I2RS Interim Group #: <Description>

Presenter: Presenter's Name

Group Members: <List>

Desired Output for Groups Focused on Use-Cases

- From 1st Meeting:
  - General Description
  - Scope and Scale
  - What's Different for i2rs: pros and cons
- From 2nd Meeting:
  - Flesh out the details of the use-case
  - Put the use-case in context
  - Describe the data and events needed
- From 3rd Meeting:
  - Requirements of the use-case on i2rs
  - COMMIT to an internet-draft write-up?
  - Suggest Go/No-Go on the use-case for i2rs

Goals for First Meeting

- Agree on the basic use-case
- Describe pros and cons
- Describe applicability
- Describe required scale

Use-Case General Description

- Words and quick picture of the basic use-case

Scope and Scale

- What types or areas of networks would find this useful?
- What set of network elements are involved?
- How much and how frequent are operations (read/write/events) needed?

What's Different for i2rs

- How is the use-case currently solved?
- What would make an i2rs solution better?
- What would make an i2rs solution worse?

Goals for Second Meeting

- Flesh out the details of the use-case
- Put the use-case in context of the network application and the network element
- Describe the data and events needed

Use-Case In Context

- What assumptions on the network applications are being made?
- Which type of network application is assumed?
- What are the key attributes needed?

Detailed Use-Case

- Words and picture to show responsiveness and feedback loop.

What Events are Needed?

- What does the application need to learn about?
- Do any events need to trigger local operations? If so, what and why?

What Data Is Needed?

- What information needs to be learned from the network element?
- Can information be pushed from the network element? Are thresholds needed? Why?
- What information should be pulled from the network element? Why? How frequently and what triggers it?
- Does particular information need to not be written/modified by other applications? (e.g. 2 apps read X, both then write X = X+1, final state of X may vary)

What Needs to be Written/Modified?

- What state needs to be written for this use-case?
- Is bulking of state necessary?

Interactions with Network Element

- What is assumed about interactions with the network element?

Goals for the 3rd Meeting

- Requirements of the use-case on i2rs
  - Connect to the i2rs functionality
  - Connect to transport-layer capabilities
  - Connect to authorization/authentication capabilities
- COMMIT to an internet-draft write-up?
- Suggest Go/No-Go on the use-case for i2rs?

Connect to i2rs functionality

- Programmatic interface requirements
- Speed and scale requirements
- Type of operations needed
- Multi-headed control needed? Precedence per client or per operation?
- Priority needed?
- Event subscription/notification requirements
- Atomic Operations sufficient? Are longer transactions needed?
- Rollback by client sufficient?

Connect to transport-layer capabilities

- What capabilities are needed for which data?
- How many transport sessions might be needed and why?

Connect to authentication/ authorization

- What capabilities are needed?
- How specific does authorization need to be and why? (write-scope)

Opinion on use-case for i2rs

- Is it a good fit for i2rs? Why/why not?
- Who is interested in writing it up into an internet-draft or section of one?
- Can a commitment be made to produce a draft by the end of May?
- Other thoughts