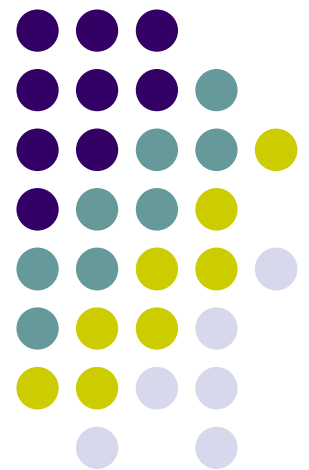


Hierarchical OLSR

draft-lacharite-manet-holsr-02 Update

Yannick Lacharité

75th IETF - Stockholm





Updates Overview

- Editorial changes:
 - Terminology additions, text clarifications, references, acknowledgments, appendix and updated message layout
- Novelty changes:
 - (Comments from manet mailing-list duly noted)*
 - Cluster Decommission
 - To increase robustness and avoid possible network partitions, cluster heads are permitted, in specific cases, to abandon their “head” status



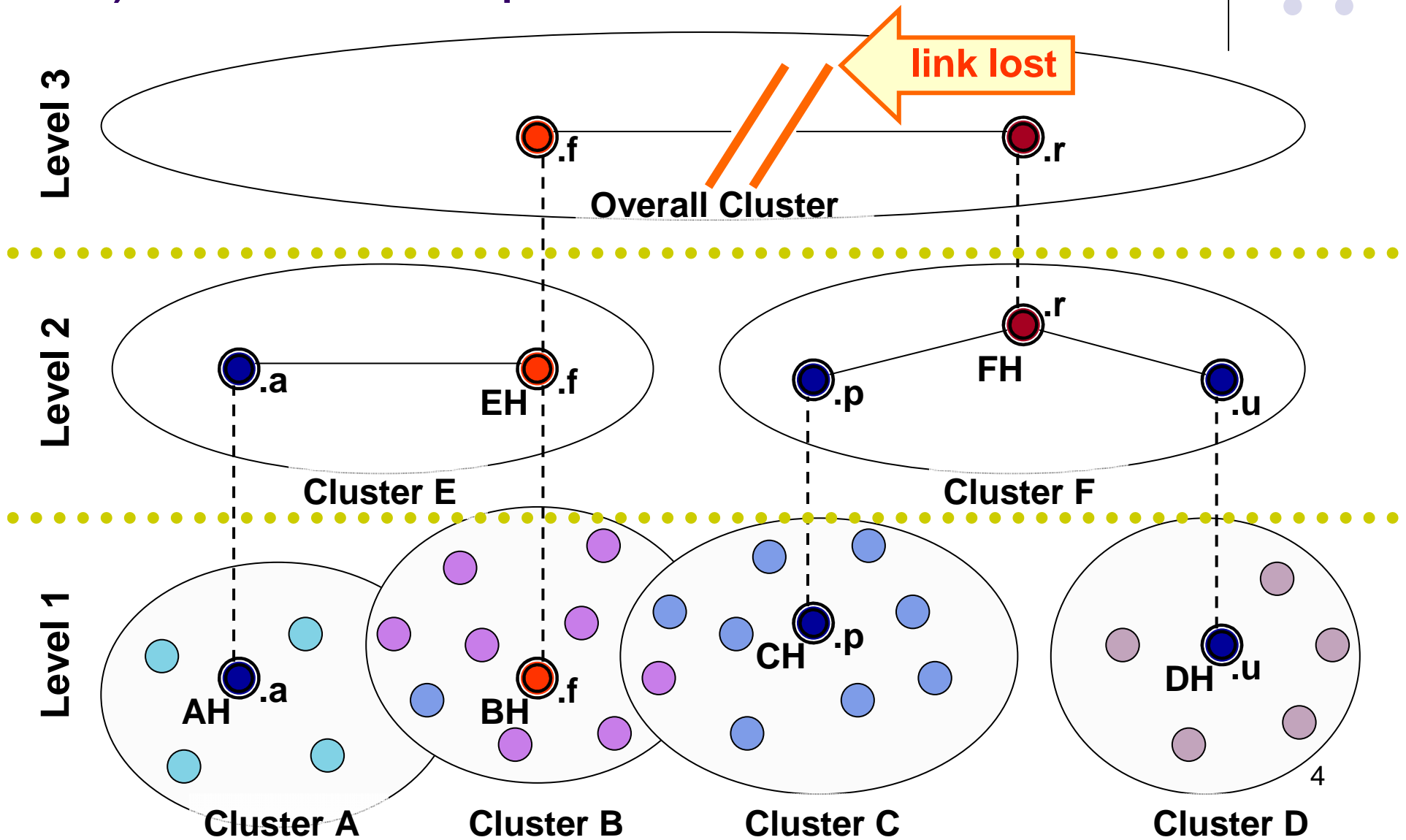
Decommission Rules

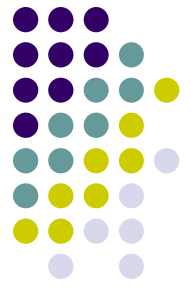
- Requirements for a cluster head to decommission:
 - (i) Parameter C_CRITICAL_PATH set to 'true' on one level/interface, AND
 - (ii) Lose all connections/links on that interface
- Reviving cluster “head” status
 - When the interface C_CRITICAL_PATH has at least one link successfully reinstated

Basic Decommission Example



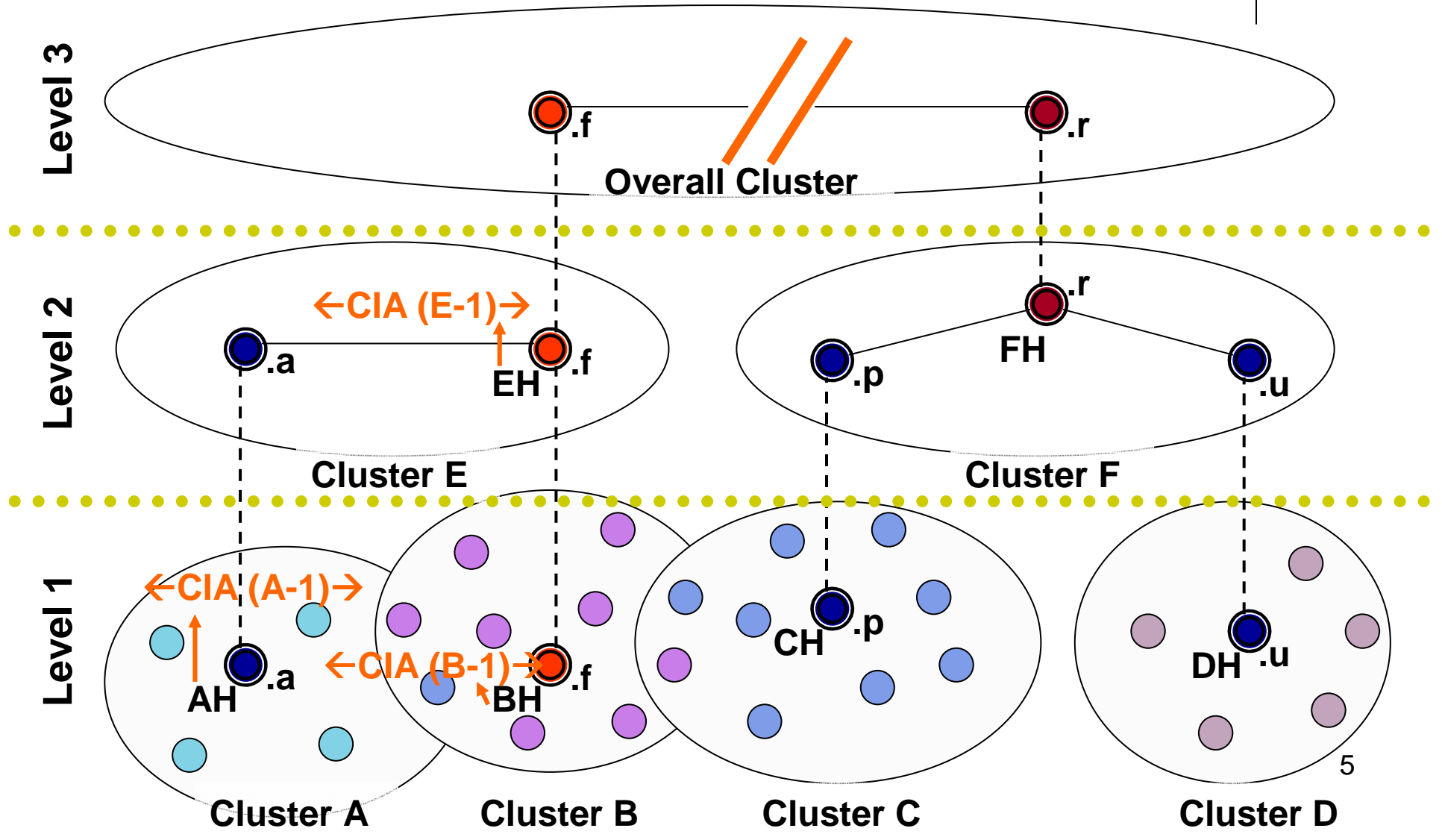
1) Lost link on critical path – level 3





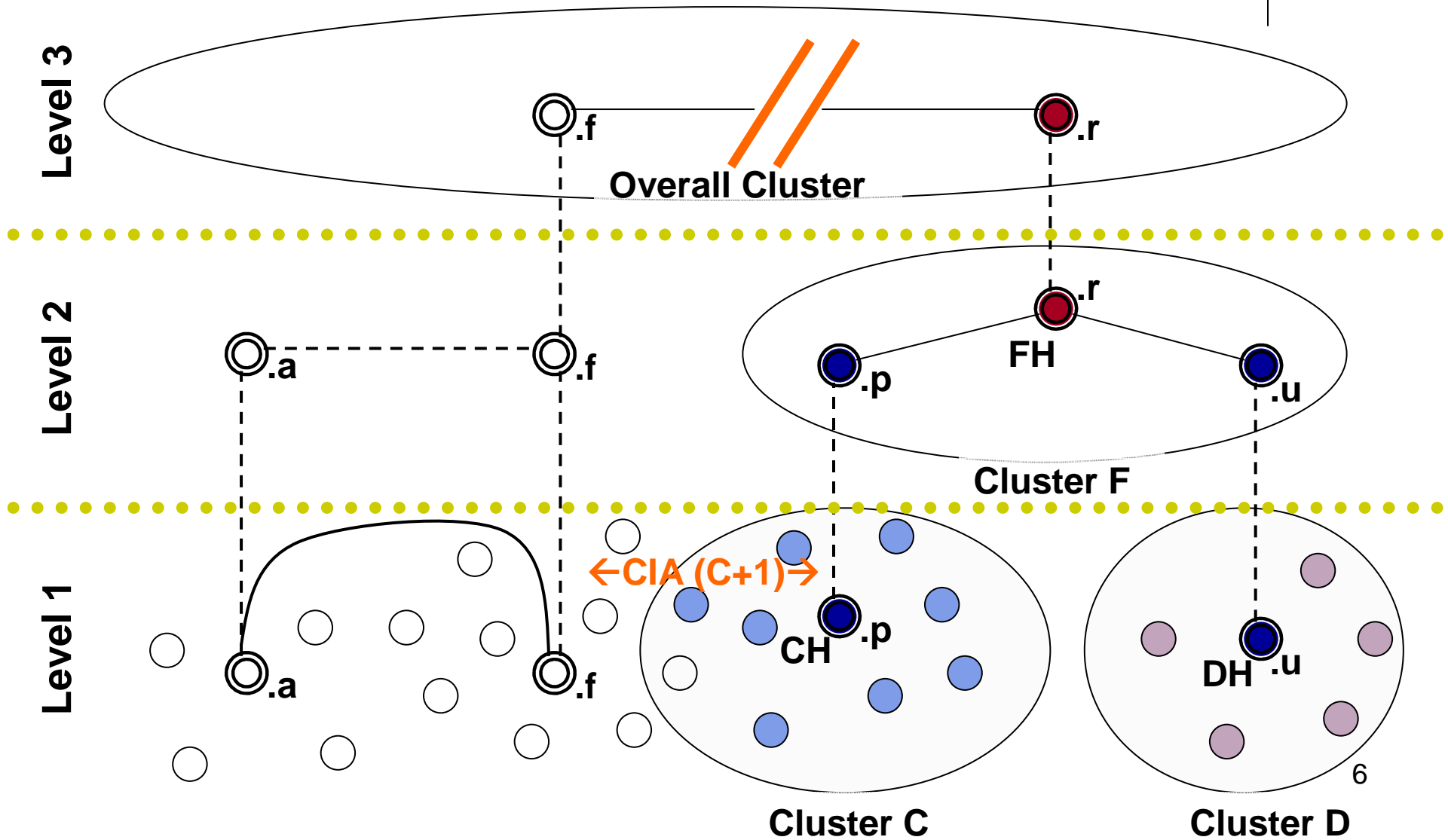
Decommission Example Cont'd

2) CIA Decommission messages (-1) are triggered



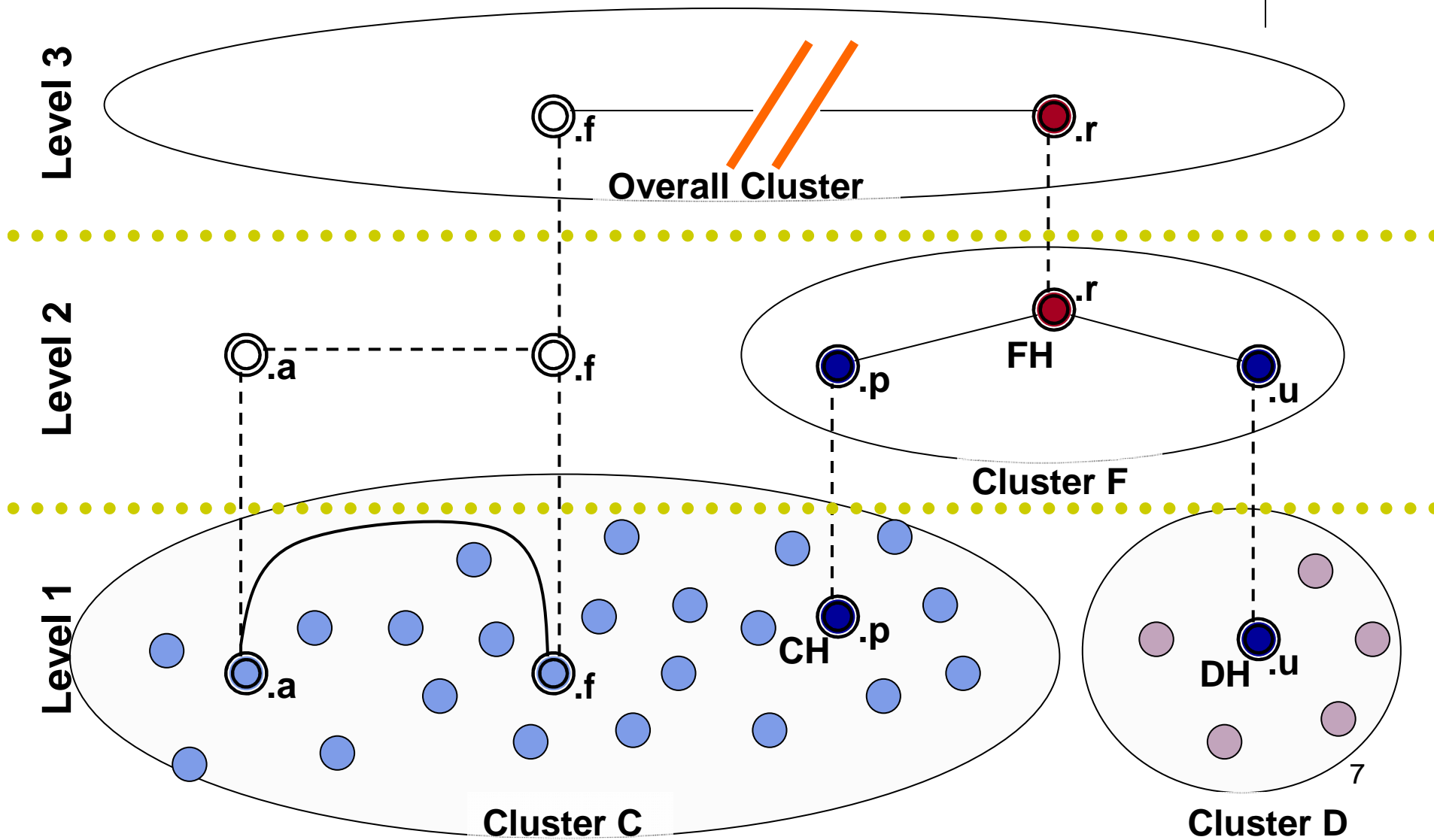
Decommission Example Cont'd

3) Nodes are free to select closest available cluster head (+1)



Decommission Example Cont'd

4) Decommissioned nodes join cluster C



Discussion / Questions

