yahoo and AOL subscribers to putting the list address in the "From" field, thus causing all private replies to be broadcast to the list without warning and inviting mail clients to submit out-of-office messages to the entire list. The solution L-Soft has developed for LISTSERV does not require anyone to make compromises or lose any functionality -- not even the Yahoo and AOL subscribers.

When LISTSERV receives a posting to a mailing list, it queries DNS to see if the sending domain in the From: address has a DMARC record with p=reject. There is nothing to configure, it is done automatically. If additional ISPs (besides Yahoo.com and AOL.com) decide to implement the p=reject rule, LISTSERV will automatically detect this and adjust its behavior accordingly.

If the message comes from such a domain, LISTSERV rewrites the "From:" address to "[token]-dmarc-request@LISTSERV.EXAMPLE.COM" (see example below). The poster's full name is left unchanged. Most mail clients do not show the actual address, only the name, so most users will not see any obvious difference.

If a list member decides to send a private reply to the sender (i.e. not to the list), via the re-written special address, LISTSERV forwards it to the original "From:" address. The token is unique to each sender and only works via the same LISTSERV instance.

No need for anyone to change their habits and their mail folder filing rules for incoming mail.

Note this is not a 'full' implementation of DMARC as LISTSERV does not attempt to validate SPF records in DNS nor does it attempt to verify DKIM signatures from any sending domains.

This is what it looks like in the LISTSERV log file:

```
>21 Apr 2014 12:21:56 Processing mail from user@YAHOO.COM for TEST2
>21 Apr 2014 12:21:56 "From:" address rewritten due to p=reject DMARC rule
>> Old address: user@YAHOO.COM
>> New address: 00000003f16b4808-dmarc-request@LISTSERV.EXAMPLE.COM

>21 Apr 2014 12:22:36 From MAILER@LISTSERV. EXAMPLE.COM: X-ADMMAIL
00000003f16b4808-dmarc-request@LISTSERV.EXAMPLE.COM
>21 Apr 2014 12:22:36 -> Forwarded to user@YAHOO.COM
```

The original non-re-written address will be written to the list message archives files. This makes message threading and searching just like it was before.

On Windows, handling of the tokenized forwarding address is automatic. On Unix platforms, admins will need to implement a wildcard alias for *-request@... Email addresses. L-Soft Support has published suggestions for this for Postfix and sendmail.

USABILITY: New Parameter for REVIEW Command

As you know, the REVIEW command can be used to generate a listing of list subscribers. A new parameter has been added. With this parameter, LISTSERV will list local subscribers as usual, but additionally LISTSERV will cascade through any Sub-Lists and sub-sub-lists so you can verify the total of all recipients that will be mailed to. This includes pulling recipients for Dynamic Query sub-lists from SQL or LDAP sources.

REVIEW listname RCPT or REVIEW listname Recipients

```
sub1@BOUNCES.LSOFT.COM No Name Available
sub2@BOUNCES.LSOFT.COM No Name Available
subsub1@BOUNCES.LSOFT.COM No Name Available
subsub2@BOUNCES.LSOFT.COM No Name Available
user23@EXAMPLE.NET No Name Available
*
* Total number of "concealed" subscribers:      4
* Total number of users subscribed to the list: 5 (non-"concealed" only)
* Total number of local host users on the list: 1 (non-"concealed" only)
* Number of sub-lists:                          2
```

USABILITY: New Command SHOW WORKERS

When using [SMTP Worker Pools](#) it can be useful to check if any worker is stalled or hung. The command is simply Show WORKERS.

```
# Target/Status
----
1 bounces.lsoft.com
  17:36:10.267 Idle

2 discard.lsoft.se:5025
  17:36:11.454 Idle
```

```
3 127.0.0.1:2025
  17:36:12.329 Idle
```

This command is intended primarily for use on Windows where it integrates with SMTPW.exe. The command is also available on unix, but there is no status information; instead, the pid is shown on the second line.

SECURITY: Cryptographic enhancements

LISTSERV now encrypts user passwords with a SHA-256 hashing algorithm. Previously a SHA-1 algorithm was used. LOGIN tickets are now created using a Cryptographic-strength random number generator.

HPO-specific changes and improvements

Identify HPO-only options in the web interface. Many users are delighted by the variety of settings on the Site Configuration pages of the WWW interface and 'go wild' trying to set everything in sight. However many options apply only in conjunction with a HPO license. They have no effect with LISTSERV Classic. Now, HPO-only settings either are not shown at all, or return an appropriate error message when you try to set it if you are not running HPO.

Background DISTRIBUTE is an HPO-only feature to enhance mailing performance, especially for mail-merge mailings. However, disk corruption or other disk problems could stop mailings. The process has been made more robust and self-correcting. There is also a method to rebuild and restart background DISTRIBUTE jobs if necessary to recover a stopped mailing.

OTHER: Miscellaneous changes and enhancements

Several improvements attempt to make LISTSERV more friendly for Microsoft Exchange users. LISTSERV recognizes and tries to filter Exchange 2010 autoreply subject lines. LISTSERV removes the 'mailto:' tags added by Outlook/Exchange to addresses in command messages. LISTSERV attempts to filter Exchange recall messages.

Use of a DQL query is now supported for the "Moderator=" keyword. The settings in the list "Default-Options=" now apply to the addresses imported via a DQL sub-list query.

Reduced fragmentation of index files for list message archives (mainly on Windows).

List configuration settings "List-ID=" and "List-Address=" can now be set only by a postmaster.

There have been cases where files or file fragments may remain in the X:\LISTSERV\WWW\ARCHIVES\UPLOAD directory for a long time. LISTSERV now cleans this directory much more aggressively on startup:

```
2 Apr 2014 11:00:22 Cleaning up upload directory...
2 Apr 2014 11:00:28 -> 543 files deleted
```

There is improved logging of TCGUI commands in the LISTSERV log file.

Bug fixes:

Do not insert top/bottom banner inside message/RFC822 part.

Blank DBMS option column now uses default list settings.

Re-indexing error when X-LSV-RSS-Abstract: tag is used is now corrected.

Mail template strings are now converted to UTF-8 before comparisons.

Cache header of newly created list is now fully initialized.

The CHARSET prefix command is now detected for all command cases.

Unicode indexes had an incompatibility with the GETPOST function for highly complex messages; this has been corrected.

The .DD &MAILHEADER variable substitution incorrectly included X-LSV tags from the message.

RAC files will not be created for bounces (Windows).

The text part of rejected postings now has a MIME 'Content-Type:' header.

'&*' sequences (used to preface substitution variable names) will not be encoded when "Language= HTML" so that substitutions will work correctly.

QUERY ***GUI*** XXXXX could fail for lists named F, FI, FIL with a 'missing parameter' error as this could be confused with the 'QUERY FILE filename' command. This has been corrected.

Editing the SMTP_FORWARD_n variable using the web interface incorrectly presented a RELOAD button when a full RESTART was actually required. This has been corrected.

X-LOGCK CHARSET prefix command was not correctly detected in all cases has been corrected.

Word searches of message archives are now correctly handled in the reverse index.

Spam whitelist is now case-insensitive as intended.

Changes for WA

Windows and Linux builds should now have WA.exe or WA version R4570 which addresses several Cross Site Scripting Vulnerabilities:

<http://www.securityfocus.com/bid/55082>

CVE-2010-2723

Applying LISTSERV 16.0-2014a

1. This document does not include upgrade instructions. Please see the installation guide specific to your OS platform for upgrade instructions.

Unix: [LISTSERV 16.0 for Unix Installation Manual](#)

Windows: [LISTSERV 16.0 for Windows Installation Manual](#)

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