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**From:** Jenkins Gareth GI  
**Sent:** Fri 02/10/2009 9:35:48 AM (UTC)  
**To:** Chambers Anne O GRO  
**Subject:** RE: Draft paper on Horizon Data Integrity

Anne,

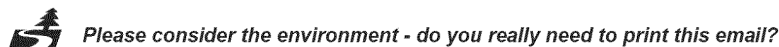
I gather you've been trained this morning. Please can you give me a ring when you get a chance about this.

Regards

Gareth

Gareth Jenkins  
Distinguished Engineer  
Applications Architect  
Royal Mail Group Account

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**From:** Chambers Anne O  
**Sent:** 01 October 2009 18:19  
**To:** Jenkins Gareth GI  
**Subject:** RE: Draft paper on Horizon Data Integrity

## Section 2

You mention incremental sequence numbers in the audit section at the end, but could mention it earlier too, to make clear that each message has a unique identifier which stays with it when it is replicated.

Each individual message has a checksum.

Not quite sure what you should be saying about CRC read failures. We aren't currently checking old event logs for these when doing audit retrievals, and I don't want us landed with even more checks to make. If there are CRC errors, SMC normally raise a call and we trash the messagestore and let it rebuild - but probably don't want to say that! But if we don't say, with they ask?

Event logs - more than 18 months but not sure if it is 7 years.

3.1.1, 3.1.2 The user will get an AP message warning them that the last session ended in error, but it only tells them to check AP transactions, not others.

3.1.3.1 If banking recovery is not completed immediately after the counter is replaced, this is reported on the banking reconciliation reports and followed up.

*Anne*

GRO

or

GRO

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**From:** Jenkins Gareth GI  
**Sent:** 01 October 2009 12:39  
**To:** Hodgkinson Allan AJ; Worrell Jeremy; Chambers Anne O; Sweeting Jim; Bailey Chris  
**Cc:** Smith Latoya; Burton John  
**Subject:** Draft paper on Horizon Data Integrity

All,

Jeremy has asked me to produce a paper on Horizon Data Integrity to support POL in refuting claims by Postmasters that Horizon is causing money to be lost.

I've put together an initial draft. I've ignored the "front bits" for now and am currently looking for comments on the technical aspects and in particular the comments in yellow.

<< File: xxxSECxxxyyyy.HorizonDataIntegrity.doc >>  
Also if anyone is aware of other material to feed in on this I would be grateful. I had a quick look through PVCS and a search through the TED and found nothing useful there.

Note that this is NOT yet in a state to go to POL and once I've had feedback from all of you (and anyone else you think is relevant), Jeremy needs to pass this through Commercial.

We have a conf call with POL 4pm on Friday, so I'd appreciate any feedback by lunch time Friday (which is when I committed to providing this to Jeremy).

Jeremy: Do you have any thoughts as to where this should be lodged in Dimensions. I assume we need to make this a formal document, but if not, I'm happy to remove the "front bits".

Regards

Gareth

**Gareth Jenkins**  
**Distinguished Engineer**  
**Applications Architect**  
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