

EPIC v. NASA

Documents Disclosed on April 27, 2004

Document No. 46

From: Jonas Dino <jonas.dino@nasa.gov>
Date: Mon Sep 29, 2003 12:49:30 PM US/Pacific
To: Thomas A Edwards <Thomas.Edwards@nasa.gov>, Thomas H Hinke
<thinke@mail.arc.nasa.gov>
Subject: NWA RTQ final technical review.

Hello Gentlemen,
Fortunately no media calls but please review the RTQ for technical accuracy. I need this
ASAP so I can get it up to HQ for their review.

Thank you,

Jonas

--
Jonas Dino
Public Affairs Officer/Web Manager
Public Affairs Office
650/604-5612



amesnews.arc.nasa.gov

RTQ_NWA9-29.doc (35.5 KB)

(B)(5)

EPIC v. NASA

Documents Disclosed on April 27, 2004

Document No. 47

From: Thomas H. Hinke <Thomas.H.Hinke@nasa.gov>
Date: Mon Sep 29, 2003 9:45:59 AM US/Pacific
To: Jonas Dino <jonas.dino@nasa.gov>
Cc: Walt Brooks <wbrooks@mail.arc.nasa.gov>
Subject: Re: research using Northwest Airlines PNR Data

Jonas,

I found out that the data has been sent back to Northwest Airlines.

tom

On Friday, September 26, 2003, at 02:00 PM, Jonas Dino wrote:

Hello Dr. Hinke,

(S)

[REDACTED]

3(S)

[REDACTED]

B(S)

[REDACTED]

B(S)

[REDACTED]

Thank you very much,
Jonas Dino

--

Jonas Dino
Public Affairs Officer/Web Manager
Public Affairs Office
650/604-5612
amesnews.arc.nasa.gov

EPIC v. NASA

Documents Disclosed on April 27, 2004

Document No. 48

From: Mark Schwabacher <mark.a.schwabacher@nasa.gov>
Date: Sun Sep 28, 2003 10:31:21 PM US/Pacific
To: Dave Korsmeyer <david.j.korsmeyer@nasa.gov>
Cc: "Thomas H. Hinke" <Thomas.H.Hinke@nasa.gov>, Thomas Edwards <tedwards@mail.arc.nasa.gov>, Walt Brooks <wbrooks@mail.arc.nasa.gov>, Mark Schwabacher <schwabac@email.arc.nasa.gov>
Subject: Re: Northwest Airlines Data

Dave,

Yes, I sent all of the data back to Northwest Airlines.

-- Mark

Dave Korsmeyer wrote:

Tom, Mark,

I don't know if you saw, but a news story recently came out about the NW airlines data that NASA requested. <http://washingtontimes.com/national/20030926-104922-8318r.htm>

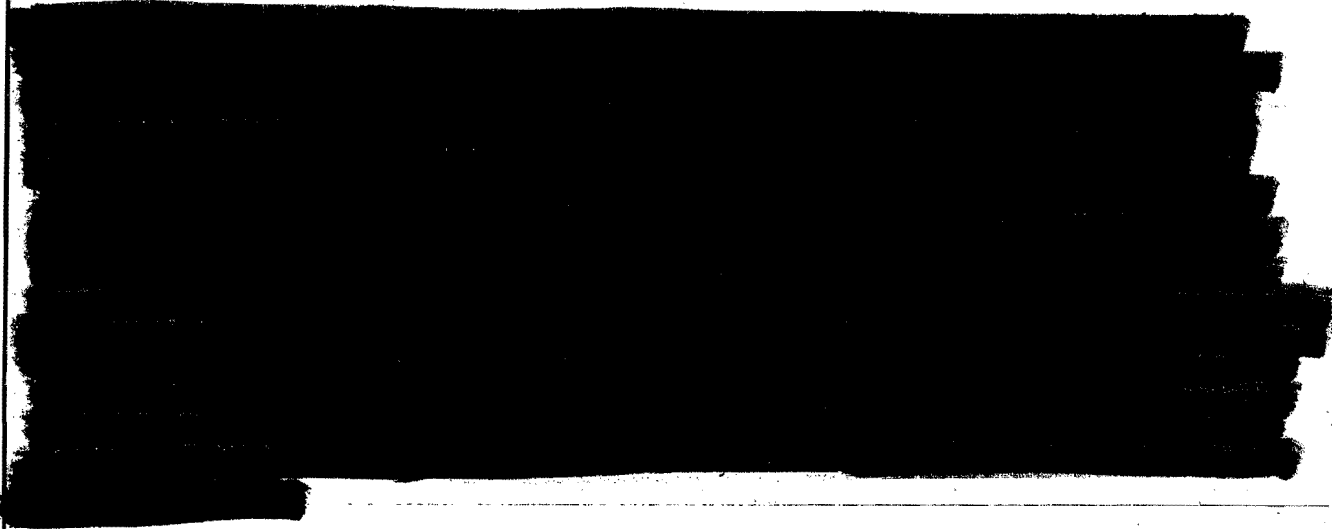
I know that we are not using any of the data this year, and that you had intended to return it to NW airlines (see msg below). Have you yet been able to do so? Do you need some assistance?

Thanks,

-Dave

At 9:38 AM -0800 2/4/03, Thomas H. Hinke wrote:

Dave and Mark,



tom

Thomas H. Hinke, M.B.A., Ph.D.
Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5
Moffett Field, CA 94035-1000
Phone: (650) 604-3662
FAX: (650) 604-4377

EPIC v. NASA

Documents Disclosed on April 27, 2004

Document No. 49

From: "Daniel J. Clancy" <Daniel.j.clancy@nasa.gov>
Date: Mon Sep 29, 2003 9:57:47 AM US/Pacific
To: "Scott Hubbard" <shubbard@arc.nasa.gov>, "Steven Zornetzer" <szornetzer@mail.arc.nasa.gov>, "David Korsmeyer" <korsmeyer@ptolemy.arc.nasa.gov>, "Estelle Condon" <econdon@mail.arc.nasa.gov>, <tedwards@arc.nasa.gov>, <allen.g.flynt@arc.nasa.gov>, <smauldin@arc.nasa.gov>, <dmorse@arc.nasa.gov>, <thinke@arc.nasa.gov>, "Patricia M. Jones" <pmjones@mail.arc.nasa.gov>
Cc: "Huy Tran" <htran@arc.nasa.gov>
Subject: Heads up on an article and issue to be aware of

Scott et all,

I wanted to make sure you guys were aware of a news story that came out recently about Ames and our having access to some data from Northwest airlines on passenger information and the work we had done looking at a follow-on for CAPS.

We are not doing any work now (we stopped this work for a number of different reasons) and we have returned all of the data that we had to Northwest.

I expect this is one of those things that will die, but the country has been very sensitive about any issues such as this with respect to privacy. Basically, the idea is to have an "intelligent system" that can assess the degree of threat of a passenger prior to boarding the airline. Again, we are not doing this any more.

Note that while Tom Edwards name is all over the article, this was worked by Bob Rosen.

Myself and/or Tom Edwards can provide more info if needed, but wanted to send this link.

Dan

>Dave,

>

>Yes, I sent all of the data back to Northwest Airlines.

>

>-- Mark

>

>Dave Korsmeyer wrote:

>>Tom, Mark,

>>

>>I don't know if you saw, but a news story recently came out about

>>the NW airlines data that NASA requested.

>><http://washingtontimes.com/national/20030926-104922-8318r.htm>

>>

>>I know that we are not using any of the data this year, and that

>>you had intended to return it to NW airlines (see msg below). Have

>>you yet been able to do so? Do you need some assistance?

>>

>>Thanks,

>>

>>- Dave

>>

>>

>>At 9:38 AM-08002/4/03, Thomas H. Hinke wrote:

>>

>>>Dave and Mark,

>>>

(b)(5) >>> [Redacted]

>> [Redacted]

>> [Redacted]

>>> [Redacted]

>> [Redacted]

>>> [Redacted]

>>> [Redacted]

>> [Redacted]

>> [Redacted]

>>> [Redacted]

>>>t [Redacted]

>>> [Redacted]

>> [Redacted]

>> [Redacted]

>>> [Redacted]

>>> [Redacted]

(B)(5) >> [REDACTED]

>>>

>>>tom

>>>

>>>

>>>

>>>-----

>>>Thomas H. Hinke, M.B.A., Ph.D.

>>>Senior Scientist

>>>NASA Advanced Supercomputing (NAS) Division

>>>NASA Ames Research Center

>>>Mail Stop 258-5

>>>Moffett Field, CA 94035-1000

>>>Phone: (650) 604-3662

>>>FAX: (650) 604-4377

--

-----//-----

David J. Korsmeyer, Ph.D.

Chief (acting), Computational Sciences Division, M/S 269-1

NASA Ames Research Center, Moffett Field, Ca 94035

650-604-3114 Wk, 650-604-3594 Fax

david.j.korsmeyer@nasa.gov :: <http://ic.arc.nasa.gov/>

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Documents Disclosed on April 27, 2004

Document No. 50

From: Thomas H. Hinke <Thomas.H.Hinke@nasa.gov>
Date: Fri Sep 26, 2003 6:04:04 PM US/Pacific
To: Jonas Dino <jonas.dino@nasa.gov>
Cc: Walt Brooks <wbrooks@mail.arc.nasa.gov>
Subject: Re: research using Northwest Airlines PNR Data

Jonas,

Attached are answers to your questions. I have also copied my division chief so that he is aware of this.

tom



(b)(5) Sept 2003.doc (28.0 KB)

On Friday, September 26, 2003, at 02:00 PM, Jonas Dino wrote:

(b)(5)
[Redacted content]

Thank you very much,
Jonas Dino

--

Jonas Dino
Public Affairs Officer/Web Manager
Public Affairs Office
650/604-5612
amesnews.arc.nasa.gov

Thomas H. Hinke, M.B.A., Ph.D.
Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5
Moffett Field, CA 94035-1000
Phone: (650) 604-3662
FAX: (650) 604-4377

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Documents Disclosed on April 27, 2004

Document No. 51

From: Thomas H. Hinke <Thomas.H.Hinke@nasa.gov>

Date: Sat Sep 27, 2003 10:20:25 AM US/Pacific

To: Jonas Dino <jonas.dino@nasa.gov>

Cc: Walt Brooks <wbrooks@mail.arc.nasa.gov>

Subject: Re: research using Northwest Airlines PNR Data

Jonas,

With a little more time to collect my thoughts and recollections of this project, I have clarified some of the points that I made in the previous submission and have attached the revision.

tom



Sept 27 2003.doc (28.8 KB)

(b)(5)

On Friday, September 26, 2003, at 02:00 PM, Jonas Dino wrote:

[REDACTED]

(b)(5)

[REDACTED]

(b)(5)

[REDACTED]

(b)(5)

[REDACTED]

Thank you very much,
Jonas Dino

--

Jonas Dino
Public Affairs Officer/Web Manager
Public Affairs Office
650/604-5612
amesnews.arc.nasa.gov

Thomas H. Hinke, M.B.A., Ph.D.
Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5
Moffett Field, CA 94035-1000
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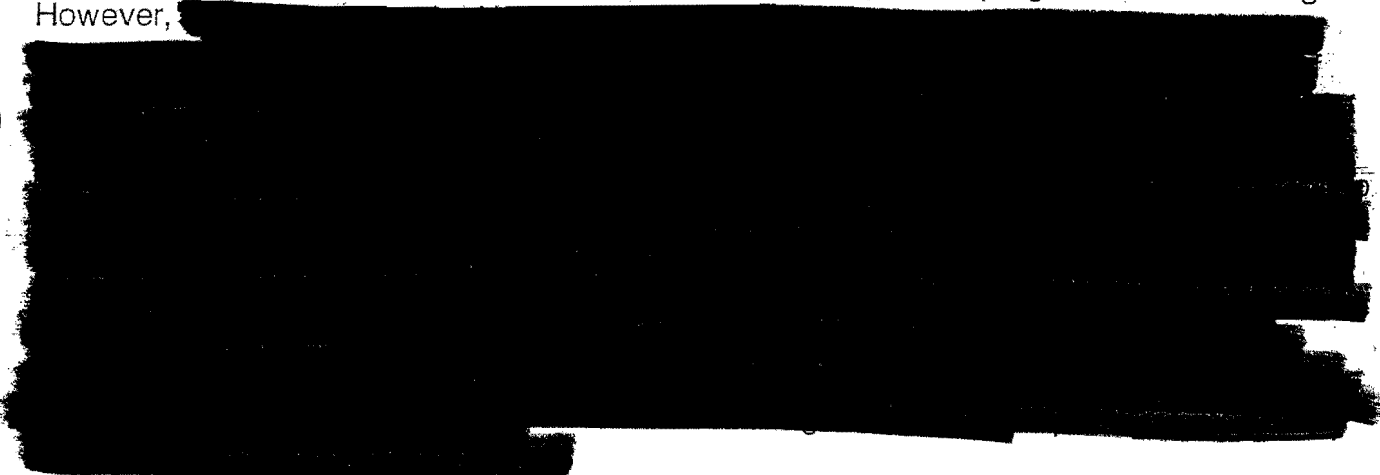
Document No. 52

From: Thomas H. Hinke <Thomas.H.Hinke@nasa.gov>
Date: Sun Dec 22, 2002 4:45:40 PM US/Pacific
To: Dave Korsmeyer <dkorsmeyer@mail.arc.nasa.gov>
Subject: Re: Aviation Security Report

Dave,

I will be back in the office on January 6, But, at the level of \$50 to \$100K for all of the Ames Aviation Security work, I am wondering why we just don't pull the plug on the whole thing. However,

(B)(6)



Anyway, we can talk about this when I return in January.

Hope you have a good holiday season.

tom

On Saturday, December 21, 2002, at 12:21 PM, Dave Korsmeyer wrote:

Tom,
Thanks for this.

I recently spoke to Eugene & Dan about the status of the AvSec \$. They informed me that there is no funding avail but that we could propose for some.

I think that we should get some thoughts together for a generic Avsec lab. \$50k - 100k range.

- Dave

Thomas H. Hinke wrote:

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Document No. 53

From: Andres Zellweger <azellweg@hq.nasa.gov>
Date: Wed Dec 11, 2002 5:54:35 AM US/Pacific
To: "Thomas H. Hinke" <Thomas.H.Hinke@nasa.gov>
Subject: Re: A couple more people briefed on our aviation security work

thanks

At 01:52 PM 12/10/2002 -0800, you wrote:-

Dres,

The following two people from Northwest Airlines were also briefed on our aviation security work and were instrumental in granting us access to 90 days of Northwest Airlines passenger data. John Klinkenberg was also the Chair of an FAA or DOT (not sure which) advisory committee on aviation security.

Jay Dombrowski, Security Manager, Nortwest Airlines, February 26, 2002

John Klinkenberg, chairman FAA/DOT Aviation Security R&D Advisory Committee, also senior executive with Nortwest Airlines, February 26, 2002.

tom

Thomas H. Hinke, M.B.A., Ph.D.
Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5
Moffett Field, CA 94035-1000
Phone: (650) 604-3662
FAX: (650) 604-4377

</blockquote></x-html>

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Documents Disclosed on April 27, 2004

Document No. 54

From: "Mark Schwabacher" <Mark.A.Schwabacher@nasa.gov>
Date: Tue Feb 4, 2003 4:35:56 PM US/Pacific
To: "Thomas H. Hinke" <Thomas.H.Hinke@nasa.gov>
Subject: RE: N258 Room 235 request

It's the PC that's attached to the CD changer. The hard disk also contains files needed for the lab demo (which would be lost if we wipe it), but I assume we won't ever be doing that demo again.

-- Mark

-----Original Message-----

From: Thomas H. Hinke [mailto:Thomas.H.Hinke@nasa.gov]
Sent: Tuesday, February 04, 2003 4:25 PM
To: Mark Schwabacher
Subject: Re: N258 Room 235 request

Thanks. Which machine needs to be wiped? I think that I will go ahead and have that done.

tom

On Tuesday, February 4, 2003, at 03:50 PM, Mark Schwabacher wrote:

I got CDs. I also deleted the files from the PC and emptied the Windows recycle bin. It may still be possible to recover the files using special software, so if we ever decide give the PCs to someone else, we might want to first use special software to "wipe" the hard disk.

-- Mark

-----Original Message-----

From: Thomas H. Hinke [mailto:Thomas.H.Hinke@nasa.gov]
Sent: Tuesday, February 04, 2003 3:35 PM
To: Mark Schwabacher
Subject: Re: N258 Room 235 request

Thanks.

tom

On Tuesday, February 4, 2003, at 02:55 PM, Mark Schwabacher wrote:

Hi Tom,

I don't see any reason to refuse the request.

I will take the NWA CDs and lock them up in a file cabinet in my office. The quad-CPU Linux server does not have any NWA data on it.

One of the desktop PCs may have a small amount of NWA data on it, since David had been working on one of the PCs while he was waiting for his laptop to arrive. David told me where he thinks the files might be; I will look for them and delete them if I find them. I have a 3:00 meeting in 269; after that I will go over to the lab.

--Mark

-----Original Message-----

From: Thomas H. Hinke [mailto:Thomas.H.Hinke@nasa.gov]

Sent: Tuesday, February 04, 2003 2:15 PM

To: Mark Schwabacher

Subject: Fwd: N258 Room 235 request

Mark,

I just got the following message from one of the branch chiefs here

in the division, asking for the use of the Aviation Security Lab rooms for some March Collaborative technology demo for Dave Korsmeyer. Unless you see some basis for refusing this request, I am inclined

to say yes.

However, before saying yes, I would like to see that all of the Northwest Airlines' CD's are taken out of the room and secured in a

locked area.

So, my first question is do you want to take control of this data,

or do you want me to take care of it? If possible I would like to

see this data removed today, since things can move pretty fast around here.

The second question is whether there is any Northwest data on any

computer in the lab that needs to be secured. I was of the opinion

that the quad processor system had not been loaded with any data, so

it should be clean, but I just wanted to make sure.

tom

Begin forwarded message:

From: William W Thigpen <William.W.Thigpen@nasa.gov>
Date: Tue Feb 4, 2003 11:30:21 AM US/Pacific
To: Tom Hinke <Thomas.H.Hinke@nasa.gov>
Subject: Fwd: N258 Room 235 request

Begin forwarded message:

From: "Hugh LaMaster" <hlamaster@mail.arc.nasa.gov>
Date: Tue Feb 4, 2003 11:42:38 AM US/Pacific
To: "William W. Thigpen (E-mail)"

<bthigpen@mail.arc.nasa.gov>,

"John Parks (E-mail)" <parks@nas.nasa.gov>
Subject: N258 Room 235 request
Reply-To: <Hugh.LaMaster-1@nasa.gov>

I would like to be able to use the Room 235 Area (has been assigned to Aviation Security) for the March Collaborative Technology demo of HDTV between ARC and JPL. Is the Aviation Security initiative still actively using it? The rooms are the correct size for this demo.

The ARC customer is Dave Korsmeyer.

-Hugh

Hugh LaMaster, M/S 233-21, Hugh.LaMaster-1@nasa.gov,
NASA Ames Research Center Use Entrust/PKI or
Moffett Field, CA 94035-1000 PGP keyid 0x1FE4BFFC
Phone: 650/604-1056

William W. Thigpen
NAS Engineering Branch Chief
NASA Ames Research Center
voice: (650) 604-1061
fax: (650) 604-4377

Thomas H. Hinke, M.B.A., Ph.D.
Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5
Moffett Field, CA 94035-1000
Phone: (650) 604-3662
FAX: (650) 604-4377

Thomas H. Hinke, M.B.A., Ph.D.

Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5
Moffett Field, CA 94035-1000
Phone: (650) 604-3662
FAX: (650) 604-4377

Thomas H. Hinke, M.B.A., Ph.D.
Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5
Moffett Field, CA 94035-1000
Phone: (650) 604-3662
FAX: (650) 604-4377

EPIC v. NASA

Documents Disclosed on April 27, 2004

Document No. 55

From: David Roland <droland@mail.arc.nasa.gov>
Date: Mon Mar 10, 2003 5:03:08 PM US/Pacific
To: Mark Schwabacher <Mark.A.Schwabacher@nasa.gov>
Cc: "Thomas H. Hinke" <Thomas.H.Hinke@nasa.gov>, "Jeffrey C. Becker"
<becker@nas.nasa.gov>
Subject: Re: Computer with Northwest Airlines PNR data

The other machines I've put any data on is my laptop that I still have and the Sun simak that has been decommissioned. I'd erased the data on simak prior to it's removal and erased the transit file on bouncer used to move the data to simak.

David

Mark Schwabacher wrote:

I believe the only computer that had NWA data was the PC that is attached to the jukebox.

-- Mark

-----Original Message-----

From: Thomas H. Hinke [mailto:Thomas.H.Hinke@nasa.gov]
Sent: Monday, March 10, 2003 2:40 PM
To: Mark Schwabacher; David Roland
Cc: Jeffrey C. Becker
Subject: Computer with Northwest Airlines PNR data

Which computer in the lab had the Northwest Airlines PNR data on it. I would like to have that disk sanitized, but I do not know which machine it was.

Thanks.

tom

Thomas H. Hinke, M.B.A., Ph.D.
Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5

Moffett Field, CA 94035-1000

Phone: (650) 604-3662

FAX: (650) 604-4377

EPIC v. NASA

Documents Disclosed on April 27, 2004

Document No. 56

From: Thomas H. Hinke <Thomas.H.Hinke@nasa.gov>
Date: Mon Mar 10, 2003 5:13:34 PM US/Pacific
To: David Roland <droland@mail.arc.nasa.gov>
Cc: Mark Schwabacher <Mark.A.Schwabacher@nasa.gov>, "Jeffrey C. Becker"
<becker@nas.nasa.gov>
Subject: Re: Computer with Northwest Airlines PNR data

All,

So, for the machines in the lab, it looks like only the PC attached to the laptop had PNR data on it.

Thanks.

tom

On Monday, March 10, 2003, at 05:03 PM, David Roland wrote:

The other machines I've put any data on is my laptop that I still have and the Sun. simak that has been decommissioned. I'd erased the data on simak prior to it's removal and erased the transit file on bouncer used to move the data to simak.

David

Mark Schwabacher wrote:

I believe the only computer that had NWA data was the PC that is attached to the jukebox.

-- Mark

-----Original Message-----

From: Thomas H. Hinke [mailto:Thomas.H.Hinke@nasa.gov]
Sent: Monday, March 10, 2003 2:40 PM
To: Mark Schwabacher; David Roland
Cc: Jeffrey C. Becker
Subject: Computer with Northwest Airlines PNR data

Which computer in the lab had the Northwest Airlines PNR data on it. I

would like to have that disk sanitized, but I do not know which machine

it was.

Thanks.

tom

Thomas H. Hinke, M.B.A., Ph.D.
Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5
Moffett Field, CA 94035-1000
Phone: (650) 604-3662
FAX: (650) 604-4377

Thomas H. Hinke, M.B.A., Ph.D.
Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5
Moffett Field, CA 94035-1000
Phone: (650) 604-3662
FAX: (650) 604-4377

EPIC v. NASA

Documents Disclosed on April 27, 2004

Document No. 57

From: "Mark Schwabacher" <schwabac@email.arc.nasa.gov>
Date: Wed May 29, 2002 11:18:51 AM US/Pacific
To: "Thomas H. Hinke" <thinke@mail.arc.nasa.gov>
Subject: RE: Memory requirements

We have 180 CD's. They're not all completely full. I estimate, based on a small sample, that the total is about 100 GB.

-- Mark

-----Original Message-----

From: Thomas H. Hinke [mailto:thinke@mail.arc.nasa.gov]
Sent: Wednesday, May 29, 2002 10:58 AM
To: Mark Schwabacher
Subject: Memory requirements

Mark,

How much data is in the CDs that we have from Northwest. I am sure I have this someplace, but thought that you might know it.

Thanks.

tom

Thomas H. Hinke, Ph.D.
Senior Scientist
NASA Advanced Supercomputing (NAS) Division
NASA Ames Research Center
Mail Stop 258-5
Moffett Field, CA 94035-1000
Phone: (650) 604-3662
FAX: (650) 604-4377

EPIC v. NASA

Documents Disclosed on April 27, 2004

Document No. 58

From: Mark Schwabacher <mark.a.schwabacher@nasa.gov>
Date: Mon Sep 29, 2003 11:07:48 AM US/Pacific
To: Jonas Dino <jonas.dino@nasa.gov>
Cc: "Thomas H. Hinke" <thinke@mail.arc.nasa.gov>
Subject: Northwest Airlines data

Jonas,

I think you should be aware that Stephen Bay and I published a workshop paper about our aviation security work. The paper was part of the Workshop on Data Mining for Counter Terrorism and Security at the SIAM Data Mining Conference on May 3, 2003:

http://ic.arc.nasa.gov/~ashok/SIAM_2003_Conference.htm

In the paper, we wrote, "We obtained 90 days' worth of passenger data from a major U.S. airline." We didn't identify the airline, or give specifics about what was in the data. The paper focused on scaling up an anomaly detection algorithm to handle large databases. I've attached the paper. The paper is on my Code IC Web page. Last week I made an update to my Web page that included removing this paper, in part because we recently published a new paper that describes the algorithm more fully without mentioning the passenger data. The update has not been processed yet, so the paper is still on the Web, but it will probably disappear soon.

Mark

--
Dr. Mark Schwabacher
NASA ARC, Code IC
650-604-4274
<http://ic.arc.nasa.gov/~schwabac/>



[security.pdf \(226 KB\)](#)

EPIC v. NASA

Documents Disclosed on April 27, 2004

Document No. 59

From ???@??? Mon Jan 07 16:56:06 2002
To: jay_Dombrowski
From: "Thomas H. Hinke" <thinke@mail.arc.nasa.gov>
Subject: ~~Problems reading NW data~~
Cc:
Bcc:
X-Attachments:
In-Reply-To:
References:
Message-Id: <4.3.2.7.2.20020107165417.01b57c40@mail.arc.nasa.gov>
X-Eudora-Signature: <Standard>

Jay,

We are having some problems reading some binary data on the initial test disk that we got from Northwest. This is apparently some Worldspan data. It would be very useful if we could get some documentation as to how to read this data.

Thanks.

Tom

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Documents Disclosed on April 27, 2004

Document No. 60

</x-html>

From ???@??? Wed Apr 17 14:56:06 2002
Return-Path: <Jay.Dombrowski@nwa.com>
Received: from arc-relay2.arc.nasa.gov (IDENT:mirapoint@arc-relay2.arc.nasa.gov [128.102.31.195])
by mail.arc.nasa.gov (8.9.3/8.9.3) with ESMTTP id OAA14329
for <thinke@mail.arc.nasa.gov>; Wed, 17 Apr 2002 14:55:00 -0700 (PDT)
Received: from jlxsfw02.nwa.com (jlxsfw01.nwa.com [139.72.190.28])
by arc-relay2.arc.nasa.gov (Mirapoint)
with ESMTTP id ABK00681;
Wed, 17 Apr 2002 14:52:50 -0700 (PDT)
Received: by jlxsfw02.nwa.com; id QAA25430; Wed, 17 Apr 2002 16:58:28 -0500 (CDT)
Received: from unknown(139.72.109.120) by jlxsfw02.nwa.com via smap (V5.5)
id xma025254; Wed, 17 Apr 02 16:58:22 -0500
Received: by jlxsas88.mn.nwa.com; id VAA07494; Wed, 17 Apr 2002 21:52:48 GMT
Received: from mspa47292.mn.nwa.com(139.72.72.47) by jlxsas88.mn.nwa.com via csmmap (V4.1)
id srcAAA7JayJo; Wed, 17 Apr 02 21:52:46 GMT
Message-ID: <01d301c1e65a\$327a8560\$2f48488b@pad.nwa.com>
Reply-To: "Jay Dombrowski" <Jay.Dombrowski@nwa.com>
From: "Jay Dombrowski" <Jay.Dombrowski@nwa.com>
To: "Tom Hinke" <thinke@mail.arc.nasa.gov>
References: <00e701c1e650\$809d9e30\$2f48488b@pad.nwa.com>
<a05101505b8e390821e3a@[198.9.13.95]>
Subject: Re: whats up
Date: Wed, 17 Apr 2002 16:52:41 -0500
Organization: Northwest Airlines, Inc
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Mailer: Microsoft Outlook Express 5.50.4522.1200
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4522.1200
X-UIDL: ebf94369d92acf0b50fa838b99643e83

<x-charset iso-8859-1>Im out until next week but next week Ill do two things
1 check on your data
2 Im meeting with white house ill put in a good word

----- Original Message -----

From: "Tom Hinke" <thinke@mail.arc.nasa.gov>
To: "Jay Dombrowski" <Jay.Dombrowski@nwa.com>
Cc: "Mark Schwabacher" <schwabac@email.arc.nasa.gov>
Sent: Wednesday, April 17, 2002 4:30 PM
Subject: Re: whats up

> Jay,

>

> We are working to get someone to write some software to parse the PNR
> records so that we can associate the various different types of
> values with XML tags. Unfortunately, information is lost when the
> database data is converted to the PNR format, thus this is a
> non-trivial task.

>
> We are also still waiting for things that were promised at the
> telecon that you arranged a number of weeks ago. We are waiting for
> the following:

>
> 1. Documentation on the standard PNR format

>
> 2. Three months of data in DIR PNR format, which is intended to be
> machine readable, but which is available only for passenger flight
> data that is still in the database.

>
> 3. Documentation on the DIR PNR format.

>
> 4. Software, which was developed at Northwest, to extract phone
> numbers from the standard PNR format.

>
> The telecon was very helpful and much was promised but to date the
> only thing that has been delivered is Mark's PNR in DIR PNR. What is
> interesting is the Marks PNR was still in the live system in April
> for a trip that was taken in December. We did not think that data
> stayed in the system that long.

>
> On April 9, Mark Schwabacher sent a reminder to Raelynn Sink to check
> the status of all of this and she indicated that they were still
> working on it, since they needed to get some information from
> Worldspan.

>
> In general things are still moving. The fact that TSA did not want
> our help on CAPPS2 has apparently not had any impact on NASA's desire
> to move ahead with this, so that is what we are doing. We really
> appreciate the help with have gotten from Northwest and hopefully in
> the not too distant future we will be processing the PNR data.

>
> tom

>
>
>
>
> --

> -----
> Thomas H. Hinke, Ph.D.
> Senior Scientist
> NASA Advanced Supercomputing (NAS) Division
> NASA Ames Research Center
> Mail Stop 258-5
> Moffett Field, CA 94035-1000
> Phone: (650) 604-3662
> FAX: (650) 604-4377

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Documents Disclosed on April 27, 2004

Document No. 61

From ???@??? Fri Dec 14 09:51:29 2001
To: "Jay Dombrowski" <jay.dombrowski@nwa.com>
From: "Thomas H. Hinke" <thinke@mail.arc.nasa.gov>
Subject: ~~Re: Request for Northwest data~~
Cc:
Bcc:
X-Attachments:
In-Reply-To: <006f01c184c1\$fb29cde0\$5d48488b@MSPA30436.nwa.com>
References:
Message-Id: <4.3.2.7.2.20011214095119.01b36930@mail.arc.nasa.gov>
X-Eudora-Signature: <Standard>

<html>

Jay,

Thanks.

tom

At 09:08 AM 12/14/2001, you wrote:

<blockquote type=cite cite>hi

good to here from you again

send to me

Ill be glad to help

-----Original Message-----

From: Thomas H. Hinke <thinke@mail.arc.nasa.gov>

To: Jay Dombrowski <jay.dombrowski@nwa.com>

Date: Friday, December 14, 2001 11:09 AM

Subject: Request for Northwest data

>Jay,

>

>To whom should the official NASA request for Northwest data be sent --

to

>you or someone else. If it should be sent to someone else, I would

>appreciate the name, mailing address, phone and fax number of this

person.

>We would like to fax out the request today followed by a letter.

>

>Thanks.

>

>tom

>-----

>Thomas H. Hinke, Ph.D

>Senior Scientist

>NASA Advanced Supercomputing (NAS) Division

>NASA Ames Research Center

>Mail Stop 258-5

>Moffett Field, CA 94035-1000

>Phone: (650) 604-3662

>FAX: (650) 604-4377

>Web: <a href="http://www.nas.nasa.gov/~thinke"

eudora="autourl">www.nas.nasa.gov/~thinke

>

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