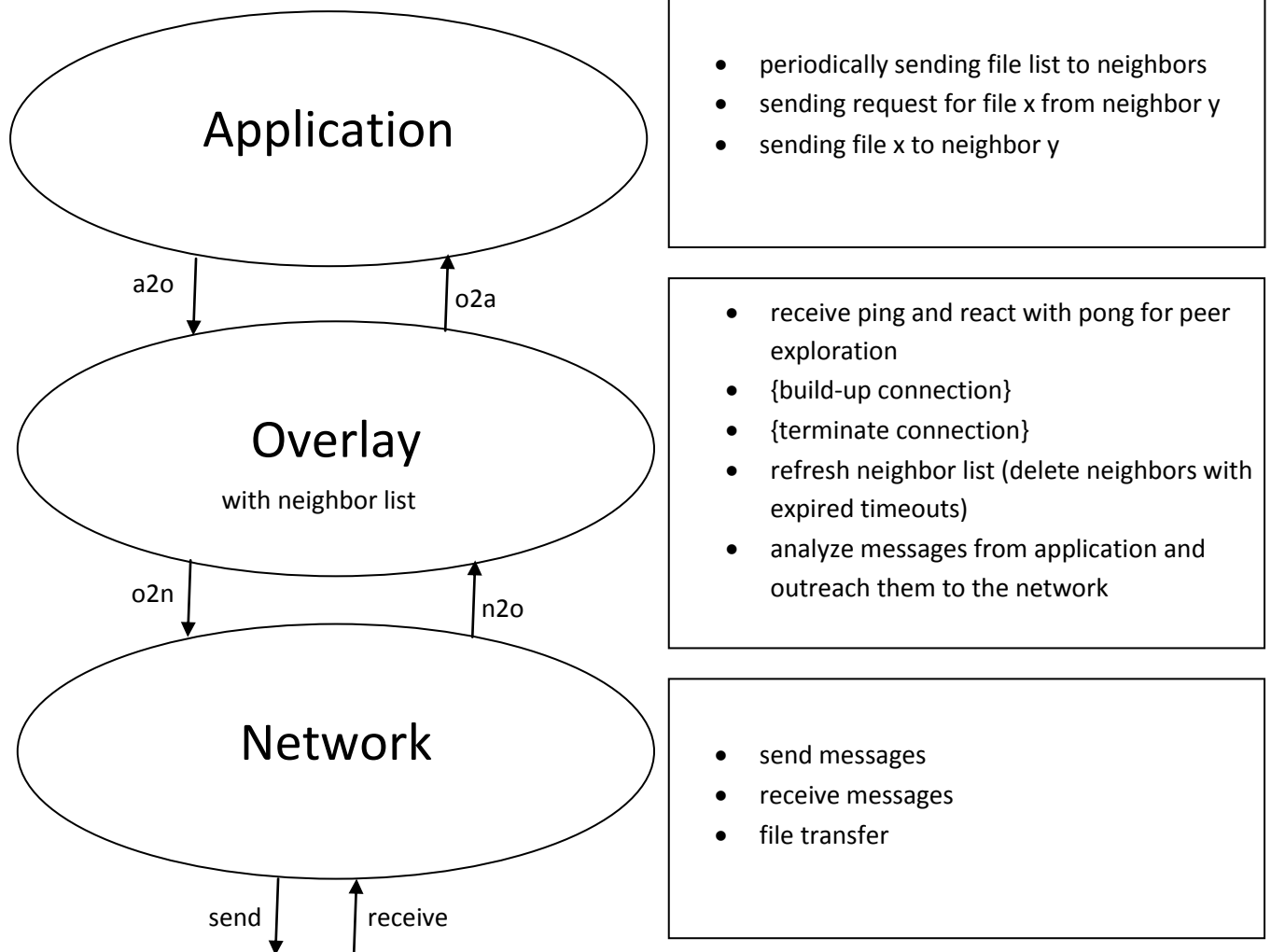


# Software Specification „Folder Sync“

## 3-Layer-Architecture



## Message specification:

### *Ping*

incoming ping (n2o) := ("ping", pingID, ttl, hops, senderUsername, senderIP, senderPort)

outgoing ping (o2n) := ("ping", pingID, ttl, hops, ownUsername, ownIP, ownPort, targetIP, targetPort)

### *Pong*

incoming pong (n2o) := ("pong", id, [(username1, ip1), (username2, ip2), ...])

outgoing pong (o2n) := ("pong", id, [(username1, ip1), (username2, ip2), ...], targetIP, targetPort)

### *RefFL (refresh filelist)*

incoming refFL (n2o) := ("refFL", fileList, senderUsername, senderIP, senderPort)

incoming refFL (o2a) := ("refFL", fileList, senderUsername, urgentFlag)

outgoing refFL (a2o) := ("refFL", fileList)

outgoing refFL (o2n) := ("refFL", fileList, ownUsername, ownIP, ownPort, targetIP, targetPort)

### *reqFile (request file)*

incoming reqFile (n2o) := ("reqFile", fileName, fileHash, senderIP, senderPortUDP, senderPortTCP)

incoming reqFile (o2a) := ("reqFile", fileName, fileHash, senderUsername, senderPortTCP)

outgoing reqFile (a2o) := ("reqFile", fileName, fileHash, targetUsername)

outgoing reqFile (o2n) := ("reqFile", fileName, fileHash, ownIP, ownPort, targetIP, targetPort)

### *sendFile (permission to network layer to send the file)*

downgoing sendFile (a2o) := ("sendFile ", filePath, targetUsername, targetPortTCP)

downgoing sendFile (o2n) := ("sendFile ", filePath, targetIP, targetPortUDP, targetPortTCP)