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Updates to SMTP related IANA registries  
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Abstract

While EMAILCORE working group was working on update to SMTP specification, it became clear that existing entries in SMTP related registries are missing information or contain stale information and need to be updated. This document updates such entries.

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## 1. Introduction

While EMAILCORE working group was working on update to SMTP specification [I-D.ietf-emailcore-rfc5321bis], it became clear that existing entries in SMTP related registries are missing information or contain stale information and need to be updated. This document updates such entries, assuming IANA actions specified in [I-D.ietf-emailcore-rfc5321bis] were already performed.

This document doesn't do any restructuring to existing SMTP related registries.

## 2. Conventions Used in This Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here.

## 3. IANA Considerations

### 3.1. Updates to the "Simple Mail Transfer Protocol (SMTP) Service Extensions" registry

Updates to the "Simple Mail Transfer Protocol (SMTP) Service Extensions" registry are described as an ordered list of steps that should be performed sequentially. Each step is described by a subsection of this section.

#### 3.1.1. Updates to the "References" field

IANA is requested to change values of the "References" field for "EXPN" and "HELP" extensions to [I-D.ietf-emailcore-rfc5321bis]. The "References" field values for "SEND", "SOML", "SAML" and "TURN" remain unchanged, as they were obsoleted and there are no newer reference than RFC 821.

#### 3.1.2. Updates to the "EHLO Parameters" field

IANA is requested to update the following values in this field:

1. The value corresponding to the DELIVERBY extension should be changed to "A comma separated list of options (optional)", as per [RFC2852].
2. The value corresponding to the FUTURERELEASE extension should be changed to "max-future-release-interval and max-future-release-date-time", as per [RFC4865].
3. The value corresponding to the LIMITS extension should be changed to "List of limits", as per [RFC9422].

#### 3.1.3. Updates to the "Message submission Use and Values" field

IANA is requested to update values of the "Message submission Use and Values" field corresponding to "HELP", "BURL", "FUTURERELEASE", "SMTPUTF8", "MT-PRIORITY", "RRVS", "REQUIRETLS" and "LIMITS" extensions to "MAY".

#### 3.1.4. Updates to the "Additional verbs", "MAIL/RCPT Parameter Values" fields

IANA is requested to update "Additional verbs" and "MAIL/RCPT Parameter Values" fields as per the table specified below. Information for relevant fields was extracted from existing RFCs describing corresponding SMTP Extensions.

EHLO Keyword	Additional verbs	MAIL/RCPT Parameter Values
SEND	SEND	none
SOML	SOML	none
SAML	SAML	none
EXPN	EXPN	none
HELP	HELP	none
TURN	TURN	none
8BITMIME	none	BODY parameter to MAIL command
SIZE	none	SIZE parameter to MAIL command
CHUNKING	BDAT	none
BINARYMIME	none	BODY parameter to MAIL command (an extra choice was added)
CHECKPOINT	none	TRANSID parameter to the MAIL command
DELIVERBY	none	BY parameter to MAIL command
PIPELINING	none	none
DSN	none	NOTIFY and ORCPT parameters to RCPT command. RET and ENVID parameters to MAIL command
ETRN	ETRN	none
ENHANCEDSTATUSCODES	none	none
STARTTLS	STARTTLS	none
NO-SOLICITING	none	SOLICIT parameter to MAIL

		command
MTRK	none	MTRK parameters to MAIL command. Also see DSN extension parameters
SUBMITTER	none	SUBMITTER parameters to MAIL command
ATRN	ATRN	none
AUTH	AUTH	AUTH parameter to MAIL command
BURL	BURL	none
FUTURERELEASE	none	HOLDFOR and HOLDUNTIL parameters to MAIL command.
UTF8SMTP	none	One optional parameter, ALT-ADDRESS, is added to the MAIL and RCPT commands
CONPERM	none	CONPERM parameter to MAIL command
CONNEG	none	CONNEG parameter to RCPT command
SMTPUTF8	none	SMTPUTF8 parameter to the MAIL command
MT-PRIORITY	none	MT-PRIORITY parameter to MAIL command
RRVS	none	RRVS parameter to RCPT command
REQUIRETLS	none	REQUIRETLS parameter to MAIL command
LIMITS	none	none

Table 1

IANA is further requested to update "Length Added" fields as per the table specified below. Information for this field was either extracted or calculated from information in existing RFCs describing corresponding SMTP Extensions.

EHLO Keyword	Length Added	Comment
SIZE	26	<a href="https://datatracker.ietf.org/doc/html/rfc1870#section-3">https://datatracker.ietf.org/doc/html/rfc1870#section-3</a>
CHUNKING	0	<a href="https://datatracker.ietf.org/doc/html/rfc3030#section-2">https://datatracker.ietf.org/doc/html/rfc3030#section-2</a>
BINARYMIME	16	<a href="https://datatracker.ietf.org/doc/html/rfc3030#section-3">https://datatracker.ietf.org/doc/html/rfc3030#section-3</a>
CHECKPOINT	88	<a href="https://datatracker.ietf.org/doc/html/rfc1845#section-2">https://datatracker.ietf.org/doc/html/rfc1845#section-2</a>
DELIVERBY	17	<a href="https://datatracker.ietf.org/doc/html/rfc2852#section-2">https://datatracker.ietf.org/doc/html/rfc2852#section-2</a>
MTRK	40	<a href="https://datatracker.ietf.org/doc/html/rfc3885#section-2">https://datatracker.ietf.org/doc/html/rfc3885#section-2</a>
AUTH	500	<a href="https://datatracker.ietf.org/doc/html/rfc4954#section-3">https://datatracker.ietf.org/doc/html/rfc4954#section-3</a>
FUTURERELEASE	34	<a href="https://datatracker.ietf.org/doc/html/rfc4865#section-3">https://datatracker.ietf.org/doc/html/rfc4865#section-3</a>
UTF8SMTP	460	<a href="https://datatracker.ietf.org/doc/html/rfc5336#section-3.1">https://datatracker.ietf.org/doc/html/rfc5336#section-3.1</a>
SMTPUTF8	10	<a href="https://datatracker.ietf.org/doc/html/rfc6531#section-3.1">https://datatracker.ietf.org/doc/html/rfc6531#section-3.1</a>
MT-PRIORITY	15	<a href="https://datatracker.ietf.org/doc/html/rfc6710#section-3">https://datatracker.ietf.org/doc/html/rfc6710#section-3</a>
RRVS	33	<a href="https://datatracker.ietf.org/doc/html/rfc7293#section-3.1">https://datatracker.ietf.org/doc/html/rfc7293#section-3.1</a>
REQUIRETLS	11	<a href="https://www.rfc-editor.org/rfc/rfc8689.html#name-iana-considerations">https://www.rfc-editor.org/rfc/rfc8689.html#name-iana-considerations</a>

Table 2

TBD: Calculate "Length Added" when not specified in existing RFCs.  
 Also possibly merge this with the previous table?

#### 4. Security Considerations

This document only specifies IANA related actions, thus it doesn't directly affect security on SMTP or its extensions. However better documentation of SMTP extensions in IANA registries can, hopefully, lead to better and more secure implementations.

#### 5. References

##### 5.1. Normative References

- [I-D.ietf-emailcore-rfc5321bis]  
Klensin, J. C., "Simple Mail Transfer Protocol", Work in Progress, Internet-Draft, draft-ietf-emailcore-rfc5321bis-43, 28 April 2025, <<https://datatracker.ietf.org/doc/html/draft-ietf-emailcore-rfc5321bis-43>>.
- [RFC1845] Crocker, D., Freed, N., and A. Cargille, "SMTP Service Extension for Checkpoint/Restart", RFC 1845, DOI 10.17487/RFC1845, September 1995, <<https://www.rfc-editor.org/info/rfc1845>>.
- [RFC1870] Klensin, J., Freed, N., and K. Moore, "SMTP Service Extension for Message Size Declaration", STD 10, RFC 1870, DOI 10.17487/RFC1870, November 1995, <<https://www.rfc-editor.org/info/rfc1870>>.
- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, DOI 10.17487/RFC2119, March 1997, <<https://www.rfc-editor.org/info/rfc2119>>.
- [RFC2852] Newman, D., "Deliver By SMTP Service Extension", RFC 2852, DOI 10.17487/RFC2852, June 2000, <<https://www.rfc-editor.org/info/rfc2852>>.
- [RFC3030] Vaudreuil, G., "SMTP Service Extensions for Transmission of Large and Binary MIME Messages", RFC 3030, DOI 10.17487/RFC3030, December 2000, <<https://www.rfc-editor.org/info/rfc3030>>.
- [RFC3885] Allman, E. and T. Hansen, "SMTP Service Extension for Message Tracking", RFC 3885, DOI 10.17487/RFC3885, September 2004, <<https://www.rfc-editor.org/info/rfc3885>>.

- [RFC4865] White, G. and G. Vaudreuil, "SMTP Submission Service Extension for Future Message Release", RFC 4865, DOI 10.17487/RFC4865, May 2007, <<https://www.rfc-editor.org/info/rfc4865>>.
- [RFC5336] Yao, J., Ed. and W. Mao, Ed., "SMTP Extension for Internationalized Email Addresses", RFC 5336, DOI 10.17487/RFC5336, September 2008, <<https://www.rfc-editor.org/info/rfc5336>>.
- [RFC6409] Gellens, R. and J. Klensin, "Message Submission for Mail", STD 72, RFC 6409, DOI 10.17487/RFC6409, November 2011, <<https://www.rfc-editor.org/info/rfc6409>>.
- [RFC6531] Yao, J. and W. Mao, "SMTP Extension for Internationalized Email", RFC 6531, DOI 10.17487/RFC6531, February 2012, <<https://www.rfc-editor.org/info/rfc6531>>.
- [RFC6710] Melnikov, A. and K. Carlberg, "Simple Mail Transfer Protocol Extension for Message Transfer Priorities", RFC 6710, DOI 10.17487/RFC6710, August 2012, <<https://www.rfc-editor.org/info/rfc6710>>.
- [RFC7293] Mills, W. and M. Kucherawy, "The Require-Recipient-Valid-Since Header Field and SMTP Service Extension", RFC 7293, DOI 10.17487/RFC7293, July 2014, <<https://www.rfc-editor.org/info/rfc7293>>.
- [RFC8174] Leiba, B., "Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words", BCP 14, RFC 8174, DOI 10.17487/RFC8174, May 2017, <<https://www.rfc-editor.org/info/rfc8174>>.
- [RFC8689] Fenton, J., "SMTP Require TLS Option", RFC 8689, DOI 10.17487/RFC8689, November 2019, <<https://www.rfc-editor.org/info/rfc8689>>.
- [RFC9422] Freed, N. and J. Klensin, "The LIMITS SMTP Service Extension", RFC 9422, DOI 10.17487/RFC9422, February 2024, <<https://www.rfc-editor.org/info/rfc9422>>.

## 5.2. Informative References

- [RFC5321] Klensin, J., "Simple Mail Transfer Protocol", RFC 5321, DOI 10.17487/RFC5321, October 2008, <<https://www.rfc-editor.org/info/rfc5321>>.

## Appendix A. Acknowledgements

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