

draft-ietf-xmpp-3920bis

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Background

- Will obsolete RFC 3920 (“XMPP Core”)
- Many errata, corrections, and clarifications
- Lots of implementation experience!
- Updates to TLS (5246) and SASL (4422)
- More detailed security considerations
- Other non-material changes

Material Changes

- Include 'from' and 'to' on most stream headers
- Moved server dialback to XEP-0220 @ xmpp.org
- XML processing
 - Loosened requirements regarding predefined entities that are not escaped in XML
 - Comments, PIs, and DTDs are still forbidden
 - Namespace well-formedness is optional

Open Issues

- Internationalization
- Certificate generation and handling
- Mandatory-to-implement SASL mechanisms
- Client resource binding
- Formal representation
- Other?

Internationalization

- 3920 has dependencies on IDNA (3490) and stringprep (3454) for XMPP addresses (“JIDs”), as does bis-00
- IDNAbis work is ongoing and any stringprep changes are on hold
- What is the best path forward for i18n of XMPP addresses?

Certificates

- Client certs: unchanged
- Server certs
 - 3920: dNSName then XmppAddr (domain name allowed in CN)
 - bis: SRVName (4985), then dNSName, then XmppAddr (CN only for friendly name)

SASL Mechanisms

- 3920: DIGEST-MD5 for confidentiality and authentication
- bis:
 - DIGEST-MD5 to historic by SASL WG
 - currently recommend TLS + SASL PLAIN
 - add SCRAM? (draft-ietf-sasl-scram, in WGLC)

Resource Binding

- Client needs resource identifier for routing (full JID = user@domain/foo)
- 3920: client can specify but server can override (or client requests server generation)
- bis-00: can bind multiple resources
- bis-01: consensus to remove multi-bind?

Formal Representation

- 3920: uses W3C XML Schema, but the schemas are non-normative
- bis:Add Relax NG?
 - In addition to W3C schema?
 - Instead of W3C schema?