



## **NetworkExtension**

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Extension for communications external to a computation graph.

- UUID: `f50665e5-ade2-f71b-de2a-2380614b1725`
- Version: `1.0.0`
- Author: `NVIDIA`
- License: `LICENSE`

## Interfaces

## Components

### `nvidia::gxf::TcpClient`

Codelet that functions as a client in a TCP connection.

- Component ID: `9d5955c7-8fda-22c7-f18f-ea5e2d195be9`
- Base Type: `nvidia::gxf::Codelet`

### Parameters

#### `receivers`

List of receivers to receive entities from.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_CUSTOM`
- Custom Type: `std::vector<nvidia::gxf::Handle<nvidia::gxf::Receiver>>`

#### `transmitters`

List of transmitters to publish entities to.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_CUSTOM`
- Custom Type: `std::vector<nvidia::gxf::Handle<nvidia::gxf::Transmitter>>`

## serializers

List of component serializers to serialize and de-serialize entities.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_CUSTOM`
- Custom Type: `std::vector<nvidia::gxf::Handle<nvidia::gxf::ComponentSerializer>>`

## address

Address of TCP server.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_STRING`

## port

Port of TCP server.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_INT32`

### **timeout\_ms**

Time in milliseconds to wait before retrying connection to TCP server.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_UINT64`

### **maximum\_attempts**

Maximum number of attempts for I/O operations before failing.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_UINT64`

## **nvidia::gxf::TcpServer**

Codelet that functions as a server in a TCP connection.

- Component ID: `a3e0e42d-e32e-73ab-ef83-fbb311310759`
- Base Type: `nvidia::gxf::Codelet`

### **Parameters**

#### **receivers**

List of receivers to receive entities from.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_CUSTOM`
- Custom Type: `std::vector<nvidia::gxf::Handle<nvidia::gxf::Receiver>>`

## transmitters

List of transmitters to publish entities to.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_CUSTOM`
- Custom Type: `std::vector<nvidia::gxf::Handle<nvidia::gxf::Transmitter>>`

## serializers

List of component serializers to serialize and de-serialize entities.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_CUSTOM`
- Custom Type: `std::vector<nvidia::gxf::Handle<nvidia::gxf::ComponentSerializer>>`

## **address**

Address of TCP server.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_STRING`

## **port**

Port of TCP server.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_INT32`

## **timeout\_ms**

Time in milliseconds to wait before retrying connection to TCP client.

- Flags: `GXF_PARAMETER_FLAGS_NONE`
- Type: `GXF_PARAMETER_TYPE_UINT64`

## **maximum\_attempts**

Maximum number of attempts for I/O operations before failing.

- Flags: `GXF_PARAMETER_FLAGS_NONE`

- Type: `GXF_PARAMETER_TYPE_UINT64`

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