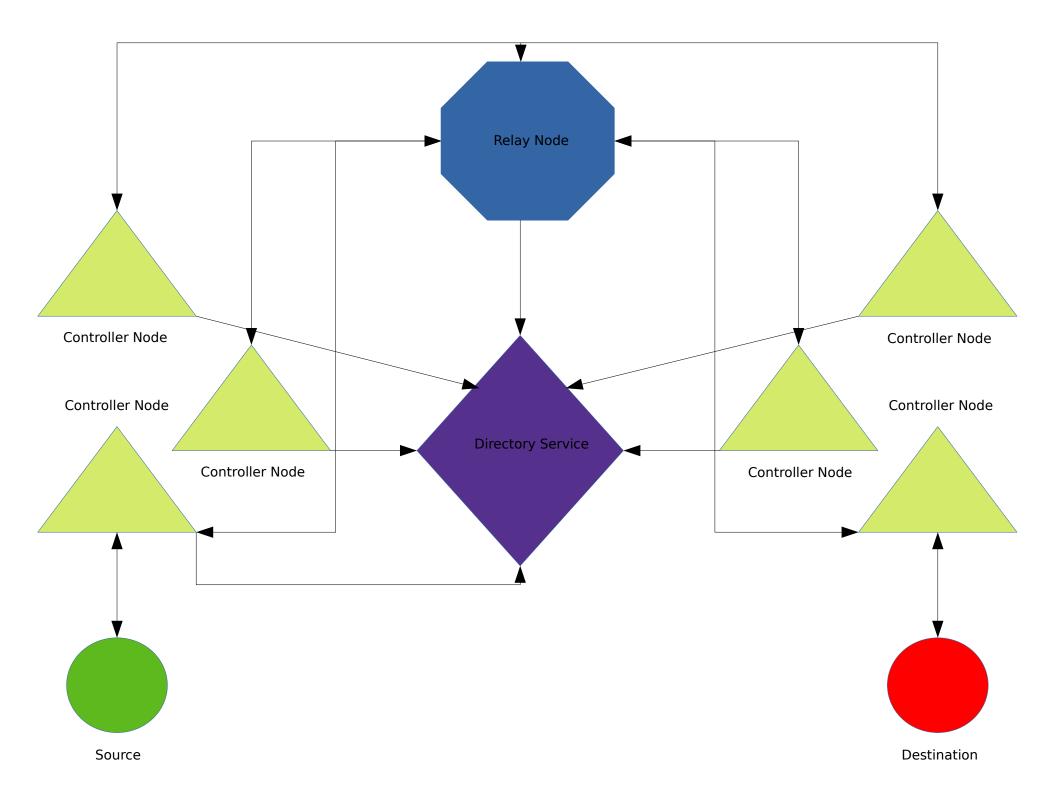
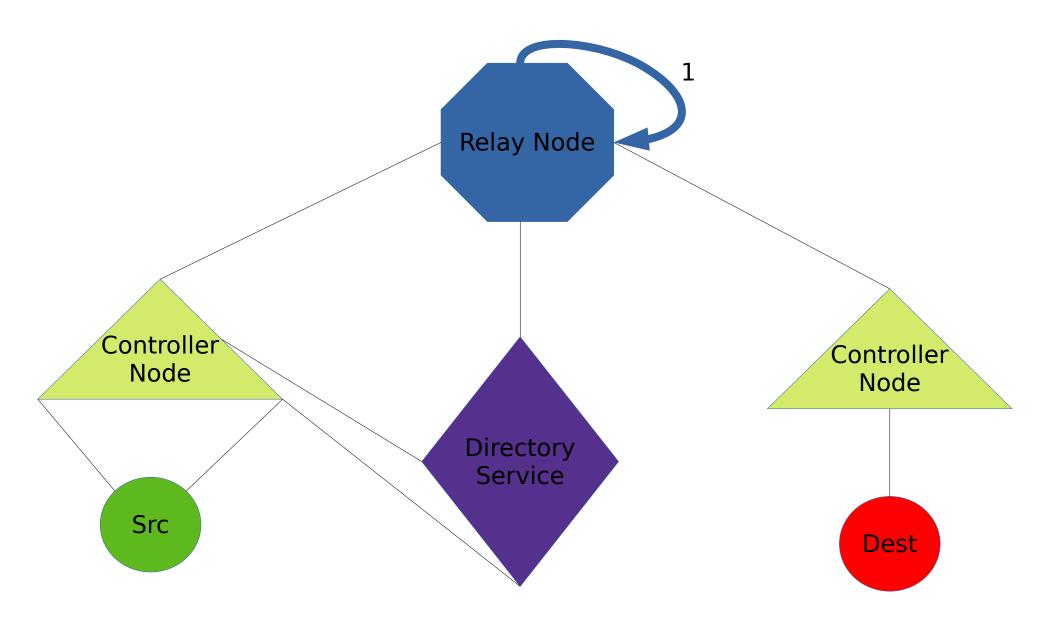
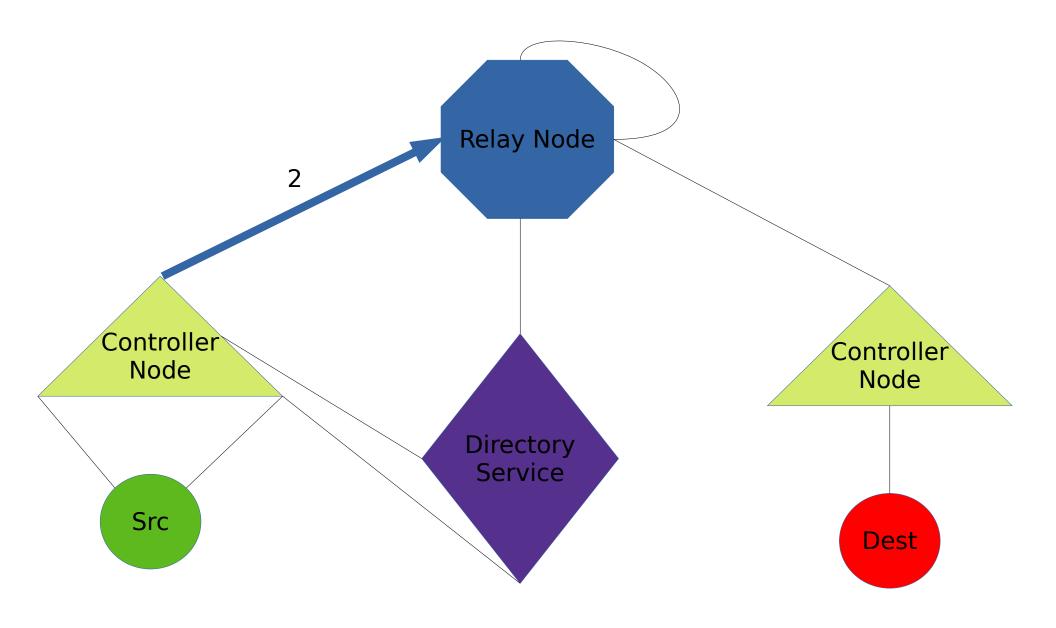
Sample Architecture



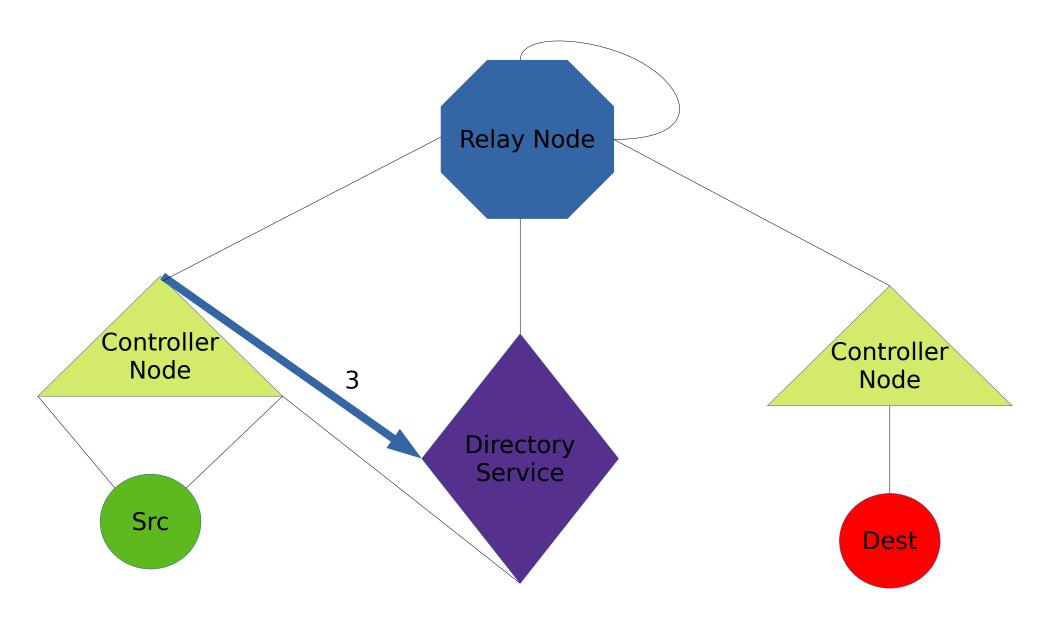
Sample Message Transfer



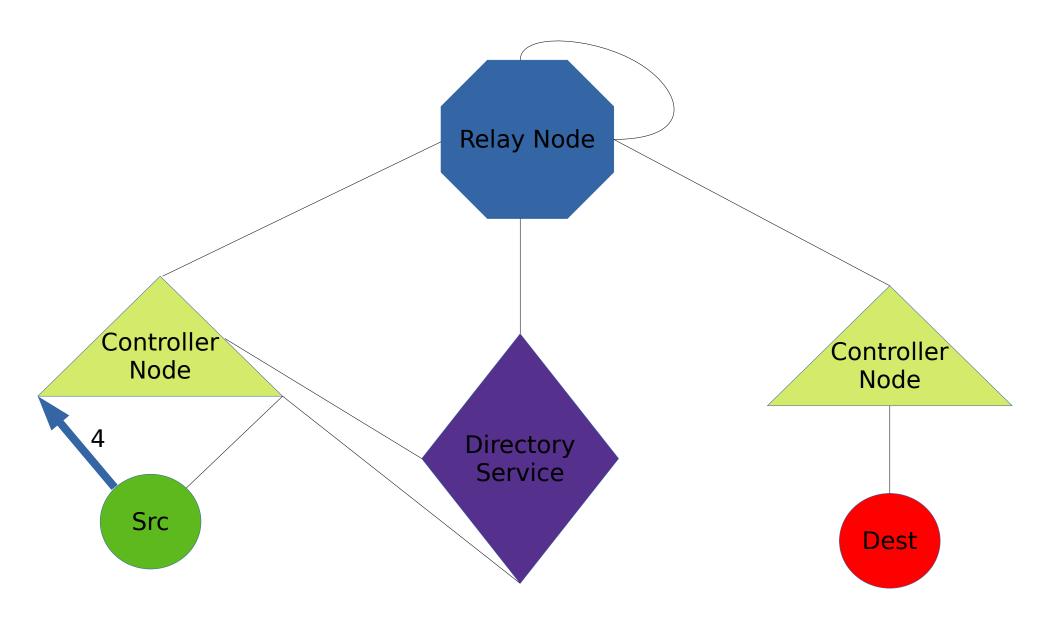
• The Relay Node boots up.



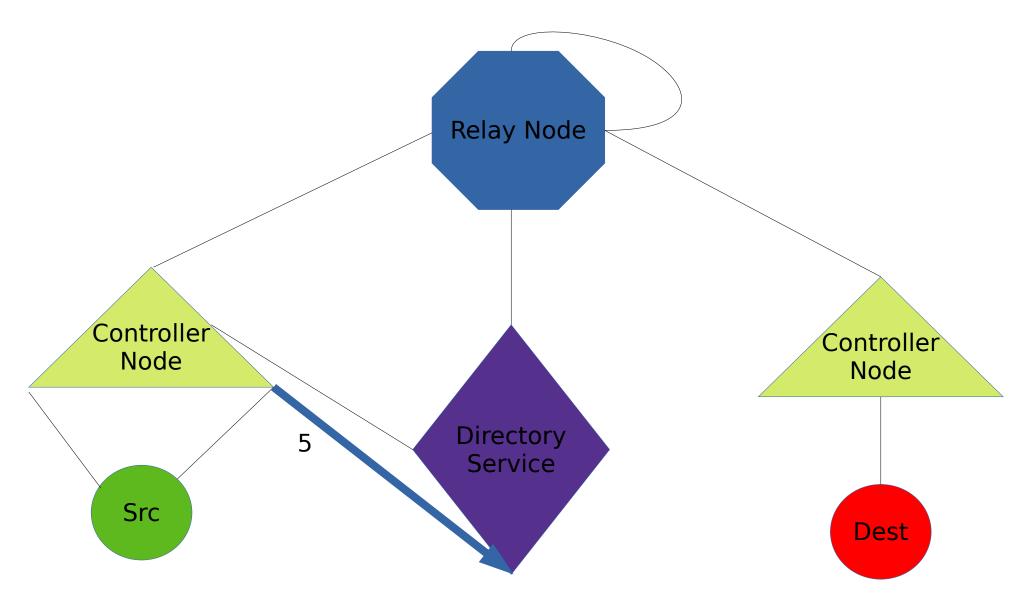
• The Controller node boots up and connects to the nearest Relay Node.



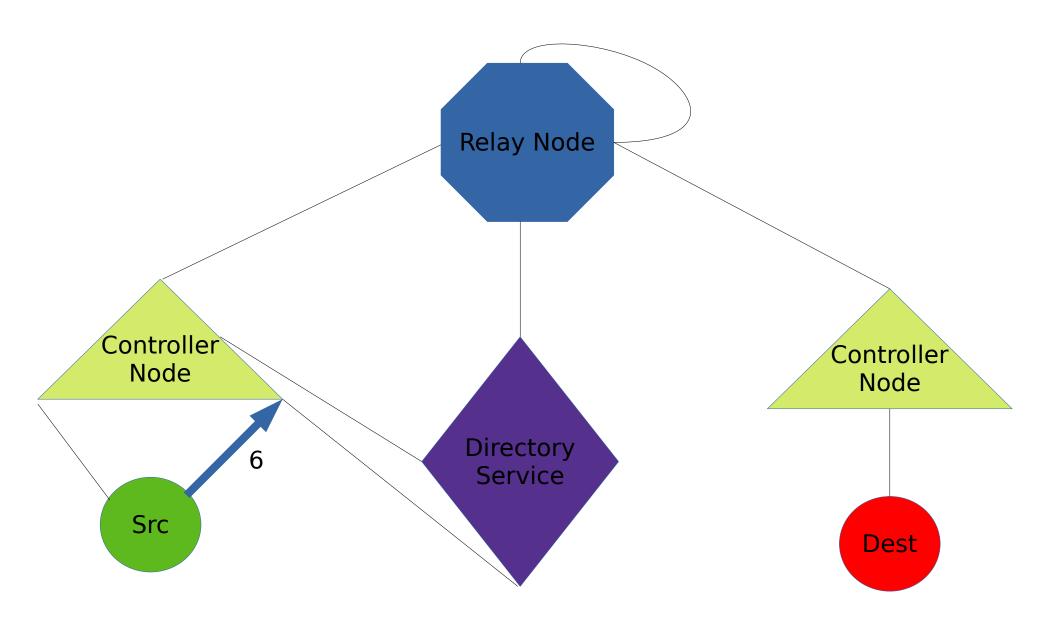
• The Controller node registers itself to the Directory Service which then assigns it a key.



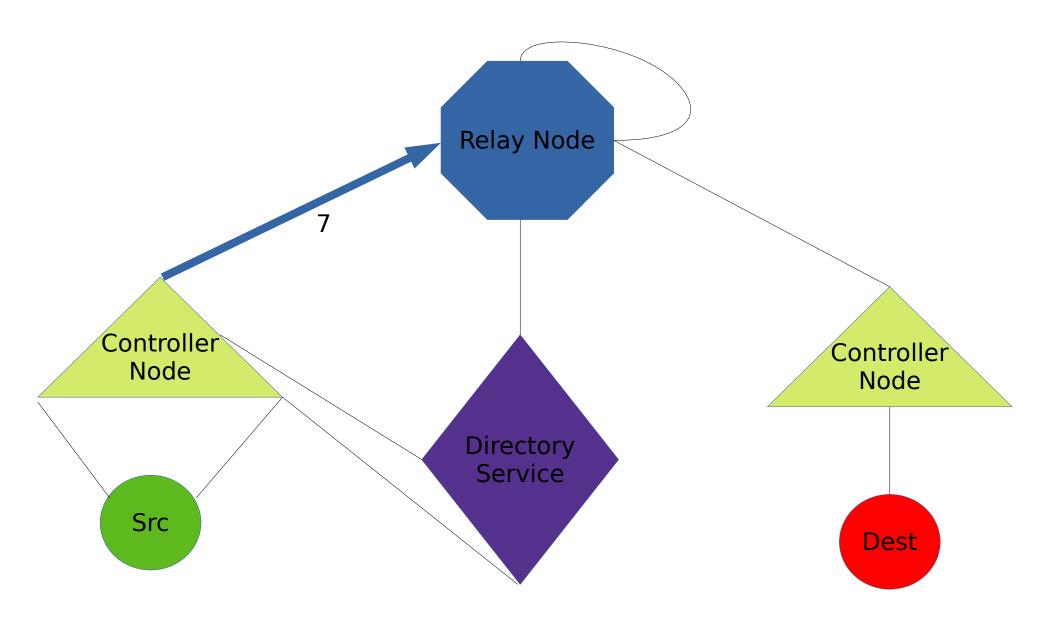
• The Source Node boots up and connects to a pre-registered Controller node.



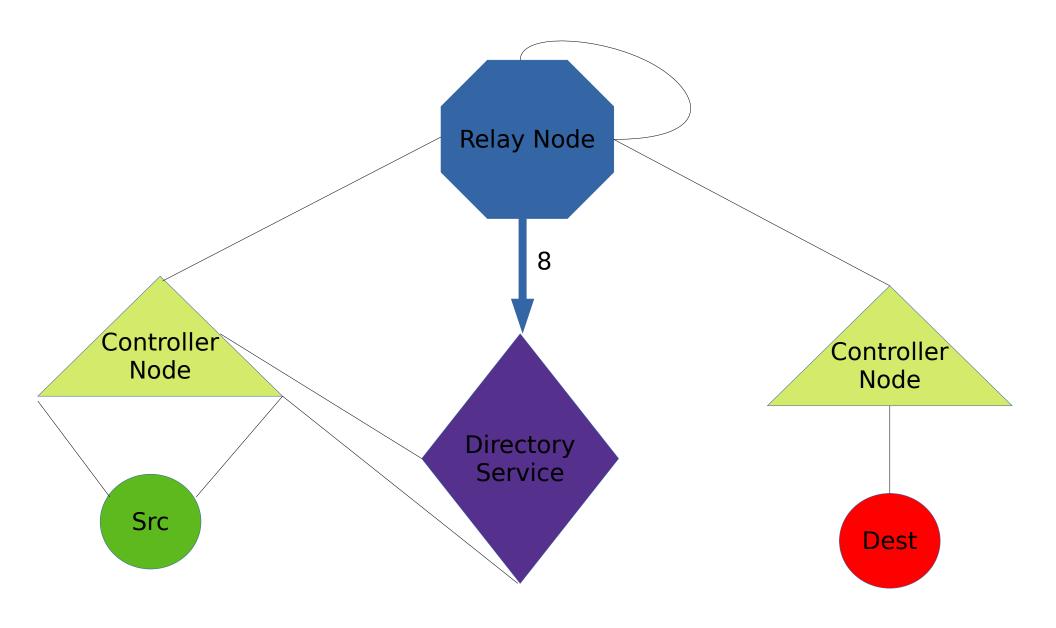
- This Controller node now registers this Source node with the directory service sending out just the internally assigned UID of the same to the directory service.
- This UID is local to every Controller node and holds meaning within that particular controller only.



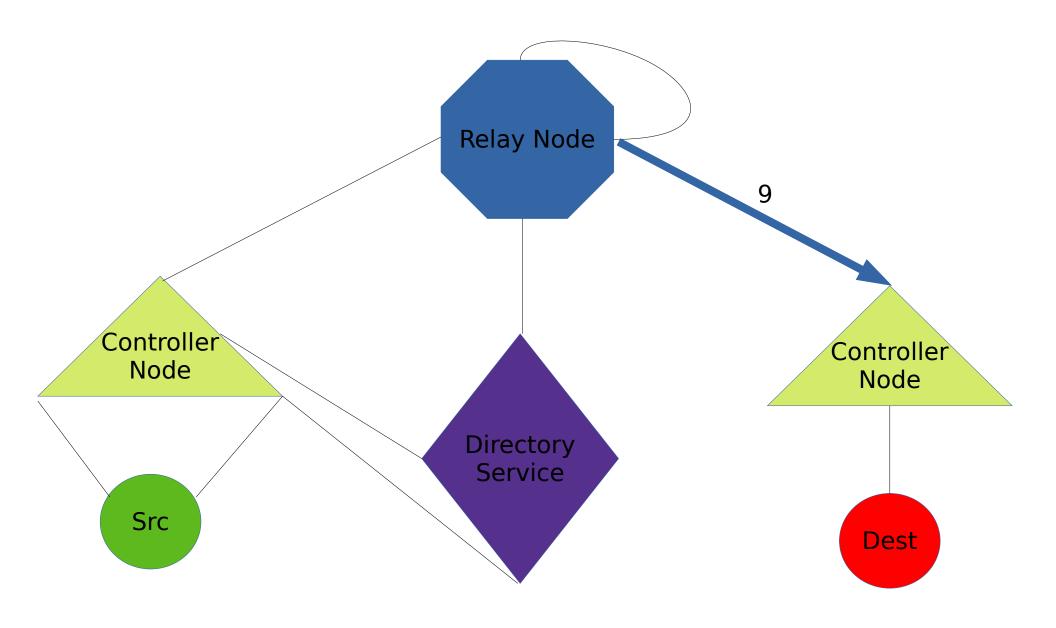
• The Source node now appends the message to be sent with a unique identifier of the Destination node, i.e. (ctrlr_key, ctrlr_assigned_uid) and sends to the Controller it is connected to.



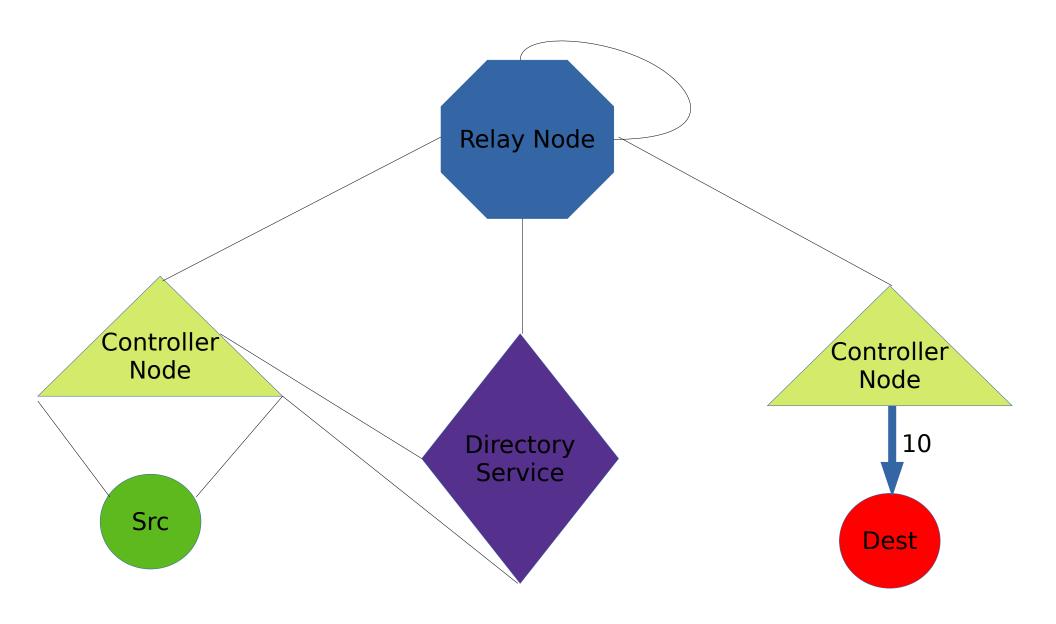
• The Controller node receives the message from Source node, assigns a session number to begin conversation, appends it to the message and sends to the relay node it is connected to.



• The Relay node now finds the IP of destnation Controller node via querying the Directory service using the ctrlr_key and the ctrlr_assigned_uid.



• The relay now passes along the whole message to the destination Controller node that it has just figured out the IP of.



 The destination Relay node takes note of the session number received from the message, strips it and find the IP of the Destination node using the ctrlr_assigned_uid assigned by it and sends just the message to it.