#### **JSON Patch**

IETF 82 Applications Area Working Group November 14, 2011 Paul C. Bryan

#### Introduction

- HTTP PATCH (RFC 5789)
- No standard JSON-based representations
- Text-based diffs require char-level equivalence
- JSON Patch operates on JSON logical model
- Strong drive to maintain a simple specification
- Current draft: draft-pbryan-json-patch-02
- At least 3 actively maintained implementations:
  - Python, Java, JavaScript

#### **Document structure**

- JSON array of modification operations
- Every operation points to specific JSON value
  - draft-pbryan-zyp-json-pointer
- Three operation types: add, remove, replace
- Replace is equivalent to remove and add
- Each operation applied in sequence
- Logically equivalent to textual diff (+ and ops)

# Simple example

### Internet Media Type

- Proposing application/json-patch
- Considered application/patch+json, but...
  - application/patch too generic base type
  - +json extension not yet codified in any standard

## Proposal

- Manage RFC publication of JSON Patch (and JSON Pointer) specifications in APPSAWG.
  Rationale:
  - These specifications are too small to justify the formation of a new working group
  - Consensus among respondents on APPS-DISCUSS mailing list was positive
  - There are participants who are willing to review the work

### **Thanks**

Questions and answers