I-JSON

Problems

1. Crypto groups are writing extra language for JSON protocols forbidding (at least) dupe keys, because of security vulnerabilities.
2. Emitting really interoperable JSON isn't hard, and there's good consensus on how to stay out of trouble, but the only place this is written down is 4627bis.

Solutions

1. Write a best-practices document; people writing specs can say "Use JSON" (citing any of its many specs) "but also follow these best practices."
2. Write a self-contained RFC loaded with MUSTs to avoid interop problems; people can say "Use RFCXXXX".

I-JSON draft

Tries to align very tightly to 4627bis draft:

www.tbray.org/tmp/draft-bray-i-json-01.html

I-JSON in one slide

1. Top level MUST be object/array, SHOULD be object
2. Optional urn:ietf:i-json top-level object member; receiver MUST ignore unknown members in it
3. Optional ;profile=i-json application/json media-type param
4. MUST be UTF-8, MUST NOT include noncharacters
5. MUST NOT have dupe keys
6. Sender MUST not expect better precision/magnitude than IEEE754; SHOULD not use numbers like 1E400 or 3.141592653589793238462643383279 that suggest such expectations