

Simulacija procesa u telekomunikacijskim mrežama - Implementacija i dizajn TOR mreže u ns-3 simulatoru

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Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Chapter 2

Class Documentation

2.1 TORCircuit Class Reference

Public Member Functions

- **TORCircuit** (const std::vector< uint32_t > &path, const std::vector< std::string > &keys, uint32_t circuitId)

Public Attributes

- std::vector< uint32_t > **path**
- std::vector< std::string > **keys**
- uint32_t **circuitId**

The documentation for this class was generated from the following file:

- TOR_model.cc

2.2 TOREncryption Class Reference

Static Public Member Functions

- static void **InitializeKeys** (int numLayers)
- static std::string **GenerateKey** (int length=32)
- static std::string **EncryptLayer** (const std::string &data, int layer)
- static std::unique_ptr< EVP_CIPHER_CTX, decltype(&EVP_CIPHER_CTX_free)> **CreateOpenSSLContext** (int layer, bool encrypt)↔
- static std::string **DecryptLayer** (const std::string &data, int layer)

Static Public Attributes

- static std::vector< std::string > **keys**

The documentation for this class was generated from the following file:

- TOR_model.cc

2.3 TORMonitor Class Reference

Static Public Member Functions

- static void **PrintNodeStats** (Ptr< Node > node, std::string description)

The documentation for this class was generated from the following file:

- TOR_model.cc

2.4 TORPacket Struct Reference

Public Member Functions

- void **EncryptPacket** (const std::string &key)
- void **DecryptPacket** (const std::string &key)
- void **CalculateChecksum** ()
- bool **VerifyChecksum** ()

Public Attributes

- uint32_t **sequenceNumber**
- std::string **originalData**
- std::string **data**
- uint32_t **currentLayer**
- uint32_t **numLayers**
- double **timestamp**
- uint32_t **hopCount**
- std::string **sourceNode**
- std::string **destinationNode**
- uint32_t **circuitId**
- bool **isControl**
- uint16_t **protocol**
- std::vector< uint32_t > **route**
- std::string **checksum**

The documentation for this struct was generated from the following files:

- TOR_packet.h
- TOR_model.cc

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