Sequence diagram:

- :Controllers
- :Hldb
- :Dnmcp

Controllers → Hldb: new()
Hldb ⇢ Controllers (return)

Controllers → Dnmcp: new(hldb)
Dnmcp ⇢ Controllers (return)

Controllers → Dnmcp: create_mapping(server, client, old_nets)

Dnmcp → Dnmcp: nets = group_by_netmask(old_nets)

loop [for each net in nets]
  Dnmcp → Hldb: new_nets = get_and_reserve_networks(nets)
  Dnmcp → Dnmcp: mapping = build_mapping(nets, new_nets)
  Dnmcp → Hldb: save_mapping(mapping)
  Hldb ⇢ Dnmcp (return)
end

Dnmcp → Dnmcp: mappings += mapping
Dnmcp ⇢ Controllers: mappings