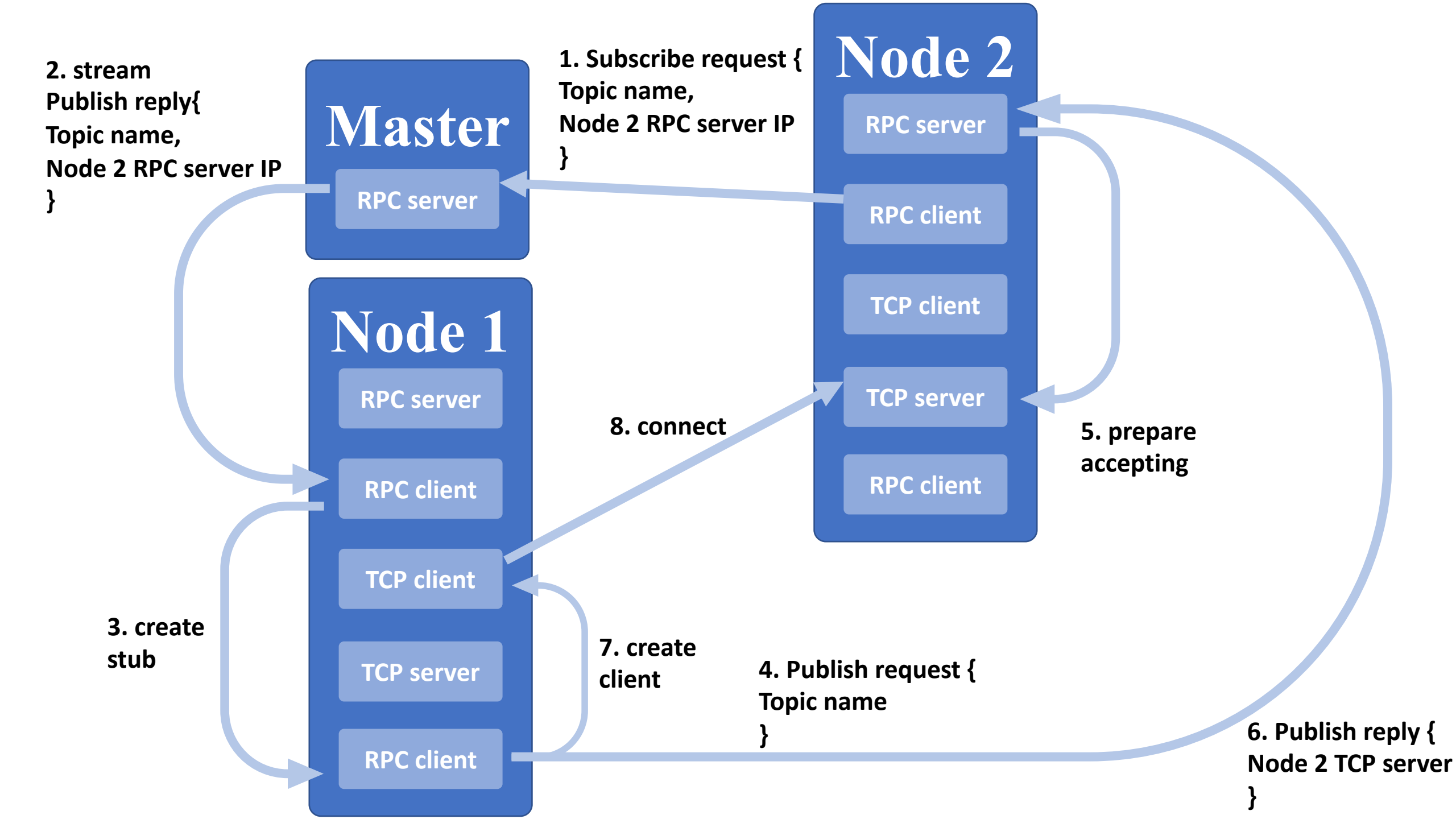
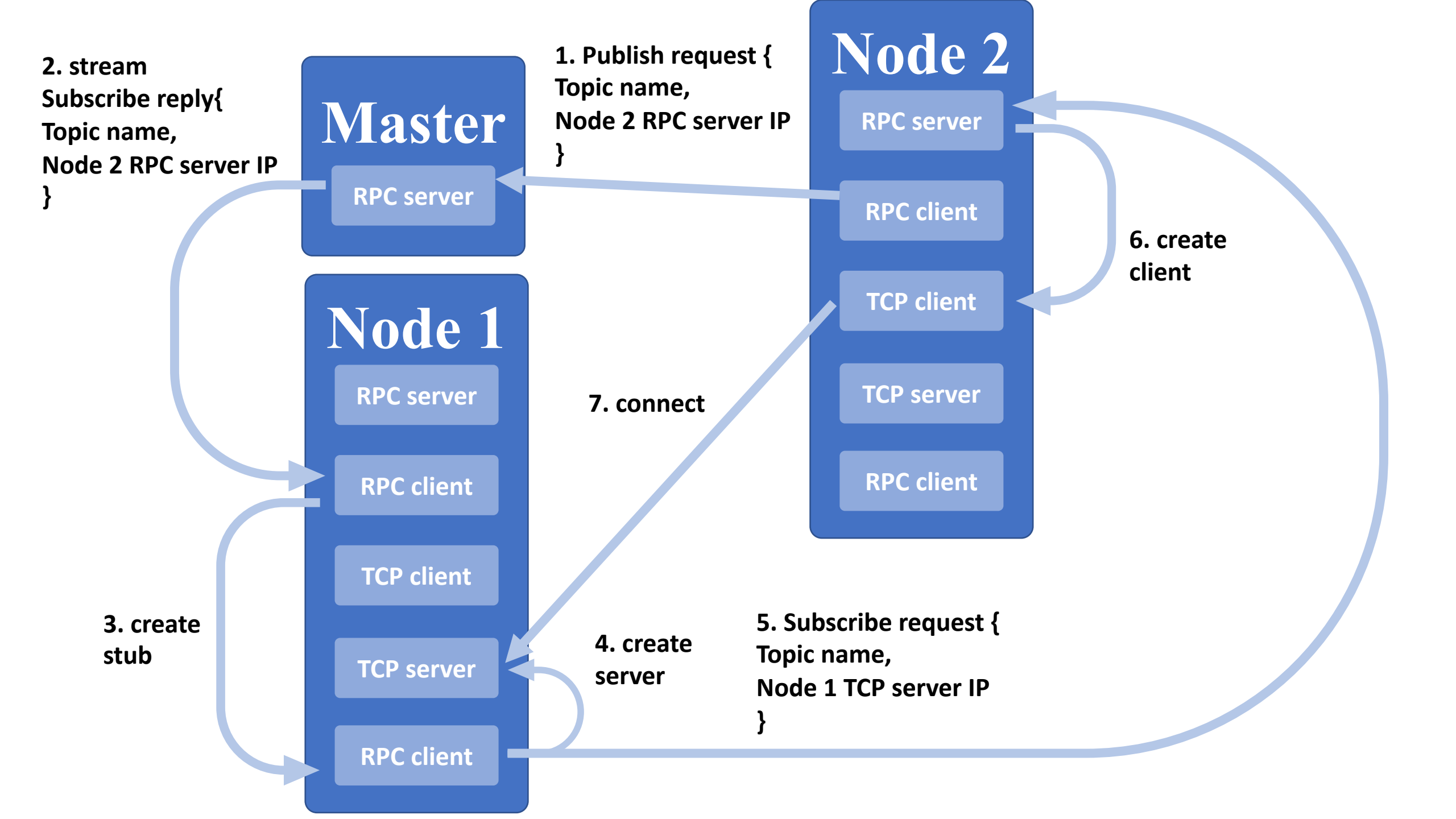

2. stream
Publish reply{
Topic name,
Node 2 RPC server IP
}
Master
RPC server
1. Subscribe request {
Topic name,
Node 2 RPC server IP
}
Node 2
RPC server
RPC client
TCP client
TCP server
RPC client
Node 1
RPC server
RPC client
TCP client
TCP server
RPC client
8. connect
5. prepare
accepting
3. create
stub
7. create
client
4. Publish request {
Topic name
}
6. Publish reply {
Node 2 TCP server
}


2. stream
Subscribe reply{
Topic name,
Node 2 RPC server IP
}
Master
RPC server
1. Publish request {
Topic name,
Node 2 RPC server IP
}
Node 2
RPC server
RPC client
TCP client
TCP server
RPC client
6. create
client
Node 1
RPC server
RPC client
TCP client
TCP server
RPC client
7. connect
3. create
stub
4. create
server
5. Subscribe request {
Topic name,
Node 1 TCP server IP
}

Master

RPC subscribe service

1. Receive subscriber registration
2. Hold the streaming thread
3. Send this subscriber info to previous registed publisher

RPC publish service

1. Receive publisher registration
2. Hold the streaming thread
3. Send this publisher info to previous registed subscriber

Node

RPC Node to Node server

1. If receive subscribe request:

Create TCP publish client and connect

2. If receive publish request:

Create TCP subscribe server and reply the IP & port

RPC Node to Master client

1. Send subscribe or publish request
2. Wait streaming reply
3. Call RPC Node to Node client

RPC Node to Node client

1. If call as subscribe:

Create TCP server & Request to publish node

2. If call as publish:

Request to subscribe node & wait reply to connect

TCP subscribe server

1. Create by RPC N2Nc
2. Wait for connection

TCP publish client

1. Create by RPC N2Ns
2. Connect to subscriber