

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Topic Defense PhD Martin Gwerder

Sending Unobservable Messages Across Public Networks

Martin Gwerder

8.6.2015

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Inhalt

1 General

- Goals

2 Definititons

- System
- User
- Observer
- Owner
- Node

3 Requirements

- Protocol
- Infrastructure
- Acceptance

4 Thesis

- Content

5 Discussion

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Main Goals are ...

- ... to have a common understanding of the PhD topic.
- ... to have an agreement on the focus of the thesis.
- ... to have an agreement on the expected outcome of thesis.

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Definition of system

- FIXME

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Definition of user

- FIXME

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Definition of observer

- FIXME

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Definition of owner

- FIXME

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Definition of Node

- FIXME

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Protocol requirements

- FIXME

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Infrastructure requirements

- FIXME

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Acceptance requirements

- FIXME

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion

Proposed thesis content is ...

- Create a generic approach to transport messages through public networks unobserved.
- Create a generic implementation (traffic generator) of the approach.
- Do traffic analysis against the approach to identify weaknesses.

Focus lies on:

- Identifying endpoints of communication.
 - Identifying messages, message types or parts of them.
 - Identifying patterns of service usage.
 - Identifying weaknesses in robustness.
- Create a working minimal prototype based on the findings.

1 General

Goals

2 Definitions

System

User

Observer

Owner

Node

3 Requirements

Protocol

Infrastructure

Acceptance

4 Thesis

Content

5 Discussion