

# Interface to the Routing System (I2RS) Traceability: Framework and Information Model

**IETF-88**

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# Background

From i2rs@:

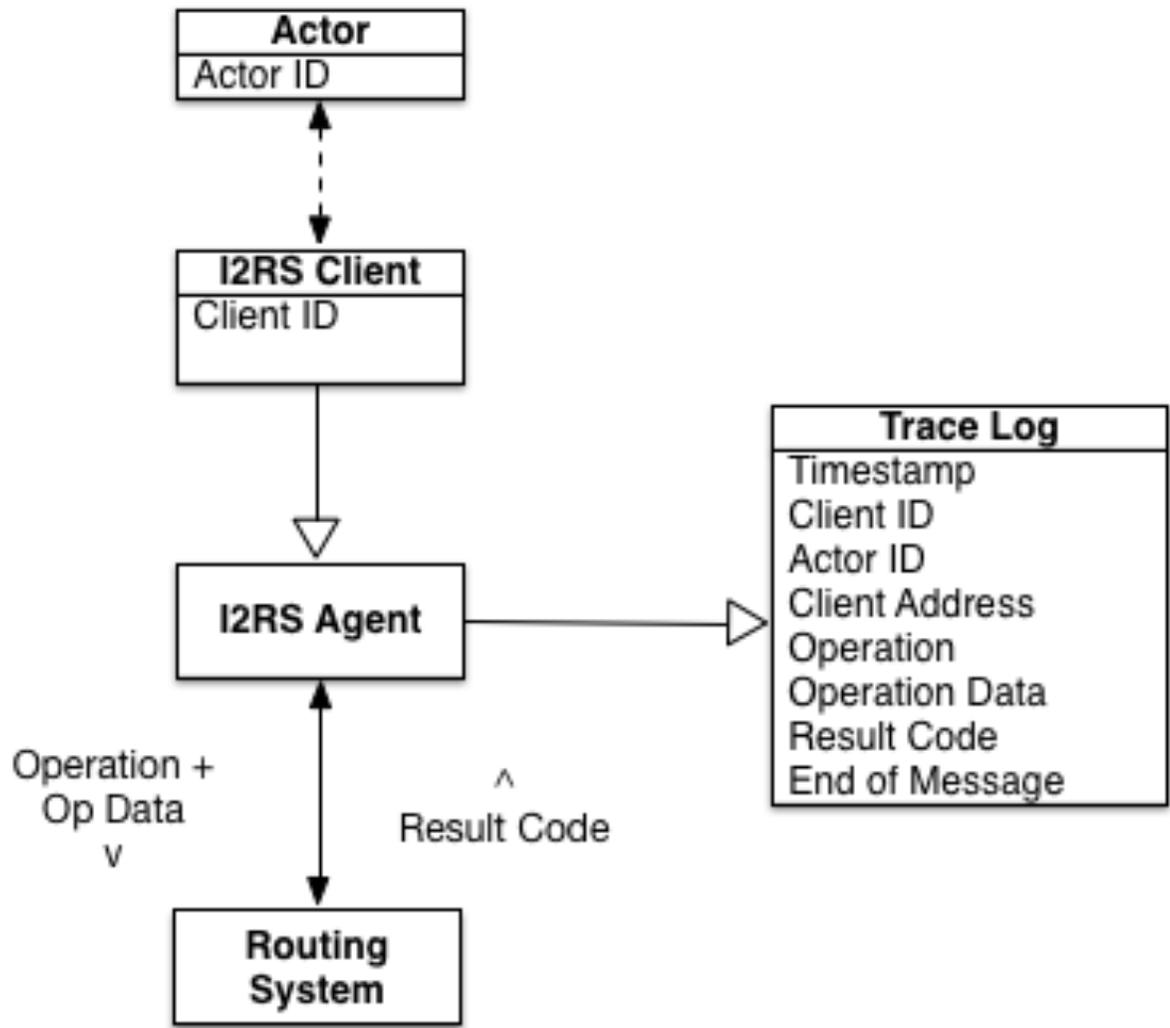
**“There seems to be a strong desire for easy traceability/accountability/troubleshooting that is better than just syslog or screen-scraping - something that is vendor-agnostic....”**

- Alia

# Motivation

- As I2RS Clients manipulate the routing system, problems may be introduced
- Some organizations have strong auditing requirements
- I2RS tracing will provide visibility to operations for troubleshooting, auditing, and accounting in a standard format
- Proper logging within I2RS is fundamental and should evolve with the definition of the protocol

# Info Model Diagram



# Proposed Example

## (No Defined Data Model Yet)

Timestamp: 2013-09-03T12:00:01.21+00:00  
Client ID: 5CEF1870-0326-11E2-A21F-0800200C9A66  
Actor ID: com.example.RoutingApp  
Client Address: 192.0.2.2  
Operation: ROUTE\_ADD  
Operation Data: PREFIX 203.0.113.0 PREFIX-LEN 24  
NEXT-HOP 198.51.100.1  
Result Code: SUCCESS(0)

# Current State

- A -00 draft produced with use cases, information model, and guidelines
- Suggests some I2RS protocol aspects
  - Use of UUID for Client ID
  - Additional ABNF for record fields
- Received some comments that need to be incorporated

# Next Steps

- Push a -01 draft that addresses current comments
  - Fix some overall wording issues
  - Adjust organizations to highlight use cases
  - Continue to incorporate protocol decisions
- Requirements from `draft-rfernando-i2rs-protocol-requirements` reflected in next revision of document
- Request WG adoption for the doc
- As protocol is defined, spin up new document to define the data model and logging format