



Alice

Bob

Sends a request for Bob's Local Community and Familiar Sets

<REQUEST_LC_FS packet>

Creates a <LC_FS packet> containing Bob's Local Community and Familiar Sets

<LC_FS packet>

Updates her Local Community and Familiar Sets using Bob's information

Creates a <BUBBLE_SUMMARY packet> composed of her packet IDs, destination of each packet, Local Community set, local and global rank

<BUBBLE_SUMMARY packet>

For each packet in the <BUBBLE_SUMMARY packet> Bob checks if he is a better relay node by comparing his local utils with the ones received

Creates a <MARKED_REQUEST_PKTS packet> containing all packet IDs for which Bob is a better relay than Alice

<MARKED_REQUEST_PKTS packet>

Prepares for transmission all of her packets that have their IDs included inside the received <MARKED_REQUEST_PKTS packet>

<packet 1>

<packet 2>

<...>

<packet n>

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