

Using the Publish-Subscribe Model in the Interface to the Routing System

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Overview

- Publish-Subscribe Model
 - Subscribers express interest in a pattern of events
 - Publishers notify subscribers of any event generated that matches registered interest
- How PubSub fits into I2RS architectures, its advantages, security requirements, use in providing security

Pub-Sub Applicability to I2RS

- Asynchronous Router to application notifications
- Many to Many
- Topology
- RIB Updates
- Policy Management
- Dynamic Discovery

Security Requirements

Services

- Authentication
- Anti-Replay
- Ordering
- Confidentiality

Models

- Transport
 - Single message broker
- Application
 - Multiple message brokers

Future Work

- Scalability
- System considerations
- Use case details