

# Re: Exchange Management Console slow

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- *From:* "Ed Crowley [MVP]" <[curspice@xxxxxxxxxxxxxxxx](mailto:curspice@xxxxxxxxxxxxxxxx)>
  - *Date:* Tue, 27 Nov 2007 20:10:23 -0800
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Inline.

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Ed Crowley

MVP – Exchange

"Protecting the world from PSTs and brick backups!"

<[diegovster@xxxxxxxxxx](mailto:diegovster@xxxxxxxxxx)> wrote in message

[news:6ffb6992-7798-400e-bb2c-a236c8a2da24@xx](mailto:news:6ffb6992-7798-400e-bb2c-a236c8a2da24@xx)

SCC is not just implemented to protect against hardware failure, it also provides protection against failure of the OS and its applications and the argument of businesses making mistakes in their "design, deployment or administration" is also applicable to CCR implementations.

Okay, that's one more thing, the OS. So what are the odds of such a failure versus the cost of such protection, minus the extra downtime due to operational error? I still don't see a business case there.

Even though MNS requires nothing more than FSW and a fileshare on another server, it is still an extra requirement and dependency on the MNS architecture.

Not sure what you mean by dependency, but a CCR cluster will continue to operate without the FSW, so it's not a strict dependency except in the loss of a node.

The network argument comes from capacity management of bandwidth. Yes it's cheap but it is still a consideration. You now have essentially double the exchange traffic going through your switches, and I don't think you can compare the size of a heartbeat packet to the size of actual messaging packets that are being replicated between the servers. Besides most people would use an isolated network or a dedicated cross over cable as their primary

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heartbeat network which places no impact on the production network infrastructure and remove the production network as a point of failure for cluster communications.

My experience is that most of my customers don't install crossover cables. Still, why not use that "heartbeat" network for shipping logs at zero extra cost?

As far as array based snapshots goes, most SANs give you the ability to take a point in time copy of an exchange database, which can be used in the case of database corruption.

Snapshots are generally not valid backups unless you're taking a VSS backup because you can't guarantee transactional integrity. Still, there's no reason you can't install CCR on a SAN making that a wash as well.