

# ***GS2: Bridge between SASL and GSS-API***

- Info: <http://josefsson.org/sasl-gs2/>
  - Questions? [simon@josefsson.org](mailto:simon@josefsson.org)
- Draft -02 posted Jul-06.
  - WGLC during 31 Aug – 18 Sep.
- Draft -03 posted Nov-06
  - Solves several WGLC issues.
  - Please verify that -03 is complete...
    - ...except known open issues on next slides.



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- Open Issue 1/3: Support for GSS-API credentials/mechanisms without integrity
    - Feature request that came up during WGLC.
    - Vulnerable to MITM unless we require TLS.
    - We can't support non-integrity capable credentials until KITTEN defines new APIs.
    - Complicates protocol and implementations
      - Creeping featurism, no IETF standard use-cases.
      - Alternative: Specify another SASL family GS0 for these mechanisms?
  - How to resolve:
    - Option 1: Publish -02 now, revise GS2 or do GS0 later.
    - Option 2: Revise GS2 now (volunteers?).
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- Open issue 2/3:  
Channel binding documents
    - GS2 reference d-w-on-channel-binding-00.
    - TLS channel bindings are specified in draft-altman-tls-channel-bindings-00.
    - Not sufficient to be able to implement GS2 today.
      - Underspecified channel binding syntax for TLS.
      - Reason for failure to implement GS2 in GNU SASL.
  - How to resolve:
    - Option 1: Reference draft-altman-tls-channel-bindings in GS2 and explain how to use it explicitly.
    - Option 2: Improve other drafts, possibly writing a new document to describe how channel bindings are used in GS2 or SASL in general.
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- Open issue 3/3:  
Compute Kerberos V5 GS2 mech name
    - Need two independent computations
      - I have one so far, noticed several ways to go wrong, not confident of my result.
    - This is used only in the example section.
      - However, WILL be hard-coded in implementations to avoid having to implement B32/SHA1/DER.
    - B32(TEN(SHA1(DER(KRB5-OID))))
      - B32 – Base32 encoding
      - TEN – First ten bytes
      - SHA1 – SHA.1 hash
      - DER – ASN.1 encoding
      - KRB5-OID – from RFC 1964
    - How to resolve: Volunteer(s) needed
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