

# **NSIS Framework Outline**

## **Introduction**

### **Statement of Purpose**

To develop the 'realms/domains' and modes of operation where an NSIS protocol can be used. Identify the relationship of an NSIS protocol to other protocols. Identify areas for future work, especially if there are needs for additional protocol work. Allow for the NSIS protocol to be deployed in different parts of the Internet, for different needs, without requiring a complete end-to-end deployment. Support and take advantage of other protocols.

## **Terminology**

Define entity names

## **Scoping of the document**

## **Framework Structure**

Entities & interfaces involved

Parts of the network(s)

End-to-end

Intradomain

Interdomain

Proxy Issues

'Global' operation

'Local' operation

overall protocol operation

inbound

outbound

## **Protocol Components**

Lower Layer Needs

Upper Layer Services

Abstract protocol components

Identity Needs (flow id, reservation id, etc.)

## **Protocol vs. Resource/Service needs**

## **Relation to and of Other Protocols/functions**

Resource allocation / Network Management

AAA

L3 Routing Issues

Non-standard L3 Routing (load sharing, route pinning)

Mobility, Context-Transfer

Interworking with existing solutions

## **How Applications use NSIS**

Avoid mention of specific protocols

## **Security**

Implications of Threat Analysis