



DataStax Enterprise Architecture

Negib Marhoul, Solution Engineer, DataStax

5. October 2017

Agenda

1	
2	
3	

Anti Entropy

Hinted handoff

Coordinator buffers writes for unavailable node

Max window

Operationally heavy in C* 2.x, greatly improved in C* 3.x

Meant to bridge short outages

Read repairs

Data mismatch realigned on read

Depends on consistency level

Blocking (to some extent)

Read returns the repaired data

Background read repairs

Read repair triggered in the background on ALL replicas by normal reads

Does not depend on CL

Read returns data according to CL

Happens in a % of the reads

Not blocking

Operational Repairs

- Can be on whole node or more granular

- Realign drifts on a whole set of the data

- Must be done regularly as routine maintenance

- Many options to configure them

Vielen Dank!