

Comparison of mail servers

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This is a **comparison of mail servers**: mail transfer agents, mail delivery agents, and other computer software which provide e-mail services.

Linux-based mail servers are built using a number of components because a Linux environment is, by default, a toolbox^[1] operating system. A stock Linux server already has internal mail. To allow the server to send external emails, a Mail Transfer Agent such as sendmail, postfix or exim is required. Mail is read either through direct access (shell login) or mailbox protocols like POP and IMAP.

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Feature comparison

Mail server	Server OS support			Features													Storage			Users
	Linux/Unix	Windows	Mac OS	SMTP	POP3	IMAP	IMAP IDLE	SMTP over TLS	POP over TLS	IPv6	NNTP	SSL	Webmail	ActiveSync	Database	Filesystem	Other	License		
agorum core	Yes	Yes	No	Yes	No	Yes	?	No	No	?	No	Yes	Yes	No	Yes	No	No	GPLv2		
Apache James	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	?	Yes	Yes	No	No	Yes	Yes	No	ASLv2		
Atmail	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	?	No	Yes	Yes	Yes	Yes	Yes	No	Proprietary (100 user/30 day demo)		
Axigen	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Ajax & Basic	Yes	No	No	Yes	Proprietary (free version: email 5 users / calendar 5 users)		
BlueMind	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	?	No	Yes	Yes	Yes	Yes	Yes	Yes	AGPL v3		
Citadel	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	?	?	Yes	Yes	No	Yes	No	No	GPLv3		
CommuniGate Pro	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Proprietary (Free for up to 5 users)		
Courier Mail Server	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	?	Yes	Yes	No	No	maildir	No	GPLv3 ^[2]		
Cyrus IMAP	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes (indexes)	Yes	Yes	4-clause BSD ^[3]		
Dovecot	Yes ^[4]	No ^[4]	Yes ^[4]	No	Yes	Yes	Yes	No	Yes	Yes	No	Yes	No	No	No	maildir, mbox, dbox	No	Mixed: MIT and LGPL 2.1 ^[5]		
Eudora Internet Mail Server	No	No	Yes	Yes	Yes	Yes	?	No	No	?	No	No	No	No	No	No	Yes	Proprietary		
Exim	Yes	Yes (via Cygwin)	Yes	Yes	Dovecot, UW IMAP	Dovecot, UW IMAP	Dovecot, UW IMAP	Yes	No	Yes	No	Yes	No	No	Yes	Yes	No	GPLv2+ ^[6]		
FirstClass	Yes	Yes	Yes	Yes	Yes	Yes	?	Yes	Yes	?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Proprietary		
Gordano Messaging Suite	Yes	Yes	No	Yes	Yes	Yes	?	Yes	Yes	?	No	Yes	Yes	No	Yes	Yes	Yes	Proprietary		
GroupWise	Yes	Yes	No	Yes	Yes	Yes	?	Yes	Yes	?	?	Yes	Yes	Yes	Yes	No	No	Proprietary		
Haraka	Yes	Yes	Yes	Yes	No	No	No	Yes	No	No	Yes	No	No	No	Yes	Yes	Yes	MIT		
Mail server	Linux/Unix	Windows	Mac OS	SMTP	POP3	IMAP	IMAP IDLE	SMTP over TLS	POP over TLS	IPv6	NNTP	SSL	Webmail	ActiveSync	Database	Filesystem	Other	License		
hMailServer	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	GNU AGPL		
IBM Lotus Domino	Yes	Yes	No	Yes	Yes	Yes	?	Yes	Yes	?	Yes	Yes	Yes	Yes	Yes	No	No	Proprietary		
IceWarp Mail Server	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Proprietary		
Ipswitch IMail Server	No	Yes	No	Yes	Yes	Yes	?	Yes	Yes	?	No	Yes	Yes	Yes	No	Yes	No	Proprietary		
Kerio Connect	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Proprietary		
Kolab	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	GPLv3		
MagicMail	Yes	No	No	Yes	Yes	Yes	?	Yes	Yes	?	No	Yes	Yes	No	Yes	Yes	Yes	Proprietary		
MailSite	No	Yes	No	Yes	Yes	Yes	?	Yes	Yes	?	No	Yes	Yes	Yes	Yes	Yes	Yes	Proprietary		
Mailtraq	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	?	Yes	Yes	Yes	No	Yes	Yes	Yes	Proprietary		
MDaemon Messaging Server	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Proprietary		
Mercury Mail Transport System	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	?	No	Yes	Yes	No	No	Yes	No	Proprietary donationware		
Microsoft Exchange Server	No	Yes	No	Yes	Yes	Yes	Yes ^{[7][8]}	Yes	Yes	Yes (2007 sp1 onwards) ^[9]	Yes	Yes	Yes	Yes	ESE only	Yes (up to 2003 only) ^[10]	Yes	Proprietary		
Momentum	Yes	No	No	Yes	No	No	No	Yes	No	Yes	No	Yes	No	No	Yes	Yes	No	Proprietary		
NetMail	Yes	Yes	No	Yes	Yes	Yes	?	Yes	Yes	?	?	Yes	Yes	No	Yes	No	No	Proprietary		
OpenSMTPD	Yes	No	Yes	Yes	No	No	No	Yes	No	Yes	No	Yes	No	No	possible through custom backends	Yes	No	ISC		
Open-Xchange	Yes	No	No	Yes	Yes	Yes	?	Yes	Yes	?	?	Yes	Yes	Yes	Yes	Yes	No	Proprietary/SaaS, with open-source parts ^[11]		
Mail server	Linux/Unix	Windows	Mac OS	SMTP	POP3	IMAP	IMAP IDLE	SMTP over TLS	POP over TLS	IPv6	NNTP	SSL	Webmail	ActiveSync	Database	Filesystem	Other	License		
Oracle Communications Messaging Server	Yes	No	No	Yes	Yes	Yes	?	Yes	Yes	?	No	Yes	Yes	No	Yes	Yes	No	Proprietary		
Postfix	Yes	No	Yes	Yes	Dovecot, UW IMAP	Dovecot, UW IMAP	Dovecot, UW IMAP	Yes	No	Yes	No	Yes	No	No	Yes	Yes	Yes	IBM Public License		
qmail	Yes	No	Yes	Yes	Yes	Dovecot, UW IMAP	Dovecot, UW IMAP	No	Dovecot, UW IMAP	via Qsmtp	?	No	No	No	(cdb)	Yes	No	Public domain		
Qpopper	Yes	via Cygwin	Yes	No	Yes	No	No	No	Yes	?	No	Yes	No	No	No	Yes	Yes	BSD-style (http://www.eudora.com/products/unsupported/qpopper/license.html), GPL-incompatible ^[12]		
Sendmail	Yes	No	Yes	Yes	Dovecot, UW IMAP	Dovecot, UW IMAP	Dovecot, UW IMAP	Yes	No	Yes	No	Yes	No	No	?	Yes	?	Sendmail License (http://ftp.sunet.se/pub/unix/mail/sendmail/LICENSE)		
SparkEngine	Yes	Yes	Yes	Yes	No	No	No	Yes	No	?	No	Yes	No	No	Yes	Yes	Yes	Proprietary		
Synovel Collabsuite	Yes	No	No	Yes	Yes	Yes	?	Yes	Yes	?	?	Yes	Yes	No	Yes	Yes	?	Proprietary with OSS parts. Freeware and paid editions. ^[13]		
UW IMAP	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	?	No	Yes	WebPine	No	Yes (indexes)	Yes	No	Apache License 2.0 ^[14]		
WinGate	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	Yes	No	Proprietary		
Xeams	Yes	Yes	Yes	Yes	Yes	Yes	No	?	?	?	No	Yes	No	No	Yes	No	No	Proprietary (unlimited private/commercial use, support with SLA requires a license)		
Zarafa	Yes	No	No	External ^[15]	Yes	Yes	Yes	External ^[15]	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	AGPLv3, free and paid editions ^[16]		
Zimbra	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	ZPL (http://www.zimbra.com/license/zimbra-public-license-1-3.html) and proprietary editions ^[17]		
Mailenable	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Proprietary (https://www.mailenable.com/licensing/)		
Mail server	Linux/Unix	Windows	Mac OS X	SMTP	POP3	IMAP	IMAP IDLE	SMTP over TLS	POP over TLS	IPv6	NNTP	SSL	Webmail	ActiveSync	Database	Filesystem	Other	License		
Server OS support			Features													Storage			Users	

Authentication

Mail server	SMTP AUTH	POP before SMTP	APOP	Filesystem	Database	LDAP	Other
agorum core	Yes	No	No	No	Yes	Yes	PLAIN, LOGIN, CRAM-MD5, NTLM
Apache James	Yes	?	?	?	Yes	Yes	PLAIN, LOGIN
Atmail	Yes	Yes	Yes	Yes	Yes	Yes	PLAIN, LOGIN, CRAM-MD5, DIGEST-MD5, Active Directory, any LDAP-compatible source
Axigen	Yes	No	Yes	No	No	Yes	GSSAPI, CRAM-MD5, DIGEST-MD5, APOP, CLRTXT, LOGIN, PLAIN, LDAP, Internal
CommuniGate Pro	Yes	Yes	Yes	Yes	Yes	Yes	Active Directory (LDAP), CLRTXT, CRAM-MD5, DIGEST-MD5, APOP, GSSAPI, NTLM, MSN, SESSIONID, External Authentication Plug-in. Also supports X.509 PKI auth via STARTTLS/SSL
Courier Mail Server	Yes	Yes	Yes	Yes	Yes	Yes	Managed by Courier authentication library (http://www.courier-mta.org/authlib/) which can use PAM, Userdb, PostgreSQL(beta), MySQL, LDAP, and EXTERNAL.
Cyrus IMAP	No	Yes	Yes	Yes	Yes	Yes	Supports X.509 PKI auth via STARTTLS and EXTERNAL. Uses Cyrus SASL authentication library for support for other mechanisms: Berkeley DB, GDBM, or NDBM (sasldb), PAM, MySQL, PostgreSQL, SQLite, LDAP, Active Directory(LDAP), DCE, Kerberos 4 and 5, proxied IMAP auth, getpwent, shadow, SIA, Courier Authdaemon, httpform, APOP and SASL mechanisms: ANONYMOUS, CRAM-MD5, DIGEST-MD5, EXTERNAL, GSSAPI, LOGIN, NTLM, OTP, PASSDSS, PLAIN, SRP
Dovecot	No	Yes	Yes	Yes	Yes	Yes	Not an SMTP server, but offers SASL to MTAs. http://wiki.dovecot.org/DovecotFeatures http://wiki.dovecot.org/Authentication . POP-before-SMTP via DRAC plugin. PAM, MySQL, PostgreSQL, SQLite, LDAP, Active Directory(LDAP), Kerberos 5, proxied IMAP auth, getpwent, shadow, SIA, BSDauth, Vpopmail. APOP and SASL mechanisms: ANONYMOUS, PLAIN, LOGIN, CRAM-MD5, DIGEST-MD5, SCRAM-SHA1, EXTERNAL, GSSAPI, NTLM, OTP, SKEY, RPA.
Eudora Internet Mail Server	Yes	No	Yes	Yes	No	No	CRAM-MD5, DIGEST-MD5, PLAIN, LOGIN
Exim	Yes	Yes	Yes	Yes	Yes	Yes	Cyrus SASL, Dovecot SASL, GNU SASL, CRAM-MD5, Heimdal GSSAPI, PLAIN, LOGIN, SPA
FirstClass	Yes	?	?	Yes	Yes	Yes	
Gordano Messaging Suite	Yes	Yes	Yes	No	Yes	Yes	PLAIN, LOGIN, CRAM-MD5, DIGEST-MD5, APOP, ODBC, Active Directory, NT Domain
GroupWise	Yes	Yes	Yes	Yes	Yes	Yes	eDirectory, Any LDAPv3-compliant source
Haraka	Yes	No	No	Yes	Yes	Yes	Proxy to other server, any other mechanism via AUTH plugins.
IceWarp Mail Server	Yes	Yes	Yes	Yes	Yes	Yes	PLAIN, LOGIN, CRAM-MD5, NTLM
Ipswitch IMail Server	Yes	No	Yes	Yes	Yes	Yes	Active Directory, Windows authentication, CRAM-MD5, PLAIN, LOGIN
Kolab	Yes	Yes	Yes	Yes	Yes	Yes	Kolab employs Cyrus and Postfix and thus supports all Cyrus SASL authentication methods and X.509 PKI auth via STARTTLS and EXTERNAL.
Kerio Connect	Yes	Yes	Yes	Yes	Yes	Yes	Active Directory, Apple Open Directory, Pluggable Authentication Modules, PLAIN, LOGIN, CRAM-MD5, internal user database
MagicMail	Yes	No	No	Yes	Yes	No	?
Mailsite	Yes	No	Yes	Yes	Yes	Yes	NT Domain, Active Directory, PLAIN, LOGIN, NTLM, SCRAM-MD5, CRAM-MD5
Mailtraq	Yes	Yes	Yes	Yes	Yes	Yes	NT Domain, Active Directory, Local Directory
MDaemon Mail Server	Yes	Yes	Yes	No	Yes	Yes	Active Directory, PLAIN, CRAM-MD5, LOGIN
Mercury Mail Transport System	Yes	Yes	Yes	Yes	No	?	Internal, LOGIN, PLAIN, CRAM-MD5, Netware, LDAP?, partial NT Domain
Microsoft Exchange Server	Yes	?	Yes	No	No	Yes	Active Directory, LOGIN, ^[18] NTLM
Momentum	Yes	No	No	Yes	Yes	Yes	PLAIN, LOGIN, CRAM-MD5, LDAP
NetMail	Yes	Yes	Yes	Yes	Yes	Yes	eDirectory, LDAP
Oracle Communications Messaging Server	Yes	Yes	Yes	Yes	Yes	Yes	Plain, Login, CRAM-MD5, Digest-MD5, Certificate
OpenSMTPD	Yes	No	No	Yes	Yes	Yes	By default PLAIN and LOGIN over SSL only, Certificates, bsd_auth and PAM. Supports adding new authentication mechanisms through custom backends.
Postfix	Yes	No	No	Yes	Yes	Yes	Supports all Cyrus SASL authentication methods except for APOP.
Qpopper	No	Yes	Yes	Yes	Yes	Yes	Pluggable Authentication Modules,GSSAPI, CRAM-MD5, DIGEST-MD5, APOP, PLAIN, LDAP, CMU SASL library (http://asg.web.cmu.edu/sasl/), Kerberos
qmail	with patch	with vpopmail	Yes	Yes	Yes	Yes	Works with any checkpassword utility. The original supports only LOGIN and PLAIN. Alternate checkpassword utilities support authentication against PAM, LDAP, and databases.
Sendmail	Yes	Yes	No	Yes	Yes	Yes	Supports all Cyrus SASL authentication methods except for APOP. Also supports X.509 PKI auth via STARTTLS and EXTERNAL.
WinGate	Yes	Yes	Yes	Yes	Yes	No	NT Domain, Active Directory, CRAM-MD5, SASL PLAIN, SASL LOGIN
Zarafa	Yes	Yes	No	Yes	Yes	Yes	Internal, Active Directory, any LDAP-compatible source, Unix
Zimbra	Yes	No	Yes	Yes	Yes	Yes	Internal, LDAP, Open LDAP, Active Directory
Mail server	SMTP AUTH	POP before SMTP	APOP	Filesystem	Database	LDAP	Other

Antispam features

Mail Server	DNSBL	SURBL	Spamtraps	Greylisting	SPF	DKIM	DMARC	Tarpit	Bayesian filters	Regular expressions	Embedded Antivirus	Embedded Antispam
agorum core	No	No	No	No	No	?	?	No	No	Yes	No	No
Apache James	?	?	?	?	?	?	?	?	Yes	?	Yes ClamAV ^[19]	Optional (Apache SpamAssassin)
Atmail	Yes	Yes	Yes	Yes	Yes	?	?	Yes	Yes	Yes	Yes ClamAV	Yes SpamAssassin and Exim ACLs
Axigen	Yes	Yes ^[20]	No	Yes	Yes	?	?	No	Yes, in SpamAssassin	Yes	Yes Commtouch	Yes SpamAssassin
Citadel	Yes	Yes	No	No	Optional (via SpamAssassin)	?	?	No	Optional (via SpamAssassin)	No	Optional (ClamAV)	Optional (SpamAssassin)
CommuniGate Pro	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Optional	Yes	Optional Kaspersky Lab, McAfee, Sophos, Cloudmark (via plugins)	Optional SpamCatcher, Cloudmark (via plugins)
Courier Mail Server	Yes	?	Yes	Yes ^[21]	Yes	Yes ^[22]	?	Yes	Yes ^[21]	Yes ^[21]	Yes Clamav	Yes ^[21]
Dovecot	?	?	?	?	?	?	?	?	?	?	?	?
Eudora Internet Mail Server	Yes	?	Yes	Yes	?	?	?	?	?	?	?	?
Exim	Yes	Yes	Yes	Yes	Optional at build time	Yes	Optional at build time	Yes	Optional with spamassassin etc.	Yes	Optional any	Optional any
FirstClass	Yes	Yes	No	?	Yes	?	?	Yes	Yes	Yes	Yes Symantec	?
Gordano Messaging Suite	Yes	Yes	Yes	Yes	Yes	?	?	Yes	Yes	Yes	Yes Commtouch, Authentium	Yes Commtouch
GroupWise	Yes	?	?	?	?	?	?	?	?	?	?	?
Haraka	Yes	Yes	Yes	Yes	Yes	Yes	?	Yes	Optional with spamassassin etc.	Yes	Optional ClamAV, AVG, any via plugins	Optional SpamAssassin, MessageSniffer
hMailServer	Yes	Yes	No	Yes	Yes	Yes	?	No	No	Yes	Yes ClamAV	Yes SpamAssassin
IBM Lotus Domino	Yes ^[23]	?	?	?	No ^[24]	?	?	?	?	?	?	?
IceWarp Mail Server	Yes	Yes	Yes	Yes	Yes	?	?	Yes	Yes	Yes	Yes	Yes
Ipswitch IMail Server	Yes	Yes	No	No	Yes	Yes ^[25]	Yes ^[26]	No	Yes	Yes	Yes Symantec, BitDefender	Yes Commtouch
Kolab	Yes	?	?	Yes	Yes	?	?	?	Optional with spamassassin etc.	Yes	Optional (via content filter (http://www.postfix.org/FILTER_README.html) interface)	Optional (via content filter (http://www.postfix.org/FILTER_README.html) interface)
Kerio Connect	Yes	Yes	?	Yes	Yes	Yes	?	Yes	Yes	Yes	Optional Sophos + optional secondary (dual)	Yes
MagicMail	Yes	No	Yes	No	?	?	?	?	No	Yes	Yes	Yes
Mailsite	Yes	Yes	Yes	Yes	Yes	?	?	No	Yes	Yes	Yes	Yes
Mailtraq	?	?	?	?	?	?	?	?	?	?	?	?
MDaemon Messaging Server	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Optional Kaspersky Lab	Yes
Mercury Mail Transport System	Yes	?	?	Yes (GreyWall extension)	?	?	?	?	Yes (SpamHalter extension)	?	Yes (ClamWall extension)	?
Microsoft Exchange Server	Yes (2003 & later)	?	?	Yes	Yes	?	?	Yes (2003 & later)	?	?	?	?
Momentum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NetMail	?	?	?	?	?	?	?	?	?	?	?	?
OpenSMTPD	?	?	?	?	Yes	Yes ^[2] (http://www.opensmtpd.org/presentations/asiabscn2013-smtpd/#slide-16)	?	?	?	?	?	?
Oracle Communications Messaging Server	Yes	Yes	Yes	Yes	Yes	?	?	Yes	Optional with spamassassin etc.	Yes	Optional any	Optional any
Postfix	Yes	?	?	Yes	Yes	Optional ^[27]	Optional ^[28]	?	Optional with spamassassin etc.	Yes	Optional (via content filter (http://www.postfix.org/FILTER_README.html) interface)	Optional (via content filter (http://www.postfix.org/FILTER_README.html) interface)
qmail	?	?	?	Yes	?	?	?	?	No	?	No	No
Sendmail	Yes	Yes (via mlfilter/SA)	?	Yes	Optional	Optional ^[27]	Optional ^[28]	?	Optional with spamassassin etc.	?	Yes ClamAV	Yes SpamAssassin
SparkEngine	?	?	?	?	?	?	?	?	?	?	?	?
Synovel Collabsuite	Yes	Yes	Yes	Yes	Yes	?	?	?	Yes	Yes	Yes ClamAV	Yes SpamAssassin
UW IMAP	?	?	?	?	?	?	?	?	?	?	?	?
WinGate	?	?	?	?	?	?	?	?	?	?	?	?
Xeams	?	?	Yes	Yes	Yes	?	?	?	?	?	Optional ClamAV	Yes (Proprietary)
Zarafa	External ^[15]	External ^[15]	External ^[15]	External ^[15]	External ^[15]	External ^[15]	External ^[15]	External ^[15]	External ^[15]	External ^[15]	External ^[15]	External ^[15]
Zimbra	Yes	?	?	?	Yes	Yes	?	Yes	Yes	?	Yes ClamAV	Yes SpamAssassin
Mail Server	DNSBL	SURBL	Spamtraps	Greylisting	SPF	DKIM	DMARC	Tarpit	Bayesian filters	Regular expressions	Embedded Antivirus	Embedded Antispam

See also

- Comparison of email clients
- List of mail archiving
- List of mail servers

References

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- via Kaspersky anti-spam add-on (http://www.kaspersky.com/anti-spam)
- with Courier-pythonfilter filtering framework (http://phantom.dragonsdawn.net/~pardon/courier-pythonfilter/)
- Two DKIM filters can be found in Courier-MTA's links (http://www.courier-mta.org/links.html) page
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- http://www-01.ibm.com/support/docview.wss?rs=463&context=SSKTMJ&dc=DB520&uid=swg2127751&loc=en_US&cs=UTF-8&lang=en&rss=ct463lotus
- http://www.imalserver.com/products/imal-secure-server/
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- via opendkim mlfilter (http://www.opendkim.org/)
- via opendmarc mlfilter (http://www.trusteddomain.org/opendmarc.html)

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