Once upon a time...

- First version of the draft: May 2007…
- Last major update in Nov 2008! 😞
- At this time, decision to postpone till the completion of RFC 3588 bis
- Since this time:
  - RFC 3588 bis "almost" published
  - Agreement on new IANA rules
  - Feedback from operational deployment
What it should be about...

• Key deliverable to be used:
  – by Diameter application designers
    • From IETF, vendors, SDOs
  – to clarify and/or reassess existing rules/recommendations that could be spread across specifications
  – to answer to the most frequent questions
    • Raised during application design or
    • Based on implementation and operational feedback
  – to avoid repeating misbehavior/error from the past in the future
Re-usability of applications

• What it DOES imply when one wants to re-use an existing application id
• What you can do and cannot do
• Trade-off between "twisting" an existing application and creating a new one
  – According to the "new" IANA rules
Re-usability of command codes

- What it DOES mean when one wants to re-use an existing application id
- What you can and cannot do with existing command codes
  - According to the initial purpose of the command
  - According to the ABNF description
- Trade-off between "twisting" an existing command code and creating a new one
  - According to the "new" IANA rules
Re-usability of AVPs

- What it DOES mean when one wants to re-use an existing AVP code
- What you can and cannot do with existing AVP codes
  - According to the initial purpose of the AVP
  - According to the format of the AVP
  - According to the setting of the AVP flags
- Trade-off between "twisting" an existing command code and creating a new one
  - According to the "new" IANA rules
One or two "Things" to consider..

- When designing a new Diameter application
  - Diameter used as AAA protocol or transport protocol?
  - What kind of Diameter application
    - IETF standard vs vendor-specific application?
    - For Internet community, SDOs, vendor-specific solution?
  - Transport and security choices based on the deployment environment
    - TCP, SCTP?
    - TLS, IPsec, DTLS,… nothing?
  - Functional architecture
    - Roaming, need for Diameter Agents, Dynamic discovery, etc.
  - Command code definition, AVP flag setting and AVP data format
  - Tips to preserve protocol extensibility
Questions

• deleting an AVP with M-bit set
  – current assumption: new application required
  – why?
• should we add a section on RADIUS-Diameter interworking?
• Should we add considerations on “intermediary” nodes and impacts on Diameter?
Next Step

- -13 submitted… with no major change
- -14 submitted right after IETF 83
- New version includes:
  - reshaping of the document
  - better readability of the document
  - Update the current content based on the work completed on RFC 3588bis and IANA rules
  - Add some proposition on missing information
Objectives

• I’m EDITOR of the document.
• The content of this draft should reflect WG position.
• Feedback from the WG is required
• Launch a WGLC in May 2012
• the draft should be submitted to IESG just after
Thank you…

• No QUESTION
• No COMMENT
• Just… HELP
  – Volunteers in this key topic are welcome… even if not paid for that.