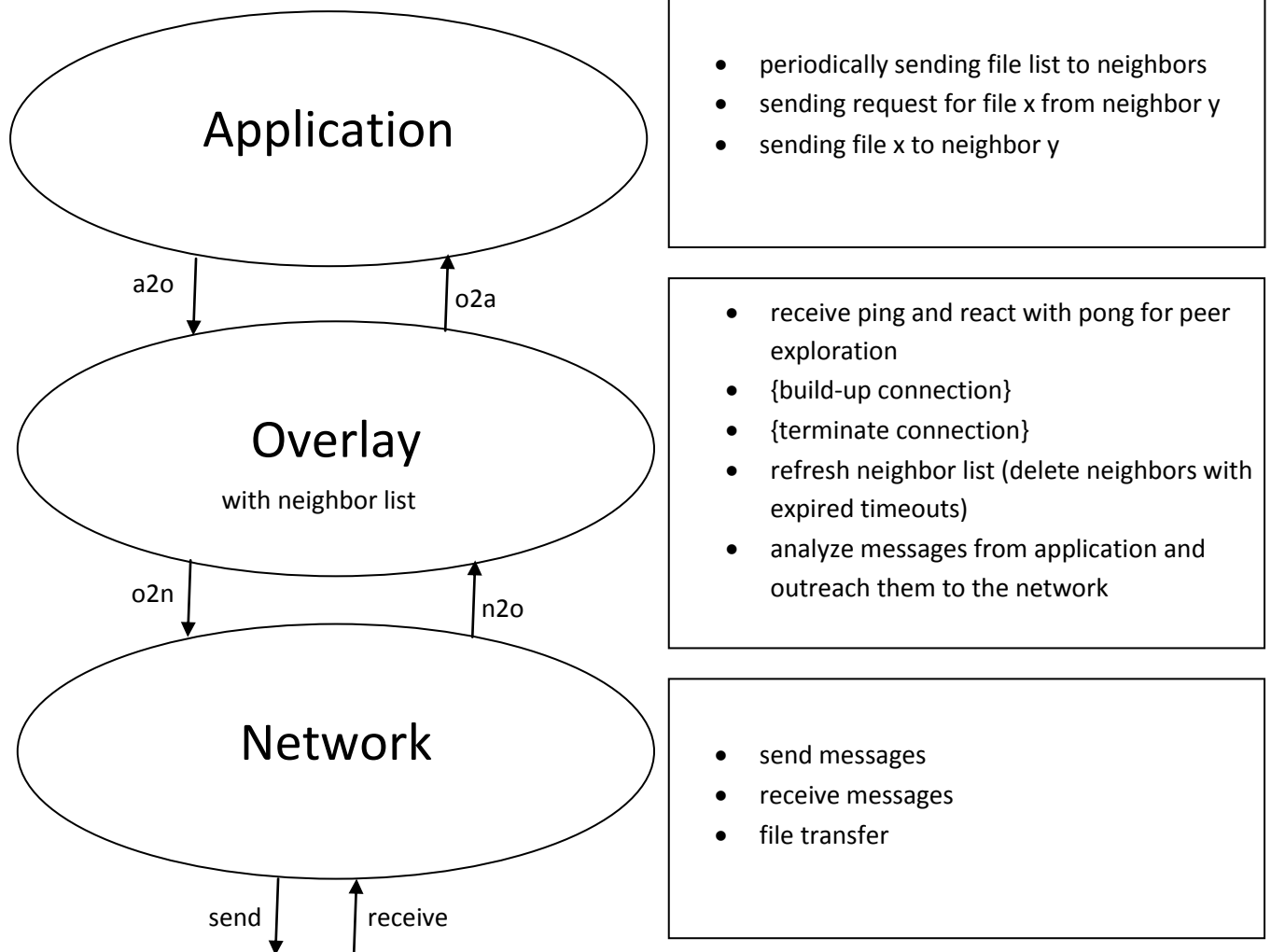


Software Specification „Folder Sync“

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, 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, 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, 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)