

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Monday, April 30, 2018 5:05:23 PM  
To: Livingood, Jason <Jason\_Livingood@comcast.com>; Hook, Lisa <lisa.hook@team.neustar>; Matt.Carothers@cox.com  
CC: Keromytis, Angelos <angelos.keromytis@darpa.mil>  
Subject: DARPA D60 event

Many thanks Angele!

Jason, Matt and Lisa. Please see inline message from Angelos. If you want to attend the (invitation only) DARPA D60 event (<https://www.darpa.mil/about-us/d60-about>), please go ahead and register.

This is a way for Angelos (and DARPA) to show you their appreciation for helping GT out in our research, I suspect. :)

Thanks,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Keromytis, Angelos <angelos.keromytis@darpa.mil>  
Sent: Monday, April 30, 2018 11:49 AM  
To: Antonakakis, Manos  
Subject: Comcast, Cox, and Neustar

I don't have their contact info, so please pass along my invitation to the DARPA 60th anniversary celebration in early September. They should register ASAP at:

<https://www.darpa.mil/about-us/d60-about>

If they need to list a sponsor, use me.  
-Angelos

**From:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Sent on:** Monday, March 18, 2019 10:04:10 PM  
**To:** Gottdiener, Charlie<Charles.Gottdiener@team.neustar>; angelos@gatech.edu; Achanta, Venkat<Venkat.Achanta@team.neustar>; Mike Mullen<mike.mullen@mgmconsulting.net>; Antonakakis, Manos<manos@gatech.edu>; Tom Donahue<[REDACTED]>  
**Subject:** Confirmed: GA Tech/Neustar Briefing/Presentation/Discussion  
**Attachments:** meeting.ics (2.64 KB)

When: Wednesday, March 27, 2019 2:15 PM-6:00 PM. (UTC-05:00) Eastern Time (US & Canada)  
Where: Klaus Advanced Computing Building, Georgia Institute of Technology, 266 Ferst Drive,

\*~\*~\*~\*~\*~\*~\*~\*~\*~\*

Update is adding Dr. Tom Donahue  
All other details remain the same:

\*\*\*\*\*

Briefing by Dr. Manos Antonakakis and Dr. Angelos Keromytis, Directors of Astrolavos Lab, GA Tech  
<https://astrolavos.gatech.edu/>

Threat analysis, research, case studies  
Use of Neustar Data  
Use of DNS data in threat hunting and attribution  
Discussion  
Tour of Astrolavos Lab

**From:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Sent on:** Monday, February 18, 2019 12:39:37 AM  
**To:** Gottdiener, Charlie<Charles.Gottdiener@team.neustar>; Mike Mullen<mike.mullen@mgmconsulting.net>; Achanta, Venkat<Venkat.Achanta@team.neustar>; Antonakakis, Manos<manos@gatech.edu>; angelos@gatech.edu  
**Subject:** Confirmed: GA Tech/Neustar Briefing/Presentation/Discussion  
**Attachments:** meeting.ics (2.4 KB)

When: Wednesday, March 27, 2019 2:15 PM-6:00 PM. (UTC-05:00) Eastern Time (US & Canada)  
Where: Klaus Advanced Computing Building, Georgia Institute of Technology, 266 Ferst Drive, Atlanta, GA 30332

\*~\*~\*~\*~\*~\*~\*~\*~\*~\*

Briefing by Dr Manos Antonakakis and Dr. Angelos Keromytis, Directors of Astrolavos Lab, GA Tech

**From:** Keromytis, Angelos<angelos.keromytis@darpa.mil>  
**Sent on:** Monday, April 30, 2018 3:49:12 PM  
**To:** Manos Antonakakis<manos@gatech.edu>  
**Signed by:** KEROMYTIS.ANGELOS.D.1501999799 on Monday, April 30, 2018 3:49:12 PM  
**Subject:** Comcast, Cox, and Lisa (Neustar)  
**Attachments:** Nameless.txt (260 Bytes)

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<https://www.darpa.mil/about-us/d60-about>

If they need to list a sponsor, use me.

-Angelos

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Thursday, June 28, 2018 3:06:49 AM  
To: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Declined: Placeholder, Meeting and Dinner with Lisa Hook and Manos Antonokakis  
Attachments: meeting.ics (1.4 KB)

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Monday, February 18, 2019 2:17:23 AM  
To: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Accepted: Dinner, Kyma Greek Restaurant  
Attachments: meeting.ics (1.39 KB)

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Monday, February 18, 2019 2:17:24 AM  
To: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Accepted: Confirmed: GA Tech/Neustar Briefing/Presentation/Discussion  
Attachments: meeting.ics (1.49 KB)

**From:** Aldenberg, William B. (NH) (FBI)<wbaldenberg@fbi.gov>  
**Sent on:** Friday, February 12, 2021 12:15:07 AM  
**To:** Keromytis, Angelos D<angelos@gatech.edu>; Aldenberg, William (JMD)<William.Aldenberg@usdoj.gov>; DeFilippis, Andrew (JMD)<Andrew.DeFilippis2@usdoj.gov>  
**Subject:** [EXTERNAL EMAIL] - Re: Interview with Angelos Keromytis

Angelos

Thank you for the information and taking the time to speak with us today.

Bill

-

On Feb 11, 2021 3:41 PM, "Keromytis, Angelos D" <angelos@gatech.edu> wrote:  
In case these help, since you asked related questions:

- First time I met Dave Dagon (that I have a record for) is on November 2015, at DARPA. Probably some emails prior/leading up to that, as I was doing the planning for the EA program (what datasets exist, what is technical possible/plausible, etc.)
- First time I met Rodney Joffe (again, that I have a record for) is on April 2016; intent was to find out about what data Neustar has/had that might be helpful to the program. Had a couple of follow-ons (not sure if meetings or phone calls) in June.
- First discussion with FBI (NCIJTF) about EA around February 2016. (We had prior interactions, going back to March 2015, about a different program.)
- First discussion with NSD/DoJ about EA ~December 2015 (although maybe also October 2015).

(These are from my calendar, so I have limited context.)

-Angelos

> On Feb 10, 2021, at 8:15 PM, Aldenberg, William (JMD) <William.Aldenberg@usdoj.gov> wrote:

>

> Angelos

>

> The meeting info is below.

>

> Thank you

>

> Bill

>

> Sent from my iPhone

>

> Begin forwarded message:

>

>> From: "Arsenault, Kori (USACT)" <karsenault@usa.doj.gov>

>> Date: February 10, 2021 at 6:30:47 PM EST

>> To: "Aldenberg, William (JMD)" <waldenberg@jmd.usdoj.gov>

>> Subject: Interview with Angelos Keromytis

>>



**From:** Aldenberg, William B. (NH) (FBI)<wbaldenberg@fbi.gov>  
**Sent on:** Friday, February 12, 2021 12:15:07 AM  
**To:** Keromytis, Angelos D<angelos@gatech.edu>; Aldenberg, William (JMD)<William.Aldenberg@usdoj.gov>; DeFilippis, Andrew (JMD)<Andrew.DeFilippis2@usdoj.gov>  
**Subject:** [EXTERNAL EMAIL] - Re: Interview with Angelos Keromytis

Angelos

Thank you for the information and taking the time to speak with us today.

Bill

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In case these help, since you asked related questions:

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> Sent from my iPhone

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>> Date: February 10, 2021 at 6:30:47 PM EST

>> To: "Aldenberg, William (JMD)" <waldenberg@jmd.usdoj.gov>

>> Subject: Interview with Angelos Keromytis

>>

**From:** Mitchell, Michael F<fvirgil6@gatech.edu> on behalf of Mitchell, Michael F  
**Sent on:** Thursday, February 11, 2021 10:05:24 PM  
**To:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**CC:** Antonakakis, Manos<manos@gatech.edu>  
**Subject:** Data subscription extension

Good Afternoon Rodney,

I spoke with Manos earlier today regarding the short term extension of our project and the need to extend our data subscription. Would you be able to provide me with a quote for the additional period you discussed? I would greatly appreciate it!

Thanks,

***Michael Mitchell***

Research Operations Program Manager

**GEORGIA Institute**

**of TECHNOLOGY**

School of Electrical and Computer Engineering

777 Atlantic Drive NW

Atlanta, GA 30332-0765

Office: 404-385-8122

Mobile: 770-655-8039

**From:** Rodney Joffe<rodney.joffe@team.neustar>  
**Sent on:** Friday, February 19, 2021 12:35:03 AM  
**To:** Antonakakis, Manos<manos@gatech.edu>  
**Subject:** Fwd: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)  
**Attachments:** An Invitation from Georgia Institute of Technology (Payments via ACHEFT).msg (132 KB)

Manos,

Could you please confirm that this is legitimate?

Thanks  
Rodney

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, February 19, 2021 12:52:45 AM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>; Rodney Joffe<rodney.joffe@team.neustar>  
**Subject:** Fwd: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)  
**Attachments:** An Invitation from Georgia Institute of Technology (Payments via ACHEFT).msg (133.5 KB)

Michael, is this legitimate?

Thanks, Manos

**From:** Rodney Joffe <rodney.joffe@team.neustar>

**Sent:** Thursday, February 18, 2021 19:35

**To:** Antonakakis, Manos

**Subject:** Fwd: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)

Manos,

Could you please confirm that this is legitimate?

Thanks

Rodney

and other employees or contractors of Georgia Tech regarding:

1. The cyber security research contract awarded to the Georgia Institute of Technology by the U.S. Department of Defense in November 2016 and led by Mr. Antonakakis. This includes, but is not limited to, materials discussing Mr. Antonakakis's and Mr. Dagon's access to domain name system ("DNS") databases under this research contract;
  2. Draft or executed contracts regarding researchers' access to or use of DNS data, including but not limited to terms of service, confidentiality, and user agreements;
  3. Passive DNS collection systems, including but not limited to the DNS collection system referred to as "Thales";
  4. Allegations of secret communications between the Trump Organization and Alfa Bank. "Allegations of secret communications" is defined as the since-debunked theory that there was a covert or secret channel of communication between the Trump Organization and Alfa Bank prior to and following the 2016 U.S. presidential election;
  5. the Trump Organization server (IP address 66.216.133.29) or domains ("trump-email.com"; "contact-client.com"; hostnames "email1.trump-email.com" or "trump1.contact-client.com"; and any iterations involving alternate capitalization or concatenated versions thereof);
  6. the Alfa Bank server (IP addresses 217.12.96.15 and 217.12.97.15) or domains ("moscow.alfaintra.net," and any iterations involving alternate capitalization or concatenated versions thereof);
  7. AO Alfa-Bank, also known as "Alfa Bank";
  8. any analysis of computer data related to either the Trump Organization or Alfa Bank;
  9. analysis of computer data relating to the following entities: Cendyn, Listrak, Serenata, Denihan Hospitality Group, Spectrum Health, Heartland Payment Systems, Orbit Telecommunications, and Domo;
  10. allegations of Russian interference in U.S. elections;
  11. communications, documents, and computer data exchanged with individuals using the pseudonyms "Tea Leaves" or "Max";
  12. communications, documents, and computer data exchanged with April Lorenzen or Rodney Joffe;
  13. communications, documents, and computer data exchanged with Neustar, Inc., ZETAlytics LLC, or Dissect Cyber Inc.;
  14. communications, documents, and computer data exchanged with Packet Forensics LLC, VOSTROM Holdings, Inc., Centergate Research Group, LLC, or any other entities affiliated with Rodney Joffe;
  15. communications, documents, and computer data exchanged with Perkins Coie LLP, Michael Sussmann, Marc Elias, or any other affiliates of Perkins Coie;
  16. communications, documents, and computer data exchanged with Fusion GPS, Peter Fritsch, Glenn Simpson, Jacob "Jake" Berkowitz, Laura Seago or any other affiliates of Fusion GPS;
  17. communications, documents, and computer data exchanged with Daniel Jones, The Democracy Integrity Project, Advance Democracy Inc., Penn Quarter Group, Michael "Mikey" Dickerson, Matthew "Matt" Weaver, Layer Aleph or any other entity or individual affiliated with Daniel Jones; and
  18. communications, documents, and computer data exchanged with the Clinton Campaign or the Democratic National Committee.
4. Communications, documents, and computer data that were produced in response to subpoenas, discovery requests, informal document requests, or government inquiries, including but not limited to Special Counsel John Durham's investigation and the associated grand jury in *United States v. Sussman*, No. 1:21-cr-00582-CRC-1 (D.D.C. 2021) and that relate to (i) allegations of secret communications between the Trump Organization and Alfa Bank; (ii) the Trump Organization server or domains; (iii) Alfa Bank; (iv) analysis of computer data related to either the Trump Organization or Alfa Bank; (v) allegations of Russian interference in U.S. elections; or (vi) the John Doe Defendants or the Anonymous Researchers.

We would be happy to discuss the scope of these requests further over a call. Please let us know if you have any questions or would like to discuss.

Thanks,  
Margaret

---

**From:** Antonakakis, Manos<fvirgil6@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, March 11, 2021 6:01:56 PM  
**To:** Kline, Allison<allison.kline@darpa.mil>; Schneck, Christopher (contr-i2o)<christopher.schneck.ctr@darpa.mil>  
**BCC:** Antonakakis, Manos<manos@gatech.edu>; Rodney Joffe<rodney.joffe@team.neustar>; Keromytis, Angelos D<angelos@gatech.edu>  
**Subject:** Just talked with Rodney

Folks, I should not have called him. That was a terrible idea.

As I speculated, he nearly chewed my head off. He said, all targeting analysis (*\*especially\** for SUNBURST) out of the SLD data is by definition an operational task and should not be given to USG/DoD via EA. I walked him back from that by saying what if we just give DARPA opaque information for DoD and a few other important USG networks only? He agreed to that but, he wants you to call him and explain why EA needs one more win to show the value in his data. Sorry, I could not answer that point for you.

He said this is the last thing he is doing for EA since he has not been treated correctly (and I am paraphrasing his exact statement for obvious reasons...)

I will work on a few slides for DoD and USG *\*opaque\** targeting SUNBURST analysis through the SLD GT datasets all day today and tomorrow. Please do not ask me to call Rodney again, I am losing face to someone that used to respect me in the industry.

Thanks, Manos

**From:** Antonakakis, Manos<fvirgil6@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, March 12, 2021 12:43:53 AM  
**To:** Kline, Allison<allison.kline@darpa.mil>; Rodney Joffe<rodney.joffe@team.neustar>  
**CC:** Schneck, Christopher (contr-i2o)<christopher.schneck.ctr@darpa.mil>  
**BCC:** Antonakakis, Manos<manos@gatech.edu>  
**Subject:** New DARPA EA PM

Hey Rodney,

Allow me to re-introduce to Allison, who is the new EA PM. I think it would be a great idea for the two of you to get on a call and catch up about the status of things.

Thanks,

—

Manos Antonakakis, Ph.D. | manos@gatech.edu  
College of Engineering Dean's Professorship Chair and Associate Professor  
Co-Director Center for Cyber Operations Enquiry and Unconventional Sensing (COEUS)  
School of Electrical and Computer Engineering | Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

**From:** Mitchell, Michael F<fvirgil6@gatech.edu> on behalf of Mitchell, Michael F  
**Sent on:** Friday, February 19, 2021 4:23:36 PM  
**To:** Antonakakis, Manos<manos@gatech.edu>; Rodney Joffe<rodney.joffe@team.neustar>  
**Subject:** RE: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)

Yes, I just spoke with Shamelia and this is a legitimate request to set up the ach payment system for vendors.  
Michale

---

**From:** Antonakakis, Manos <manos@gatech.edu>  
**Sent:** Thursday, February 18, 2021 7:53 PM  
**To:** Mitchell, Michael F <michael.mitchell@ece.gatech.edu>; Rodney Joffe <rodney.joffe@team.neustar>  
**Subject:** Fwd: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)  
Michael, is this legitimate?  
Thanks, Manos

---

**From:** Rodney Joffe <[rodney.joffe@team.neustar](mailto:rodney.joffe@team.neustar)>  
**Sent:** Thursday, February 18, 2021 19:35  
**To:** Antonakakis, Manos  
**Subject:** Fwd: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)  
Manos,

Could you please conform that this is legitimate?

Thanks  
Rodney



**From:** Rodney Joffe<rodney.joffe@team.neustar>  
**Sent on:** Friday, February 19, 2021 5:02:01 PM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>  
**CC:** Antonakakis, Manos<manos@gatech.edu>  
**Subject:** Re: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)

Many thanks Michael. I've forwarded it on to our treasury group with the "clean bill of health/not a phish" label :-)

On the other matter, do you have any idea how the processing of our "ERP Services, Inc" Vendor registration is progressing?

Regards  
Rodney

> On Feb 19, 2021, at 11:23 AM, Mitchell, Michael F <michael.mitchell@ece.gatech.edu> wrote:  
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>  
> Could you please confirm that this is legitimate?  
>  
> Thanks  
> Rodney  
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**Sent on:** Friday, February 19, 2021 6:35:13 PM  
**To:** Rodney Joffe<rodney.joffe@team.neustar>  
**CC:** Antonakakis, Manos<manos@gatech.edu>  
**Subject:** RE: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)

Thanks for moving that on.

Based on what I see in our system ERP services is active and ready for receiving POs. So feel free to send us a Quote at your earliest convenience.

M

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

From: Rodney Joffe <rodney.joffe@team.neustar>  
Sent: Friday, February 19, 2021 12:02 PM  
To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
Cc: Antonakakis, Manos <manos@gatech.edu>  
Subject: Re: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)

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Regards  
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> To: Antonakakis, Manos  
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> Manos,  
>  
> Could you please conform that this is legitimate?  
>  
> Thanks  
> Rodney  
>

**From:** Rodney Joffe<rodney.joffe@team.neustar>  
**Sent on:** Tuesday, March 2, 2021 6:06:23 PM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>  
**CC:** Colin Monaghan<colin.monaghan@team.neustar>  
**Subject:** Re: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)  
**Attachments:** Georgia Institute of Technology - ERP DNS Quote - 24FEB21.pdf (107.92 KB)  
**Follow up:** Follow up  
**Start date:** Tuesday, March 2, 2021 12:00:00 AM  
**Due date:** Tuesday, March 2, 2021 12:00:00 AM

Hi Michael,

I am attaching the quote as discussed. Please let me know if anything needs to be changed.

I have referred to it as the "Enhanced Attribution II" project because I am not sure what the proper designation for this interim period should be. Happy to modify if needed.

Thanks  
Rodney

> On Feb 19, 2021, at 1:35 PM, Mitchell, Michael F <michael.mitchell@ece.gatech.edu> wrote:

>

> Thanks for moving that on.

>

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> Sent: Friday, February 19, 2021 12:02 PM

> To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

> Cc: Antonakakis, Manos <manos@gatech.edu>

> Subject: Re: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)

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>> From: Rodney Joffe <rodney.joffe@team.neustar>

>> Sent: Thursday, February 18, 2021 19:35

>> To: Antonakakis, Manos

>> Subject: Fwd: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)

>>

>> Manos,

>>

>> Could you please conform that this is legitimate?

>>

>> Thanks

>> Rodney

>>

>

**From:** Mitchell, Michael F<fvirgil6@gatech.edu> on behalf of Mitchell, Michael F  
**Sent on:** Friday, February 12, 2021 4:31:41 PM  
**To:** Antonakakis, Manos<manos@gatech.edu>; Rodney Joffe<rodney.joffe@team.neustar>  
**Subject:** RE: Data subscription extension

Manos,

It really depends on how quickly the subsidiary is able to get registered in the system (outside of our control), send us the quote, and how responsive they are to the inquiries and requests for documentation that procurement needs. I would say probably 3 weeks on the short side accounting for some back and forth between supplier and contracting officer.

Rodney,

Would you please have the new company register as a vendor in our system. No action on our part can be completed until we have the quote and the new company's registration is done. This link will allow for a new account to be set up, including routing details for payments on future invoices. A new PO will be issued.

[https://wd5.myworkdaysite.com/supplier/gatech/SUPPLIER\\_REGISTRATION\\_PROD](https://wd5.myworkdaysite.com/supplier/gatech/SUPPLIER_REGISTRATION_PROD)

Let me know if you have questions!

M

---

**From:** Antonakakis, Manos <manos@gatech.edu>  
**Sent:** Friday, February 12, 2021 9:29 AM  
**To:** Rodney Joffe <rodney.joffe@team.neustar>; Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
**Subject:** Re: Data subscription extension

Rodney this makes sense.

Michael, can I get an ETA on this being one?

Thanks, Manos

---

**From:** Rodney Joffe <[rodney.joffe@team.neustar](mailto:rodney.joffe@team.neustar)>  
**Date:** Thursday, February 11, 2021 at 9:39 PM  
**To:** Mitchell, Michael F <[michael.mitchell@ece.gatech.edu](mailto:michael.mitchell@ece.gatech.edu)>  
**Cc:** Antonakakis, Manos <[manos@gatech.edu](mailto:manos@gatech.edu)>  
**Subject:** Re: Data subscription extension

Hello Michael,

Thank you for the opportunity.

I will have the quote prepared for you by Monday. It will be a new quote, with the same general terms and conditions as the original contract. However, it will cover 3 months, and it will confirm that if needed, an additional PO for the remainder of 2021 will be valid at the same rate and terms.

Will this work for your purposes, or will you need any other changes?

One point from Neustar's side - we now contract for all sensitive contracts through our Government Subsidiary, ERP Services, Inc, a wholly owned subsidiary of Neustar, Inc. I assume this will also not be an issue for you?

Regards

Rodney

=====

Rodney Joffe  
SVP, and Fellow  
National Security Executive  
Neustar, Inc.  
45980 Center Oak Plaza  
Sterling VA 20166  
USA  
+1 202-533-2900 Direct

+1 602-418-6471 Cell

[rodney.joffe@team.neustar](mailto:rodney.joffe@team.neustar)

> On Feb 11, 2021, at 5:05 PM, Mitchell, Michael F <[michael.mitchell@ece.gatech.edu](mailto:michael.mitchell@ece.gatech.edu)> wrote:

>

> Good Afternoon Rodney,

>

> I spoke with Manos earlier today regarding the short term extension of our project and the need to extend our data subscription. Would you be able to provide me with a quote for the additional period you discussed? I would greatly appreciate it!

>

> Thanks,

>

> Michael Mitchell

>

> Research Operations Program Manager

> GEORGIA Institute

> of TECH nology

> School of Electrical and Computer Engineering

> 777 Atlantic Drive NW

> Atlanta, GA 30332-0765

> Office: 404-385-8122

> Mobile: 770-655-8039

**From:** Rodney Joffe<rodney.joffe@team.neustar>  
**Sent on:** Wednesday, April 14, 2021 6:42:47 PM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>  
**CC:** Antonakakis, Manos<manos@gatech.edu>; Colin Monaghan<colin.monaghan@team.neustar>  
**Subject:** Re: Data subscription extension

Hello Michael,

Many thanks. Putting it into process now.

Regards  
Rodney

> On Apr 14, 2021, at 2:31 PM, Mitchell, Michael F <michael.mitchell@ece.gatech.edu> wrote:

>

> Hey Rodney,

>

> I was following up on the requisition that I put in for this and found that the PO was executed for this. The PO number is PO-5145022. If you have not yet done so, would you please send an invoice for this PO to apinvoices@gatech.edu with a subject line of PO-5145022?

>

> Let me know if you have any questions or need help on this.

>

> Thanks!

>

> Michael

>

> -----Original Message-----

> From: Rodney Joffe <rodney.joffe@team.neustar>

> Sent: Friday, February 12, 2021 2:57 PM

> To: Antonakakis, Manos <manos@gatech.edu>

> Cc: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

> Subject: Re: Data subscription extension

>

> Hi Manos and Michael,

>

> We think we have accurately completed the registration form. Please let me know if there is anything else needed.

>

> Thanks!

> Rodney

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>

>> On Feb 12, 2021, at 11:51 AM, Antonakakis, Manos <manos@gatech.edu> wrote:

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>> OK, let start asap. I cannot go back to DARPA and say that I cannot do this because GT is not moving fast enough. I will lose face.

>>

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>>

>> Manos

>>

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>> From: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

>> Date: Friday, February 12, 2021 at 11:31 AM

>> To: Antonakakis, Manos <manos@gatech.edu>, Rodney Joffe <rodney.joffe@team.neustar>

>> Subject: RE: Data subscription extension

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>> Manos,

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[https://urldefense.com/v3/\\_\\_https://nam12.safelinks.protection.outlook.com/?url=https\\*3A\\*2F\\*2Fwd5.myworkdaysite.com\\*2FPRReRde8WJTHWYIs0KygZULJChquUn\\_8DaNIm777TynPgnw\\$](https://urldefense.com/v3/__https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwd5.myworkdaysite.com%2FPRReRde8WJTHWYIs0KygZULJChquUn_8DaNIm777TynPgnw$)

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>> Subject: Re: Data subscription extension

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>> To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

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>> SVP, and Fellow

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>> +1 602-418-6471 Cell

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>>> Mobile: 770-655-8039

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>

**From:** Mitchell, Michael F<fvirgil6@gatech.edu> on behalf of Mitchell, Michael F  
**Sent on:** Wednesday, April 14, 2021 6:31:26 PM  
**To:** Rodney Joffe<rodney.joffe@team.neustar>  
**CC:** Antonakakis, Manos<manos@gatech.edu>  
**Subject:** RE: Data subscription extension

Hey Rodney,

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Let me know if you have any questions or need help on this.

Thanks!

Michael

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

From: Rodney Joffe <rodney.joffe@team.neustar>  
Sent: Friday, February 12, 2021 2:57 PM  
To: Antonakakis, Manos <manos@gatech.edu>  
Cc: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
Subject: Re: Data subscription extension

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Thanks!

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> On Feb 12, 2021, at 11:51 AM, Antonakakis, Manos <manos@gatech.edu> wrote:

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> Date: Friday, February 12, 2021 at 11:31 AM

> To: Antonakakis, Manos <manos@gatech.edu>, Rodney Joffe <rodney.joffe@team.neustar>

> Subject: RE: Data subscription extension

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> Sent: Friday, February 12, 2021 9:29 AM

> To: Rodney Joffe <rodney.joffe@team.neustar>; Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

> Subject: Re: Data subscription extension

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> Date: Thursday, February 11, 2021 at 9:39 PM

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> Cc: Antonakakis, Manos <manos@gatech.edu>

> Subject: Re: Data subscription extension

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> Rodney Joffe

> SVP, and Fellow

> National Security Executive

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> +1 602-418-6471 Cell  
> rodney.joffe@team.neustar

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>> Atlanta, GA 30332-0765  
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**From:** Rodney Joffe<rodney.joffe@team.neustar>  
**Sent on:** Friday, February 12, 2021 5:17:55 PM  
**To:** Antonakakis, Manos<manos@gatech.edu>  
**CC:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>  
**Subject:** Re: Data subscription extension

We're on it.

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> Date: Friday, February 12, 2021 at 11:31 AM

> To: Antonakakis, Manos <manos@gatech.edu>, Rodney Joffe <rodney.joffe@team.neustar>

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>> Atlanta, GA 30332-0765  
>> Office: 404-385-8122  
>> Mobile: 770-655-8039

>

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, February 12, 2021 2:28:53 PM  
**To:** Rodney Joffe<rodney.joffe@team.neustar>; Mitchell, Michael F<michael.mitchell@ece.gatech.edu>  
**Subject:** Re: Data subscription extension

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>

> Research Operations Program Manager

> GEORGIA Institute

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, February 12, 2021 3:52:58 AM  
**To:** Rodney Joffe<rodney.joffe@team.neustar>  
**Subject:** Re: Data subscription extension

**From:** Rodney Joffe <rodney.joffe@team.neustar>  
**Sent:** Thursday, February 11, 2021 9:39:00 PM  
**To:** Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
**Cc:** Antonakakis, Manos <manos@gatech.edu>  
**Subject:** Re: Data subscription extension  
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> Michael Mitchell  
>  
> Research Operations Program Manager  
> GEORGIA Institute



3. Communications, documents, and computer data from Emmanouil "Manos" Antonakakis, David Dagon, and other employees or contractors of Georgia Tech regarding:
  1. The cyber security research contract awarded to the Georgia Institute of Technology by the U.S. Department of Defense in November 2016 and led by Mr. Antonakakis. This includes, but is not limited to, materials discussing Mr. Antonakakis's and Mr. Dagon's access to domain name system ("DNS") databases under this research contract;
  2. Draft or executed contracts regarding researchers' access to or use of DNS data, including but not limited to terms of service, confidentiality, and user agreements;
  3. Passive DNS collection systems, including but not limited to the DNS collection system referred to as "Thales";
  4. Allegations of secret communications between the Trump Organization and Alfa Bank. "Allegations of secret communications" is defined as the since-debunked theory that there was a covert or secret channel of communication between the Trump Organization and Alfa Bank prior to and following the 2016 U.S. presidential election;
  5. the Trump Organization server (IP address 66.216.133.29) or domains ("trump-email.com"; "contact-client.com"; hostnames "email1.trump-email.com" or "trump1.contact-client.com"; and any iterations involving alternate capitalization or concatenated versions thereof);
  6. the Alfa Bank server (IP addresses 217.12.96.15 and 217.12.97.15) or domains ("moscow.alfaintra.net," and any iterations involving alternate capitalization or concatenated versions thereof);
  7. AO Alfa-Bank, also known as "Alfa Bank";
  8. any analysis of computer data related to either the Trump Organization or Alfa Bank;
  9. analysis of computer data relating to the following entities: Cendyn, Listrak, Serenata, Denihan Hospitality Group, Spectrum Health, Heartland Payment Systems, Obit Telecommunications, and Domo;
  10. allegations of Russian interference in U.S. elections;
  11. communications, documents, and computer data exchanged with individuals using the pseudonyms "Tea Leaves" or "Max";
  12. communications, documents, and computer data exchanged with April Lorenzen or Rodney Joffe;
  13. communications, documents, and computer data exchanged with Neustar, Inc., ZETAlytics LLC, or Dissect Cyber Inc.;
  14. communications, documents, and computer data exchanged with Packet Forensics LLC, VOSTROM Holdings, Inc., Centergate Research Group, LLC, or any other entities affiliated with Rodney Joffe;
  15. communications, documents, and computer data exchanged with Perkins Coie LLP, Michael Sussmann, Marc Elias, or any other affiliates of Perkins Coie;
  16. communications, documents, and computer data exchanged with Fusion GPS, Peter Fritsch,

2. Any sub- contracts that Georgia Tech entered into with third parties in reference to the DOD Contracts including any confidentiality, terms of service, user agreements, or agreements related to the Domain Name System ("DNS") data.
  
3. Communications, documents, and computer data from Emmanouil "Manos" Antonakakis, David Dagon, and other employees or contractors of Georgia Tech regarding:
  1. The cyber security research contract awarded to the Georgia Institute of Technology by the U.S. Department of Defense in November 2016 and led by Mr. Antonakakis. This includes, but is not limited to, materials discussing Mr. Antonakakis's and Mr. Dagon's access to domain name system ("DNS") databases under this research contract;
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  14. communications, documents, and computer data exchanged with Packet Forensics LLC, VOSTROM Holdings, Inc., Centergate Research Group, LLC, or any other entities affiliated with Rodney Joffe;

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>

Sent on: Wednesday, October 10, 2018 1:21:39 AM

To: Kline, Allison (contr-i2o) <allison.kline.ctr@darpa.mil>; Achanta, Venkat <Venkat.Achanta@team.neustar>; Joffe, Rodney <Rodney.Joffe@team.neustar>; Maddern, Thomas (contr-i2o) <Thomas.Maddern.ctr@darpa.mil>

CC: Farrell, Michael D <Michael.Farrell@gtri.gatech.edu>; Ian Crone <ian.crone@darpa.mil>; Keromytis, Angelos <angelos.keromytis@darpa.mil>

Subject: HACCS --- clarifications and status update

Hey Venkat and Rodney,

I spent some time today at DARPA with Allison and Tom. My understanding is that it could take up to 40 days until GT will be able to receive a portion of the funds for your data. Once that portion is received, GTRI will have to follow their processes (please be proactive and coordinate with Michael about what these processes are) to get the PO out to you.

Despite the fact that Ian (the new PM for the program) and Michael (the GTRI PI) are extremely busy people, I would highly suggest that after the PO has been issued from GTRI, you should have a discussion with them on how the future POs will be scheduled/executed. This will help avoid any confusion, and set expectations right for all parties.

It is advisable to reach out to Tom and Allison on any inquires you may have about the status of future dataset POs for HACCS. While technically Michael has the final authority to issue the PO, Tom and Allison are the ones able to give you a sense (after coordinating with Ian, of course) on when funds will be allocated for future HACCS datasets POs.

Your administrative POC as far as the GTRI/GT team goes for HACCS is Michael not me. Always happy to be consulted about technical issues that surrounds the data but I cannot be, for example, your POC for the POs. Michael is the PI, you should be working directly with him.

Rodney and Venkat. Sorry that this dragged for so long. It appears that we managed to place everything on the right path, so please follow the advise that the DARPA team (Tom, Allison & Ian) and Michael will offer you in the future. This way we can ensure a long and mutual beneficial collaboration between all parties, and we will not have to go through the same issues/miss-understandings ever again.

Many thanks,

—

Manos Antonakakis | manos@gatech.edu

Georgia Institute of Technology

FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Friday, May 18, 2018 1:45:39 AM  
To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>; Hall, John <John.Hall@team.neustar>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: HACCS add on for Neustar

Michael, please work with John to make sure that Neustar gets the add on that we discussed.

John, Michael will be working with Allison (from DARPA) to make everything happen for Neustar. Michael will also navigate the internal GT process on your behalf. Please work with him, as he needs more information from you. Please, follow Michael's lead.

Rodney, GT is closing the fiscal year. This will have to wait until the new fiscal year kicks in (Michael, is this June or July 1st?).

Thanks,

—

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Monday, September 25, 2017 3:54:08 AM  
To: Joffe, Rodney <Rodney.Joffe@team.neustar>  
CC: rjoffe@centergate.com  
Subject: Letter for HACCS  
Attachments: Clarification\_quote\_Neustar.doc (35.5 KB)

Rodney, per our discussion please find the letter attached. I think you can use this a good first draft and build upon it.

What I would like is the final version of this letter alongside a quote for your data.

Cheers,

—

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

From: Rodney Joffe <rodney.joffe@team.neustar>  
Sent on: Tuesday, February 12, 2019 2:06:14 AM  
To: Manos Antonakakis <manos@gatech.edu>  
Subject: Neustar Executive Visit to PI meeting March 8th  
Attachments: signature.asc (242 Bytes)

Hello Manos,

As you know Neustar has been very involved in developing and improving our ability to provide capabilities and resources for you based on the apparent success of your EA and HACCS programs, using our data.

As a result, I wonder if it would be possible for me, our CEO Charlie Gottdiener, Venkat Achanta, our Chief Data Officer, and Adm. (Ret) Mike Mullen (past Chairman of the Joint Chiefs) who is a board director of our data subsidiary to visit you during the PI day on March 8th?

I think it would be extremely beneficial for my colleagues to see and understand the impact of our efforts, and to realize just how much of a difference we can make to the country's National Security efforts through GA Tech.

They all obviously understand the sensitivity of the PI briefing and meeting, and would respect and sign whatever attendee documents are required of other sub-contractors on your program.

Respectfully

Rodney

=====  
Rodney Joffe  
SVP, Senior Technologist, and Fellow  
National Security Executive  
Neustar, Inc.  
21575 Ridgetop Circle  
Sterling VA 20166  
USA  
+1 202-533-2900 Direct  
+1 602-418-6471 Cell  
rodney.joffe@team.neustar

**From:** "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
**Sent on:** Friday, March 12, 2021 12:43:53 AM  
**To:** Kline, Allison<allison.kline@darpa.mil>; Rodney Joffe<rodney.joffe@team.neustar>  
**CC:** Schneck, Christopher (contr-i2o)<christopher.schneck.ctr@darpa.mil>  
**Subject:** New DARPA EA PM

Hey Rodney,

Allow me to re-introduce to Allison, who is the new EA PM. I think it would be a great idea for the two of you to get on a call and catch up about the status of things.

Thanks,

—

Manos Antonakakis, Ph.D. | manos@gatech.edu  
College of Engineering Dean's Professorship Chair and Associate Professor  
Co-Director Center for Cyber Operations Enquiry and Unconventional Sensing (COEUS)  
School of Electrical and Computer Engineering | Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Tuesday, January 28, 2020 9:01:26 PM  
To: Rodney Joffe <rodney.joffe@team.neustar>; Neal, Alexander G <agneal7@gatech.edu>  
CC: Rodney Joffe <rjoffe@centergate.com>  
Subject: NSR data transfer issues

Hey Rodney,

Circled back with my team and it appears that we had some problems with the last few shipments of data from NSR. We do not have any storage problems from our end, so what I would suggest we do is put Alex (CCed) in touch with someone in your team to both: fix the issues we have with the drives you sent to us but also speed up the process (so we can get the remaining data faster).

While I do not think there is a call necessary, happy to jump on a call if you want me to.

Thanks,

—

Manos Antonakakis | Associate Professor | manos@gatech.edu  
School of Electrical and Computer Engineering  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668



From: Rodney Joffe <rodney.joffe@team.neustar>

Sent on: Thursday, August 3, 2017 6:04:35 PM

To: Ryan McGavran <Ryan.McGavran@team.neustar>; Manos Antonakakis <manos@gatech.edu>

Subject: Project agreement

Ryan and Manos,

Meet each other.

Ryan, Manos is the GA Tech professor who is leading the Active DNS project at GA Tech,  
Manos, Ryan is VP of Data strategy at Neustar, and has kindly volunteered to shepherd an agreement with you for the AWS/Azure compute for the project.

Over to you two

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Monday, November 13, 2017 12:26:51 PM  
To: Joffe, Rodney <Rodney.Joffe@team.neustar>; Rodney Joffe <rodney.joffe@neustar.biz>  
Subject: Fw: EA PI Meeting: 1 December 2017 (Friday) at the DCC --- Response needed by COB on 27 November 2017  
Attachments: DARPA104.pdf (625.72 KB), DARPA60.pdf (636.01 KB)

Rodney, please note the new registration process you have to go through in order to attend the meeting. Let me know if you want to be there.

Cheers,

—

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

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From: Antonakakis, Manos  
Sent: Monday, November 13, 2017 7:25 AM  
To: fabian@cs.unc.edu; [REDACTED]; Farrell, Michael D; Demar, Jeremy; perdisci@cs.uga.edu; Ahamad, Mustaque; Blough, Douglas M  
Subject: Fw: EA PI Meeting: 1 December 2017 (Friday) at the DCC --- Response needed by COB on 27 November 2017

Folks, please see inline -- the registration process has changed. Let me know if you can make this meeting.

Thanks,

—

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

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From: Patel, Tejas (contr-i2o) <tejas.patel.ctr@darpa.mil>  
Sent: Thursday, November 9, 2017 1:18 PM  
To: Maddern, Thomas (contr-i2o); Patel, Tejas (contr-i2o)  
Cc: [REDACTED]; Antonakakis, Manos; Robert Wright; Neil Costigan; Scott Tenaglia; Vince Urias; Stephen Schwab; Ben Radford  
Subject: EA PI Meeting: 1 December 2017 (Friday) at the DCC --- Response needed by COB on 27 November 2017

All:

The registration process for this PI meeting will be different from previous ones. Rather than going through a registration website, we're requesting that each PI respond to Tom Maddern (thomas.maddern.ctr@darpa.mil) with the names, organizations, and countries of citizenship for each of your team members planning on attending. Please provide this information by COB Monday, November 27th.

Each individual attending will need to bring a completed DARPA Form 104 (attached) along with a government issued ID to the meeting. Non-US citizens will need to submit a DARPA Form 60 (attached) in advance.

Due to a recent DARPA policy change, we are no longer permitted to collect registration fees for covering expenses associated providing with food and beverages at PI meetings. Instead, as shown in the agenda, time will be allowed for lunch and other refreshments to be purchased individually at one of the many local restaurants near DARPA or in the café near the building lobby.

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Thursday, March 15, 2018 3:37:15 PM  
To: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Fw: Interview with Niloofar Howe

Anything I need to know about this?

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Antonakakis, Manos  
Sent: Thursday, March 15, 2018 10:36 AM  
To: Riley, Theresa  
Cc: Achanta, Venkat  
Subject: Re: Interview with Niloofar Howe

Theresa, I can only do Friday April 6th between 10-12. This has to be a video call of some sort.

Many thanks,

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Riley, Theresa <Theresa.Riley@team.neustar>  
Sent: Wednesday, March 14, 2018 1:48:25 PM  
To: Antonakakis, Manos  
Cc: Achanta, Venkat  
Subject: Interview with Niloofar Howe

Good afternoon Manos. My name is Theresa Riley, and I am Venkat Achanta's assistant at Neustar. I have been asked to reach out to you for availability to speak with Niloo and discuss Neustar's presence in the security space. The candidate's name is Niloofar (goes by Niloo) Howe. Lisa Hook may have already spoken to you about this person.

Here are some dates/times that I was given by Niloo's office – all times listed are Eastern. Please let me know all dates/times that would work for your schedule and I will get back to you with a confirmation. The preference would be for this to be a video conference.

I have attached her resume to this e-mail.

Thank you,  
Theresa  
(571) 434-5512

Tuesday (March 20th)  
11:00 to 2:30

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Wednesday, November 8, 2017 7:53:35 PM  
To: Joffe, Rodney <Rodney.Joffe@team.neustar>  
CC: Rodney Joffe <rodney.joffe@neustar.biz>  
Subject: Fw: Notification HR001117S0051-HACCS-FP-029  
Attachments: Letter 029.pdf (373.62 KB)

Great news Rodney, we got the official notification that we won HACCS! Please relay the news internally to your team.

Cheers,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: HACCS <haccs@darpa.mil>  
Sent: Wednesday, November 8, 2017 12:31 PM  
To: Antonakakis, Manos; Farrell, Michael D  
Cc: HACCS  
Subject: Notification HR001117S0051-HACCS-FP-029

Dear Proposer,

Please see the attached file regarding your proposal submission (HR001117S0051-HACCS-FP-029) that was submitted to the Harnessing Autonomy for Countering Cyberadversary Systems (HACCS) solicitation.

Regards,

DARPA/I2O

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Tuesday, March 27, 2018 2:53:45 AM  
To: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Fw: Resume  
Attachments: [REDACTED]\_resume3.pdf (181.99 KB)

If you are looking for a threat researcher, she is a young one that has the potential to grow. She is very close to be done with her undergrad at GT and she is looking for a full time position.

We can talk more if you like her resume.

Again, key point; she is young, but has the potential to grow into something good.

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: [REDACTED]  
Sent: Monday, March 26, 2018 8:02 PM  
To: Antonakakis, Manos  
Subject: Resume

Manos,

As we discussed, here's my resume.

Thanks!

[REDACTED]

**From:** Rodney Joffe<rodney.joffe@team.neustar>  
**Sent on:** Tuesday, April 3, 2018 11:29:02 PM  
**To:** Manos Antonakakis<manos@gatech.edu>  
**Subject:** Fwd: [EXTERNAL] Internet of Things - Neustar - Georgia Institute of Technology (Atlanta, GA)  
**Attachments:** 2016\_1117\_CDAIT\_Flyer.pdf (6.02 MB)

Thoughts?

Begin forwarded message:

**From:** "Hook, Lisa" <[lisa.hook@team.neustar](mailto:lisa.hook@team.neustar)>  
**Subject:** Fwd: [EXTERNAL] Internet of Things - Neustar - Georgia Institute of Technology (Atlanta, GA)  
**Date:** April 3, 2018 at 4:05:38 PM EDT  
**To:** "Joffe, Rodney" <[Rodney.Joffe@team.neustar](mailto:Rodney.Joffe@team.neustar)>

Should we do this? I don't know cost yet

Lisa A. Hook  
Neustar, Inc./President and Chief Executive Officer  
120 SW 8th Street, Miami, FL 33130  
Office: 571/434-5630. Mobile:202/907-5672  
[Lisa.Hook@team.neustar](mailto:Lisa.Hook@team.neustar)/[www.neustar.biz](http://www.neustar.biz)

Begin forwarded message:

**From:**"Louchez, Alain" <[Alain.Louchez@gtri.gatech.edu](mailto:Alain.Louchez@gtri.gatech.edu)>  
**To:**"Hook, Lisa" <[lisa.hook@team.neustar](mailto:lisa.hook@team.neustar)>  
**Subject:**[EXTERNAL] Internet of Things - Neustar - Georgia Institute of Technology (Atlanta, GA)

Dear Ms. Hook,  
The Georgia Institute of Technology ("Georgia Tech") has recently established a global sponsor-funded Internet of Things (IoT) Center, i.e., Center for the Development and Application of Internet of Things Technologies([CDAIT](#), pronounced "sedate").

In short, CDAIT could be viewed as a technological think tank (some might say a "think-and-do tank", i.e., action-oriented) focused on both engineering and business IoT dimensions, and composed of premier multinational companies (\*), widely recognized as leading the deployment of the Internet of Things.

Given the increasing importance of Internet of Things technologies to Neustar, we'd be delighted and honored to have the Company become a member of CDAIT (see attached flyer).

Please let me know if this is of interest.

Respectfully,

Alain

(\*) CDAIT members currently are (parent company's HQ (outside the US) in parentheses):**3M, AIG, AT&T, Boehringer Ingelheim**(Germany), **Cisco, Coca-Cola, Comcast,Eaton**(Ireland),**Georgia Pacific, Honeywell, IBM, Intel, Landis+Gyr** (Switzerland),**Michelin**(France),**Stanley Black and Decker, UPS, Verizon,and VMware.**

From: Rodney Joffe <rodney.joffe@team.neustar>

Sent on: Friday, February 19, 2021 12:35:03 AM

To: Manos Antonakakis <manos@gatech.edu>

Subject: Fwd: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)

Attachments: An Invitation from Georgia Institute of Technology (Payments via ACHEFT).eml (59.55 KB)

Manos,

Could you please confirm that this is legitimate?

Thanks

Rodney

**From:** "Antonakakis, Manos" </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7e6b0afc581e477db35a37c3a3a79aeb-Antonakakis>  
**Sent on:** Friday, February 19, 2021 12:52:45 AM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>; Rodney Joffe<rodney.joffe@team.neustar>  
**Subject:** Fwd: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)  
**Attachments:** An Invitation from Georgia Institute of Technology (Payments via ACHEFT).eml (59.55 KB)

Michael, is this legitimate?

Thanks, Manos

**From:** Rodney Joffe <rodney.joffe@team.neustar>  
**Sent:** Thursday, February 18, 2021 19:35  
**To:** Antonakakis, Manos  
**Subject:** Fwd: An Invitation from Georgia Institute of Technology (Payments via ACH/EFT)  
Manos,

Could you please confirm that this is legitimate?

Thanks  
Rodney



**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, March 15, 2018 2:37:15 PM  
**To:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Fw: Interview with Niloofar Howe

Anything I need to know about this?

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Antonakakis, Manos  
Sent: Thursday, March 15, 2018 10:36 AM  
To: Riley, Theresa  
Cc: Achanta, Venkat  
Subject: Re: Interview with Niloofar Howe

Theresa, I can only do Friday April 6th between 10-12. This has to be a video call of some sort.

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---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668


---

From: Riley, Theresa <Theresa.Riley@team.neustar>  
Sent: Wednesday, March 14, 2018 1:48:25 PM  
To: Antonakakis, Manos  
Cc: Achanta, Venkat  
Subject: Interview with Niloofar Howe

Good afternoon Manos. My name is Theresa Riley, and I am Venkat Achanta's assistant at Neustar. I have been asked to reach out to you for availability to speak with Niloo and discuss Neustar's presence in the security space. The candidate's name is Niloofar (goes by Niloo) Howe. Lisa Hook may have already spoken to you about this person.

Here are some dates/times that I was given by Niloo's office – all times listed are Eastern. Please let me know all dates/times that would work for your schedule and I will get back to you with a confirmation. The preference would be for this to be a video conference.

I have attached her resume to this e-mail.

Thank you,  
Theresa  


Tuesday (March 20th)  
11:00 to 2:30

Monday (April 2nd)  
10:00 to 2:30

Wednesday (April 4th)  
10:00 to 2:30

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, February 1, 2018 3:15:22 PM  
**To:** Hook, Lisa<lisa.hook@team.neustar>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Fw: Introductions Neustar <=> GT COE

Hey Lisa,

Just finished a long meeting with Steve. I expressed to him how important this collaboration is for GT. He suggested that you two could meet the next time you are in Atlanta. Unfortunately, for reasons I can explain over the phone, he does not travel very often.

I suspect that Steve (among other things) wants see if you would be interested in a Board position at the College of Engineering.

Thanks,

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Antonakakis, Manos  
Sent: Thursday, February 1, 2018 10:09 AM  
To: Hook, Lisa; McLaughlin, Steven W  
Cc: Joffe, Rodney  
Subject: Introductions Neustar <=> GT COE

Hey Lisa,

Allow me to introduce you the Dean and Southern Company Chair Dr. Steve McLaughlin. Steve, let me introduce you to the President and Chief Executive Officer of Neustar Lisa Hook.

Over the last two years Lisa and Rodney (the Founder of UltraDNS, and Senior Vice President and Fellow of Neustar) have been helping GT to perform again the major DoD project we have. As Neustar is aligned to the success of our research in this (and likely other future) project(s), perhaps it would make sense for you two to meet, next time Lisa is in town.

It would make a lot of sense to figure out how the collaboration between Neustar and GT can become stronger over the coming years.

Many thanks,

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Tuesday, March 27, 2018 1:53:45 AM  
**To:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Fw: Resume  
**Attachments:** allison\_sommers\_resume3.pdf (181.99 KB)

If you are looking for a threat researcher, she is a young one that has the potential to grow. She is very close to be done with her undergrad at GT and she is looking for a full time position.

We can talk more if you like her resume.

Again, key point; she is young, but has the potential to grow into something good.

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Sommers, Allison K  
Sent: Monday, March 26, 2018 8:02 PM  
To: Antonakakis, Manos  
Subject: Resume

Manos,

As we discussed, here's my resume.

Thanks!  
Alli

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, May 18, 2018 12:45:39 AM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>; Hall, John<John.Hall@team.neustar>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** HACCS add on for Neustar

Michael, please work with John to make sure that Neustar gets the add on that we discussed.

John, Michael will be working with Allison (from DARPA) to make everything happen for Neustar. Michael will also navigate the internal GT process on your behalf. Please work with him, as he needs more information from you. Please, follow Michael's lead.

Rodney, GT is closing the fiscal year. This will have to wait until the new fiscal year kicks in (Michael, is this June or July 1st?).

Thanks,

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, February 1, 2018 3:09:15 PM  
**To:** Hook, Lisa<lisa.hook@team.neustar>; McLaughlin, Steven W<swm@gatech.edu>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Introductions Neustar <=> GT COE

Hey Lisa,

Allow me to introduce you the Dean and Southern Company Chair Dr. Steve McLaughlin. Steve, let me introduce you to the President and Chief Executive Officer of Neustar Lisa Hook.

Over the last two years Lisa and Rodney (the Founder of UltraDNS, and Senior Vice President and Fellow of Neustar) have been helping GT to perform again the major DoD project we have. As Neustar is aligned to the success of our research in this (and likely other future) project(s), perhaps it would make sense for you two to meet, next time Lisa is in town.

It would make a lot of sense to figure out how the collaboration between Neustar and GT can become stronger over the coming years.

Many thanks,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, February 1, 2018 3:24:41 PM  
**To:** Hook, Lisa<lisa.hook@team.neustar>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Re: [EXTERNAL] Fw: Introductions Neustar <=> GT COE

No Lisa, let me clarify.

Steve is the Dean of the College of Engineering. To put things into perspective, being the Dean of the College of Engineering makes him number 4 in the overall hierarchy of Georgia Tech, under the President, the Provost and the Executive Vice President of Research.

At the same time the Southern Company have created a life-long (and very prestigious) Endowed Chair for him at Georgia Tech. As you can imagine he is in very good terms with the highest people in the Southern Company. I do think the Southern Company has a presence in the Board of the College of Engineering.

Hope this is more clear.

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hook, Lisa <lisa.hook@team.neustar>  
Sent: Thursday, February 1, 2018 10:16:37 AM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney  
Subject: Re: [EXTERNAL] Fw: Introductions Neustar <=> GT COE

Is Steve dean of the school of engineering AND chairman of Southern Companies?

Lisa A. Hook  
Neustar Inc/ President & Chief Executive Officer  
120 SW 8th Street, Miami FL 33130  
Office: 571.434.5630 Mobile: 202.907.5672  
lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>/www.neustar.biz<http://www.neustar.biz>

On Feb 1, 2018, at 10:15, Antonakakis, Manos <manos@gatech.edu<mailto:manos@gatech.edu>> wrote:

Hey Lisa,

Just finished a long meeting with Steve. I expressed to him how important this collaboration is for GT. He suggested that you two could meet the next time you are in Atlanta. Unfortunately, for reasons I can explain over the phone, he does not travel very often.

I suspect that Steve (among other things) wants see if you would be interested in a Board position at the College of Engineering.

Thanks,

---

Manos Antonakakis | manos@gatech.edu<mailto:manos@gatech.edu>  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

From: Antonakakis, Manos  
Sent: Thursday, February 1, 2018 10:09 AM  
To: Hook, Lisa; McLaughlin, Steven W  
Cc: Joffe, Rodney  
Subject: Introductions Neustar <=> GT COE

Hey Lisa,

Allow me to introduce you the Dean and Southern Company Chair Dr. Steve McLaughlin. Steve, let me introduce you to the President and Chief Executive Officer of Neustar Lisa Hook.

Over the last two years Lisa and Rodney (the Founder of UltraDNS, and Senior Vice President and Fellow of Neustar) have been helping GT to perform again the major DoD project we have. As Neustar is aligned to the success of our research in this (and likely other future) project(s), perhaps it would make sense for you two to meet, next time Lisa is in town.

It would make a lot of sense to figure out how the collaboration between Neustar and GT can become stronger over the coming years.

Many thanks,

—  
Manos Antonakakis | [manos@gatech.edu](mailto:manos@gatech.edu)<<mailto:manos@gatech.edu>>  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, January 18, 2018 4:56:57 PM  
**To:** Hook, Lisa<lisa.hook@team.neustar>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>; Naperkoski, Valerie<Valerie.Naperkoski@team.neustar>; Gregory, Liebe<Liebe.Gregory@team.neustar>  
**Subject:** Re: [EXTERNAL] Re: Friday

Lisa, I am usually at the office by 8.00am. Anytime that works for you.

Thanks,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hook, Lisa <lisa.hook@team.neustar>  
Sent: Thursday, January 18, 2018 11:55:40 AM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney; Naperkoski, Valerie; Gregory, Liebe  
Subject: Re: [EXTERNAL] Re: Friday

Can we move forward to 9?

Lisa A. Hook  
Neustar Inc/ President & Chief Executive Officer  
120 SW 8th Street, Miami FL 33130  
Office: 571.434.5630 Mobile: 202.907.5672  
lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>/www.neustar.biz<http://www.neustar.biz>

On Jan 17, 2018, at 17:26, Antonakakis, Manos <manos@gatech.edu<mailto:manos@gatech.edu>> wrote:

Hey Lisa, absolutely!

My office is at the Klaus Advance Computing Building, 3rd floor, Room 3364. I can send you the visitor parking direction if you will be driving in.

My cell is [REDACTED], in case you need to call me.

Many thanks,

Manos

---  
Typos due to mobile device ...

On Jan 17, 2018, at 20:04, Hook, Lisa <lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>> wrote:

Manos,

I am in Atlanta for meetings on Friday and am wondering if you are in town and free at 9:30 to meet at school. Would love to catch up.

Best,

Lisa



Lisa A. Hook

Neustar, Inc./President and Chief Executive Officer

120 SW 8th Street, Miami, FL 33130

Office: 571/434-5630. Mobile:202/907-5672

Lisa.Hook@team.neustar<mailto:Lisa.Hook@team.neustar>/www.neustar.biz<http://www.neustar.biz>

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, January 18, 2018 5:04:43 PM  
**To:** Hook, Lisa<lisa.hook@team.neustar>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>; Naperkoski, Valerie<Valerie.Naperkoski@team.neustar>; Gregory, Liebe<Liebe.Gregory@team.neustar>  
**Subject:** Re: [EXTERNAL] Re: Friday

Fantastic --- looking forward to it Lisa!

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hook, Lisa <lisa.hook@team.neustar>  
Sent: Thursday, January 18, 2018 12:03:39 PM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney; Naperkoski, Valerie; Gregory, Liebe  
Subject: Re: [EXTERNAL] Re: Friday

Thanks. Will see you at 9! I don't have any agenda -- just want to meet, catch up.

Lisa A. Hook  
Neustar Inc/ President & Chief Executive Officer  
120 SW 8th Street, Miami FL 33130  
Office: 571.434.5630 Mobile: 202.907.5672  
lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>/www.neustar.biz<http://www.neustar.biz>

On Jan 18, 2018, at 08:57, Antonakakis, Manos <manos@gatech.edu<mailto:manos@gatech.edu>> wrote:

Lisa, I am usually at the office by 8.00am. Anytime that works for you.

Thanks,

---

Manos Antonakakis | manos@gatech.edu<mailto:manos@gatech.edu>  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hook, Lisa <lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>>  
Sent: Thursday, January 18, 2018 11:55:40 AM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney; Naperkoski, Valerie; Gregory, Liebe  
Subject: Re: [EXTERNAL] Re: Friday

Can we move forward to 9?

Lisa A. Hook  
Neustar Inc/ President & Chief Executive Officer  
120 SW 8th Street, Miami FL 33130  
Office: 571.434.5630 Mobile: 202.907.5672  
lisa.hook@team.neustar<mailto:lisa.hook@team.neustar><mailto:lisa.hook@team.neustar>/www.neustar.biz<http://www.n

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<manos@gatech.edu<mailto:manos@gatech.edu><mailto:manos@gatech.edu>> wrote:

Hey Lisa, absolutely!

My office is at the Klaus Advance Computing Building, 3rd floor, Room 3364. I can send you the visitor parking direction if you will be driving in.

My cell is [REDACTED], in case you need to call me.

Many thanks,

Manos

---

Typos due to mobile device ...

On Jan 17, 2018, at 20:04, Hook, Lisa

<lisa.hook@team.neustar<mailto:lisa.hook@team.neustar><mailto:lisa.hook@team.neustar>> wrote:

Manos,

I am in Atlanta for meetings on Friday and am wondering if you are in town and free at 9:30 to meet at school. Would love to catch up.

Best,

Lisa

Lisa A. Hook

Neustar, Inc./President and Chief Executive Officer

120 SW 8th Street, Miami, FL 33130

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Lisa.Hook@team.neustar<mailto:Lisa.Hook@team.neustar><mailto:Lisa.Hook@team.neustar>/www.neustar.biz<http://ww

**From:** Sussmann, Michael A. (Perkins Coie)<MSussmann@perkinscoie.com>  
**Sent on:** Thursday, April 12, 2018 4:01:46 PM  
**To:** Antonakakis, Manos<manos@gatech.edu>  
**CC:** Lisa Hook<lisa.hook@team.neustar>; Rodney Joffe<rodney.joffe@team.neustar>  
**Subject:** Re: [EXTERNAL] Re: Intro

Manos,

Rodney is helping me prepare a proposal and description of the commercial services that you plan to offer in July or thereafter. Rodney is tied up today, but has time to help me this evening. I was merely reaching out to you on the chance that you had some time today to help get started and thereby make my work with Rodney this evening go quicker. I'll connect with Rodney later, and one of us will let you know if we need anything from you in this regard.

Safe travels, and thanks for your responsiveness. I look forward to meeting you.

Michael

On Apr 12, 2018, at 11:53 AM, Rodney Joffe <rodney.joffe@team.neustar> wrote:

Hi Manos,

Glad to know that you are on your way to DC.

Let's try meet up while you are here, you, me and Michael.

Then we can talk through everything :-). Better than email.

What is your DC schedule?

> On Apr 12, 2018, at 11:51 AM, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> Lisa, I just boarded a flight to DC, where I will spend the rest of my day with meetings at DARPA. Tomorrow, my entire day will be spent at the HACCs kickoff meeting where I will be presenting the 4 years research agenda of the program.

>

> Michael, nice to meet you. I can get on a call today between 17.00 and 18.00, tomorrow after 20.00 and over the weekend anytime you want. All times are EST.

>

> To be totally honest, I would like to clarify what the request is here as a first step. What I sent Rodney was discoveries of malicious activities in the AU networks as part of technology we are creating for the USG. This is not technology that is related with Neustar — beyond the fact that we used your data.

>

> Could Neustar offer something similar? Sure, since you have the data. :) However, what GT is doing (the technology we are generating) is for the USG (DoD to be precise).

>

> Thanks and hopefully this message clarifies things a bit.

>

> Manos

> ---

> Typos due to mobile device ...

>

>> On Apr 12, 2018, at 11:39, Hook, Lisa <lisa.hook@team.neustar> wrote:

>>

>> Manos meet Michael,

>>

>> Michael is our longtime outside counsel on national security and other issues. He is working with Rodney on a proposal to provide analytics similar to what you are doing in Australia.

>>

>> Rodney is closed off right now and Michael needs someone to speak to for more details on the service we provide so he can write up a proposal.

>>

>> Hoping you two can jump on the phone asap.

>>

>> Thanks -- Lisa

>>

>>

>> Lisa A. Hook

>> Neustar Inc/ President & Chief Executive Officer

>> 120 SW 8th Street, Miami FL 33130

>> Office: 571.434.5630 Mobile: 202.907.5672 [lisa.hook@team.neustar/www.neustar.biz](mailto:lisa.hook@team.neustar/www.neustar.biz)

---

NOTICE: This communication may contain privileged or other confidential information. If you have received it in error, please advise the sender by reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, August 30, 2018 8:47:49 PM  
**To:** Riley, Theresa<Theresa.Riley@team.neustar>; Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Re: Availability for tomorrow with Venkat

Theresa, I can do 15.00-16.00 ET tomorrow.

Thanks,

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Riley, Theresa <Theresa.Riley@team.neustar>  
Sent: Thursday, August 30, 2018 4:46:34 PM  
To: Antonakakis, Manos; Joffe, Rodney  
Subject: Availability for tomorrow with Venkat

Good afternoon gentlemen. Venkat would like to have a call either from 2:00 – 3:00 p.m. Eastern or 3:00 – 4:00 p.m. Eastern. Would you be able to accommodate either of those times tomorrow?

Please let me know and I will send out a calendar invite.

Thanks,  
Theresa

**From:** Rodney Joffe<rodney.joffe@team.neustar>  
**Sent on:** Friday, February 12, 2021 7:57:09 PM  
**To:** Antonakakis, Manos<manos@gatech.edu>  
**CC:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>  
**Subject:** Re: Data subscription extension

Hi Manos and Michael,

We think we have accurately completed the registration form. Please let me know if there is anything else needed.

Thanks!  
Rodney

> On Feb 12, 2021, at 11:51 AM, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> OK, let start asap. I cannot go back to DARPA and say that I cannot do this because GT is not moving fast enough. I will lose face.

>

>

>

> Manos

>

>

>

> From: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

> Date: Friday, February 12, 2021 at 11:31 AM

> To: Antonakakis, Manos <manos@gatech.edu>, Rodney Joffe <rodney.joffe@team.neustar>

> Subject: RE: Data subscription extension

>

> Manos,

>

>

>

> It really depends on how quickly the subsidiary is able to get registered in the system (outside of our control), send us the quote, and how responsive they are to the inquiries and requests for documentation that procurement needs. I would say probably 3 weeks on the short side accounting for some back and forth between supplier and contracting officer.

>

>

>

> Rodney,

>

>

>

> Would you please have the new company register as a vendor in our system. No action on our part can be completed until we have the quote and the new company's registration is done. This link will allow for a new account to be set up, including routing details for payments on future invoices. A new PO will be issued.

>

>

>

>

> <https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwd5.myworkdaysite.com%2Fsupplier%2Fgatech%2F>

>

>

>

> Let me know if you have questions!

>

>

>

> M

>

>

>

>

>  
> From: Antonakakis, Manos <manos@gatech.edu>  
> Sent: Friday, February 12, 2021 9:29 AM  
> To: Rodney Joffe <rodney.joffe@team.neustar>; Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
> Subject: Re: Data subscription extension

>  
>  
>  
> Rodney this makes sense.

>  
>  
>  
> Michael, can I get an ETA on this being one?

>  
>  
>  
> Thanks, Manos

>  
> From: Rodney Joffe <rodney.joffe@team.neustar>  
> Date: Thursday, February 11, 2021 at 9:39 PM  
> To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
> Cc: Antonakakis, Manos <manos@gatech.edu>  
> Subject: Re: Data subscription extension

>  
> Hello Michael,

>  
> Thank you for the opportunity.

>  
> I will have the quote prepared for you by Monday. It will be a new quote, with the same general terms and conditions as the original contract. However, it will cover 3 months, and it will confirm that if needed, an additional PO for the remainder of 2021 will be valid at the same rate and terms.

>  
> Will this work for your purposes, or will you need any other changes?

>  
> One point from Neustar's side - we now contract for all sensitive contracts through our Government Subsidiary, ERP Services, Inc, a wholly owned subsidiary of Neustar, Inc. I assume this will also not be an issue for you?

>  
> Regards

> Rodney

> =====

> Rodney Joffe

> SVP, and Fellow

> National Security Executive

> Neustar, Inc.

> 45980 Center Oak Plaza

> Sterling VA 20166

> USA

> +1 202-533-2900 Direct

> +1 602-418-6471 Cell

> rodney.joffe@team.neustar

>  
>> On Feb 11, 2021, at 5:05 PM, Mitchell, Michael F <michael.mitchell@ece.gatech.edu> wrote:

>>  
>> Good Afternoon Rodney,

>>  
>> I spoke with Manos earlier today regarding the short term extension of our project and the need to extend our data subscription. Would you be able to provide me with a quote for the additional period you discussed? I would greatly appreciate it!

>>  
>> Thanks,

>>  
>> Michael Mitchell

>>  
>> Research Operations Program Manager



**From:** Rodney Joffe<rodney.joffe@team.neustar>  
**Sent on:** Friday, February 12, 2021 2:39:00 AM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>  
**CC:** Antonakakis, Manos<manos@gatech.edu>  
**Subject:** Re: Data subscription extension

Hello Michael,

Thank you for the opportunity.

I will have the quote prepared for you by Monday. It will be a new quote, with the same general terms and conditions as the original contract. However, it will cover 3 months, and it will confirm that if needed, an additional PO for the remainder of 2021 will be valid at the same rate and terms.

Will this work for your purposes, or will you need any other changes?

One point from Neustar's side - we now contract for all sensitive contracts through our Government Subsidiary, ERP Services, Inc, a wholly owned subsidiary of Neustar, Inc. I assume this will also not be an issue for you?

Regards  
Rodney

=====

Rodney Joffe  
SVP, and Fellow  
National Security Executive  
Neustar, Inc.  
45980 Center Oak Plaza  
Sterling VA 20166  
USA  
+1 202-533-2900 Direct  
+1 602-418-6471 Cell  
rodney.joffe@team.neustar

> On Feb 11, 2021, at 5:05 PM, Mitchell, Michael F <michael.mitchell@ece.gatech.edu> wrote:

>

> Good Afternoon Rodney,

>

> I spoke with Manos earlier today regarding the short term extension of our project and the need to extend our data subscription. Would you be able to provide me with a quote for the additional period you discussed? I would greatly appreciate it!

>

> Thanks,

>

> Michael Mitchell

>

> Research Operations Program Manager

> GEORGIA Institute

> of TECH nology

> School of Electrical and Computer Engineering

> 777 Atlantic Drive NW

> Atlanta, GA 30332-0765

> Office: 404-385-8122

> Mobile: 770-655-8039

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, May 18, 2018 7:08:14 PM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>; Hall, John<John.Hall@team.neustar>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>; Lamb, Lewis<Lewis.Lamb@team.neustar>  
**Subject:** Re: HACCS add on for Neustar

You do not need me in this meeting.

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Mitchell, Michael F  
Sent: Friday, May 18, 2018 3:07:36 PM  
To: Hall, John; Antonakakis, Manos  
Cc: Joffe, Rodney; Lamb, Lewis  
Subject: RE: HACCS add on for Neustar

Hey John,

My schedule is very flexible on Monday so how about 10AM, 11AM, or 1PM?

Michael Mitchell

Research Operations Program Manager  
GEORGIA Institute  
of TECH nology  
School of Electrical and Computer Engineering  
777 Atlantic Drive NW  
Atlanta, GA 30332-0765  
Phone: 404-385-8122

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

From: Hall, John <John.Hall@team.neustar>  
Sent: Friday, May 18, 2018 2:10 PM  
To: Antonakakis, Manos <manos@gatech.edu>; Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
Cc: Joffe, Rodney <Rodney.Joffe@team.neustar>; Lamb, Lewis <Lewis.Lamb@team.neustar>  
Subject: Re: HACCS add on for Neustar

Thanks Manos.

Hi Michael. Are you available for a call to discuss this on Monday?  
Please send a couple of times that work for you.

Thanks in advance,

John W Hall  
Neustar, Inc. / Sr. Director - Federal Business  
[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

---

The information contained in this e-mail message is intended only for the use of the recipient(s) named above and may contain confidential and/or privileged information. If you are not the intended recipient you have received this e-mail

message in error and any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately and delete the original message

---

On 5/17/18, 8:45 PM, "Antonakakis, Manos" <manos@gatech.edu> wrote:

>Michael, please work with John to make sure that Neustar gets the add  
>on that we discussed.

>

>John, Michael will be working with Allison (from DARPA) to make  
>everything happen for Neustar. Michael will also navigate the internal  
>GT process on your behalf. Please work with him, as he needs more  
>information from you. Please, follow Michael's lead.

>

>Rodney, GT is closing the fiscal year. This will have to wait until the  
>new fiscal year kicks in (Michael, is this June or July 1st?).

>

>Thanks,

>

>

>Manos Antonakakis | manos@gatech.edu

>Georgia Institute of Technology

>FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

>

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Saturday, May 19, 2018 1:53:02 AM  
**To:** Hall, John<John.Hall@team.neustar>  
**Subject:** Re: HACCS add on for Neustar

Likewise, John.

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hall, John <John.Hall@team.neustar>  
Sent: Friday, May 18, 2018 4:49:13 PM  
To: Antonakakis, Manos  
Subject: Re: HACCS add on for Neustar

Ack. Have a nice weekend

John W Hall  
Neustar, Inc. / Sr. Director – Federal Business  
[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

---

The information contained in this e-mail message is intended only for the use of the recipient(s) named above and may contain confidential and/or privileged information. If you are not the intended recipient you have received this e-mail message in error and any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately and delete the original message

---

On 5/18/18, 3:08 PM, "Antonakakis, Manos" <manos@gatech.edu> wrote:

>You do not need me in this meeting.

>

>—

>Manos Antonakakis | manos@gatech.edu  
>Georgia Institute of Technology  
>FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

>

>

>

---

>From: Mitchell, Michael F  
>Sent: Friday, May 18, 2018 3:07:36 PM



>  
>  
>On 5/17/18, 8:45 PM, "Antonakakis, Manos" <manos@gatech.edu> wrote:  
>  
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>>  
>>Thanks,  
>>  
>><  
>>Manos Antonakakis | manos@gatech.edu  
>>Georgia Institute of Technology  
>>FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668  
>>  
>

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Monday, July 23, 2018 8:28:51 PM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>; Hall, John<John.Hall@team.neustar>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Re: HACCS program updates

Michael, many thanks for the update. Per our discussion, I would like to be CCed on all further communications you have with Neustar about both EA or HACCS issues. I would suggest you include Rodney on these emails too.

Thanks,

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Mitchell, Michael F  
Sent: Monday, July 23, 2018 2:49:32 PM  
To: Hall, John  
Cc: Antonakakis, Manos  
Subject: HACCS program updates

Hey John,

I just got off the phone with Dan Sible, who is the contracting contact for Georgia Tech in charge of the HACCS program. I have briefed him on the situation and how time sensitive it is and the difficulties involved for everyone. He has agreed to push the addendum in front of his leadership team to try and accelerate the negotiations between GT and DARPA. I have requested that he update me as quickly as possible on this, and I in turn will update you as things happen.

My apologies for the confusion on this. I hope to have some additional information for you shortly.

Thanks!

Michael Mitchell

Research Operations Program Manager  
GEORGIA Institute  
of TECH nology  
School of Electrical and Computer Engineering  
777 Atlantic Drive NW  
Atlanta, GA 30332-0765  
Phone: 404-385-8122

**From:** Antonakakis, Manos<fvirgil6@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Tuesday, February 12, 2019 4:10:03 AM  
**To:** Rodney Joffe<rodney.joffe@team.neustar>; Christopher Schneck<christopher.schneck.ctr@darpa.mil>  
**BCC:** Antonakakis, Manos<manos@gatech.edu>  
**Subject:** Re: Neustar Executive Visit to PI meeting March 8th

Thanks you Rodney for the email.

For you guys to attend the site visit I will need to get the green light from Chris. Chris, can you please check and let us know if you have any issues with this?

Thanks, Manos

---  
Typos due to mobile device ...

> On Feb 11, 2019, at 21:06, Rodney Joffe <rodney.joffe@team.neustar> wrote:

>  
> Hello Manos,  
>  
> As you know Neustar has been very involved in developing and improving our ability to provide capabilities and resources for you based on the apparent success of your EA and HACCS programs, using our data.  
>  
> As a result, I wonder if it would be possible for me, our CEO Charlie Gottdiener, Venkat Achanta, our Chief Data Officer, and Adm. (Ret) Mike Mullen (past Chairman of the Joint Chiefs) who is a board director of our data subsidiary to visit you during the PI day on March 8th?  
>  
> I think it would be extremely beneficial for my colleagues to see and understand the impact of our efforts, and to realize just how much of a difference we can make to the country's National Security efforts through GA Tech.  
>  
> They all obviously understand the sensitivity of the PI briefing and meeting, and would respect and sign whatever attendee documents are required of other sub-contractors on your program.  
>  
> Respectfully  
>  
> Rodney  
>  
> =====  
> Rodney Joffe  
> SVP, Senior Technologist, and Fellow  
> National Security Executive  
> Neustar, Inc.  
> 21575 Ridgetop Circle  
> Sterling VA 20166  
> USA  
> +1 202-533-2900 Direct  
> +1 602-418-6471 Cell  
> rodney.joffe@team.neustar  
>



**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Tuesday, May 29, 2018 4:25:50 PM  
**To:** Pearson, Christina T<christina.pearson@dev.gatech.edu>  
**CC:** Corcoran, Sean<sean.corcoran@team.neustar>; Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Re: Neustar update & visit to Atlanta (and campus) next week

Many thanks Christina.

Sean, very pleased to meet you! Rodney is very much aware of my tremendously hectic schedule next week. I would love to meet you, but I will be hosting a very big and important event (that actually directly impacts Neustar in major ways) and my time is almost non excitant during normal hours.

Rodney, I can make myself available for dinner, if that works for you and Sean. I would like to hear more about the "Neustar Labs" idea --- sounds really intriguing. :)

Many thanks,

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Pearson, Christina T  
Sent: Tuesday, May 29, 2018 12:11:44 PM  
To: Antonakakis, Manos  
Cc: Corcoran, Sean  
Subject: Neustar update & visit to Atlanta (and campus) next week

Hi Manos,

Sean Corcoran, VP of Corporate Development at Neustar (and GT alumnus – also cc'd above), reached out to me requesting to set up a few meetings on campus next week between June 4th-7th. Neuster will have several executives in town and because they are extremely pleased with the work that your lab has done, they wish to explore more ways that Neustar could expand their presence across the GT campus. (see list below)

They will also be reaching out to you directly to schedule some time for these Neustar executives to meet with your team, but they will not necessarily attach this to their visit to campus. Stay tuned for an email from Rodney or Sean.

Just wanted to give you a quick heads up....and feel free to reach back out with any questions.

Thanks,  
Christina

Neustar visitors:  
Venkat Achanta, Chief Data and Analytics Officer  
Rodney Joffe, SVP and Neustar Fellow  
Sean Corcoran, VP of Corporate Development

Areas of interest across campus (3 hours):

(1) Intro to new ECE Chair – Magnus Egerstedt

(2) “Neustar Labs” – possibly establishing an Innovation Lab on/near campus – Greg King

(3) VentureLab – meet/greet and short tour – would like to possibly leverage GT technologies/companies going forward – individual TBD (Keith McGreggor, or other?)

**From:** Rodney Joffe<rodney.joffe@team.neustar>  
**Sent on:** Tuesday, March 16, 2021 7:02:01 PM  
**To:** Kline, Allison<allison.kline@darpa.mil>  
**CC:** Chris Schneck<christopher.schneck.ctr@darpa.mil>; Antonakakis, Manos<manos@gatech.edu>  
**Subject:** Re: New DARPA EA PM

> On Mar 11, 2021, at 7:43 PM, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> Hey Rodney,

>

> Allow me to re-introduce to Allison, who is the new EA PM. I think it would be a great idea for the two of you to get on a call and catch up about the status of things.

Thanks Manos,

Hello again Allison.

Let me know when.

Regards

Rodney

=====

Rodney Joffe  
SVP, and Fellow  
National Security Executive  
Neustar, Inc.  
45980 Center Oak Plaza  
Sterling VA 20166  
USA  
+1 202-533-2900 Direct  
+1 602-418-6471 Cell  
rodney.joffe@team.neustar

>

> Thanks,

>

> —

> Manos Antonakakis, Ph.D. | manos@gatech.edu

> College of Engineering Dean's Professorship Chair and Associate Professor

> Co-Director Center for Cyber Operations Enquiry and Unconventional Sensing (COEUS)

> School of Electrical and Computer Engineering | Georgia Institute of Technology

> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

**From:** Rodney Joffe<rodney.joffe@neustar.biz>  
**Sent on:** Tuesday, September 20, 2016 9:27:20 PM  
**To:** Noland, Yvonne<yvonne.noland@ohr.gatech.edu>  
**CC:** Cameron, Yolonda L<yolonda.cameron@legal.gatech.edu>; Antonakakis, Manos<manos@gatech.edu>  
**Subject:** Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Many thanks, Yvonne.

> On Sep 20, 2016, at 3:48 PM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:

>

> Hi Rodney,

>

> Attached please find the fully executed NDA.

>

> Thank you,

>

> Yvonne Noland

> Legal Services Coordinator

> Georgia Institute of Technology

> Office of Legal Affairs

> Atlanta, GA 30332-0495

> Email: Yvonne.Noland@legal.gatech.edu

> Phone: 404-894-4812

> Fax: 404-894-3120

>

>

> Please note that most communications to or from Georgia Tech employees are public records and available to the public and the media upon request under Georgia's broad open records law. Therefore, this e-mail communication and any response to it may be subject to public disclosure.

>

>

> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Thursday, September 08, 2016 12:29 PM

> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>

> Subject: Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Almost there :-)

>

>

> Begin forwarded message:

>

> From: Contracts <Contracts@neustar.biz>

> Date: September 8, 2016 at 12:26:19 PM EDT

> To: "Joffe, Rodney" <Rodney.Joffe@neustar.biz>, Contracts <Contracts@neustar.biz>

> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Attached is the partially executed NDA for The Board of Regents of University System of Georgia, by and behalf of Georgia Institute of Tehnology. Once it has been countersigned, please forward a fully executed copy to Contracts for our files.

>

> Thanks,

> Samantha

> -----Original Message-----

> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Wednesday, September 07, 2016 9:01 PM

> To: Contracts <Contracts@neustar.biz>

> Subject: Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>  
> Over to you to execute.  
>  
> Thanks  
> Rodney  
>  
>  
>  
> Begin forwarded message:  
>  
> From: "Noland, Yvonne" <yvonne.noland@legal.gatech.edu>  
> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
> Date: September 7, 2016 at 10:41:46 AM EDT  
> To: Rodney Joffe <rodney.joffe@neustar.biz>  
> Cc: "Antonakakis, Emmanouil K" <manos@gatech.edu>, "Cameron, Yolonda L"  
> <yolonda.cameron@legal.gatech.edu>  
> Resent-From: <rodney.joffe@neustar.biz>  
>  
> Hi Rodney,  
>  
> Attached is a final document for signature, reflecting the change from 14 to 20 days in Section 3. Please return a signed copy to me at your earliest convenience. I will route for countersignature and return a fully executed copy to you.  
>  
> Thank you,  
> Yvonne  
>  
> -----Original Message-----  
> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]  
> Sent: Wednesday, September 07, 2016 10:17 AM  
> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>  
> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
> Subject: Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
>  
> Hi Yvonne,  
>  
> OK on these points. Do you have a final for us to sign?  
>  
> On Sep 6, 2016, at 2:28 PM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:  
>  
> Hi Rodney,  
>  
> I've updated the effective date of the document and accepted all mutually agreed upon edits in the attached document.  
>  
> The GIT signatory will not agree to the requested revisions in Section 3. All information disclosed to GIT must be marked in accordance with the original language in Section 3, but we can agree to extend the 14-day period for non-written disclosures to 20 days.  
>  
> Sincerely,  
>  
> Yvonne Noland  
> Legal Services Coordinator  
> Georgia Institute of Technology  
> Office of Legal Affairs  
> Atlanta, GA 30332-0495  
> Email: Yvonne.Noland@legal.gatech.edu  
> Phone: 404-894-4812  
> Fax: 404-894-3120  
>  
>  
> Please note that most communications to or from Georgia Tech employees are public records and available to the public and the media upon request under Georgia's broad open records law. Therefore, this e-mail communication and any

response to it may be subject to public disclosure.

>

>

> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Tuesday, September 06, 2016 11:20 AM

> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>

> Subject: Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Hi Yvonne,

>

> This is the correct email.

>

> Apparently all edits are OK except for the comments below. Could you please confirm?

>

> Thanks

> Rodney

> =====

> Rodney Joffe

> SVP, Senior Technologist, and Fellow

> Neustar, Inc. (NYSE:NSR)

> 1775 Pennsylvania Ave. NW

> Suite 400

> Washington DC 20006

> +1 202-533-2900 Direct

> +1 602-418-6471 Cell

>

>

>

>

>

> From: Contracts

> Sent: Tuesday, September 06, 2016 11:06 AM

> To: Joffe, Rodney <Rodney.Joffe@neustar.biz>; Contracts <Contracts@neustar.biz>

> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Hi Rodney,

>

> All the counter-edits are acceptable with the exception of the Confidential Information marking.

>

> Through discussions or written information disclosed, it would be somewhat difficult to have to “mark” all proprietary/confidential information as “Confidential”. In the event that there are times that such information is not marked or otherwise indicated verbally during ongoing communication, we want to ensure that, although not marked as “Confidential”, that it is protected under the NA,

>

> Samantha Ellis

> NeuStar, Inc. | Contracts Manager

> 571.434.3421

>

> From: Noland, Yvonne [mailto:yvonne.noland@legal.gatech.edu]

> Sent: Tuesday, September 06, 2016 10:14 AM

> To: Joffe, Rodney <Rodney.Joffe@neustar.biz>; Contracts <Contracts@neustar.biz>

> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>

> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Good morning – please advise regarding the status of this matter at your earliest convenience. Thank you.

>

>

> From: Noland, Yvonne

> Sent: Thursday, August 04, 2016 12:38 PM

> To: 'Rodney Joffe' <rodney.joffe@neustar.biz>; 'Contracts@neustar.biz' <Contracts@neustar.biz>

> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>

> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Hi Rodney,

>

> Attached please find our additional comments and revisions for review by your legal department.

>

> Regards,

>

> Yvonne Noland

> Legal Services Coordinator

> Georgia Institute of Technology

> Office of Legal Affairs

> Atlanta, GA 30332-0495

> Email: Yvonne.Noland@legal.gatech.edu

> Phone: 404-894-4812

> Fax: 404-894-3120

>

>

> Please note that most communications to or from Georgia Tech employees are public records and available to the public and the media upon request under Georgia's broad open records law. Therefore, this e-mail communication and any response to it may be subject to public disclosure.

>

>

>

>

> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Wednesday, August 03, 2016 12:52 PM

> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>

> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>

> Subject: Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Hello Yvonne,

>

>

> Thanks... I am attaching a marked up version of the NDA from our legal group... Hopefully this is acceptable.

>

>

> Regards

> Rodney

>

>

>

>

>

>

>

> On Aug 3, 2016, at 7:30 AM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:

>

> Good morning,

>

> Our office is in receipt of a request to process a non-disclosure agreement between Georgia Tech and Neustar Inc. The standard Neustar Confidentiality Agreement provided to us contemplates a mutual exchange of confidential information. However, the GT point of contact for this matter has advised it is not anticipated GT will disclose any confidential/proprietary information for this effort.

>

> As such, I have prepared and attached Georgia Tech's standard unilateral Proprietary Information Agreement for consideration by your contracts/legal department. If the document is satisfactory, please have it executed and return it to me. I will then have the document countersigned and return a copy to you for your files. If you would like to request any changes to the agreement, please utilize the "track changes" feature and return the edited version to me.

>

> Sincerely,

>  
> Yvonne Noland  
> Legal Services Coordinator  
> Georgia Institute of Technology  
> Office of Legal Affairs  
> Atlanta, GA 30332-0495  
> Email: Yvonne.Noland@legal.gatech.edu  
> Phone: 404-894-4812  
> Fax: 404-894-3120

>  
>  
> Please note that most communications to or from Georgia Tech employees are public records and available to the public and the media upon request under Georgia's broad open records law. Therefore, this e-mail communication and any response to it may be subject to public disclosure.

>  
>  
> <Neustar Inc. (NDA-4406).docx>  
> <Neustar Inc. - GT review 9-6-16 (NDA-4406).docx>  
>  
> <Neustar, Inc. (NDA-4406).pdf>

Microsoft Exchange Server;converted from html;

**From:** Noland, Yvonne<fvirgil6@gatech.edu> on behalf of Noland, Yvonne  
**Sent on:** Wednesday, August 3, 2016 5:16:25 PM  
**To:** Rodney Joffe<rodney.joffe@neustar.biz>  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

[Worked that time – thank you very much](#)

---

**From:** Rodney Joffe [mailto:rodney.joffe@neustar.biz]  
**Sent:** Wednesday, August 03, 2016 1:13 PM  
**To:** Noland, Yvonne <yvonne.noland@legal.gatech.edu>  
**Subject:** Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Yvonne,

Does this work?

The email below also includes our legal group contract info.

Thanks

Rodney

Begin forwarded message:

**From:** Contracts <[HYPERLINK "mailto:Contracts@neustar.biz" Contracts@neustar.biz](mailto:Contracts@neustar.biz)>  
**Date:** August 3, 2016 at 9:38:02 AM PDT  
**To:** "Joffe, Rodney" <[HYPERLINK "mailto:Rodney.Joffe@neustar.biz" Rodney.Joffe@neustar.biz](mailto:Rodney.Joffe@neustar.biz)>  
**Cc:** "Konde, Alex" <[HYPERLINK "mailto:alex.konde@neustar.biz" alex.konde@neustar.biz](mailto:alex.konde@neustar.biz)>, Contracts <[HYPERLINK "mailto:Contracts@neustar.biz" Contracts@neustar.biz](mailto:Contracts@neustar.biz)>  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hi Rodney,

Legal has reviewed the attached and have made a few edits. Please let me know if you have any questions or concerns.

Regards,

Samantha

**Samantha Ellis**

**NeuStar, Inc.** | Contracts Manager

571.434.3421

---

**Resent-From:** <[HYPERLINK "mailto:rodney.joffe@neustar.biz" rodney.joffe@neustar.biz](mailto:rodney.joffe@neustar.biz)>  
**From:** "Noland, Yvonne" <[HYPERLINK "mailto:yvonne.noland@legal.gatech.edu" yvonne.noland@legal.gatech.edu](mailto:yvonne.noland@legal.gatech.edu)>  
**Date:** August 3, 2016 at 7:30:34 AM PDT  
**To:** "[HYPERLINK "mailto:Rodney.Joffe@neustar.biz" Rodney.Joffe@neustar.biz](mailto:Rodney.Joffe@neustar.biz)" <[HYPERLINK "mailto:Rodney.Joffe@neustar.biz" Rodney.Joffe@neustar.biz](mailto:Rodney.Joffe@neustar.biz)>  
**Cc:** "Antonakakis, Emmanouil K" <[HYPERLINK "mailto:manos@gatech.edu" manos@gatech.edu](mailto:manos@gatech.edu)>, "Cameron, Yolonda L" <[HYPERLINK "mailto:yolonda.cameron@legal.gatech.edu" yolonda.cameron@legal.gatech.edu](mailto:yolonda.cameron@legal.gatech.edu)>  
**Subject:** PIA - Neustar Inc./Georgia Tech (NDA-4406)

Good morning,

Our office is in receipt of a request to process a non-disclosure agreement between Georgia Tech and Neustar Inc. The standard Neustar Confidentiality Agreement provided to us contemplates a mutual exchange of confidential information.

However, the GT point of contact for this matter has advised it is not anticipated GT will disclose any confidential/proprietary information for this effort.

As such, I have prepared and attached Georgia Tech's standard unilateral Proprietary Information Agreement for consideration by your contracts/legal



**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, September 7, 2018 2:57:24 AM  
**To:** Rodney Joffe<rjoffe@centergate.com>  
**Subject:** Re: Touch base

You assume too much. That is not true. I was planning to tell him about the proposal.

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Rodney Joffe <rjoffe@centergate.com>  
Sent: Thursday, September 6, 2018 10:56:14 PM  
To: Antonakakis, Manos  
Subject: Re: Touch base

Then why did you invite him to call for unofficial news? That implies you have something different to Angelos. You will regret it because now he will start in on you again... and keep pushing. And you invited it ☐☐

> On Sep 6, 2018, at 10:52 PM, Antonakakis, Manos <manos@gatech.edu> wrote:

>  
> I was not planing to, because that is the only hard facts I have.

>  
> —  
> Manos Antonakakis | manos@gatech.edu  
> Georgia Institute of Technology  
> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

> From: Rodney Joffe <rjoffe@centergate.com>  
> Sent: Thursday, September 6, 2018 10:50:48 PM  
> To: Antonakakis, Manos  
> Subject: Re: Touch base

> DONT TELL HIM ANYTHING DIFFERENT TO ANGELOS After Oct 1 new fiscal year.

>> On Sep 6, 2018, at 10:35 PM, Antonakakis, Manos <manos@gatech.edu> wrote:

>> Venkat, nothing official at the moment. We are in waiting mode. If you want some unofficial news, you can give me a quick call.

>> Thanks,

---

>> Manos Antonakakis | manos@gatech.edu  
>> Georgia Institute of Technology  
>> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

>> From: Achanta, Venkat <Venkat.Achanta@team.neustar>  
>> Sent: Thursday, September 6, 2018 10:30:34 PM  
>> To: Antonakakis, Manos  
>> Cc: Joffe, Rodney  
>> Subject: Touch base

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Saturday, August 5, 2017 9:39:25 PM  
To: Rodney Joffe <rjoffe@centergate.com>  
Subject: Quick note about a recent data outage

Hey Rodney,

Not sure if your team has realized this already (I suspect you have), but there is a 40 hours or so outage on the datasets we are getting from you starting on 08/02/2017.

I am writing this email for two reasons. Primarily, I would like to know if this could happen again. Such a long outage going unnoticed by your team makes me very skeptical about the long-term quality of your datasets. How such a major issue doesn't get remediated in the first few hours of the outage? Allow me to remind you that this is a 4.5 years project we are working on. Should I be implementing mechanisms that will give \*your\* team a heads up when something goes wrong? Sounds like not the right thing to be doing (as you are the provider of the datasets not me), but this project needs to be successful for all of us --- me as GT and you as Neustar.

This gives me the right context to bring up the second reason I am writing this email. We are working with a USG partner, where we are statistically monitor the movement of an unknown (to date) threat actor targeting sensitive USG networks. This almost 2 days gap of your data will create a huge gap in our statistical reasoning. In other words, we will have to disclose that for those two days, we have little idea what the actor did due to a failure of the underline data sources. This will be a black mark for Neustar. It is a shame that besides the USG partner, this report will be likely attract the interest of the people in the highest levels of DARPA and likely DoD.

All in all, I would like to remind you that, while we are appreciative of the data you are sharing with us, not providing a reliable service would likely cause both; the project to be less successful but also a significant financial damage to Neustar at the end of the day. This is mainly because through our analysis Neustar would appear as a less than reliable (for the capabilities we develop at GT) data source. I do not think that Neustar would like GT to build unique new capabilities for the USG and then the USG to try to seek a more reliable sources of data to apply our algorithms over. That sounds like a unique opportunity lost for Neustar.

I would appreciate some official feedback from Neustar on this.

Best regards,

—

Manos Antonakakis | manos@gatech.edu  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Saturday, July 29, 2017 1:19:46 AM  
To: Rodney Joffe <rodney.joffe@team.neustar>; DeJong, Steve <Steve.DeJong@team.neustar>  
Subject: Re: [EXTERNAL] ActiveDNS cloud pricing

Rodney, I think what Steve is doing here is giving you a point of reference. In order to scale the scanning from multiple points, we will need way more than \$100K.

We will do our best with whatever resources we end up getting.

Folks, when can we start? I need to organize my team to get the ball rolling.

—  
Manos Antonakakis | manos@gatech.edu  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Rodney Joffe <rodney.joffe@team.neustar>  
Sent: Friday, July 28, 2017 8:16:04 PM  
To: Antonakakis, Manos; DeJong, Steve  
Subject: Re: [EXTERNAL] ActiveDNS cloud pricing

Steve,

So Am i right in understanding that this is the choice between \$19,200 a year or \$50,400. Both of which are pure noise?

Manos, you had estimated \$100k a year, what are we missing on our side? If I knew it was onl \$19,200 a year I would have paid it myself on my credit card yesterday....

> On Jul 28, 2017, at 9:37 AM, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> Gentlemen, does Neustar has a preference between Azure and AWS? If not, I would suggest we go with AWS because that is the path with the least amount of unknowns.

>

> I want these data to make a difference in Neustar. Thus, lets not waste any time with porting/cloud compatibility issues, unless we absolutely have to.

>

> Thanks,

>

> —

> Manos Antonakakis | manos@gatech.edu  
> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

>

>

>

> From: DeJong, Steve <Steve.DeJong@team.neustar>

> Sent: Thursday, July 27, 2017 12:48:47 AM

> To: Antonakakis, Manos; Joffe, Rodney

> Subject: ActiveDNS cloud pricing

>

> I spoke with Chaz briefly regarding the cloud computing needs for the ActiveDNS project. He indicated that all that was really needed was compute resources to run the docker containers - there was no real need for additional cloud services such as redshift or kinesis or things of that nature.

>

- > As I understand the project proposal the DNS "client" containers need to have public addresses and need to be geographically diverse so as to get different responses worldwide. With that in mind I have used the AWS and Azure pricing calculators to estimate 2 client machines per region. I also assumed 50Gb/month of network bandwidth.
- >
- > 2 CPU, ~4 Gb RAM.
- >
- > AWS provides 14 regions - 2 East, 2 West, 1 Canada, 3 Europe, 5 APAC, 1 South America
- > Azure provides 28 regions with more presence in every region including a large presence in India. (26 if you take out the German locations and associated restrictions)
- >
- > AWS will run around \$110/region/month or around \$1600 / month
- > Azure will run around \$160/region/month or \$4200 / month for 26 regions
- >
- > There is some risk that the public address space for cloud services may be generic - eg all Azure addresses map to Redmond - but most geo provides have gotten those things straightened out.
- >
- > Hope this helps
- > Steve
- >
- > Steve De Jong: Neustar, Inc.
- > +1.206.604.3353
- >
- >
- >

From: Rodney Joffe <rodney.joffe@team.neustar>  
Sent on: Saturday, July 29, 2017 1:22:41 AM  
To: Manos Antonakakis <manos@gatech.edu>  
CC: DeJong, Steve <Steve.DeJong@team.neustar>  
Subject: Re: [EXTERNAL] ActiveDNS cloud pricing

Manos, I don't understand. Steve, please explain to me. Feel free to skype me or facetime me.

> On Jul 28, 2017, at 8:19 PM, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> Rodney, I think what Steve is doing here is giving you a point of reference. In order to scale the scanning from multiple points, we will need way more than \$100K.

>

> We will do our best with whatever resources we end up getting.

>

> Folks, when can we start? I need to organize my team to get the ball rolling.

>

> —

> Manos Antonakakis | manos@gatech.edu

> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

>

>

> \_\_\_\_\_

> From: Rodney Joffe <rodney.joffe@team.neustar>

> Sent: Friday, July 28, 2017 8:16:04 PM

> To: Antonakakis, Manos; DeJong, Steve

> Subject: Re: [EXTERNAL] ActiveDNS cloud pricing

>

> Steve,

>

> So Am i right in understanding that this is the choice between \$19,200 a year or \$50,400. Both of which are pure noise?

>

> Manos, you had estimated \$100k a year, what are we missing on our side? If I knew it was onl \$19,200 a year I would have paid it myself on my credit card yesterday....

>

>> On Jul 28, 2017, at 9:37 AM, Antonakakis, Manos <manos@gatech.edu> wrote:

>>

>> Gentlemen, does Neustar has a preference between Azure and AWS? If not, I would suggest we go with AWS because that is the path with the least amount of unknowns.

>>

>> I want these data to make a difference in Neustar. Thus, lets not waste any time with porting/cloud compatibility issues, unless we absolutely have to.

>>

>> Thanks,

>>

>> —

>> Manos Antonakakis | manos@gatech.edu

>> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

>>

>>

>> \_\_\_\_\_

>> From: DeJong, Steve <Steve.DeJong@team.neustar>

>> Sent: Thursday, July 27, 2017 12:48:47 AM

>> To: Antonakakis, Manos; Joffe, Rodney

>> Subject: ActiveDNS cloud pricing

>>

>> I spoke with Chaz briefly regarding the cloud computing needs for the ActiveDNS project. He indicated that all that was really needed was compute resources to run the docker containers - there was no real need for additional cloud services such as redshift or kinesis or things of that nature.

>>

>> As I understand the project proposal the DNS "client" containers need to have public addresses and need to be geographically diverse so as to get different responses worldwide. With that in mind I have used the AWS and Azure pricing calculators to estimate 2 client machines per region. I also assumed 50Gb/month of network bandwidth.

>>

>> 2 CPU, ~4 Gb RAM.

>>

>> AWS provides 14 regions - 2 East, 2 West, 1 Canada, 3 Europe, 5 APAC, 1 South America

>> Azure provides 28 regions with more presence in every region including a large presence in India. (26 if you take out the German locations and associated restrictions)

>>

>> AWS will run around \$110/region/month or around \$1600 / month

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>>

>> There is some risk that the public address space for cloud services may be generic - eg all Azure addresses map to Redmond - but most geo provides have gotten those things straightened out.

>>

>> Hope this helps

>> Steve

>>

>> Steve De Jong: Neustar, Inc.

>> +1.206.604.3353

>>

>>

>>

>

From: Rodney Joffe <rodney.joffe@team.neustar>

Sent on: Monday, November 13, 2017 3:16:24 PM

To: Manos Antonakakis <manos@gatech.edu>

Subject: Re: [EXTERNAL] Fw: EA PI Meeting: 1 December 2017 (Friday) at the DCC --- Response needed by COB on 27 November 2017

Got it.

> The registration process for this PI meeting will be different from previous ones. Rather than going through a registration website, we're requesting that each PI respond to Tom Maddern (thomas.maddern.ctr@darpa.mil) with the names, organizations, and countries of citizenship for each of your team members planning on attending. Please provide this information by COB Monday, November 27th.

Rodney Joffe  
Neustar  
United States

>

> Each individual attending will need to bring a completed DARPA Form 104 (attached) along with a government issued ID to the meeting. Non-US citizens will need to submit a DARPA Form 60 (attached) in advance. I have downloaded, and will bring printed copy with me.

From: Rodney Joffe <rodney.joffe@team.neustar>  
Sent on: Wednesday, November 8, 2017 7:59:06 PM  
To: Manos Antonakakis <manos@gatech.edu>  
Subject: Re: [EXTERNAL] Fw: Notification HR001117S0051-HACCS-FP-029

Damn awesome!!!!  
I will tell them now.

> On Nov 8, 2017, at 2:53 PM, Antonakakis, Manos <manos@gatech.edu> wrote:  
>  
> Great news Rodney, we got the official notification that we won HACCS! Please relay the news internally to your team.  
>  
> Cheers,  
>  
> —  
> Manos Antonakakis | manos@gatech.edu  
> Georgia Institute of Technology  
> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668  
>  
>  
> \_\_\_\_\_  
> From: HACCS <haccs@darpa.mil>  
> Sent: Wednesday, November 8, 2017 12:31 PM  
> To: Antonakakis, Manos; Farrell, Michael D  
> Cc: HACCS  
> Subject: Notification HR001117S0051-HACCS-FP-029  
>  
> Dear Proposer,  
>  
> Please see the attached file regarding your proposal submission (HR001117S0051-HACCS-FP-029) that was submitted to the Harnessing Autonomy for Countering Cyberadversary Systems (HACCS) solicitation.  
>  
> Regards,  
>  
> DARPA/I2O  
> <Letter 029.pdf>



From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Tuesday, April 3, 2018 11:37:37 PM  
To: Rodney Joffe <rodney.joffe@team.neustar>  
Subject: Re: [EXTERNAL] Internet of Things - Neustar - Georgia Institute of Technology (Atlanta, GA)  
Attachments: cross-talk-1-3%255b1%255d.pdf (167.81 KB), IOT-MA.pdf (217.1 KB)

You are already working with the experts in the space --- my lab. See attached articles that will be published next month in the GT Research Horizons (<http://www.rh.gatech.edu/>).

Not sure what extra value you will be getting through this. I am sure they are happy to take your money, but the only thing they do is come up with meetings and workshop. If this is your cup of tea, go ahead. If not, then there is no value, IMHO.

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Rodney Joffe <rodney.joffe@team.neustar>  
Sent: Tuesday, April 3, 2018 6:29:02 PM  
To: Antonakakis, Manos  
Subject: Fwd: [EXTERNAL] Internet of Things - Neustar - Georgia Institute of Technology (Atlanta, GA)

Thoughts?

Begin forwarded message:

From: "Hook, Lisa" <lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>>  
Subject: Fwd: [EXTERNAL] Internet of Things - Neustar - Georgia Institute of Technology (Atlanta, GA)  
Date: April 3, 2018 at 4:05:38 PM EDT  
To: "Joffe, Rodney" <Rodney.Joffe@team.neustar<mailto:Rodney.Joffe@team.neustar>>

Should we do this? I don't know cost yet

Lisa A. Hook  
Neustar, Inc./President and Chief Executive Officer  
120 SW 8th Street, Miami, FL 33130  
Office: 571/434-5630. Mobile:202/907-5672  
Lisa.Hook@team.neustar<mailto:Lisa.Hook@team.neustar>/www.neustar.biz<http://www.neustar.biz/>

Begin forwarded message:

From: "Louchez, Alain" <Alain.Louchez@gtri.gatech.edu<mailto:Alain.Louchez@gtri.gatech.edu>>  
To: "Hook, Lisa" <lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>>  
Subject: [EXTERNAL] Internet of Things - Neustar - Georgia Institute of Technology (Atlanta, GA)

Dear Ms. Hook,

The Georgia Institute of Technology ("Georgia Tech") has recently established a global sponsor-funded Internet of Things (IoT) Center, i.e., Center for the Development and Application of Internet of Things Technologies (CDAIT <[https://urldefense.proofpoint.com/v2/url?u=http-3A\\_www.cdait.gatech.edu\\_&d=DwMFAG&c=MOptNIVtIETeDALC\\_IULrw&r=wbno7uofr9AG5ancFcEkUNBmytkAGt1amdNkqv](https://urldefense.proofpoint.com/v2/url?u=http-3A_www.cdait.gatech.edu_&d=DwMFAG&c=MOptNIVtIETeDALC_IULrw&r=wbno7uofr9AG5ancFcEkUNBmytkAGt1amdNkqv)>

0gW9fyLTTVZ0rRG1VAT4&e=>, pronounced "sedate").

In short, CDAIT could be viewed as a technological think tank (some might say a "think-and-do tank", i.e., action-oriented) focused on both engineering and business IoT dimensions, and composed of premier multinational companies (\*), widely recognized as leading the deployment of the Internet of Things.

Given the increasing importance of Internet of Things technologies to Neustar, we'd be delighted and honored to have the Company become a member of CDAIT (see attached flyer).

Please let me know if this is of interest.

Respectfully,

Alain

(\*) CDAIT members currently are (parent company's HQ (outside the US) in parentheses): 3M, AIG, AT&T, Boehringer Ingelheim (Germany), Cisco, Coca-Cola, Comcast, Eaton (Ireland), Georgia Pacific, Honeywell, IBM, Intel, Landis+Gyr (Switzerland), Michelin (France), Stanley Black and Decker, UPS, Verizon, and VMware.

Alain Louchez  
Managing Director  
Center for the Development and Application  
of Internet-of-Things Technologies (CDAIT)  
75 5th Street, NW, Suite 900  
Atlanta, Georgia 30308

PHONE: 404.407.8280

EMAIL: [alain.louchez@gtri.gatech.edu](mailto:alain.louchez@gtri.gatech.edu) <<mailto:alain.louchez@gtri.gatech.edu>>

WEBSITE: [www.cdait.gatech.edu](http://www.cdait.gatech.edu) <[https://urldefense.proofpoint.com/v2/url?u=http-3A\\_www.cdait.gatech.edu\\_&d=DwMFAG&c=MOptNIVtIETeDALC\\_IULrw&r=wbno7uofr9AG5ancFcEkUNBmytkAGt1amdnKqv0gW9fyLTTVZ0rRG1VAT4&e=>](https://urldefense.proofpoint.com/v2/url?u=http-3A_www.cdait.gatech.edu_&d=DwMFAG&c=MOptNIVtIETeDALC_IULrw&r=wbno7uofr9AG5ancFcEkUNBmytkAGt1amdnKqv0gW9fyLTTVZ0rRG1VAT4&e=>)>

[Barracuda Networks]

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From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Thursday, January 18, 2018 4:56:57 PM  
To: Hook, Lisa <lisa.hook@team.neustar>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>; Naperkoski, Valerie <Valerie.Naperkoski@team.neustar>; Gregory, Liebe <Liebe.Gregory@team.neustar>  
Subject: Re: [EXTERNAL] Re: Friday

Lisa, I am usually at the office by 8.00am. Anytime that works for you.

Thanks,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hook, Lisa <lisa.hook@team.neustar>  
Sent: Thursday, January 18, 2018 11:55:40 AM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney; Naperkoski, Valerie; Gregory, Liebe  
Subject: Re: [EXTERNAL] Re: Friday

Can we move forward to 9?

Lisa A. Hook  
Neustar Inc/ President & Chief Executive Officer  
120 SW 8th Street, Miami FL 33130  
Office: 571.434.5630 Mobile: 202.907.5672  
lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>/www.neustar.biz<http://www.neustar.biz>

On Jan 17, 2018, at 17:26, Antonakakis, Manos <manos@gatech.edu<mailto:manos@gatech.edu>> wrote:

Hey Lisa, absolutely!

My office is at the Klaus Advance Computing Building, 3rd floor, Room 3364. I can send you the visitor parking direction if you will be driving in.

My cell is [REDACTED], in case you need to call me.

Many thanks,

Manos

---  
Typos due to mobile device ...

On Jan 17, 2018, at 20:04, Hook, Lisa <lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>> wrote:

Manos,

I am in Atlanta for meetings on Friday and am wondering if you are in town and free at 9:30 to meet at school. Would love to catch up.

Best,

Lisa

Lisa A. Hook

Neustar, Inc./President and Chief Executive Officer

120 SW 8th Street, Miami, FL 33130

Office: 571/434-5630. Mobile:202/907-5672

Lisa.Hook@team.neustar<mailto:Lisa.Hook@team.neustar>/www.neustar.biz<http://www.neustar.biz>

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Thursday, January 18, 2018 5:04:43 PM  
To: Hook, Lisa <lisa.hook@team.neustar>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>; Naperkoski, Valerie <Valerie.Naperkoski@team.neustar>; Gregory, Liebe <Liebe.Gregory@team.neustar>  
Subject: Re: [EXTERNAL] Re: Friday

Fantastic --- looking forward to it Lisa!

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hook, Lisa <lisa.hook@team.neustar>  
Sent: Thursday, January 18, 2018 12:03:39 PM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney; Naperkoski, Valerie; Gregory, Liebe  
Subject: Re: [EXTERNAL] Re: Friday

Thanks. Will see you at 9! I don't have any agenda -- just want to meet, catch up.

Lisa A. Hook  
Neustar Inc/ President & Chief Executive Officer  
120 SW 8th Street, Miami FL 33130  
Office: 571.434.5630 Mobile: 202.907.5672  
lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>/www.neustar.biz<http://www.neustar.biz>

On Jan 18, 2018, at 08:57, Antonakakis, Manos <manos@gatech.edu<mailto:manos@gatech.edu>> wrote:

Lisa, I am usually at the office by 8.00am. Anytime that works for you.

Thanks,

---

Manos Antonakakis | manos@gatech.edu<<mailto:manos@gatech.edu>>  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hook, Lisa <lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>>  
Sent: Thursday, January 18, 2018 11:55:40 AM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney; Naperkoski, Valerie; Gregory, Liebe  
Subject: Re: [EXTERNAL] Re: Friday

Can we move forward to 9?

Lisa A. Hook  
Neustar Inc/ President & Chief Executive Officer

120 SW 8th Street, Miami FL 33130

Office: 571.434.5630 Mobile: 202.907.5672

[lisa.hook@team.neustar](mailto:lisa.hook@team.neustar) <<mailto:lisa.hook@team.neustar>> <<mailto:lisa.hook@team.neustar>>/[www.neustar.biz](http://www.neustar.biz) <<http://www.neustar.biz>>

On Jan 17, 2018, at 17:26, Antonakakis, Manos

<[manos@gatech.edu](mailto:manos@gatech.edu) <<mailto:manos@gatech.edu>> <<mailto:manos@gatech.edu>> > wrote:

Hey Lisa, absolutely!

My office is at the Klaus Advance Computing Building, 3rd floor, Room 3364. I can send you the visitor parking direction if you will be driving in.

My cell is [REDACTED], in case you need to call me.

Many thanks,

Manos

---

Typos due to mobile device ...

On Jan 17, 2018, at 20:04, Hook, Lisa

<[lisa.hook@team.neustar](mailto:lisa.hook@team.neustar) <<mailto:lisa.hook@team.neustar>> <<mailto:lisa.hook@team.neustar>> > wrote:

Manos,

I am in Atlanta for meetings on Friday and am wondering if you are in town and free at 9:30 to meet at school. Would love to catch up.

Best,

Lisa

Lisa A. Hook

Neustar, Inc./President and Chief Executive Officer

120 SW 8th Street, Miami, FL 33130

Office: 571/434-5630. Mobile:202/907-5672

[Lisa.Hook@team.neustar](mailto:Lisa.Hook@team.neustar) <<mailto:Lisa.Hook@team.neustar>> <<mailto:Lisa.Hook@team.neustar>>/[www.neustar.biz](http://www.neustar.biz) <<http://www.neustar.biz>>

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Friday, December 15, 2017 4:49:57 PM  
To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>; John.Hall@team.neustar  
CC: Carter, Anita M <anita.carter@ece.gatech.edu>; Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Re: [EXTERNAL] RE: Georgia Tech BuzzMart, PO#: 2100362915

Folks, please resolve this problem with John directly. We have made promises (as GT) that we need to keep.

This *\*must be done\** before the end of the year. No excuses --- I do not care how high this needs to get escalated.

Thanks,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Mitchell, Michael F  
Sent: Friday, December 15, 2017 10:47:32 AM  
To: Antonakakis, Manos  
Cc: Carter, Anita M  
Subject: Fw: [EXTERNAL] RE: Georgia Tech BuzzMart, PO#: 2100362915

Hey Manos,

I just wanted to give you a heads up on this.

John hall with Neustar has been asking to have the next iteration of his PO set up for a few weeks now. I have been working with Anita on getting this done, but due to some confusion and a lack of access to the systems I need, it has taken longer than it should have.

I now have the appropriate access and have gotten the requisition to Business services for processing, but it will still take additional time before the PO can be issued, and it will miss the deadline that Neustar wanted.

I am in contact with Teresa Holcomb to work on this and she is aware of it and will do what she can to issue the PO, but it requires certifications and support documentation that will take a little while to pull together. With people starting to leave for extended holiday leave, it just creates a worse delay.

I'm not sure if you want to reach out to John and assure him this will get done, or contact teresa to see if there is any documentation to support it that you could provide (explanation of need, etc.).

This will not be an issue going forward now that I have the access that I need and that I am getting control of all of the business operations.

M

---

From: Mitchell, Michael F  
Sent: Friday, December 15, 2017 10:38 AM  
To: Hall, John  
Cc: Carter, Anita M  
Subject: Re: [EXTERNAL] RE: Georgia Tech BuzzMart, PO#: 2100362915

Hey John,

I just spoke with the contracting officer that will be responsible for this PO. Unfortunately, due to the size, the source of funds (Federal) and holiday breaks for many people, this will most likely not be completed prior to the new year.

Ga Tech business services should be reaching out to you shortly to have several required federal certifications signed to add to the requisition. I am working with them to make sure that all the documents they need are submitted asap from my end, but be prepared to sign and return to them whatever they need quickly if possible.

Again, all I can offer is my apologies for the delays and promise to continue to work diligently on getting this through the process as fast as it will allow. I will speak with Manos about this and see if he can offer any support or "encouragement" to our procurement team to move this through quickly.

Michael.

---

From: Hall, John <John.Hall@team.neustar>  
Sent: Tuesday, December 12, 2017 11:42:04 AM  
To: Mitchell, Michael F  
Cc: Carter, Anita M  
Subject: Re: [EXTERNAL] RE: Georgia Tech BuzzMart, PO#: 2100362915

Hi Michael, I appreciate the note. I'm a little concerned about the timing of this, as we're into the holiday season. We work fairly closely with Manos (on this program and some future interests) and am wondering if asking him to help make this renewal a priority may help you get the process expedited? It will be a pretty major issue for us and our finance processes if we can't recognize this program revenue before 12/18 or 19, and I would sure like to get it done and booked even earlier.

Let m know if you think getting Manos involved would help us move this along.

Many thanks for your time / energy investment here.

VR

John W Hall  
Neustar, Inc. / Sr. Director - Federal Business  
[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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recipient you have received this e-mail message in error and any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately and delete the original message

---

On 12/11/17, 5:00 PM, "Mitchell, Michael F" <michael.mitchell@ece.gatech.edu> wrote:

>Hey John,

>

>I have everything on my end to submit this for issuing the PO. I know the person who usually works on these types of POs and I will get in contact with her and see if we can move this through their process quickly.

>

>Thanks for your help!

>

>MM

>

>-----Original Message-----

>From: Hall, John [<mailto:John.Hall@team.neustar>]

>Sent: Monday, December 11, 2017 12:16 PM

>To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

>Cc: Carter, Anita M <anita.carter@ece.gatech.edu>

>Subject: Re: [EXTERNAL] RE: Georgia Tech BuzzMart, PO#: 2100362915

>

>Hello Michael / Anita, Are you all etc provide an update on your process?

>

>Thanks in advance

>

>John W Hall

>Neustar, Inc. / Sr. Director - Federal Business

>[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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>\_

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>The information contained in this e-mail message is intended only for the use of the recipient(s) named above and may contain confidential and/or privileged information. If you are not the intended recipient you have received this e-mail message in error and any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately and delete the original message

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>>>[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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>>>notify us immediately and delete the original message

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>>>

>>>On 12/7/17, 9:42 AM, "Mitchell, Michael F"

>>><michael.mitchell@ece.gatech.edu> wrote:

>>>

>>>>Good Morning John

>>>>

>>>>First let me start by apologizing for the delay on this. This is  
>>>>something that we should have been able to get this turned around  
>>>>much faster than we have so far. Given my newness to this position I  
>>>>have had some difficulty getting things moving in the right direction  
>>>>and getting this process started. I am working very closely with  
>>>>procurement to get this done.

>>>>

>>>>I will need a new quote for the \$350,000 this year in order to get  
>>>>things approved, since the old quote was only good until 12/01/2016.  
>>>>Once I have that I will be able to work on finalizing the new PO.

>>>>

>>>>Again my deepest apologies for the delay, and just be patient a bit  
>>>>longer so I can get this done.

>>>>

>>>>

>>>>Michael Mitchell

>>>>

>>>>Research Operations Program Manager

>>>>GEORGIA Institute

>>>>of TECH nology

>>>>School of Electrical and Computer Engineering

>>>>777 Atlantic Drive NW

>>>>Atlanta, GA 30332-0765

>>>>

>>>>

>>>>

>>>>-----Original Message-----

>>>>From: Hall, John [<mailto:John.Hall@team.neustar>]

>>>>Sent: Thursday, November 30, 2017 12:26 PM

>>>>To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

>>>>Cc: Carter, Anita M <anita.carter@ece.gatech.edu>

>>>>Subject: Re: [EXTERNAL] RE: Georgia Tech BuzzMart, PO#: 2100362915

>>>>

>>>>Hi Michael - as you can imagine, I am getting inquiries on the

>>>>possibility of booking this order this month. Do you have an update?

>>>>Would a call to Manos improve our probability of getting an order by

>>>>tomorrow?

>>>>

>>>>Sorry to press but would really appreciate your help if there is a way.

>>>>

>>>>Thanks in advance!!

>>>>

>>>>John W Hall

>>>>Neustar, Inc. / Sr. Director - Federal Business

>>>>[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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>>>>The information contained in this e-mail message is intended only for

>>>>the use of the recipient(s) named above and may contain confidential

>>>>and/or privileged information. If you are not the intended recipient

>>>>you have received this e-mail message in error and any review,

>>>>dissemination, distribution, or copying of this message is strictly

>>>>prohibited. If you have received this communication in error, please

>>>>notify us immediately and delete the original message

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>>>>>-----Original Message-----

>>>>From: Hall, John [<mailto:John.Hall@team.neustar>]  
>>>>Sent: Tuesday, November 28, 2017 11:56 AM  
>>>>To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
>>>>Subject: Re: [EXTERNAL] RE: Georgia Tech BuzzMart, PO#: 2100362915

>>>>  
>>>>Hi Michael - Hope you had nice thanksgiving holiday. Thought I'd  
>>>>touch base to check your status on your po process. Is there  
>>>>anything else you need from me? Do you think there is any  
>>>>possibility of getting us the PO this week so we can book it in  
>>>>November?

>>>>  
>>>>Let me know / thanks in advance

>>>>  
>>>>John W Hall  
>>>>Neustar, Inc. / Sr. Director - Federal Business  
>>>>[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

>>>>\_\_\_\_\_

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>>>>original message

>>>>\_\_\_\_\_

>>>>  
>>>>On 11/20/17, 11:03 AM, "Mitchell, Michael F"  
>>>><michael.mitchell@ece.gatech.edu> wrote:

>>>>  
>>>>>Hey John,  
>>>>>  
>>>>>Thanks for getting this to me. The total number is accurate, the  
>>>>>yearly totals are a bit different, but not a big deal.

>>>>>  
>>>>>Based on what I am seeing in our internal accounts we had issued a  
>>>>>PO for \$1,000,000. We have executed and paid for that in full. Now  
>>>>>we need to create and issue a PO for the new amount of \$350,000 per  
>>>>>the outline you provided. Right?

>>>>>  
>>>>>MM  
>>>>>

>>>>>-----Original Message-----

>>>>>From: Hall, John [<mailto:John.Hall@team.neustar>]

>>>>>Sent: Monday, November 20, 2017 10:52 AM

>>>>>To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

>>>>>Subject: FW: Georgia Tech BuzzMart, PO#: 2100362915

>>>>>

>>>>>Hi Michael, Here is the original award email with the two  
>>>>>attachments we discussed. Let me know if you have any questions or  
>>>>>concerns.

>>>>>

>>>>>Thanks in advance!

>>>>>

>>>>>John W Hall

>>>>>Neustar, Inc. / Sr. Director Federal Business

>>>>>[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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>>>>>On 12/22/16, 4:08 PM, "support@sciquest.com" <support@sciquest.com>

>>>>>wrote:

>>>>>

>>>>>>Attached to this email is Purchase Order Number 2100362915 for  
>>>>>>Georgia Institute of Technology. Please note that there may be  
>>>>>>additional supporting documents attached as well.

>>>>>

>>>>>

>>>>

>>>

>>

>

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Thursday, April 12, 2018 8:29:02 PM  
To: Hook, Lisa <lisa.hook@team.neustar>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>; Michael Sussmann <MSussmann@perkinscoie.com>  
Subject: Re: [EXTERNAL] Re: Intro

Lisa, absolutely no problem. :)

We should sync at some point over the phone. Your data have been doing miracles for our national security and the capabilities we are building for the DoD are second to none.

As a LTG said recently in one of our meetings; "we have asked the GT team to build a plan and fly it at the same time". We are able to do this because of the wealth in your datasets.

Many thanks for trusting us with them!

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hook, Lisa <lisa.hook@team.neustar>  
Sent: Thursday, April 12, 2018 2:32:21 PM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney; Michael Sussmann  
Subject: Re: [EXTERNAL] Re: Intro

Yes, see my immediate previous email. I am sorry for creating confusion...

Lisa A. Hook  
Neustar, Inc./President and Chief Executive Officer  
120 SW 8th Street, Miami, FL 33130  
Office: 571/434-5630. Mobile:202/907-5672  
Lisa.Hook@team.neustar/www.neustar.biz

> On Apr 12, 2018, at 12:17 PM, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> Cool.

>

> For the record, let me remind everybody that GT is Neustar's customer with the respect of EA and very soon HACCS programs. This means that we are buying your data so we can conduct research and validate our algorithms. It is only fair to assume that if we find malice in your data we have an ethical responsibility to report it to you. [REDACTED]

>

> We are not (as GT) in business to create services or anything along these lines. Even more important is the fact that any technology transfer (when possible) should take place under the proper technology transition mechanisms provided by GT.

>

> As far as I am concerned, our GT - Neustar contractual obligations begin and ends in the existing data sharing agreements in place.

>

> Thanks, Manos

>  
> ---  
> Typos due to mobile device ...  
>  
>> On Apr 12, 2018, at 12:10, Rodney Joffe <rodney.joffe@team.neustar> wrote:  
>>  
>> After you are done is fine. Michael, when Manos calls, I will add you to the call.  
>>  
>>  
>>> On Apr 12, 2018, at 12:08 PM, Antonakakis, Manos <manos@gatech.edu> wrote:  
>>>  
>>> I land at 14.00. I am on a telephone call with Jason Livingood from Comcast until 14.30, and by then I should be walking into the Darpa building. You need me to call you then or after I am done with my meetings?  
>>>  
>>> ---  
>>> Typos due to mobile device ...  
>>>  
>>>> On Apr 12, 2018, at 12:06, Rodney Joffe <rodney.joffe@team.neustar> wrote:  
>>>>  
>>>> Guys.  
>>>>  
>>>> You are talking at cross purposes.  
>>>>  
>>>> Manos, what time do you land at DCA? I will make sure I can get out of my meeting and talk by phone,  
>>>>  
>>>> Michael, please stand down now.  
>>>>  
>>>>  
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>>>>> On Apr 12, 2018, at 12:04 PM, Antonakakis, Manos <manos@gatech.edu> wrote:  
>>>>>  
>>>>> I am sorry Michael, but I have no idea what you are talking about. Perhaps a call is in order.  
>>>>>  
>>>>> Thanks, Manos  
>>>>>  
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>>>>> Typos due to mobile device ...  
>>>>>  
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>>>>>>  
>>>>>> Manos,  
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>>>>>> Rodney is helping me prepare a proposal and description of the commercial services that you plan to offer in July or thereafter. Rodney is tied up today, but has time to help me this evening. I was merely reaching out to you on the chance that you had some time today to help get started and thereby make my work with Rodney this evening go quicker. I'll connect with Rodney later, and one of us will let you know if we need anything from you in this regard.  
>>>>>>  
>>>>>> Safe travels, and thanks for your responsiveness. I look forward to meeting you.  
>>>>>>  
>>>>>> Michael  
>>>>>>  
>>>>>>  
>>>>>>> On Apr 12, 2018, at 11:53 AM, Rodney Joffe <rodney.joffe@team.neustar> wrote:  
>>>>>>>  
>>>>>>> Hi Manos,  
>>>>>>>  
>>>>>>> Glad to know that you are on your way to DC.





From: Antonakakis, Manos <manos@gatech.edu>  
Sent on: Thursday, April 12, 2018 6:52:48 PM  
To: Rodney Joffe <rjoffe@centergate.com>  
Subject: Re: [EXTERNAL] Re: Intro

If you see this in the next 5 minutes call me.

---  
Typos due to mobile device ...

> On Apr 12, 2018, at 12:34, Rodney Joffe <rjoffe@centergate.com> wrote:

>  
> Manos,  
>  
> Calm down. Take deep breaths.  
>  
> Lisa dn Michael jumped the gun without telling me what they were planning, before I could discuss with you.  
>  
> I UNDERSTAND the situation.  
>  
> This is Lisa confusing Notos and GT and your dual role, which you should have expected.  
>  
> Lets talk when you get done with DARPA.

>  
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>> On Apr 12, 2018, at 12:17 PM, Antonakakis, Manos <manos@gatech.edu> wrote:

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>> Cool.  
>>  
>> For the record, let me remind everybody that GT is Neustar's customer with the respect of EA and very soon HACCS programs. This means that we are buying your data so we can conduct research and validate our algorithms. It is only fair to assume that if we find malice in your data we have an ethical responsibility to report it to you. [REDACTED]  
[REDACTED]

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>>>>>>>> Let's try meet up while you are here, you, me and Michael.  
>>>>>>>>  
>>>>>>>> Then we can talk through everything :-). Better than email.  
>>>>>>>>  
>>>>>>>> What is your DC schedule?  
>>>>>>>>  
>>>>>>>>  
>>>>>>>>> On Apr 12, 2018, at 11:51 AM, Antonakakis, Manos <manos@gatech.edu> wrote:  
>>>>>>>>>  
>>>>>>>>> Lisa, I just boarded a flight to DC, where I will spend the rest of my day with meetings at DARPA. Tomorrow, my entire day will be spent at the HACCS kickoff meeting where I will be presenting the 4 years research agenda of the program.

>>>>>>>

>>>>>>> Michael, nice to meet you. I can get on a call today between 17.00 and 18.00, tomorrow after 20.00 and over the weekend anytime you want. All times are EST.

>>>>>>>

>>>>>>> To be totally honest, I would like to clarify what the request is here as a first step.

\_\_\_\_\_ This is not technology that is related with Neustar — beyond the fact that we used your data.

>>>>>>>

>>>>>>> Could Neustar offer something similar? Sure, since you have the data. :) However, what GT is doing (the technology we are generating) is for the USG (DoD to be precise).

>>>>>>>

>>>>>>> Thanks and hopefully this message clarifies things a bit.

>>>>>>>

>>>>>>> Manos

>>>>>>> ---

>>>>>>> Typos due to mobile device ...

>>>>>>>

>>>>>>> On Apr 12, 2018, at 11:39, Hook, Lisa <lisa.hook@team.neustar> wrote:

>>>>>>>

>>>>>>> Manos meet Michael,

>>>>>>>

>>>>>>> Michael is our longtime outside counsel on national security and other issues. He is working with Rodney on a proposal to provide analytics similar to what you are doing in Australia.

>>>>>>>

>>>>>>> Rodney is closed off right now and Michael needs someone to speak to for more details on the service we provide so he can write up a proposal.

>>>>>>>

>>>>>>> Hoping you two can jump on the phone asap.

>>>>>>>

>>>>>>> Thanks -- Lisa

>>>>>>>

>>>>>>>

>>>>>>> Lisa A. Hook

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>>>>>>> 120 SW 8th Street, Miami FL 33130

>>>>>>> Office: 571.434.5630 Mobile: 202.907.5672 lisa.hook@team.neustar/www.neustar.biz

>>>>>>>

>>>>>>>

>>>>>>> \_\_\_\_\_

>>>>>>>

>>>>>>> NOTICE: This communication may contain privileged or other confidential information. If you have received it in error, please advise the sender by reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

>>>>>

>>>>

>

From: Antonakakis, Manos <manos@gatech.edu>  
Sent on: Thursday, April 12, 2018 4:59:48 PM  
To: Rodney Joffe <rodney.joffe@team.neustar>  
CC: Lisa Hook <lisa.hook@team.neustar>; Michael Sussmann <MSussmann@perkinscoie.com>  
Subject: Re: [EXTERNAL] Re: Intro

Packed really badly.

I can try to escape early today and meet you by the darpa area around 16.00 or after 22.00 at the Arlington Hilton hotel.

Tomorrow I can meet you at the Arlington Hilton hotel 7.00am (or earlier) but I have a hard stop at 8.00am — as I need to head out to DARPA. My flight to Atlanta leaves at 18.00 so, I could probably meet with you at 15.00 outside darpa for an hour just before I head out.

---  
Typos due to mobile device ...

> On Apr 12, 2018, at 11:53, Rodney Joffe <rodney.joffe@team.neustar> wrote:

>  
> Hi Manos,  
>  
> Glad to know that you are on your way to DC.  
>  
> Let's try meet up while you are here, you, me and Michael.  
>  
> Then we can talk through everything :-). Better than email.  
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> What is your DC schedule?

>  
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>> Michael, nice to meet you. I can get on a call today between 17.00 and 18.00, tomorrow after 20.00 and over the weekend anytime you want. All times are EST.

>>  
>> To be totally honest, I would like to clarify what the request is here as a first step. [REDACTED]  
[REDACTED] This is not technology that is related with Neustar — beyond the fact that we used your data.

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>> Could Neustar offer something similar? Sure, since you have the data. :) However, what GT is doing (the technology we are generating) is for the USG (DoD to be precise).

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>>> Office: 571.434.5630 Mobile: 202.907.5672 [lisa.hook@team.neustar.com](mailto:lisa.hook@team.neustar.com)/[www.neustar.biz](http://www.neustar.biz)

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Sent on: Thursday, April 12, 2018 8:32:35 PM  
To: Rodney Joffe <rjoffe@centergate.com>  
Subject: Re: [EXTERNAL] Re: Intro

Back online. Call me anytime before 17.30.

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

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Sent: Thursday, April 12, 2018 1:52:48 PM  
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> Calm down. Take deep breaths.  
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[REDACTED]

This is not

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>>>>>>>>

>>>>>>>> NOTICE: This communication may contain privileged or other confidential information. If you have received it in error, please advise the sender by reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Thursday, April 26, 2018 8:55:29 PM  
To: Hall, John <John.Hall@team.neustar>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Re: [EXTERNAL] Re: Ip Intelligence for HACCS

OK, John.

It looks counterintuitive to me for this to go through GT, because of the overhead. This was the main reason (according to the BAA) why DARPA wanted the data quotes \*outside\* our budget --- so they will not have to pay any overhead.

Thanks,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hall, John <John.Hall@team.neustar>  
Sent: Thursday, April 26, 2018 3:19:48 PM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney  
Subject: Re: [EXTERNAL] Re: Ip Intelligence for HACCS

Hi Manos - I've been on calls and wasn't able to call you at 2. I understand the rationale behind the overhead. Let me check with the HACCS folks and see how they feel about this and I'll get back to you.

Thanks

John W Hall  
Neustar, Inc. / Sr. Director - Federal Business  
[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

---

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On 4/26/18, 1:30 PM, "Antonakakis, Manos" <manos@gatech.edu> wrote:

>Sure John, you can call me on the top of the hour.

>

>Happy to help you out in any way I can. However, is DARPA aware that GT  
>will need a 56% overhead on this, that is in order for you to get these  
>\$3M, I will need to come up with an add-on for HACCS and a budget that is  
>in the order of ~\$5.7M (just for this add-on)?

>

>Are they OK with this?

>

><

>Manos Antonakakis | manos@gatech.edu

>Georgia Institute of Technology

>FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

>

>

>\_\_\_\_\_

>From: Hall, John <John.Hall@team.neustar>

>Sent: Thursday, April 26, 2018 1:25:40 PM

>To: Antonakakis, Manos

>Cc: Joffe, Rodney

>Subject: Ip Intelligence for HACCS

>

>Hello Manos,

>We were recently in with the HACCS Team in Arlington. We discussed a  
>number of things, including strategies for procuring Neustar IP  
>Intelligence for the program. Since we already have a contractual  
>relationship with GTRC, we think that it would be ideal to work with your  
>organization to fulfill this requirement. At a high level, we<sup>1</sup>re  
>proposing an unlimited 1 year license @ an annual subscription cost of  
>\$3M. Let me know when you have a few minutes to discuss or if you<sup>1</sup>d like  
>to delegate to your contracts team.

>

>Thanks in advance

>

>

>

>John W Hall

>Neustar, Inc. / Sr. Director - Federal Business

>[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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>original message

>\_\_\_\_\_

>

>

**From:** <raid16chairs@cs.unc.edu>

**Sent on:** Thursday, July 7, 2016 10:07:37 PM

**To:** Antonakakis, Manos<manos@gatech.edu>; Kountouras, Athanasios<kountouras@gatech.edu>; Nadji, Yacin I<yacin@gatech.edu>; Kintis, Panagiotis<kintis@gatech.edu>; Lever, Charles C<clever3@gatech.edu>; Chen, Yizheng<yzchen@gatech.edu>; Yacin Nadji<yacin@netrisk.io>; David Dagon<dagon@sudo.sh>

**Subject:** [RAID2016] Updated final paper #71 "Enabling Network Security Through Active..."

The final version for paper #71 has been updated at the 19th International Symposium on Research in Attacks, Intrusions and Defenses (RAID2016) submissions site.

Title: Enabling Network Security Through Active DNS Datasets

Authors: Athanasios Kountouras (Georgia Institute of Technology)

Panagiotis Kintis (Georgia Institute of Technology)

Chaz Lever (Georgia Institute of Technology)

Yizheng Chen (Georgia Institute of Technology)

Yacin Nadji (Netrisk)

David Dagon (Georgia Institute of Technology)

Manos Antonakakis (Georgia Institute of Technology)

Rodney Joffe (Neustar)

Paper site: <https://raid2016.cs.unc.edu/papers/paper.php/71?cap=071aWDl-MnfZupA>

You have until 8 Jul 2016 5pm EDT to make further changes.

Contact Program Chairs <raid16chairs@cs.unc.edu> with any questions or concerns.

- RAID2016 Submissions

**From:** Antonakakis, Manos<fvirgil6@gatech.edu> on behalf of Antonakakis, Manos

**Sent on:** Monday, February 18, 2019 2:17:24 AM

**To:** Joffe, Rodney<Rodney.Joffe@team.neustar>

**Subject:** Accepted: Confirmed: GA Tech/Neustar Briefing/Presentation/Discussion

**From:** Antonakakis, Manos<fvirgil6@gatech.edu> on behalf of Antonakakis, Manos

**Sent on:** Monday, February 18, 2019 2:17:23 AM

**To:** Joffe, Rodney<Rodney.Joffe@team.neustar>

**Subject:** Accepted: Dinner, Kyma Greek Restaurant

**From:** <antonakakis@gmail.com> on behalf of Manos Antonakakis<manos@gatech.edu>  
**Sent on:** Wednesday, August 10, 2016 11:56:13 AM  
**To:** Roberts, Kristen N<kp138@gatech.edu>; Joffe, Rodney<Rodney.Joffe@neustar.biz>  
**Subject:** DARPA - EA Sub: Neustar

Hey Kristen,

Please meet Rodney. Rodney, Kristen is my great financial admin.

Kristen, Rodney can help you with all necessary details you might need for OSP.

For Neustar, will have the following yearly breakdown:

Y1: \$1M  
Y2: \$300K  
Y3: \$250K  
Y4: \$250K  
Y5: \$125K

The SOW have been structured in such away that will reflect this distribution of funds. One special thing with Neustar is the following. It would be ideal if we can have a PO from them by 30th of September. This is something that we should try very hard to do.

Rodney, please help Kristen with any information she might need from Neustar in order to have you formally in the GT systems as a vendor.

Cheers,

Manos

**From:** [REDACTED] on behalf of Manos Antonakakis<manos@gatech.edu>  
**Sent on:** Wednesday, August 10, 2016 11:56:13 AM  
**To:** Roberts, Kristen N<kp138@gatech.edu>; Joffe, Rodney<Rodney.Joffe@neustar.biz>  
**Subject:** DARPA - EA Sub: Neustar

Hey Kristen,

Please meet Rodney. Rodney, Kristen is my great financial admin.

Kristen, Rodney can help you with all necessary details you might need for OSP.

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Rodney, please help Kristen with any information she might need from Neustar in order to have you formally in the GT systems as a vendor.

Cheers,

Manos



**From:** Antonakakis, Manos<fvirgil6@gatech.edu> on behalf of Antonakakis, Manos

**Sent on:** Thursday, June 28, 2018 2:06:49 AM

**To:** Joffe, Rodney<Rodney.Joffe@team.neustar>

**Subject:** Declined: Placeholder, Meeting and Dinner with Lisa Hook and Manos Antonokakis

Microsoft Exchange Server;converted from html;

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, August 23, 2018 3:53:38 PM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>  
**BCC:** Joffe, Rodney<Rodney.Joffe@team.neustar>; Chen, Tim<tim@domaintools.com>; Dan Durrer<dan@klondikedata.com>; carel@spamhaus.org  
**Subject:** EA project 2019 POs

Gents,

Please have your financial people reach out to my financial administrator Michael so we can set up and finalize the 2019 PO for your data/services. I would like to get this done before December so we can avoid any last minute issues.

Many thanks for helping us out in this project!

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, February 22, 2019 1:02:56 PM  
**To:** Rodney Joffe<rjoffe@centergate.com>; Joffe, Rodney<Rodney.Joffe@team.neustar>  
**CC:** Ian Crone<ian.crone@darpa.mil>; Schneck, Christopher (contr-i2o)<christopher.schneck.ctr@darpa.mil>  
**Subject:** E-introductions: Neustar --- new EA PM

Hey Rodney,

I am very happy to announce that we now have a new Program Manager (PM) for the EA project. Mr. Ian Crone will be leading the program from this point on, and Mr. Chris Schneck will be helping him out.

All of us think that it would be great if the new PM team meets (in a virtual or physical meeting) with you and talk about the datasets you have been providing in support of my effort in this project. I do not have to be part of this meeting, because my schedule is too busy and I will simply slow things down. You should work directly with the Chris and Ian and set the meeting up.

Many thanks,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Tuesday, February 12, 2019 12:35:25 PM  
**To:** Keromytis, Angelos D<angelos@gatech.edu>  
**Subject:** Fw: Neustar Executive Visit to PI meeting March 8th

FYI-

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Antonakakis, Manos  
Sent: Monday, February 11, 2019 11:10 PM  
To: Rodney Joffe; Christopher Schneck  
Subject: Re: Neustar Executive Visit to PI meeting March 8th

Thanks you Rodney for the email.

For you guys to attend the site visit I will need to get the green light from Chris. Chris, can you please check and let us know if you have any issues with this?

Thanks, Manos

---  
Typos due to mobile device ...

> On Feb 11, 2019, at 21:06, Rodney Joffe <rodney.joffe@team.neustar> wrote:

>

> Hello Manos,

>

> As you know Neustar has been very involved in developing and improving our ability to provide capabilities and resources for you based on the apparent success of your EA and HACCS programs, using our data.

>

> As a result, I wonder if it would be possible for me, our CEO Charlie Gottdiener, Venkat Achanta, our Chief Data Officer, and Adm. (Ret) Mike Mullen (past Chairman of the Joint Chiefs) who is a board director of our data subsidiary to visit you during the PI day on March 8th?

>

> I think it would be extremely beneficial for my colleagues to see and understand the impact of our efforts, and to realize just how much of a difference we can make to the country's National Security efforts through GA Tech.

>

> They all obviously understand the sensitivity of the PI briefing and meeting, and would respect and sign whatever attendee documents are required of other sub-contractors on your program.

>

> Respectfully

>

> Rodney

>

> =====

> Rodney Joffe

> SVP, Senior Technologist, and Fellow

> National Security Executive

> Neustar, Inc.

> 21575 Ridgetop Circle

> Sterling VA 20166

> USA

> +1 202-533-2900 Direct

> +1 602-418-6471 Cell

> rodney.joffe@team.neustar

>

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, February 15, 2019 1:22:11 PM  
**To:** Keromytis, Angelos D<angelos@gatech.edu>  
**Subject:** Fw: Neustar Executive Visit to PI meeting March 8th

fyi-

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Schneck, Christopher (contr-i2o) <christopher.schneck.ctr@darpa.mil>  
Sent: Friday, February 15, 2019 8:05 AM  
To: Antonakakis, Manos; rodney.joffe@team.neustar  
Cc: Crone, Ian  
Subject: RE: Neustar Executive Visit to PI meeting March 8th

Rodney,

Unfortunately, site visits are reserved for the DARPA team and the performer only. Site visits are an opportunity for the PM to critique (if necessary) the performer's work and it is not appropriate for vendors/subcontractors to attend these visits. In addition, a lot of times sensitive information from case studies, that our transition partners have provided, are presented and discussed.

The PM, Ian Crone, needs to have a separate discussion with Manos and the GT team, but he would like to meet with your organization and is happy to have a sidebar meeting with them in Atlanta if you want to go down there (to meet with Manos separately) or to meet with you locally here in DC.

V/r,

Chris Schneck  
DARPA I2O SETA  
571-218-4429 (office)  
571-524-3821 (cell)  
[REDACTED]

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

From: Antonakakis, Manos <manos@gatech.edu>  
Sent: Monday, February 11, 2019 11:10 PM  
To: Rodney Joffe <rodney.joffe@team.neustar>; Schneck, Christopher (contr-i2o) <christopher.schneck.ctr@darpa.mil>  
Subject: Re: Neustar Executive Visit to PI meeting March 8th

Thanks you Rodney for the email.

For you guys to attend the site visit I will need to get the green light from Chris. Chris, can you please check and let us know if you have any issues with this?

Thanks, Manos

---  
Typos due to mobile device ...

> On Feb 11, 2019, at 21:06, Rodney Joffe <rodney.joffe@team.neustar> wrote:  
>  
> Hello Manos,  
>

> As you know Neustar has been very involved in developing and improving our ability to provide capabilities and resources for you based on the apparent success of your EA and HACCS programs, using our data.

>

> As a result, I wonder if it would be possible for me, our CEO Charlie Gottdiener, Venkat Achanta, our Chief Data Officer, and Adm. (Ret) Mike Mullen (past Chairman of the Joint Chiefs) who is a board director of our data subsidiary to visit you during the PI day on March 8th?

>

> I think it would be extremely beneficial for my colleagues to see and understand the impact of our efforts, and to realize just how much of a difference we can make to the country's National Security efforts through GA Tech.

>

> They all obviously understand the sensitivity of the PI briefing and meeting, and would respect and sign whatever attendee documents are required of other sub-contractors on your program.

>

> Respectfully

>

> Rodney

>

> =====

> Rodney Joffe

> SVP, Senior Technologist, and Fellow

> National Security Executive

> Neustar, Inc.

> 21575 Ridgetop Circle

> Sterling VA 20166

> USA

> +1 202-533-2900 Direct

> +1 602-418-6471 Cell

> rodney.joffe@team.neustar

>

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Saturday, January 25, 2020 1:44:20 PM  
**To:** Schneck, Christopher (contr-i2o)<christopher.schneck.ctr@darpa.mil>  
**Subject:** Fw: Quick catch up with Neustar

FYI-

---

Manos Antonakakis | Associate Professor | manos@gatech.edu  
School of Electrical and Computer Engineering  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Antonakakis, Manos  
Sent: Friday, January 24, 2020 3:35 PM  
To: Christopher Schneck; Rodney Joffe  
Cc: Ian Crone  
Subject: Quick catch up with Neustar

Hey Chris,

As I explained in the DHS-related email I got the green light to use the NSR and PF data from Vic and Rodney. Rodney was asking about the long term plan for the Neustar data as far as the government is concerned. While I can answer this question from the lenses of GT and my private ventures I cannot answer this on behalf of the USG.

Perhaps, you (I know Ian is busy) can you get on call with Rodney and explain to him what the long term plan is?

Thanks!

Manos



Lisa A. Hook

Neustar, Inc./President and Chief Executive Officer

120 SW 8th Street, Miami, FL 33130

Office: 571/434-5630. Mobile [REDACTED]

[Lisa.Hook@team.neustar](mailto:Lisa.Hook@team.neustar)<mailto:Lisa.Hook@team.neustar>/[www.neustar.biz](http://www.neustar.biz)<http://www.neustar.biz>

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, January 18, 2018 5:04:43 PM  
**To:** Hook, Lisa<lisa.hook@team.neustar>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>; Naperkoski, Valerie<Valerie.Naperkoski@team.neustar>; Gregory, Liebe<Liebe.Gregory@team.neustar>  
**Subject:** Re: [EXTERNAL] Re: Friday

Fantastic --- looking forward to it Lisa!

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

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From: Hook, Lisa <lisa.hook@team.neustar>  
Sent: Thursday, January 18, 2018 12:03:39 PM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney; Naperkoski, Valerie; Gregory, Liebe  
Subject: Re: [EXTERNAL] Re: Friday

Thanks. Will see you at 9! I don't have any agenda -- just want to meet, catch up.

Lisa A. Hook  
Neustar Inc/ President & Chief Executive Officer  
120 SW 8th Street, Miami FL 33130  
Office: 571.434.5630 Mobile: 202.907.5672  
lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>/www.neustar.biz<http://www.neustar.biz>

On Jan 18, 2018, at 08:57, Antonakakis, Manos <manos@gatech.edu<mailto:manos@gatech.edu>> wrote:

Lisa, I am usually at the office by 8.00am. Anytime that works for you.

Thanks,

---

Manos Antonakakis | manos@gatech.edu<mailto:manos@gatech.edu>  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hook, Lisa <lisa.hook@team.neustar<mailto:lisa.hook@team.neustar>>  
Sent: Thursday, January 18, 2018 11:55:40 AM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney; Naperkoski, Valerie; Gregory, Liebe  
Subject: Re: [EXTERNAL] Re: Friday

Can we move forward to 9?

Lisa A. Hook  
Neustar Inc/ President & Chief Executive Officer  
120 SW 8th Street, Miami FL 33130  
Office: 571.434.5630 Mobile: [REDACTED]  
lisa.hook@team.neustar<mailto:lisa.hook@team.neustar><mailto:lisa.hook@team.neustar>/www.neustar.biz<http://www.n

On Jan 17, 2018, at 17:26, Antonakakis, Manos

<manos@gatech.edu<mailto:manos@gatech.edu><mailto:manos@gatech.edu>> wrote:

Hey Lisa, absolutely!

My office is at the Klaus Advance Computing Building, 3rd floor, Room 3364. I can send you the visitor parking direction if you will be driving in.

My cell is [REDACTED] in case you need to call me.

Many thanks,

Manos

---

Typos due to mobile device ...

On Jan 17, 2018, at 20:04, Hook, Lisa

<lisa.hook@team.neustar<mailto:lisa.hook@team.neustar><mailto:lisa.hook@team.neustar>> wrote:

Manos,

I am in Atlanta for meetings on Friday and am wondering if you are in town and free at 9:30 to meet at school. Would love to catch up.

Best,

Lisa

Lisa A. Hook

Neustar, Inc./President and Chief Executive Officer

120 SW 8th Street, Miami, FL 33130

Office: 571/434-5630. Mobile [REDACTED]

Lisa.Hook@team.neustar<mailto:Lisa.Hook@team.neustar><mailto:Lisa.Hook@team.neustar>/www.neustar.biz<http://ww

Microsoft Exchange Server;converted from html;

**From:** Roberts, Kristen N<fvirgil6@gatech.edu> on behalf of Roberts, Kristen N

**Sent on:** Wednesday, August 10, 2016 12:27:42 PM

**To:** Antonakakis, Manos<manos@gatech.edu>; Joffe, Rodney<Rodney.Joffe@neustar.biz>

**Subject:** Re: DARPA - EA Sub: Neustar

**From:** Rodney Joffe<rodney.joffe@neustar.biz>  
**Sent on:** Thursday, August 11, 2016 10:36:16 PM  
**To:** Roberts, Kristen N<kp138@gatech.edu>  
**CC:** Antonakakis, Manos<manos@gatech.edu>  
**Subject:** Re: DARPA - EA Sub: Neustar

Hello Kristen,

I'm glad to meet with you and looking forward to getting the paperwork handled. And I'm also glad that Manos allowed us to be part of the project. Let me know when you're ready :-)

> On Aug 10, 2016, at 8:27 AM, Roberts, Kristen N <kristen.roberts@ece.gatech.edu> wrote:

>

> Hi Manos,

>

> Thank you for the kind introduction.

>

> Rodney, it is a pleasure to meet you and congratulations on this grand award! I am working with our contracting specialist to confirm which forms are needed to have Neustar set-up efficiently for the start of this project. I will do my best to have the subaward paperwork and PO entered by 9/30, but please note this timeline is dependent upon execution of the main project from DARPA in OSP.

>

> I look forward to working with you on this project. Please let me know if you need any additional information.

>

> Best,

> Kristen

>

>

>

> \_\_\_\_\_  
> Kristen Roberts

> Financial Administrator III

> Georgia Institute of Technology

> School of Electrical & Computer Engineering

> 266 Ferst Drive, Atlanta, GA 30332-0250

> KACB-Rm 3352

> Ph: 404.385.6485

> Email: Kristen.roberts@ece.gatech.edu

>

>

>

> From: [REDACTED] on behalf of Manos Antonakakis <manos@gatech.edu>

> Sent: Wednesday, August 10, 2016 7:56 AM

> To: Roberts, Kristen N; Joffe, Rodney

> Subject: DARPA - EA Sub: Neustar

>

> Hey Kristen,

>

> Please meet Rodney. Rodney, Kristen is my great financial admin.

>

> Kristen, Rodney can help you with all necessary details you might need for OSP.

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> distribution of funds. One special thing with Neustar is the  
> following. It would be ideal if we can have a PO from them by 30th of  
> September. This is something that we should try very hard to do.  
>  
> Rodney, please help Kristen with any information she might need from  
> Neustar in order to have you formally in the GT systems as a vendor.  
>  
> Cheers,  
>  
> Manos

Microsoft Exchange Server;converted from html;

**From:** Roberts, Kristen N<fvirgil6@gatech.edu> on behalf of Roberts, Kristen N

**Sent on:** Tuesday, September 6, 2016 2:46:31 PM

**To:** Rodney Joffe<rodney.joffe@neustar.biz>

**CC:** Antonakakis, Manos<manos@gatech.edu>

**Subject:** Re: DARPA - EA Sub: Neustar

Microsoft Exchange Server;converted from html;

**From:** Travis, Elan<Elan.travis@osp.gatech.edu>  
**Sent on:** Monday, September 19, 2016 2:54:08 PM  
**To:** Roberts, Kristen N<kp138@gatech.edu>  
**Subject:** RE: Draft/sample subcontract

You are welcome! Let me know if you need anything else. Have a great day!

**Élan Travis**

Contracting Specialist

**Georgia Institute of Technology | GTRC-** Office of Sponsored Programs

404.385-3645

[elan.travis@osp.gatech.edu](mailto:elan.travis@osp.gatech.edu)

---

**From:** Roberts, Kristen N [mailto:kristen.roberts@ece.gatech.edu]

**Sent:** Monday, September 19, 2016 7:58 AM

**To:** Travis, Elan <Elan.travis@osp.gatech.edu>

**Subject:** Re: Draft/sample subcontract

**From:** Travis, Elan <[HYPERLINK "mailto:Elan.travis@osp.gatech.edu" Elan.travis@osp.gatech.edu](mailto:Elan.travis@osp.gatech.edu)>

**Sent:** Friday, September 16, 2016 4:43 PM

**To:** 'rodney.joffe@neustar.biz'

**Cc:** Antonakakis, Emmanouil K; Roberts, Kristen N

**Subject:** Draft/sample subcontract

Kristen Roberts in Georgia Techs School of Electrical and Computer Engineering asked me to provide you with a draft subcontract. I have attached the draft template, please know that depending on the prime awards terms this may change with items being removed and/or added.

Please feel free to contact my if you have any questions or concerns.

**Élan Travis**

Contracting Specialist

**Georgia Institute of Technology | GTRC**

Office of Sponsored Programs

505 Tenth Street, Atlanta GA 30332-0420

404.385-3645 p | 404.894.5945 f | [elan.travis@osp.gatech.edu](mailto:elan.travis@osp.gatech.edu)





**From:** <antonakakis@gmail.com> on behalf of Manos Antonakakis<manos@gatech.edu>  
**Sent on:** Friday, September 16, 2016 8:51:45 PM  
**To:** Travis, Elan<Elan.travis@osp.gatech.edu>  
**CC:** rodney.joffe@neustar.biz; Roberts, Kristen N<kp138@gatech.edu>  
**Subject:** Re: Draft/sample subcontract

Microsoft Exchange Server;converted from html;  
Many thanks Elan and Kristen!

Manos

On Fri, Sep 16, 2016 at 4:43 PM, Travis, Elan <[HYPERLINK "mailto:Elan.travis@osp.gatech.edu" Elan.travis@osp.gatech.edu](mailto:Elan.travis@osp.gatech.edu)> wrote:

Good Afternoon Rodney,

Kristen Roberts in Georgia Techs School of Electrical and Computer Engineering asked me to provide you with a draft subcontract. I have attached the draft template, please know that depending on the prime awards terms this may change with items being removed and/or added.

Please feel free to contact my if you have any questions or concerns.

**Élan Travis**

Contracting Specialist

**Georgia Institute of Technology | GTRC**

Office of Sponsored Programs

505 Tenth Street, Atlanta GA 30332-0420

404.385-3645 p | 404.894.5945 f | [elan.travis@osp.gatech.edu](mailto:elan.travis@osp.gatech.edu)



**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, January 18, 2018 1:26:48 AM  
**To:** Hook, Lisa<lisa.hook@team.neustar>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Re: Friday

Hey Lisa, absolutely!

My office is at the Klaus Advance Computing Building, 3rd floor, Room 3364. I can send you the visitor parking direction if you will be driving in.

My cell is [REDACTED], in case you need to call me.

Many thanks,

Manos

---

Typos due to mobile device ...

> On Jan 17, 2018, at 20:04, Hook, Lisa <lisa.hook@team.neustar> wrote:

>

> Manos,

>

> I am in Atlanta for meetings on Friday and am wondering if you are in town and free at 9:30 to meet at school. Would love to catch up.

>

> Best,

>

> Lisa

>

> Lisa A. Hook

> Neustar, Inc./President and Chief Executive Officer

> 120 SW 8th Street, Miami, FL 33130

> Office: 571/434-5630. Mobile:202/907-5672

> Lisa.Hook@team.neustar/www.neustar.biz

>

Sent: Tuesday, June 7, 2016 10:23:14 AM

To: Antonakakis, Emmanouil K; Roberts, Kristen N;

From: Joffe, Rodney, Kristen N <kristen.roberts@ece.gatech.edu> on behalf of Roberts, Kristen N

Subject: Re: Letter re: Darpa bid  
Sent on: Tuesday, June 7, 2016 2:27:37 PM

To: Hayman, Denise <Denise.Hayman@neustar.biz>; Antonakakis, Emmanouil K <manos@gatech.edu>

CC: Joffe, Rodney <Rodney.Joffe@neustar.biz>

Subject: Re: Letter re: Darpa bid

Hi Manos - I'm traveling in the Uk - sorry for the delay

Here you go. Two formats I can't get the .pdf one too look right so sending you both so you have them

Denise Hayman

Neustar, Inc. / VP Global Security Sales

Office: 415.590.4618 / Mobile: 415.214.5088

denise.hayman@neustar.biz / [HYPERLINK "http://www.neustar.biz" www.neustar.biz](http://www.neustar.biz)

<applewebdata://BE8398A2-2BCB-4EC0-9CC7-195CDDBAABBBD/www.neustar.biz>

Twitter: @ <[HYPERLINK "https://twitter.com/lisajoyrosner" https://twitter.com/lisajoyrosner](https://twitter.com/lisajoyrosner)>denisedeshayman/ LinkedIn:

[HYPERLINK "https://www.linkedin.com/in/denisehayman" https://www.linkedin.com/in/denisehayman](https://www.linkedin.com/in/denisehayman)

On 6/6/16, 7:35 PM, [REDACTED] on behalf of Manos Antonakakis"

[REDACTED] on behalf of manos@gatech.edu> wrote:

>Hey Denise,

>

>We got a push back on the format of your quote. Can you please make

>sure you quote is visible in a single page? Please send this to

>Kristen directly, as we are running out of time.

>

>Also, please make sure that the quote date is valid until the "start

>date" of our project (hopefully we get awarded). That date is,

>11/30/2016.

>

>Many thanks,

>

>Manos

>

>On Thu, Jun 2, 2016 at 12:27 PM, Hayman, Denise

><Denise.Hayman@neustar.biz> wrote:

>> Hi Manos - please find the attached letter in regards to our

>>Darpa/Neustar

>> bid

>>

>>

>>

>>

>> Denise Hayman

>>

>> Neustar, Inc. / VP Global Security Sales

>> Office: 415.590.4618 / Mobile: 415.214.5088

>>

>> denise.hayman@neustar.biz / [HYPERLINK "http://www.neustar.biz" www.neustar.biz](http://www.neustar.biz)

>>

>> Twitter: @denisedeshayman/ LinkedIn:

>>

>> [HYPERLINK "https://urldefense.proofpoint.com/v2/url?u=https-3A\\_www.linkedin.com in "](https://urldefense.proofpoint.com/v2/url?u=https-3A_www.linkedin.com_in_)

[https://urldefense.proofpoint.com/v2/url?u=https-3A\\_www.linkedin.com in](https://urldefense.proofpoint.com/v2/url?u=https-3A_www.linkedin.com_in_)

>>denisehayman&d=DQIFaQ&c=MOptNIVtIETeDALC\_IULrw&r=Ssky-JxSDKI4VwCXe5b2hufm

>>xpzETk3xniCgFiXJiyw&m=jcM2y4yvd80lsGfCwAs6NC9C1J5gqvcjxeQxlm8CDkE&s=k3dZJ

>>9ZUo-BbCf7MSf3I7eyKHjyltDRCqSks6PDgu0&e=

>>

>>

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, September 7, 2018 2:52:58 AM  
**To:** Rodney Joffe<rjoffe@centergate.com>  
**Subject:** Re: Touch base

I was not planing to, because that is the only hard facts I have.

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Rodney Joffe <rjoffe@centergate.com>  
Sent: Thursday, September 6, 2018 10:50:48 PM  
To: Antonakakis, Manos  
Subject: Re: Touch base

DONT TELL HIM ANYTHING DIFFERENT TO ANGELOS After Oct 1 new fiscal year.

> On Sep 6, 2018, at 10:35 PM, Antonakakis, Manos <manos@gatech.edu> wrote:

>  
> Venkat, nothing official at the moment. We are in waiting mode. If you want some unofficial news, you can give me a quick call.

>  
> Thanks,

>  
> —  
> Manos Antonakakis | manos@gatech.edu  
> Georgia Institute of Technology  
> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

>  
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> 

---

  
> From: Achanta, Venkat <Venkat.Achanta@team.neustar>  
> Sent: Thursday, September 6, 2018 10:30:34 PM  
> To: Antonakakis, Manos  
> Cc: Joffe, Rodney  
> Subject: Touch base

>  
> Manos,  
>  
> Do you have any other information from DARPA program managers chasing possible path for this fiscal funding ?

>  
> Thank you.

>  
> Venkat.

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Friday, September 7, 2018 2:35:31 AM  
**To:** Achanta, Venkat<Venkat.Achanta@team.neustar>  
**CC:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Re: Touch base

Venkat, nothing official at the moment. We are in waiting mode. If you want some unofficial news, you can give me a quick call.

Thanks,

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Achanta, Venkat <Venkat.Achanta@team.neustar>  
Sent: Thursday, September 6, 2018 10:30:34 PM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney  
Subject: Touch base

Manos,

Do you have any other information from DARPA program managers chasing possible path for this fiscal funding ?

Thank you.

Venkat.

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>>

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>>>

>>> Venkat, nothing official at the moment. We are in waiting mode. If you want some unofficial news, you can give me a quick call.

>>>

>>> Thanks,

>>>

>>> —

>>> Manos Antonakakis | manos@gatech.edu

>>> Georgia Institute of Technology

>>> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

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>>>

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>>> From: Achanta, Venkat <Venkat.Achanta@team.neustar>

>>> Sent: Thursday, September 6, 2018 10:30:34 PM

>>> To: Antonakakis, Manos

>>> Cc: Joffe, Rodney

>>> Subject: Touch base

>>>

>>> Manos,

>>>

>>> Do you have any other information from DARPA program managers chasing possible path for this fiscal funding ?

>>>

>>> Thank you.

>>>

>>> Venkat.

>>

>

**From:** Antonakakis, Manos<manos@gatech.edu> on behalf of Antonakakis, Manos  
**Sent on:** Thursday, August 2, 2018 8:07:25 PM  
**To:** Hook, Lisa<lisa.hook@team.neustar>; Joffe, Rodney<Rodney.Joffe@team.neustar>  
**CC:** Keromytis, Angelos D CIV DARPA (US)<angelos.keromytis@darpa.mil>  
**Subject:** Regarding HACCS

Hey Lisa,

I would like to reiterate that I take full responsibility for the HACCS delay. The ECP (contract modification) between GT and DARPA takes time we are in the process of finalize this modification. At the same time, I would like to have Angelos relay the status of everything we are doing (HACCS and EA) in person --- especially if Charlie is available for a meeting. My understanding is that Angelos would be more than happy to swing by your offices.

Many thanks,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668



> On Jul 17, 2018, at 2:28 PM, Mitchell, Michael F <michael.mitchell@ec  
> e.gatech.edu <mailto:michael.mitchell@ece.gatech.edu <mailto:michael.m  
> itchell@ece.gatech.edu%3cmailto:michael.mitchell@ece.gatech.edu <mailt  
> o:michael.mitchell@ece.gatech.edu%3cmailto:michael.mitchell@ece.gatec  
> h.edu%20%3cmailto:michael.mitchell@ece.gatech.edu%3cmailto:michael.mi  
> tchell@ece.gatech.edu>> >> wrote:

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> Hey Tom and Allison,

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>

> Ive had both Neustar and Enemies list reach out to me for updates on  
> the HACCS program. They are eager to begin work on this project with  
> Georgia Tech. Can you provide an estimate on when this addendum  
> might be executed, or where in the process things are currently?

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> Thanks!

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> Michael Mitchell

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> Research Operations Program Manager

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> GEORGIA Institute

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>

> of TECH nology

Tom

On Jul 17, 2018, at 2:28 PM, Mitchell, Michael F  
<[michael.mitchell@ece.gatech.edu](mailto:michael.mitchell@ece.gatech.edu)<<mailto:michael.mitchell@ece.gatech.edu> <  
<mailto:michael.mitchell@ece.gatech.edu%3cmichael.mitchell@ece.gatech.edu><<mailto:michael.mitchell@ece.gatech.edu>  
>> >> wrote:

Hey Tom and Allison,

I've had both Neustar and Enemies list reach out to me for updates on the HACCS program. They are eager to begin work on this project with Georgia Tech. Can you provide an estimate on when this addendum might be executed, or where in the process things are currently?

Thanks!

Michael Mitchell

Research Operations Program Manager

GEORGIA Institute

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Thursday, August 30, 2018 9:47:49 PM  
To: Riley, Theresa <Theresa.Riley@team.neustar>; Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Re: Availability for tomorrow with Venkat

Theresa, I can do 15.00-16.00 ET tomorrow.

Thanks,

—

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Riley, Theresa <Theresa.Riley@team.neustar>  
Sent: Thursday, August 30, 2018 4:46:34 PM  
To: Antonakakis, Manos; Joffe, Rodney  
Subject: Availability for tomorrow with Venkat

Good afternoon gentlemen. Venkat would like to have a call either from 2:00 – 3:00 p.m. Eastern or 3:00 – 4:00 p.m. Eastern. Would you be able to accommodate either of those times tomorrow?

Please let me know and I will send out a calendar invite.

Thanks,  
Theresa

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Tuesday, June 19, 2018 10:22:26 PM  
To: Smith, Jonathan <jonathan.smith@darpa.mil>; Keromytis, Angelos <angelos.keromytis@darpa.mil>  
CC: Schneck, Christopher (contr-i2o) <christopher.schneck.ctr@darpa.mil>  
Subject: Re: Centrulink data

Both DNS and Netflow from them will be a goldmine. The fact that they have international recursive traffic -- something that we only really get from Neustar -- is just mind blowing, JMS.

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Smith, Jonathan <jonathan.smith@darpa.mil>  
Sent: Tuesday, June 19, 2018 5:18:55 PM  
To: Antonakakis, Manos; Keromytis, Angelos  
Cc: Schneck, Christopher (contr-i2o)  
Subject: Re: Centrulink data

CenturyLink.  
They are my performers in EdgeCT.  
Good people.  
Say Yes.  
-JMS

On 6/19/18, 2:01 PM, "Antonakakis, Manos" <manos@gatech.edu> wrote:

Bill Bradley is the Senior Vice President, Cyber Engineering and Technical Service of Centrulink. Just walked out of my office and he wants to give me all their DNS and netflow data.

To clarify, this includes all DoD network traffic (in late 2018 a contact was won by Centrulink to do this --- have no more details at this point) alongside several international networks, including the undersea cables that connect the various continents.

Do I say yes, or no?

---

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

From: Rodney Joffe <rodney.joffe@team.neustar>  
Sent on: Friday, February 12, 2021 5:17:55 PM  
To: Manos Antonakakis <manos@gatech.edu>  
CC: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
Subject: Re: Data subscription extension

We're on it.

> On Feb 12, 2021, at 11:51 AM, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> OK, let start asap. I cannot go back to DARPA and say that I cannot do this because GT is not moving fast enough. I will lose face.

>

> Manos

>

> From: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

> Date: Friday, February 12, 2021 at 11:31 AM

> To: Antonakakis, Manos <manos@gatech.edu>, Rodney Joffe <rodney.joffe@team.neustar>

> Subject: RE: Data subscription extension

>

> Manos,

>

> It really depends on how quickly the subsidiary is able to get registered in the system (outside of our control), send us the quote, and how responsive they are to the inquiries and requests for documentation that procurement needs. I would say probably 3 weeks on the short side accounting for some back and forth between supplier and contracting officer.

>

> Rodney,

>

> Would you please have the new company register as a vendor in our system. No action on our part can be completed until we have the quote and the new company's registration is done. This link will allow for a new account to be set up, including routing details for payments on future invoices. A new PO will be issued.

>

>

> <https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwd5.myworkdaysite.com%2Fsupplier%2Fgatech%2FS>

>

> Let me know if you have questions!

>

> M

>

>

> From: Antonakakis, Manos <manos@gatech.edu>

> Sent: Friday, February 12, 2021 9:29 AM

> To: Rodney Joffe <rodney.joffe@team.neustar>; Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

> Subject: Re: Data subscription extension

>

> Rodney this makes sense.

>

> Michael, can I get an ETA on this being one?

>

> Thanks, Manos

>

> From: Rodney Joffe <rodney.joffe@team.neustar>

> Date: Thursday, February 11, 2021 at 9:39 PM

> To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

> Cc: Antonakakis, Manos <manos@gatech.edu>

> Subject: Re: Data subscription extension

>

> Hello Michael,

>

> Thank you for the opportunity.

>

> I will have the quote prepared for you by Monday. It will be a new quote, with the same general terms and conditions as the original contract. However, it will cover 3 months, and it will confirm that if needed, an additional PO for the remainder of 2021 will be valid at the same rate and terms.

>

> Will this work for your purposes, or will you need any other changes?

>

> One point from Neustar's side - we now contract for all sensitive contracts through our Government Subsidiary, ERP Services, Inc, a wholly owned subsidiary of Neustar, Inc. I assume this will also not be an issue for you?

>

> Regards

> Rodney

> =====

> Rodney Joffe

> SVP, and Fellow

> National Security Executive

> Neustar, Inc.

> 45980 Center Oak Plaza

> Sterling VA 20166

> USA

> +1 202-533-2900 Direct

> +1 602-418-6471 Cell

> rodney.joffe@team.neustar

>

> > On Feb 11, 2021, at 5:05 PM, Mitchell, Michael F <michael.mitchell@ece.gatech.edu> wrote:

> >

> > Good Afternoon Rodney,

> >

> > I spoke with Manos earlier today regarding the short term extension of our project and the need to extend our data subscription. Would you be able to provide me with a quote for the additional period you discussed? I would greatly appreciate it!

> >

> > Thanks,

> >

> > Michael Mitchell

> >

> > Research Operations Program Manager

> > GEORGIA Institute

> > of TECH nology

> > School of Electrical and Computer Engineering

> > 777 Atlantic Drive NW

> > Atlanta, GA 30332-0765

> > Office: 404-385-8122

> > Mobile: 770-655-8039

>

From: Rodney Joffe <rodney.joffe@team.neustar>  
Sent on: Wednesday, April 14, 2021 7:42:47 PM  
To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
CC: Manos Antonakakis <manos@gatech.edu>; Colin Monaghan <colin.monaghan@team.neustar>  
Subject: Re: Data subscription extension

Hello Michael,

Many thanks. Putting it into process now.

Regards  
Rodney

> On Apr 14, 2021, at 2:31 PM, Mitchell, Michael F <michael.mitchell@ece.gatech.edu> wrote:

>

> Hey Rodney,

>

> I was following up on the requisition that I put in for this and found that the PO was executed for this. The PO number is PO-5145022. If you have not yet done so, would you please send an invoice for this PO to apinvoices@gatech.edu with a subject line of PO-5145022?

>

> Let me know if you have any questions or need help on this.

>

> Thanks!

>

> Michael

>

> -----Original Message-----

> From: Rodney Joffe <rodney.joffe@team.neustar>

> Sent: Friday, February 12, 2021 2:57 PM

> To: Antonakakis, Manos <manos@gatech.edu>

> Cc: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

> Subject: Re: Data subscription extension

>

> Hi Manos and Michael,

>

> We think we have accurately completed the registration form. Please let me know if there is anything else needed.

>

> Thanks!

> Rodney

>

>

>> On Feb 12, 2021, at 11:51 AM, Antonakakis, Manos <manos@gatech.edu> wrote:

>>

>> OK, let start asap. I cannot go back to DARPA and say that I cannot do this because GT is not moving fast enough. I will lose face.

>>

>>

>>

>> Manos

>>

>>

>>

>> From: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

>> Date: Friday, February 12, 2021 at 11:31 AM

>> To: Antonakakis, Manos <manos@gatech.edu>, Rodney Joffe <rodney.joffe@team.neustar>

>> Subject: RE: Data subscription extension

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>> Manos,

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>> It really depends on how quickly the subsidiary is able to get registered in the system (outside of our control), send us the quote, and how responsive they are to the inquiries and requests for documentation that procurement needs. I would say probably 3 weeks on the short side accounting for some back and forth between supplier and contracting officer.

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>> Would you please have the new company register as a vendor in our system. No action on our part can be completed until we have the quote and the new company's registration is done. This link will allow for a new account to be set up, including routing details for payments on future invoices. A new PO will be issued.

>>

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[https://urldefense.com/v3/ https://nam12.safelinks.protection.outlook.com/?url=https\\*3A\\*2F\\*2Fwd5.myworkdaysite.com\\*2fPRReRde8WJTHWYIs0KygZULJChquUn\\_8DaNIm777TynPgnw\\$](https://urldefense.com/v3/https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwd5.myworkdaysite.com%2FPRReRde8WJTHWYIs0KygZULJChquUn_8DaNIm777TynPgnw$)

>>

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>> Let me know if you have questions!

>>

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>>

>> From: Antonakakis, Manos <manos@gatech.edu>

>> Sent: Friday, February 12, 2021 9:29 AM

>> To: Rodney Joffe <rodney.joffe@team.neustar>; Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

>> Subject: Re: Data subscription extension

>>

>>

>>

>> Rodney this makes sense.

>>

>>

>>

>> Michael, can I get an ETA on this being one?

>>

>>

>>

>> Thanks, Manos

>>

>>



>>  
>> From: Rodney Joffe <rodney.joffe@team.neustar>  
>> Date: Thursday, February 11, 2021 at 9:39 PM  
>> To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>  
>> Cc: Antonakakis, Manos <manos@gatech.edu>  
>> Subject: Re: Data subscription extension  
>>  
>> Hello Michael,  
>>  
>> Thank you for the opportunity.  
>>  
>> I will have the quote prepared for you by Monday. It will be a new quote, with the same general terms and conditions as the original contract. However, it will cover 3 months, and it will confirm that if needed, an additional PO for the remainder of 2021 will be valid at the same rate and terms.  
>>  
>> Will this work for your purposes, or will you need any other changes?  
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>> One point from Neustar's side - we now contract for all sensitive contracts through our Government Subsidiary, ERP Services, Inc, a wholly owned subsidiary of Neustar, Inc. I assume this will also not be an issue for you?  
>>  
>> Regards  
>> Rodney  
>> =====  
>> Rodney Joffe  
>> SVP, and Fellow  
>> National Security Executive  
>> Neustar, Inc.  
>> 45980 Center Oak Plaza  
>> Sterling VA 20166  
>> USA  
>> +1 202-533-2900 Direct  
>> +1 602-418-6471 Cell  
>> rodney.joffe@team.neustar  
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>>> On Feb 11, 2021, at 5:05 PM, Mitchell, Michael F <michael.mitchell@ece.gatech.edu> wrote:  
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>>> I spoke with Manos earlier today regarding the short term extension of our project and the need to extend our data subscription. Would you be able to provide me with a quote for the additional period you discussed? I would greatly appreciate it!  
>>>  
>>> Thanks,  
>>>  
>>> Michael Mitchell  
>>>  
>>> Research Operations Program Manager  
>>> GEORGIA Institute  
>>> of TECH nology  
>>> School of Electrical and Computer Engineering  
>>> 777 Atlantic Drive NW  
>>> Atlanta, GA 30332-0765  
>>> Office: 404-385-8122  
>>> Mobile: 770-655-8039  
>>  
>>  
>>

From: Rodney Joffe <rodney.joffe@team.neustar>

Sent on: Monday, February 18, 2019 2:59:56 AM

To: Adm. Mike Mullen <mike.mullen@mgmconsulting.net>

CC: Charlie Gottdiener <Charles.Gottdiener@team.neustar>; Achanta, Venkat <Venkat.Achanta@team.neustar>; Manos Antonakakis <manos@gatech.edu>; Dr. Angelos Keromytis Ph.D. <angelos@gatech.edu>; Karin Vernazza <karin.vernazza@mgmconsulting.net>

Subject: Re: Dinner, Kyma Greek Restaurant

Ack. I will add her as an option attendee.

At Neustar our EAs get the notifications automatically.

> On Feb 17, 2019, at 9:58 PM, Mike Mullen <mike.mullen@mgmconsulting.net> wrote:

>  
> Rodney, as you generate these schedules, please copy Karin. Thanks, Mike

>> On Feb 17, 2019, at 4:57 PM, Joffe, Rodney <Rodney.Joffe@team.neustar> wrote:

>> When: Wednesday, March 27, 2019 6:05 PM-8:00 PM. (UTC-05:00) Eastern Time (US & Canada)

>> Where: 3085 Piedmont Rd NE, Atlanta, GA 30305

>> \*~\*~\*~\*~\*~\*~\*~\*~\*~\*

>> <https://buckheadrestaurants.com/restaurant/kyma/>

>> <Mail Attachment.ics>

>

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Wednesday, December 13, 2017 4:58:51 PM  
To: Hall, John <John.Hall@team.neustar>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Re: EA Option Year for NEUSTSAR

John, please work with Michael directly. The funds are here, and I approved this PO yesterday in the internal system.

Thanks,

—

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hall, John <John.Hall@team.neustar>  
Sent: Wednesday, December 13, 2017 11:48 AM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney  
Subject: EA Option Year for NEUSTSAR

Hi Manos,

I hope you and your team are doing well as we head into the holiday season and end of calendar year. I have been working with Michael Mitchell to try to get the PO for the first EA option year of our DNS data. If you take a look below, you'll see that Michael is doing what he can to work with your contracting folks but, since its pretty important for us to be able to book the option year in 2017, I'm writing to ask you to take a quick look at the situation. If there is anything I can do to facilitate, I will make myself available for a call and can even fly down if that would help.

Thanks in advance - looking forward to working with you on HACCS in the new year!

John W Hall  
Neustar, Inc. / Sr. Director - Federal Business  
[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

---

The information contained in this e-mail message is intended only for the use of the recipient(s) named above and may contain confidential and/or privileged information. If you are not the intended recipient you have received this e-mail message in error and any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately and delete the original message

---

On 12/11/17, 5:00 PM, "Mitchell, Michael F"  
<michael.mitchell@ece.gatech.edu> wrote:

>Hey John,

>

>I have everything on my end to submit this for issuing the PO. I know the  
>person who usually works on these types of POs and I will get in contact  
>with her and see if we can move this through their process quickly.

>

>Thanks for your help!

>

>MM

>

>-----Original Message-----

>From: Hall, John [<mailto:John.Hall@team.neustar>]

>Sent: Monday, December 11, 2017 12:16 PM

>To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

>Cc: Carter, Anita M <anita.carter@ece.gatech.edu>

>Subject: Re: [EXTERNAL] RE: Georgia Tech BuzzMart, PO#: 2100362915

>

>Hello Michael / Anita, Are you all etc provide an update on your process?

>

>Thanks in advance

>

>John W Hall

>Neustar, Inc. / Sr. Director - Federal Business

>[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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>>>On 12/7/17, 9:42 AM, "Mitchell, Michael F"

>>><michael.mitchell@ece.gatech.edu> wrote:

>>>

>>>>Good Morning John

>>>>

>>>>First let me start by apologizing for the delay on this. This is  
>>>>something that we should have been able to get this turned around  
>>>>much faster than we have so far. Given my newness to this position I  
>>>>have had some difficulty getting things moving in the right direction  
>>>>and getting this process started. I am working very closely with  
>>>>procurement to get this done.

>>>>

>>>>I will need a new quote for the \$350,000 this year in order to get  
>>>>things approved, since the old quote was only good until 12/01/2016.  
>>>>Once I have that I will be able to work on finalizing the new PO.

>>>>

>>>>Again my deepest apologies for the delay, and just be patient a bit  
>>>>longer so I can get this done.

>>>>

>>>>

>>>>Michael Mitchell

>>>>

>>>>Research Operations Program Manager  
>>>>GEORGIA Institute  
>>>>of TECH nology  
>>>>School of Electrical and Computer Engineering  
>>>>777 Atlantic Drive NW  
>>>>Atlanta, GA 30332-0765

>>>>

>>>>

>>>>

>>>>-----Original Message-----

>>>>From: Hall, John [<mailto:John.Hall@team.neustar>]

>>>>Sent: Thursday, November 30, 2017 12:26 PM

>>>>To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

>>>>Cc: Carter, Anita M <anita.carter@ece.gatech.edu>

>>>>Subject: Re: [EXTERNAL] RE: Georgia Tech BuzzMart, PO#: 2100362915

>>>>

>>>>Hi Michael - as you can imagine, I am getting inquiries on the



>>>>possibility of getting us the PO this week so we can book it in  
>>>>November?

>>>>

>>>>Let me know / thanks in advance

>>>>

>>>>John W Hall

>>>>Neustar, Inc. / Sr. Director - Federal Business

>>>>[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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>>>>On 11/20/17, 11:03 AM, "Mitchell, Michael F"

>>>><michael.mitchell@ece.gatech.edu> wrote:

>>>>

>>>>>Hey John,

>>>>>

>>>>>Thanks for getting this to me. The total number is accurate, the  
>>>>>yearly totals are a bit different, but not a big deal.

>>>>>

>>>>>Based on what I am seeing in our internal accounts we had issued a  
>>>>>PO for \$1,000,000. We have executed and paid for that in full. Now  
>>>>>we need to create and issue a PO for the new amount of \$350,000 per  
>>>>>the outline you provided. Right?

>>>>>

>>>>>MM

>>>>>

>>>>>-----Original Message-----

>>>>>From: Hall, John [<mailto:John.Hall@team.neustar>]

>>>>>Sent: Monday, November 20, 2017 10:52 AM

>>>>>To: Mitchell, Michael F <michael.mitchell@ece.gatech.edu>

>>>>>Subject: FW: Georgia Tech BuzzMart, PO#: 2100362915

>>>>>

>>>>>Hi Michael, Here is the original award email with the two  
>>>>>attachments we discussed. Let me know if you have any questions or



>>>>>concerns.

>>>>>

>>>>>Thanks in advance!

>>>>>

>>>>>John W Hall

>>>>>Neustar, Inc. / Sr. Director Federal Business

>>>>>[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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>>>>>original message

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>>>>>On 12/22/16, 4:08 PM, "support@sciquest.com" <support@sciquest.com>

>>>>>wrote:

>>>>>

>>>>>>Attached to this email is Purchase Order Number 2100362915 for

>>>>>>Georgia Institute of Technology. Please note that there may be

>>>>>>additional supporting documents attached as well.

>>>>>

>>>>>

>>>>

>>>

>>

>

From: Antonakakis, Manos <manos@gatech.edu>  
Sent on: Thursday, January 18, 2018 1:26:48 AM  
To: Hook, Lisa <lisa.hook@team.neustar>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Re: Friday

Hey Lisa, absolutely!

My office is at the Klaus Advance Computing Building, 3rd floor, Room 3364. I can send you the visitor parking direction if you will be driving in.

My cell is [REDACTED], in case you need to call me.

Many thanks,

Manos

---

Typos due to mobile device ...

> On Jan 17, 2018, at 20:04, Hook, Lisa <lisa.hook@team.neustar> wrote:

>

> Manos,

>

> I am in Atlanta for meetings on Friday and am wondering if you are in town and free at 9:30 to meet at school. Would love to catch up.

>

> Best,

>

> Lisa

>

> Lisa A. Hook

> Neustar, Inc./President and Chief Executive Officer

> 120 SW 8th Street, Miami, FL 33130

> Office: 571/434-5630. Mobile:202/907-5672

> Lisa.Hook@team.neustar/www.neustar.biz

>

**From:** Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Sent on:** Friday, October 11, 2019 8:50:18 PM  
**To:** Mitchell, Michael F<michael.mitchell@ece.gatech.edu>  
**CC:** Antonakakis, Manos<manos@gatech.edu>  
**Subject:** Re: Georgia Tech Option year 4

Hi Michael

John moved on recently... so I am "the guy". :-)

Thanks!

Rodney

On Oct 11, 2019, at 8:18 PM, Mitchell, Michael F <[michael.mitchell@ece.gatech.edu](mailto:michael.mitchell@ece.gatech.edu)> wrote:

Hey Rodney,

It is time to renew the PO with Georgia Tech for year 4. I tried to send this to John hall but received a bounce back. Can you let me know who the right contact for this is, so I can get the quote refreshed and processed?

Thanks!

**Michael Mitchell**

Research Operations Program Manager

**GEORGIA Institute**

**of TECH nology**

School of Electrical and Computer Engineering

777 Atlantic Drive NW

Atlanta, GA 30332-0765

Phone: 404-385-8122

<Neustar Quote.pdf>

## Virgil, Franchesca

---

**From:** [REDACTED] on behalf of Manos Antonakakis <manos@gatech.edu>  
**Sent:** Wednesday, August 10, 2016 7:56 AM  
**To:** Roberts, Kristen N; Joffe, Rodney  
**Subject:** DARPA - EA Sub: Neustar

Hey Kristen,

Please meet Rodney. Rodney, Kristen is my great financial admin.

Kristen, Rodney can help you with all necessary details you might need for OSP.

For Neustar, will have the following yearly breakdown:

Y1: \$1M  
Y2: \$300K  
Y3: \$250K  
Y4: \$250K  
Y5: \$125K

The SOW have been structured in such away that will reflect this distribution of funds. One special thing with Neustar is the following. It would be ideal if we can have a PO from them by 30th of September. This is something that we should try very hard to do.

Rodney, please help Kristen with any information she might need from Neustar in order to have you formally in the GT systems as a vendor.

Cheers,

Manos

## Virgil, Franchesca

---

**From:** [REDACTED] on behalf of Manos Antonakakis <manos@gatech.edu>  
**Sent:** Tuesday, September 27, 2016 4:29 PM  
**To:** Joffe, Rodney; Hayman, Denise  
**Cc:** Roberts, Kristen N  
**Subject:** DARPA EA clarifications --- Neustar  
**Attachments:** Basic\_DARPA\_BUDGET\_Manos.xls

Hey Rodney and Denise,

Hope you are doing great. Kristen and I would like from you the following clarifications.

1. Please provide us a new quote for \$1,925,000, where you clearly state the discount you gave us.
2. Please provide as a working Excel workbook for the pricing proposal. (Attached the template).

If you need any clarification on these (especially on the working Excel workbook), Kristen and I are here to help.

Many thanks,

Manos

## Virgil, Franchesca

---

**From:** Travis, Elan <Elan.travis@osp.gatech.edu>  
**Sent:** Friday, September 16, 2016 4:44 PM  
**To:** 'rodney.joffe@neustar.biz'  
**Cc:** Antonakakis, Manos; Roberts, Kristen N  
**Subject:** Draft/sample subcontract  
**Attachments:** Draft Subcontract Cost Reimbursement template.doc

Good Afternoon Rodney,

Kristen Roberts in Georgia Techs School of Electrical and Computer Engineering asked me to provide you with a draft subcontract. I have attached the draft template, please know that depending on the prime awards terms this may change with items being removed and/or added.

Please feel free to contact my if you have any questions or concerns.

### Élan Travis

Contracting Specialist

**Georgia Institute of Technology | GTRC**

Office of Sponsored Programs

505 Tenth Street, Atlanta GA 30332-0420

404.385-3645 p | 404.894.5945 f | [elan.travis@osp.gatech.edu](mailto:elan.travis@osp.gatech.edu)



## Virgil, Franchesca

---

**From:** Antonakakis, Manos  
**Sent:** Friday, February 22, 2019 8:03 AM  
**To:** Rodney Joffe; Joffe, Rodney  
**Cc:** Ian Crone; Schneck, Christopher (contr-i2o)  
**Subject:** E-introductions: Neustar --- new EA PM

Hey Rodney,

I am very happy to announce that we now have a new Program Manager (PM) for the EA project. Mr. Ian Crone will be leading the program from this point on, and Mr. Chris Schneck will be helping him out.

All of us think that it would be great if the new PM team meets (in a virtual or physical meeting) with you and talk about the datasets you have been providing in support of my effort in this project. I do not \_have to\_ be part of this meeting, because my schedule is too busy and I will simply slow things down. You should work directly with the Chris and Ian and set the meeting up.

Many thanks,

—

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

>>> On Sep 6, 2018, at 10:35 PM, Antonakakis, Manos <manos@gatech.edu> wrote:  
>>>  
>>> Venkat, nothing official at the moment. We are in waiting mode. If you want some unofficial news, you can give me a quick call.  
>>>  
>>> Thanks,  
>>>  
>>> —  
>>> Manos Antonakakis | manos@gatech.edu Georgia Institute of Technology  
>>> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668  
>>>  
>>>  
>>> \_\_\_\_\_  
>>> From: Achanta, Venkat <Venkat.Achanta@team.neustar>  
>>> Sent: Thursday, September 6, 2018 10:30:34 PM  
>>> To: Antonakakis, Manos  
>>> Cc: Joffe, Rodney  
>>> Subject: Touch base  
>>>  
>>> Manos,  
>>>  
>>> Do you have any other information from DARPA program managers chasing possible path for this fiscal funding ?  
>>>  
>>> Thank you.  
>>>  
>>> Venkat.  
>>  
>



## Virgil, Franchesca

---

**From:** Rodney Joffe <rjoffe@centergate.com>  
**Sent:** Thursday, September 6, 2018 10:51 PM  
**To:** Antonakakis, Manos  
**Subject:** Re: Touch base

DONT TELL HIM ANYTHING DIFFERENT TO ANGELOS After Oct 1 new fiscal year.

> On Sep 6, 2018, at 10:35 PM, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> Venkat, nothing official at the moment. We are in waiting mode. If you want some unofficial news, you can give me a quick call.

>

> Thanks,

>

> —

> Manos Antonakakis | manos@gatech.edu

> Georgia Institute of Technology

> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

>

>

> \_\_\_\_\_

> From: Achanta, Venkat <Venkat.Achanta@team.neustar>

> Sent: Thursday, September 6, 2018 10:30:34 PM

> To: Antonakakis, Manos

> Cc: Joffe, Rodney

> Subject: Touch base

>

> Manos,

>

> Do you have any other information from DARPA program managers chasing possible path for this fiscal funding ?

>

> Thank you.

>

> Venkat.

## Virgil, Franchesca

---

**From:** Antonakakis, Manos  
**Sent:** Thursday, September 6, 2018 10:53 PM  
**To:** Rodney Joffe  
**Subject:** Re: Touch base

I was not planing to, because that is the only hard facts I have.

—

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Rodney Joffe <rjoffe@centergate.com>  
Sent: Thursday, September 6, 2018 10:50:48 PM  
To: Antonakakis, Manos  
Subject: Re: Touch base

DONT TELL HIM ANYTHING DIFFERENT TO ANGELOS After Oct 1 new fiscal year.

> On Sep 6, 2018, at 10:35 PM, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> Venkat, nothing official at the moment. We are in waiting mode. If you want some unofficial news, you can give me a quick call.

>

> Thanks,

>

> —

> Manos Antonakakis | manos@gatech.edu  
> Georgia Institute of Technology  
> FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

>

>

>

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> From: Achanta, Venkat <Venkat.Achanta@team.neustar>  
> Sent: Thursday, September 6, 2018 10:30:34 PM  
> To: Antonakakis, Manos  
> Cc: Joffe, Rodney  
> Subject: Touch base

>

> Manos,

>

> Do you have any other information from DARPA program managers chasing possible path for this fiscal funding ?

>

> Thank you.

>

> Venkat.

## Virgil, Franchesca

---

**From:** Rodney Joffe <rodney.joffe@neustar.biz>  
**Sent:** Tuesday, September 20, 2016 5:27 PM  
**To:** Noland, Yvonne  
**Cc:** Cameron, Yolonda L; Antonakakis, Emmanouil K  
**Subject:** Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Many thanks, Yvonne.

> On Sep 20, 2016, at 3:48 PM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:

>

> Hi Rodney,

>

> Attached please find the fully executed NDA.

>

> Thank you,

>

> Yvonne Noland

> Legal Services Coordinator

> Georgia Institute of Technology

> Office of Legal Affairs

> Atlanta, GA 30332-0495

> Email: Yvonne.Noland@legal.gatech.edu

> Phone: 404-894-4812

> Fax: 404-894-3120

>

>

> Please note that most communications to or from Georgia Tech employees are public records and available to the public and the media upon request under Georgia's broad open records law. Therefore, this e-mail communication and any response to it may be subject to public disclosure.

>

>

> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Thursday, September 08, 2016 12:29 PM

> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>

> Subject: Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Almost there :-)

>

>

> Begin forwarded message:

>

> From: Contracts <Contracts@neustar.biz>

> Date: September 8, 2016 at 12:26:19 PM EDT

> To: "Joffe, Rodney" <Rodney.Joffe@neustar.biz>, Contracts <Contracts@neustar.biz>

> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Attached is the partially executed NDA for The Board of Regents of University System of Georgia, by and behalf of Georgia Institute of Tehnology. Once it has been countersigned, please forward a fully executed copy to Contracts for our files.

>

> Thanks,

> Samantha

> -----Original Message-----

> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Wednesday, September 07, 2016 9:01 PM

> To: Contracts <Contracts@neustar.biz>

> Subject: Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Over to you to execute.

>

> Thanks

> Rodney

>

>

>

> Begin forwarded message:

>

> From: "Noland, Yvonne" <yvonne.noland@legal.gatech.edu>

> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

> Date: September 7, 2016 at 10:41:46 AM EDT

> To: Rodney Joffe <rodney.joffe@neustar.biz>

> Cc: "Antonakakis, Emmanouil K" <manos@gatech.edu>, "Cameron, Yolonda L" <yolonda.cameron@legal.gatech.edu>

> Resent-From: <rodney.joffe@neustar.biz>

>

> Hi Rodney,

>

> Attached is a final document for signature, reflecting the change from 14 to 20 days in Section 3. Please return a signed copy to me at your earliest convenience. I will route for countersignature and return a fully executed copy to you.

>

> Thank you,

> Yvonne

>

> -----Original Message-----

> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Wednesday, September 07, 2016 10:17 AM

> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>

> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>

> Subject: Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Hi Yvonne,

>

> OK on these points. Do you have a final for us to sign?

>

> On Sep 6, 2016, at 2:28 PM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:

>

> Hi Rodney,

>

> I've updated the effective date of the document and accepted all mutually agreed upon edits in the attached document.

>

> The GIT signatory will not agree to the requested revisions in Section 3. All information disclosed to GIT must be marked in accordance with the original language in Section 3, but we can agree to extend the 14-day period for non-written disclosures to 20 days.

>

> Sincerely,

>

> Yvonne Noland

> Legal Services Coordinator

> Georgia Institute of Technology

> Office of Legal Affairs

> Atlanta, GA 30332-0495

> Email: Yvonne.Noland@legal.gatech.edu

> Phone: 404-894-4812

> Fax: 404-894-3120

>

>

> Please note that most communications to or from Georgia Tech employees are public records and available to the public and the media upon request under Georgia's broad open records law. Therefore, this e-mail communication and any response to it may be subject to public disclosure.

>

>

> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Tuesday, September 06, 2016 11:20 AM

> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>

> Subject: Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Hi Yvonne,

>

> This is the correct email.

>

> Apparently all edits are OK except for the comments below. Could you please confirm?

>

> Thanks

> Rodney

> =====

> Rodney Joffe

> SVP, Senior Technologist, and Fellow

> Neustar, Inc. (NYSE:NSR)

> 1775 Pennsylvania Ave. NW

> Suite 400

> Washington DC 20006

> +1 202-533-2900 Direct

> +1 602-418-6471 Cell

>

>

>

>

>

> From: Contracts

> Sent: Tuesday, September 06, 2016 11:06 AM  
> To: Joffe, Rodney <Rodney.Joffe@neustar.biz>; Contracts <Contracts@neustar.biz>  
> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
>  
> Hi Rodney,  
>  
> All the counter-edits are acceptable with the exception of the Confidential Information marking.  
>  
> Through discussions or written information disclosed, it would be somewhat difficult to have to “mark” all proprietary/confidential information as “Confidential”. In the event that there are times that such information is not marked or otherwise indicated verbally during ongoing communication, we want to ensure that, although not marked as “Confidential”, that it is protected under the NA,  
>  
> Samantha Ellis  
> NeuStar, Inc. | Contracts Manager  
> 571.434.3421  
>  
> From: Noland, Yvonne [mailto:yvonne.noland@legal.gatech.edu]  
> Sent: Tuesday, September 06, 2016 10:14 AM  
> To: Joffe, Rodney <Rodney.Joffe@neustar.biz>; Contracts <Contracts@neustar.biz>  
> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
>  
> Good morning – please advise regarding the status of this matter at your earliest convenience. Thank you.  
>  
>  
> From: Noland, Yvonne  
> Sent: Thursday, August 04, 2016 12:38 PM  
> To: 'Rodney Joffe' <rodney.joffe@neustar.biz>; 'Contracts@neustar.biz' <Contracts@neustar.biz>  
> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
>  
> Hi Rodney,  
>  
> Attached please find our additional comments and revisions for review by your legal department.  
>  
> Regards,  
>  
> Yvonne Noland  
> Legal Services Coordinator  
> Georgia Institute of Technology  
> Office of Legal Affairs  
> Atlanta, GA 30332-0495  
> Email: Yvonne.Noland@legal.gatech.edu  
> Phone: 404-894-4812  
> Fax: 404-894-3120  
>  
>  
> Please note that most communications to or from Georgia Tech employees are public records and available to the public and the media upon request under Georgia's broad open records law. Therefore, this e-mail communication and any response to it may be subject to public disclosure.  
>

>  
>  
>  
> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]  
> Sent: Wednesday, August 03, 2016 12:52 PM  
> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>  
> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
> Subject: Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
>  
> Hello Yvonne,  
>  
>  
> Thanks... I am attaching a marked up version of the NDA from our legal group... Hopefully this is acceptable.  
>  
>  
> Regards  
> Rodney  
>  
>  
>  
>  
>  
>  
>  
> On Aug 3, 2016, at 7:30 AM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:  
>  
> Good morning,  
>  
> Our office is in receipt of a request to process a non-disclosure agreement between Georgia Tech and Neustar Inc. The standard Neustar Confidentiality Agreement provided to us contemplates a mutual exchange of confidential information. However, the GT point of contact for this matter has advised it is not anticipated GT will disclose any confidential/proprietary information for this effort.  
>  
> As such, I have prepared and attached Georgia Tech's standard unilateral Proprietary Information Agreement for consideration by your contracts/legal department. If the document is satisfactory, please have it executed and return it to me. I will then have the document countersigned and return a copy to you for your files. If you would like to request any changes to the agreement, please utilize the "track changes" feature and return the edited version to me.  
>  
> Sincerely,  
>  
> Yvonne Noland  
> Legal Services Coordinator  
> Georgia Institute of Technology  
> Office of Legal Affairs  
> Atlanta, GA 30332-0495  
> Email: Yvonne.Noland@legal.gatech.edu  
> Phone: 404-894-4812  
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>

>

> <Neustar Inc. (NDA-4406).docx>

> <Neustar Inc. - GT review 9-6-16 (NDA-4406).docx>

>

> <Neustar, Inc. (NDA-4406).pdf>



## Virgil, Franchesca

---

**From:** Rodney Joffe <rodney.joffe@neustar.biz>  
**Sent:** Wednesday, September 7, 2016 10:17 AM  
**To:** Noland, Yvonne  
**Cc:** Antonakakis, Emmanouil K; Cameron, Yolonda L  
**Subject:** Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hi Yvonne,

OK on these points. Do you have a final for us to sign?

> On Sep 6, 2016, at 2:28 PM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:

>

> Hi Rodney,

>

> I've updated the effective date of the document and accepted all mutually agreed upon edits in the attached document.

>

> The GIT signatory will not agree to the requested revisions in Section 3. All information disclosed to GIT must be marked in accordance with the original language in Section 3, but we can agree to extend the 14-day period for non-written disclosures to 20 days.

>

> Sincerely,

>

> Yvonne Noland

> Legal Services Coordinator

> Georgia Institute of Technology

> Office of Legal Affairs

> Atlanta, GA 30332-0495

> Email: Yvonne.Noland@legal.gatech.edu

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>

>

> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Tuesday, September 06, 2016 11:20 AM

> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>

> Subject: Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Hi Yvonne,

>

> This is the correct email.

>

> Apparently all edits are OK except for the comments below. Could you please confirm?

>  
> Thanks  
> Rodney  
> =====  
> Rodney Joffe  
> SVP, Senior Technologist, and Fellow  
> Neustar, Inc. (NYSE:NSR)  
> 1775 Pennsylvania Ave. NW  
> Suite 400  
> Washington DC 20006  
> +1 202-533-2900 Direct  
> +1 602-418-6471 Cell  
>  
>  
>  
>  
>  
> From: Contracts  
> Sent: Tuesday, September 06, 2016 11:06 AM  
> To: Joffe, Rodney <Rodney.Joffe@neustar.biz>; Contracts <Contracts@neustar.biz>  
> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
>  
> Hi Rodney,  
>  
> All the counter-edits are acceptable with the exception of the Confidential Information marking.  
>  
> Through discussions or written information disclosed, it would be somewhat difficult to have to “mark” all proprietary/confidential information as “Confidential”. In the event that there are times that such information is not marked or otherwise indicated verbally during ongoing communication, we want to ensure that, although not marked as “Confidential”, that it is protected under the NA,  
>  
> Samantha Ellis  
> NeuStar, Inc. | Contracts Manager  
> 571.434.3421  
>  
> From: Noland, Yvonne [mailto:yvonne.noland@legal.gatech.edu]  
> Sent: Tuesday, September 06, 2016 10:14 AM  
> To: Joffe, Rodney <Rodney.Joffe@neustar.biz>; Contracts <Contracts@neustar.biz>  
> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
>  
> Good morning – please advise regarding the status of this matter at your earliest convenience. Thank you.  
>  
>  
> From: Noland, Yvonne  
> Sent: Thursday, August 04, 2016 12:38 PM  
> To: 'Rodney Joffe' <rodney.joffe@neustar.biz>; 'Contracts@neustar.biz' <Contracts@neustar.biz>  
> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
>  
> Hi Rodney,  
>

> Attached please find our additional comments and revisions for review by your legal department.

>

> Regards,

>

> Yvonne Noland

> Legal Services Coordinator

> Georgia Institute of Technology

> Office of Legal Affairs

> Atlanta, GA 30332-0495

> Email: Yvonne.Noland@legal.gatech.edu

> Phone: 404-894-4812

> Fax: 404-894-3120

>

>

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>

>

>

>

> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Wednesday, August 03, 2016 12:52 PM

> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>

> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>

> Subject: Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Hello Yvonne,

>

>

> Thanks... I am attaching a marked up version of the NDA from our legal group... Hopefully this is acceptable.

>

>

> Regards

> Rodney

>

>

>

>

>

>

>

> On Aug 3, 2016, at 7:30 AM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:

>

> Good morning,

>

> Our office is in receipt of a request to process a non-disclosure agreement between Georgia Tech and Neustar Inc. The standard Neustar Confidentiality Agreement provided to us contemplates a mutual exchange of confidential information. However, the GT point of contact for this matter has advised it is not anticipated GT will disclose any confidential/proprietary information for this effort.

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> As such, I have prepared and attached Georgia Tech's standard unilateral Proprietary Information Agreement for consideration by your contracts/legal department. If the document is satisfactory, please have it executed and return it to me. I will then have the document countersigned and return a copy to you for your files. If you would like to request any changes to the agreement, please utilize the "track changes" feature and return the edited version to me.

>

> Sincerely,

>

> Yvonne Noland

> Legal Services Coordinator

> Georgia Institute of Technology

> Office of Legal Affairs

> Atlanta, GA 30332-0495

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>

> <Neustar Inc. (NDA-4406).docx>

> <Neustar Inc. - GT review 9-6-16 (NDA-4406).docx>

## Virgil, Franchesca

---

**From:** Rodney Joffe <rodney.joffe@neustar.biz>  
**Sent:** Tuesday, September 6, 2016 10:25 AM  
**To:** Noland, Yvonne  
**Cc:** Contracts; Antonakakis, Emmanouil K; Cameron, Yolonda L  
**Subject:** Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Yvonne,

I am banging on our legal front door now. Sorry for the lack of response. :-(

> On Sep 6, 2016, at 10:14 AM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:

>

> Good morning – please advise regarding the status of this matter at your earliest convenience. Thank you.

>

>

> From: Noland, Yvonne

> Sent: Thursday, August 04, 2016 12:38 PM

> To: 'Rodney Joffe' <rodney.joffe@neustar.biz>; 'Contracts@neustar.biz' <Contracts@neustar.biz>

> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>

> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Hi Rodney,

>

> Attached please find our additional comments and revisions for review by your legal department.

>

> Regards,

>

> Yvonne Noland

> Legal Services Coordinator

> Georgia Institute of Technology

> Office of Legal Affairs

> Atlanta, GA 30332-0495

> Email: Yvonne.Noland@legal.gatech.edu

> Phone: 404-894-4812

> Fax: 404-894-3120

>

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>

>

>

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> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]

> Sent: Wednesday, August 03, 2016 12:52 PM

> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>

> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>

> Subject: Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>

> Hello Yvonne,

>

>

> Thanks... I am attaching a marked up version of the NDA from our legal group... Hopefully this is acceptable.

>

>

> Regards

> Rodney

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>

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> On Aug 3, 2016, at 7:30 AM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:

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> Sincerely,

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> Yvonne Noland

> Legal Services Coordinator

> Georgia Institute of Technology

> Office of Legal Affairs

> Atlanta, GA 30332-0495

> Email: Yvonne.Noland@legal.gatech.edu

> Phone: 404-894-4812

> Fax: 404-894-3120

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>

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>

>

> <Neustar Inc. (NDA-4406).docx>

> <Neustar Inc. - GT review 8-4-16 (NDA-4406).docx>

## Virgil, Franchesca

---

**From:** Rodney Joffe <rodney.joffe@neustar.biz>  
**Sent:** Wednesday, August 3, 2016 12:52 PM  
**To:** Noland, Yvonne  
**Cc:** Antonakakis, Emmanouil K; Cameron, Yolonda L  
**Subject:** Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hello Yvonne,

Thanks... I am attaching a marked up version of the NDA from our legal group... Hopefully this is acceptable.

Regards  
Rodney



On Aug 3, 2016, at 7:30 AM, Noland, Yvonne <[yvonne.noland@legal.gatech.edu](mailto:yvonne.noland@legal.gatech.edu)> wrote:

Good morning,

Our office is in receipt of a request to process a non-disclosure agreement between Georgia Tech and Neustar Inc. The standard Neustar Confidentiality Agreement provided to us contemplates a mutual exchange of confidential information. However, the GT point of contact for this matter has advised it is not anticipated GT will disclose any confidential/proprietary information for this effort.

As such, I have prepared and attached Georgia Tech's standard unilateral Proprietary Information Agreement for consideration by your contracts/legal department. If the document is satisfactory, please have it executed and return it to me. I will then have the document countersigned and return a copy to you for your files. If you would like to request any changes to the agreement, please utilize the "track changes" feature and return the edited version to me.

Sincerely,

**Yvonne Noland**

Legal Services Coordinator  
Georgia Institute of Technology  
Office of Legal Affairs  
Atlanta, GA 30332-0495  
Email: [Yvonne.Noland@legal.gatech.edu](mailto:Yvonne.Noland@legal.gatech.edu)  
Phone: 404-894-4812  
Fax: 404-894-3120

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<Neustar Inc. (NDA-4406).docx>



## Virgil, Franchesca

---

**From:** Noland, Yvonne  
**Sent:** Wednesday, September 7, 2016 10:42 AM  
**To:** Rodney Joffe  
**Cc:** Antonakakis, Emmanouil K; Cameron, Yolonda L  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
**Attachments:** Neustar Inc. - final for signature (NDA-4406).pdf

Hi Rodney,

Attached is a final document for signature, reflecting the change from 14 to 20 days in Section 3. Please return a signed copy to me at your earliest convenience. I will route for countersignature and return a fully executed copy to you.

Thank you,  
Yvonne

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

From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]  
Sent: Wednesday, September 07, 2016 10:17 AM  
To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>  
Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
Subject: Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hi Yvonne,

OK on these points. Do you have a final for us to sign?

> On Sep 6, 2016, at 2:28 PM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:

>

> Hi Rodney,

>

> I've updated the effective date of the document and accepted all mutually agreed upon edits in the attached document.

>

> The GIT signatory will not agree to the requested revisions in Section 3. All information disclosed to GIT must be marked in accordance with the original language in Section 3, but we can agree to extend the 14-day period for non-written disclosures to 20 days.

>

> Sincerely,

>

> Yvonne Noland

> Legal Services Coordinator

> Georgia Institute of Technology

> Office of Legal Affairs

> Atlanta, GA 30332-0495

> Email: Yvonne.Noland@legal.gatech.edu

> Phone: 404-894-4812

> Fax: 404-894-3120

>

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> Please note that most communications to or from Georgia Tech employees are public records and available to the public and the media upon request under Georgia's broad open records law. Therefore, this e-mail communication and any response to it may be subject to public disclosure.

>  
>  
> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]  
> Sent: Tuesday, September 06, 2016 11:20 AM  
> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>  
> Subject: Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)

> Hi Yvonne,

> This is the correct email.

> Apparently all edits are OK except for the comments below. Could you please confirm?

> Thanks

> Rodney

> =====

> Rodney Joffe  
> SVP, Senior Technologist, and Fellow  
> Neustar, Inc. (NYSE:NSR)  
> 1775 Pennsylvania Ave. NW  
> Suite 400  
> Washington DC 20006  
> +1 202-533-2900 Direct  
> +1 602-418-6471 Cell

>  
>  
>  
>  
>  
> From: Contracts  
> Sent: Tuesday, September 06, 2016 11:06 AM  
> To: Joffe, Rodney <Rodney.Joffe@neustar.biz>; Contracts <Contracts@neustar.biz>  
> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

> Hi Rodney,

> All the counter-edits are acceptable with the exception of the Confidential Information marking.

> Through discussions or written information disclosed, it would be somewhat difficult to have to "mark" all proprietary/confidential information as "Confidential". In the event that there are times that such information is not marked or otherwise indicated verbally during ongoing communication, we want to ensure that, although not marked as "Confidential", that it is protected under the NA,

> Samantha Ellis  
> NeuStar, Inc. | Contracts Manager  
> 571.434.3421

> From: Noland, Yvonne [mailto:yvonne.noland@legal.gatech.edu]

> Sent: Tuesday, September 06, 2016 10:14 AM  
> To: Joffe, Rodney <Rodney.Joffe@neustar.biz>; Contracts <Contracts@neustar.biz>  
> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

>  
> Good morning – please advise regarding the status of this matter at your earliest convenience. Thank you.

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>  
> From: Noland, Yvonne  
> Sent: Thursday, August 04, 2016 12:38 PM  
> To: 'Rodney Joffe' <rodney.joffe@neustar.biz>; 'Contracts@neustar.biz' <Contracts@neustar.biz>  
> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
> Subject: RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

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> Yvonne Noland  
> Legal Services Coordinator  
> Georgia Institute of Technology  
> Office of Legal Affairs  
> Atlanta, GA 30332-0495  
> Email: Yvonne.Noland@legal.gatech.edu  
> Phone: 404-894-4812  
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>  
>  
> From: Rodney Joffe [mailto:rodney.joffe@neustar.biz]  
> Sent: Wednesday, August 03, 2016 12:52 PM  
> To: Noland, Yvonne <yvonne.noland@legal.gatech.edu>  
> Cc: Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
> Subject: Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

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> Hello Yvonne,  
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> Thanks... I am attaching a marked up version of the NDA from our legal group... Hopefully this is acceptable.

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> Regards  
> Rodney  
>

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> On Aug 3, 2016, at 7:30 AM, Noland, Yvonne <yvonne.noland@legal.gatech.edu> wrote:

>  
> Good morning,  
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> As such, I have prepared and attached Georgia Tech's standard unilateral Proprietary Information Agreement for consideration by your contracts/legal department. If the document is satisfactory, please have it executed and return it to me. I will then have the document countersigned and return a copy to you for your files. If you would like to request any changes to the agreement, please utilize the "track changes" feature and return the edited version to me.

>  
> Sincerely,

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> Yvonne Noland  
> Legal Services Coordinator  
> Georgia Institute of Technology  
> Office of Legal Affairs  
> Atlanta, GA 30332-0495  
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> Phone: 404-894-4812  
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>  
>  
> <Neustar Inc. (NDA-4406).docx>  
> <Neustar Inc. - GT review 9-6-16 (NDA-4406).docx>

## Virgil, Franchesca

---

**From:** Noland, Yvonne  
**Sent:** Wednesday, August 3, 2016 1:16 PM  
**To:** Rodney Joffe  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Worked that time – thank you very much

---

**From:** Rodney Joffe [mailto:rodney.joffe@neustar.biz]  
**Sent:** Wednesday, August 03, 2016 1:13 PM  
**To:** Noland, Yvonne <yvonne.noland@legal.gatech.edu>  
**Subject:** Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Yvonne,  
Does this work?

The email below also includes our legal group contract info.

Thanks  
Rodney

Begin forwarded message:

**From:** Contracts <[Contracts@neustar.biz](mailto:Contracts@neustar.biz)>  
**Date:** August 3, 2016 at 9:38:02 AM PDT  
**To:** "Joffe, Rodney" <[Rodney.Joffe@neustar.biz](mailto:Rodney.Joffe@neustar.biz)>  
**Cc:** "Konde, Alex" <[alex.konde@neustar.biz](mailto:alex.konde@neustar.biz)>, Contracts <[Contracts@neustar.biz](mailto:Contracts@neustar.biz)>  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hi Rodney,

Legal has reviewed the attached and have made a few edits. Please let me know if you have any questions or concerns.

Regards,  
Samantha

**Samantha Ellis**  
NeuStar, Inc. | Contracts Manager  
571.434.3421

---

**Resent-From:** <[rodney.joffe@neustar.biz](mailto:rodney.joffe@neustar.biz)>  
**From:** "Noland, Yvonne" <[yvonne.noland@legal.gatech.edu](mailto:yvonne.noland@legal.gatech.edu)>  
**Date:** August 3, 2016 at 7:30:34 AM PDT  
**To:** "[Rodney.Joffe@neustar.biz](mailto:Rodney.Joffe@neustar.biz)" <[Rodney.Joffe@neustar.biz](mailto:Rodney.Joffe@neustar.biz)>  
**Cc:** "Antonakakis, Emmanouil K" <[manos@gatech.edu](mailto:manos@gatech.edu)>, "Cameron, Yolonda L"

<[yolonda.cameron@legal.gatech.edu](mailto:yolonda.cameron@legal.gatech.edu)>

**Subject: PIA - Neustar Inc./Georgia Tech (NDA-4406)**

Good morning,

Our office is in receipt of a request to process a non-disclosure agreement between Georgia Tech and Neustar Inc. The standard Neustar Confidentiality Agreement provided to us contemplates a mutual exchange of confidential information. However, the GT point of contact for this matter has advised it is not anticipated GT will disclose any confidential/proprietary information for this effort.

As such, I have prepared and attached Georgia Tech's standard unilateral Proprietary Information Agreement for consideration by your contracts/legal department. If the document is satisfactory, please have it executed and return it to me. I will then have the document countersigned and return a copy to you for your files. If you would like to request any changes to the agreement, please utilize the "track changes" feature and return the edited version to me.

Sincerely,

**Yvonne Noland**

Legal Services Coordinator  
Georgia Institute of Technology  
Office of Legal Affairs  
Atlanta, GA 30332-0495  
Email: [Yvonne.Noland@legal.gatech.edu](mailto:Yvonne.Noland@legal.gatech.edu)  
Phone: 404-894-4812  
Fax: 404-894-3120

Please note that most communications to or from Georgia Tech employees are public records and available to the public and the media upon request under Georgia's broad open records law. Therefore, this e-mail communication and any response to it may be subject to public disclosure.

## Virgil, Franchesca

---

**From:** Noland, Yvonne  
**Sent:** Wednesday, August 3, 2016 1:08 PM  
**To:** Rodney Joffe  
**Cc:** Antonakakis, Emmanouil K; Cameron, Yolonda L  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hi Rodney,

I'm afraid I'm unable to open the attachment to your email. Could you please resend at your earliest convenience?

Thank you,

### Yvonne Noland

Legal Services Coordinator  
Georgia Institute of Technology  
Office of Legal Affairs  
Atlanta, GA 30332-0495  
Email: [Yvonne.Noland@legal.gatech.edu](mailto:Yvonne.Noland@legal.gatech.edu)  
Phone: 404-894-4812  
Fax: 404-894-3120

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---

**From:** Rodney Joffe [mailto:[rodney.joffe@neustar.biz](mailto:rodney.joffe@neustar.biz)]  
**Sent:** Wednesday, August 03, 2016 12:52 PM  
**To:** Noland, Yvonne <[yvonne.noland@legal.gatech.edu](mailto:yvonne.noland@legal.gatech.edu)>  
**Cc:** Antonakakis, Emmanouil K <[manos@gatech.edu](mailto:manos@gatech.edu)>; Cameron, Yolonda L <[yolonda.cameron@legal.gatech.edu](mailto:yolonda.cameron@legal.gatech.edu)>  
**Subject:** Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hello Yvonne,

Thanks... I am attaching a marked up version of the NDA from our legal group... Hopefully this is acceptable.

Regards  
Rodney



On Aug 3, 2016, at 7:30 AM, Noland, Yvonne <[yvonne.noland@legal.gatech.edu](mailto:yvonne.noland@legal.gatech.edu)> wrote:

Good morning,

Our office is in receipt of a request to process a non-disclosure agreement between Georgia Tech and Neustar Inc. The standard Neustar Confidentiality Agreement provided to us contemplates a mutual exchange of confidential information. However, the GT point of contact for this matter has advised it is not anticipated GT will disclose any confidential/proprietary information for this effort.

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**Yvonne Noland**

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Fax: 404-894-3120

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<Neustar Inc. (NDA-4406).docx>



## Virgil, Franchesca

---

**From:** Noland, Yvonne  
**Sent:** Tuesday, September 6, 2016 10:14 AM  
**To:** Rodney Joffe; Contracts@neustar.biz  
**Cc:** Antonakakis, Emmanouil K; Cameron, Yolonda L  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
**Attachments:** Neustar Inc. - GT review 8-4-16 (NDA-4406).docx

Good morning – please advise regarding the status of this matter at your earliest convenience. Thank you.

---

**From:** Noland, Yvonne  
**Sent:** Thursday, August 04, 2016 12:38 PM  
**To:** 'Rodney Joffe' <rodney.joffe@neustar.biz>; 'Contracts@neustar.biz' <Contracts@neustar.biz>  
**Cc:** Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hi Rodney,

Attached please find our additional comments and revisions for review by your legal department.

Regards,

**Yvonne Noland**

Legal Services Coordinator  
Georgia Institute of Technology  
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Atlanta, GA 30332-0495  
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**From:** Rodney Joffe [<mailto:rodney.joffe@neustar.biz>]  
**Sent:** Wednesday, August 03, 2016 12:52 PM  
**To:** Noland, Yvonne <[yvonne.noland@legal.gatech.edu](mailto:yvonne.noland@legal.gatech.edu)>  
**Cc:** Antonakakis, Emmanouil K <[manos@gatech.edu](mailto:manos@gatech.edu)>; Cameron, Yolonda L <[yolonda.cameron@legal.gatech.edu](mailto:yolonda.cameron@legal.gatech.edu)>  
**Subject:** Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

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Regards  
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On Aug 3, 2016, at 7:30 AM, Noland, Yvonne <[yvonne.noland@legal.gatech.edu](mailto:yvonne.noland@legal.gatech.edu)> wrote:

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**Yvonne Noland**

Legal Services Coordinator  
Georgia Institute of Technology  
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Atlanta, GA 30332-0495  
Email: [Yvonne.Noland@legal.gatech.edu](mailto:Yvonne.Noland@legal.gatech.edu)  
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<Neustar Inc. (NDA-4406).docx>

## Virgil, Franchesca

---

**From:** Noland, Yvonne  
**Sent:** Thursday, August 4, 2016 12:38 PM  
**To:** Rodney Joffe; Contracts@neustar.biz  
**Cc:** Antonakakis, Emmanouil K; Cameron, Yolonda L  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
**Attachments:** Neustar Inc. - GT review 8-4-16 (NDA-4406).docx

Hi Rodney,

Attached please find our additional comments and revisions for review by your legal department.

Regards,

### Yvonne Noland

Legal Services Coordinator  
Georgia Institute of Technology  
Office of Legal Affairs  
Atlanta, GA 30332-0495  
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---

**From:** Rodney Joffe [mailto:rodney.joffe@neustar.biz]  
**Sent:** Wednesday, August 03, 2016 12:52 PM  
**To:** Noland, Yvonne <yvonne.noland@legal.gatech.edu>  
**Cc:** Antonakakis, Emmanouil K <manos@gatech.edu>; Cameron, Yolonda L <yolonda.cameron@legal.gatech.edu>  
**Subject:** Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hello Yvonne,

Thanks... I am attaching a marked up version of the NDA from our legal group... Hopefully this is acceptable.

Regards  
Rodney



On Aug 3, 2016, at 7:30 AM, Noland, Yvonne <[yvonne.noland@legal.gatech.edu](mailto:yvonne.noland@legal.gatech.edu)> wrote:

Good morning,

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<Neustar Inc. (NDA-4406).docx>

## Virgil, Franchesca

---

**From:** baseball-bounces@centergate.com on behalf of Rodney Joffe <rjoffe@centergate.com>  
**Sent:** Wednesday, March 20, 2019 6:24 PM  
**To:** Wessels, Duane  
**Cc:** baseball@centergate.com  
**Subject:** Re: [DNS Inside Baseball] InsideBaseball 2019

Count me and Team UltraDNS in. Steve will do a better job of identifying who that is, besides him and me.

Thanks Duane/VRSN!!

> On Mar 20, 2019, at 6:21 PM, Allison Mankin <amankin@salesforce.com> wrote:

>

> Count me and team Salesforce in

>

> On Wed, Mar 20, 2019 at 3:19 PM Wessels, Duane <dwessels@verisign.com> wrote:

>

>

>> On Mar 19, 2019, at 7:40 PM, DeJong, Steve <Steve.DeJong@team.neustar> wrote:

>>

>> Greetings,

>>

>> Several people have asked about an InsideBaseball meet up this year and now there is an update to share. For this year Duane Wessels and Verisign have offered to host and schedule a get together.

>>

>> The current thinking is to plan some time around the NANOG 76 conference which is scheduled for June 9-12 in Washington DC with further details to come from the Verisign group as plans develop. Thanks to Duane and Verisign for organizing this year.

>

>

> Thanks Steve!

>

> Yes Verisign would very much like to host a DNS Inside Baseball event this year. As Steve mentioned, with NANOG closing on June 12, this is sort of what we are thinking:

>

> - DNS Inside Baseball meeting the morning & afternoon of June 13

> - Location: DC area, close to the NANOG venue.

> - The Washington Nationals have a home game June 13 at 7PM

> - We're exploring renting out a suite at the stadium for up to 30 people.

> - For anyone not really into watching the game of baseball, the suite should have room to just sit and chat.

>

>

> I'm interested to hear from folks willing to tentatively attend. If we can get enough momentum then I can proceed with making the arrangements.

>

> DW

>

## Virgil, Franchesca

---

**From:** baseball-bounces@centergate.com on behalf of Rodney Joffe <rjoffe@centergate.com>  
**Sent:** Wednesday, March 27, 2019 8:10 AM  
**To:** Rob Seastrom  
**Cc:** baseball@centergate.com  
**Subject:** Re: [DNS Inside Baseball] participant list

I think it's Steve DeJong who manages it now. He is on Pacific time.

On Mar 27, 2019, at 8:07 AM, Rob Seastrom <[rs@seastrom.com](mailto:rs@seastrom.com)> wrote:

I think I was on it from my Neustar laptop. Who's the person to talk to for invites?

-r

Sent from my iPad

On Mar 27, 2019, at 07:09, Matthew Pounsett <[matt@conundrum.com](mailto:matt@conundrum.com)> wrote:

On Wed, 27 Mar 2019 at 10:36, Wessels, Duane <[dwessels@verisign.com](mailto:dwessels@verisign.com)> wrote:

Also, note that there is a slack channel that was getting some use for a while but has been very quiet recently.

This seems relevant to my interests. :)

## Virgil, Franchesca

---

**From:** Rodney Joffe <rodney.joffe@neustar.biz>  
**Sent:** Tuesday, September 6, 2016 11:20 AM  
**To:** Noland, Yvonne  
**Subject:** Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
**Attachments:** Georgia Tech NDA (one-way) for Neustar DRAFT2 2016-Sep-06.docx; ATT00001.htm

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Hi Yvonne,

This is the correct email.

Apparently all edits are OK except for the comments below. Could you please confirm?

Thanks

Rodney

=====

Rodney Joffe

SVP, Senior Technologist, and Fellow

Neustar, Inc. (NYSE:NSR)

1775 Pennsylvania Ave. NW

Suite 400

Washington DC 20006

+1 202-533-2900 Direct

+1 602-418-6471 Cell

---

**From:** Contracts  
**Sent:** Tuesday, September 06, 2016 11:06 AM  
**To:** Joffe, Rodney <[Rodney.Joffe@neustar.biz](mailto:Rodney.Joffe@neustar.biz)>; Contracts <[Contracts@neustar.biz](mailto:Contracts@neustar.biz)>  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hi Rodney,

All the counter-edits are acceptable with the exception of the Confidential Information marking.

Through discussions or written information disclosed, it would be somewhat difficult to have to “mark” all proprietary/confidential information as “Confidential”. In the event that there are times that such information is not marked or otherwise indicated verbally during ongoing communication, we want to ensure that, although not marked as “Confidential”, that it is protected under the NA,

**Samantha Ellis**  
NeuStar, Inc. | Contracts Manager  
571.434.3421

---

**From:** Noland, Yvonne [<mailto:yvonne.noland@legal.gatech.edu>]  
**Sent:** Tuesday, September 06, 2016 10:14 AM  
**To:** Joffe, Rodney <[Rodney.Joffe@neustar.biz](mailto:Rodney.Joffe@neustar.biz)>; Contracts <[Contracts@neustar.biz](mailto:Contracts@neustar.biz)>  
**Cc:** Antonakakis, Emmanouil K <[manos@gatech.edu](mailto:manos@gatech.edu)>; Cameron, Yolonda L <[yolonda.cameron@legal.gatech.edu](mailto:yolonda.cameron@legal.gatech.edu)>  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Good morning – please advise regarding the status of this matter at your earliest convenience. Thank you.

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**From:** Noland, Yvonne  
**Sent:** Thursday, August 04, 2016 12:38 PM  
**To:** 'Rodney Joffe' <[rodney.joffe@neustar.biz](mailto:rodney.joffe@neustar.biz)>; 'Contracts@neustar.biz' <[Contracts@neustar.biz](mailto:Contracts@neustar.biz)>  
**Cc:** Antonakakis, Emmanouil K <[manos@gatech.edu](mailto:manos@gatech.edu)>; Cameron, Yolonda L <[yolonda.cameron@legal.gatech.edu](mailto:yolonda.cameron@legal.gatech.edu)>  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hi Rodney,

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Regards,

**Yvonne Noland**

Legal Services Coordinator  
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**From:** Rodney Joffe [<mailto:rodney.joffe@neustar.biz>]  
**Sent:** Wednesday, August 03, 2016 12:52 PM  
**To:** Noland, Yvonne <[yvonne.noland@legal.gatech.edu](mailto:yvonne.noland@legal.gatech.edu)>  
**Cc:** Antonakakis, Emmanouil K <[manos@gatech.edu](mailto:manos@gatech.edu)>; Cameron, Yolonda L <[yolonda.cameron@legal.gatech.edu](mailto:yolonda.cameron@legal.gatech.edu)>  
**Subject:** Re: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hello Yvonne,

Thanks... I am attaching a marked up version of the NDA from our legal group... Hopefully this is acceptable.



Regards  
Rodney

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Sincerely,

**Yvonne Noland**

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<Neustar Inc. (NDA-4406).docx>

## Virgil, Franchesca

---

**From:** Rodney Joffe <rodney.joffe@neustar.biz>  
**Sent:** Wednesday, August 3, 2016 1:13 PM  
**To:** Noland, Yvonne  
**Subject:** Fwd: PIA - Neustar Inc./Georgia Tech (NDA-4406)  
**Attachments:** Georgia Tech NDA (one-way) for Neustar DRAFT 2016-Aug-03 1215hrs.docx; ATT00001.htm

Yvonne,  
Does this work?

The email below also includes our legal group contract info.

Thanks  
Rodney

Begin forwarded message:

**From:** Contracts <[Contracts@neustar.biz](mailto:Contracts@neustar.biz)>  
**Date:** August 3, 2016 at 9:38:02 AM PDT  
**To:** "Joffe, Rodney" <[Rodney.Joffe@neustar.biz](mailto:Rodney.Joffe@neustar.biz)>  
**Cc:** "Konde, Alex" <[alex.konde@neustar.biz](mailto:alex.konde@neustar.biz)>, Contracts <[Contracts@neustar.biz](mailto:Contracts@neustar.biz)>  
**Subject:** RE: PIA - Neustar Inc./Georgia Tech (NDA-4406)

Hi Rodney,

Legal has reviewed the attached and have made a few edits. Please let me know if you have any questions or concerns.

Regards,  
Samantha

**Samantha Ellis**  
NeuStar, Inc. | Contracts Manager  
571.434.3421

---

**Resent-From:** <[rodney.joffe@neustar.biz](mailto:rodney.joffe@neustar.biz)>  
**From:** "Noland, Yvonne" <[yvonne.noland@legal.gatech.edu](mailto:yvonne.noland@legal.gatech.edu)>  
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**Cc:** "Antonakakis, Emmanouil K" <[manos@gatech.edu](mailto:manos@gatech.edu)>, "Cameron, Yolonda L" <[yolonda.cameron@legal.gatech.edu](mailto:yolonda.cameron@legal.gatech.edu)>  
**Subject:** PIA - Neustar Inc./Georgia Tech (NDA-4406)

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## Virgil, Franchesca

---

**From:** Antonakakis, Manos  
**Sent:** Sunday, September 24, 2017 10:54 PM  
**To:** Joffe, Rodney  
**Cc:** rjoffe@centergate.com  
**Subject:** Letter for HACCS  
**Attachments:** Clarification\_quote\_Neustar.doc

Rodney, per our discussion please find the letter attached. I think you can use this a good first draft and build upon it.

What I would like is the final version of this letter alongside a quote for your data.

Cheers,

—

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

**Virgil, Franchesca**

---

**From:** [REDACTED] on behalf of Manos Antonakakis <manos@gatech.edu>  
**Sent:** Thursday, December 8, 2016 11:52 AM  
**To:** Roberts, Kristen N; Rodney Joffe; Davis, Gabrielle S  
**Subject:** Neustar PO status

Hey Kristen,

Can you please relay to Rodney the status of the Neustar PO --- as we talked about it over the phone 5 minutes ago.

Rodney, I am very sorry for the delay.

Thanks,

Manos

## Virgil, Franchesca

---

**From:** Sinness, Mark B  
**Sent:** Thursday, December 15, 2016 4:55 PM  
**To:** john.hall@neustar.biz; rodney.joffe@neustar.biz  
**Subject:** Neustar Quote for Emmanouil Antonakakis  
**Attachments:** WEB FAR 52 Debarment.doc; WEB FAR 52 Lobbying.doc; Sole Source Template Form .doc

Rodney and John,

Per my phone conversation with Rodney, in order for me to process the PO of the above referenced quote, I will need you to complete some documentation for me. As you may know, DARPA is the funding source for this purchase, so I will need you complete the attached Federal Certifications. Also, pursuant to FAR 52.219-9 I will need you to forward onto me your Small Business Contracting Plan. In addition, I will need you to complete the attached sole source form (I know it doesn't really fit for this purchase, but bear with me) and the price reasonableness documentation requested in the form. Call with any questions.

Thanks for your assistance.

Mark Sinness  
Procurement Contracting Officer  
Georgia Institute of Technology  
711 Marietta St.  
Atlanta GA 30332-0300  
Phone 404 894 5007  
Fax 404 894 8552

## Virgil, Franchesca

---

**From:** Noland, Yvonne  
**Sent:** Wednesday, August 3, 2016 10:31 AM  
**To:** Rodney.Joffe@neustar.biz  
**Cc:** Antonakakis, Emmanouil K; Cameron, Yolonda L  
**Subject:** PIA - Neustar Inc./Georgia Tech (NDA-4406)  
**Attachments:** Neustar Inc. (NDA-4406).docx

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Sincerely,

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---

**From:** Antonakakis, Manos  
**Sent:** Friday, January 24, 2020 3:35 PM  
**To:** Christopher Schneck; Rodney Joffe  
**Cc:** Ian Crone  
**Subject:** Quick catch up with Neustar

Hey Chris,

As I explained in the DHS-related email I got the green light to use the NSR and PF data from Vic and Rodney. Rodney was asking about the long term plan for the Neustar data as far as the government is concerned. While I can answer this question from the lenses of GT and my private ventures I cannot answer this on behalf of the USG.

Perhaps, you (I know Ian is busy) can you get on call with Rodney and explain to him what the long term plan is?

Thanks!

Manos

## Virgil, Franchesca

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**From:** [REDACTED] on behalf of Manos Antonakakis <manos@gatech.edu>  
**Sent:** Thursday, October 20, 2016 1:11 PM  
**To:** Roberts, Kristen N; Joffe, Rodney  
**Cc:** Hall, John  
**Subject:** Re: Checking in on Neustar Contract

John, please talk with Rodney. He gets regular feedback from me.

Manos

On Thu, Oct 20, 2016 at 1:09 PM, Roberts, Kristen N <kristen.roberts@ece.gatech.edu> wrote:

> Hi John,

>

>

> We have not yet received the prime contract from DARPA, and I believe  
> they are finalizing the "costing" portion. We will send updates once  
> we hear from the GT Contracting Officer.

>

>

> Best,

>

> Kristen

>

>

>

> \_\_\_\_\_

>

> Kristen Roberts

>

> Grants Administrator, Sr.

>

> Georgia Institute of Technology

>

> School of Electrical & Computer Engineering

>

> 777 Atlantic Drive, Atlanta, GA 30332-0250

>

> Van Leer-Rm W236-A

>

> Ph: 404.385.6485

>

> Email: Kristen.roberts@ece.gatech.edu

>

>

>

> \_\_\_\_\_

> From: Hall, John <John.Hall@neustar.biz>

> Sent: Thursday, October 20, 2016 11:07 AM





## Virgil, Franchesca

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**From:** Roberts, Kristen N  
**Sent:** Wednesday, August 10, 2016 8:28 AM  
**To:** Antonakakis, Manos; Joffe, Rodney  
**Subject:** Re: DARPA - EA Sub: Neustar

Hi Manos,

Thank you for the kind introduction.

Rodney, it is a pleasure to meet you and congratulations on this grand award! I am working with our contracting specialist to confirm which forms are needed to have Neustar set-up efficiently for the start of this project. I will do my best to have the subaward paperwork and PO entered by 9/30, but please note this timeline is dependent upon execution of the main project from DARPA in OSP.

I look forward to working with you on this project. Please let me know if you need any additional information.

Best,  
Kristen

---

Kristen Roberts  
Financial Administrator III  
Georgia Institute of Technology  
School of Electrical & Computer Engineering  
266 Ferst Drive, Atlanta, GA 30332-0250  
KACB-Rm 3352  
Ph: 404.385.6485  
Email: Kristen.roberts@ece.gatech.edu

---

**From:** [REDACTED] on behalf of Manos Antonakakis <manos@gatech.edu>  
**Sent:** Wednesday, August 10, 2016 7:56 AM  
**To:** Roberts, Kristen N; Joffe, Rodney  
**Subject:** DARPA - EA Sub: Neustar  
Hey Kristen,

Please meet Rodney. Rodney, Kristen is my great financial admin.

Kristen, Rodney can help you with all necessary details you might need for OSP.

For Neustar, will have the following yearly breakdown:

Y1: \$1M  
Y2: \$300K  
Y3: \$250K  
Y4: \$250K

Y5: \$125K

The SOW have been structured in such away that will reflect this distribution of funds. One special thing with Neustar is the following. It would be ideal if we can have a PO from them by 30th of September. This is something that we should try very hard to do.

Rodney, please help Kristen with any information she might need from Neustar in order to have you formally in the GT systems as a vendor.

Cheers,

Manos

## Virgil, Franchesca

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**From:** Rodney Joffe <rodney.joffe@neustar.biz>  
**Sent:** Saturday, November 19, 2016 12:06 PM  
**To:** Antonakakis, Manos  
**Cc:** David Dagon; Farrell, Michael D; Beyah, Raheem A; Fabian Monroe  
**Subject:** Re: DARPA Team Dinner

I know and am ok with all 3.

> On Nov 19, 2016, at 10:40 AM, Manos Antonakakis <manos@gatech.edu> wrote:

>

> Regarding places that are good enough, likely have room for the team

> and close by DARPA/hotel, we have the following options:

>

> - P.F. Chang's (Chinese Restaurant)

> - Uncle Julio's (Mexican Restaurant)

> - Zoës Kitchen (Mediterranean Restaurant)

>

> I can make the reservations Monday, so let me know what you prefer. We

> are looking for dinner time to be 19.30.

>

> Thanks,

>

> Manos

>

>> On Sat, Nov 19, 2016 at 9:44 AM, Manos Antonakakis <manos@gatech.edu> wrote:

>> Gents,

>>

>> You (and members of your teams?) will come out to the kick off

>> meeting. Can you please confirm that you (and your team?) will be

>> available for a Monday dinner? I will try to get us a place walking

>> distance from DARPA and the Hilton hotel (where most of us will be

>> staying).

>>

>> Thanks,

>>

>> Manos

## Virgil, Franchesca

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**From:** Joffe, Rodney <Rodney.Joffe@neustar.biz>  
**Sent:** Thursday, December 1, 2016 8:29 AM  
**To:** Roberts, Kristen N  
**Cc:** Hall, John; Hayman, Denise; Antonakakis, Emmanouil K  
**Subject:** Re: Neustar Data

Hello Kristen,

Great news. Thank you. We'll be standing by.

Regards  
Rodney

On Dec 1, 2016, at 8:20 AM, Roberts, Kristen N <[kristen.roberts@ece.gatech.edu](mailto:kristen.roberts@ece.gatech.edu)> wrote:

Good morning,

We received our internal project number yesterday afternoon and I am initiating the sub-agreement request this morning. You should hear from our contracting officer by Monday afternoon and I will ask that she expedite the process.

Best,  
Kristen

---

Kristen Roberts  
Grants Administrator, Sr.  
Georgia Institute of Technology  
School of Electrical & Computer Engineering  
777 Atlantic Drive, Atlanta, GA 30332-0250  
Van Leer-Rm W236-A  
Ph: 404.385.6485  
Email: [Kristen.roberts@ece.gatech.edu](mailto:Kristen.roberts@ece.gatech.edu)

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**From:** [REDACTED] on behalf of Manos Antonakakis  
<[manos@gatech.edu](mailto:manos@gatech.edu)>  
**Sent:** Wednesday, November 23, 2016 8:07 AM  
**To:** Roberts, Kristen N  
**Cc:** Hall, John; Hayman, Denise; Joffe, Rodney  
**Subject:** Re: Neustar Data

John, the account number will be set up soon, and we will reach out. No need to sent any more email or call anyone. Rodney is fully aware that this is in the top of my queue.

Again, when you reach out to GT, you need to include me and Rodney in your communication.

Manos

On Wed, Nov 23, 2016 at 8:03 AM, Roberts, Kristen N <[kristen.roberts@ece.gatech.edu](mailto:kristen.roberts@ece.gatech.edu)> wrote:

Hi John,

There's not much news at this point. I believe our contracting office signed the prime agreement on 11/17, but I have not received notice of the new project. Once I am able to enter sub-agreements on our end, our Contracting Officer will discuss any necessary language changes needed for Neustar. I suspect we'll get the ball rolling early next week. Yours is first on the list. <OutlookEmoji-😊.png>

Happy Thanksgiving!  
Kristen

---

Kristen Roberts  
Grants Administrator, Sr.  
Georgia Institute of Technology  
School of Electrical & Computer Engineering  
777 Atlantic Drive, Atlanta, GA 30332-0250  
Van Leer-Rm W236-A  
Ph: 404.385.6485  
Email: [Kristen.roberts@ece.gatech.edu](mailto:Kristen.roberts@ece.gatech.edu)

---

**From:** Hall, John <[John.Hall@neustar.biz](mailto:John.Hall@neustar.biz)>  
**Sent:** Tuesday, November 22, 2016 2:06 PM  
**To:** Roberts, Kristen N  
**Cc:** Hayman, Denise  
**Subject:** Neustar Data

Hi Kristen, Just a note to followup on the voicemail I just left you. I understand, from Rodney, that you are moving forward with your contracting process. It occurs to me that we have not spoken since I sent the updated quote with minor language updates. I'd love to catch up on a call at your earliest convenience to help with any of the business aspects of this project.

I'll be available – even throughout the holiday.

Have a great Thanksgiving if we don't get an opportunity to speak before.

VR

**John W Hall**

**Neustar, Inc.** / Sr. Director – Federal Business  
[ T ] (571) 246-2407 [ E ] [john.hall@neustar.biz](mailto:john.hall@neustar.biz)

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## Virgil, Franchesca

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**From:** [REDACTED] on behalf of Manos Antonakakis <manos@gatech.edu>  
**Sent:** Friday, November 11, 2016 4:47 PM  
**To:** Roberts, Kristen N; Joffe, Rodney  
**Cc:** Hall, John  
**Subject:** Re: Neustar Proposal Language

Lets keep me and Rodney always in this loop.

Thanks,

Manos

On Fri, Nov 11, 2016 at 4:20 PM, Roberts, Kristen N <kristen.roberts@ece.gatech.edu> wrote:

> Thanks, John. The contract is still in the negotiating stage but we  
> are  
> (hopefully) very near the finish line.

>

>

> Best,

>

> Kristen

>

>

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> Kristen Roberts

>

> Grants Administrator, Sr.

>

> Georgia Institute of Technology

>

> School of Electrical & Computer Engineering

>

> 777 Atlantic Drive, Atlanta, GA 30332-0250

>

> Van Leer-Rm W236-A

>

> Ph: 404.385.6485

>

> Email: Kristen.roberts@ece.gatech.edu

>

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>

> \_\_\_\_\_

> From: Hall, John <John.Hall@neustar.biz>

> Sent: Friday, November 11, 2016 4:09 PM

> To: Roberts, Kristen N

> Cc: Hall, John



> Subject: Re: Neustar Proposal Language

>

> Hi Kristen, Here's the updated quote with a little additional clarity

> on the terms. You'll notice that I left the "program id" section

> blank – I'll update that when you're able to provide it to me, or we

> can just call it "DARPA".

>

> Let m know if you have any questions or concerns.

>

> VR

>

> John W Hall

>

> Neustar, Inc. / Sr. Director – Federal Business

>

> [ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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> From: John Hall <john.hall@neustar.biz>

> Date: Thursday, November 10, 2016 at 1:30 PM

> To: "Roberts, Kristen N" <kristen.roberts@ece.gatech.edu>

> Subject: Neustar Proposal Language

>

> Hi Kristen,

> Im getting word from Denise Hayman and Rodney Joffee that you guys are

> making progress and getting close to being able to issue award. As  
> per our last phone discussion, I am working with Neustar legal to  
> provide language that will meet your organizations use case and  
> support our need for some sort of user license controls. I'm planning  
> on sending you a new rev of our proposal with the addition of this  
> language, but am missing the DARPA program # or other identifier.  
>  
> Can you tell me what the contract # is or provide name or other unique id?  
> Once I get this from you – I will send over the changes.  
>  
> Let me know if you have any questions or concerns.  
>  
>  
> John W Hall  
>  
> Neustar, Inc. / Sr. Director – Federal Business  
>  
> [ T ] (571) 246-2407 [ E ] john.hall@neustar.biz  
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From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Tuesday, January 9, 2018 9:14:04 PM  
To: Demar, Jeremy <jdemar3@gatech.edu>; DeJong, Steve <Steve.DeJong@team.neustar>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>; Roosenraad, Chris <Chris.Roosenraad@team.neustar>  
Subject: Re: Historic data

Guys, I need the TDL and SLD data shipped as agreed upon. It has been months since we transition from the Internet2 link to the slower connection and promised have been made that the data will be arriving soon at GT. This was the only reason I agreed to move to the slower link.

What is going on? Why Nuestar is exposing me in such a way in the event of an audit from AFRL?

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4DFD 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

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From: Demar, Jeremy  
Sent: Tuesday, January 9, 2018 3:44:34 PM  
To: DeJong, Steve  
Cc: Antonakakis, Manos  
Subject: Re: Historic data

Steve,

Any update on this? I was hoping to have a plan in place early this month.

Thanks,  
Jeremy

On 01/04/2018 07:01 AM, Jeremy Demar wrote:

> Steve,  
>  
> I sent this to you over the holidays and was planning to follow up next  
> week if I hadn't heard anything. Manos mentioned the "snikernet" for  
> historic data in the email about the data processing backlog.  
>  
> Do you have any idea what the timeline for starting this looks like?  
>  
> Thanks,  
> Jeremy  
>  
> On 12/14/2017 09:14 AM, Jeremy Demar wrote:  
>> Steve,  
>>  
>> With the end of year approaching we are going over all of our data  
>> partners and working on our plans for the near future.  
>>  
>> One of the open questions we have with Neustar is the plans for the  
>> historic data. Manos has indicated that he has discussed the  
>> possibility of Neustar shipping the historic data (Recursive, TLD, and  
>> SLD) to Georgia Tech on hardware, or send it via "sneakernet" as Manos  
>> is fond of saying.

**From:** Antonakakis, Manos<manos@gatech.edu>  
**Sent on:** Thursday, April 12, 2018 4:51:45 PM  
**To:** Hook, Lisa<lisa.hook@team.neustar>  
**CC:** Michael Sussmann<MSussmann@perkinscoie.com>; Joffe, Rodney<Rodney.Joffe@team.neustar>  
**Subject:** Re: Intro

Lisa, I just boarded a flight to DC, where I will spend the rest of my day with meetings at DARPA. Tomorrow, my entire day will be spent at the HACCS kickoff meeting where I will be presenting the 4 years research agenda of the program.

Michael, nice to meet you. I can get on a call today between 17.00 and 18.00, tomorrow after 20.00 and over the weekend anytime you want. All times are EST.

To be totally honest, I would like to clarify what the request is here as a first step. What I sent Rodney was discoveries of malicious activities in the AU networks as part of technology we are creating for the USG. This is not technology that is related with Neustar — beyond the fact that we used your data.

Could Neustar offer something similar? Sure, since you have the data. :) However, what GT is doing (the technology we are generating) is for the USG (DoD to be precise).

Thanks and hopefully this message clarifies things a bit.

Manos

---

Typos due to mobile device ...

On Apr 12, 2018, at 11:39, Hook, Lisa <[lisa.hook@team.neustar](mailto:lisa.hook@team.neustar)> wrote:

Manos meet Michael,

Michael is our longtime outside counsel on national security and other issues. He is working with Rodney on a proposal to provide analytics similar to what you are doing in Australia.

Rodney is closed off right now and Michael needs someone to speak to for more details on the service we provide so he can write up a proposal.

Hoping you two can jump on the phone asap.

Thanks -- Lisa

Lisa A. Hook

Neustar Inc/ President & Chief Executive Officer

120 SW 8th Street, Miami FL 33130

Office: 571.434.5630 Mobile: 202.907.5672 [lisa.hook@team.neustar](mailto:lisa.hook@team.neustar)/[www.neustar.biz](http://www.neustar.biz)

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Thursday, April 26, 2018 6:30:15 PM  
To: Hall, John <John.Hall@team.neustar>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Re: Ip Intelligence for HACCS

Sure John, you can call me on the top of the hour.

Happy to help you out in any way I can. However, is DARPA aware that GT will need a 56% overhead on this, that is in order for you to get these \$3M, I will need to come up with an add-on for HACCS and a budget that is in the order of ~\$5.7M (just for this add-on)?

Are they OK with this?

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hall, John <John.Hall@team.neustar>  
Sent: Thursday, April 26, 2018 1:25:40 PM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney  
Subject: Ip Intelligence for HACCS

Hello Manos,  
We were recently in with the HACCS Team in Arlington. We discussed a number of things, including strategies for procuring Neustar IP Intelligence for the program. Since we already have a contractual relationship with GTRC, we think that it would be ideal to work with your organization to fulfill this requirement. At a high level, we're proposing an unlimited 1 year license @ an annual subscription cost of \$3M. Let me know when you have a few minutes to discuss or if you'd like to delegate to your contracts team.

Thanks in advance

John W Hall  
Neustar, Inc. / Sr. Director – Federal Business  
[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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Sent on: Tuesday, February 12, 2019 4:10:03 AM  
To: Rodney Joffe <rodney.joffe@team.neustar>; Christopher Schneck <christopher.schneck.ctr@darpa.mil>  
Subject: Re: Neustar Executive Visit to PI meeting March 8th

Thanks you Rodney for the email.

For you guys to attend the site visit I will need to get the green light from Chris. Chris, can you please check and let us know if you have any issues with this?

Thanks, Manos

---  
Typos due to mobile device ...

> On Feb 11, 2019, at 21:06, Rodney Joffe <rodney.joffe@team.neustar> wrote:

>  
> Hello Manos,  
>  
> As you know Neustar has been very involved in developing and improving our ability to provide capabilities and resources for you based on the apparent success of your EA and HACCS programs, using our data.  
>  
> As a result, I wonder if it would be possible for me, our CEO Charlie Gottdiener, Venkat Achanta, our Chief Data Officer, and Adm. (Ret) Mike Mullen (past Chairman of the Joint Chiefs) who is a board director of our data subsidiary to visit you during the PI day on March 8th?  
>  
> I think it would be extremely beneficial for my colleagues to see and understand the impact of our efforts, and to realize just how much of a difference we can make to the country's National Security efforts through GA Tech.  
>  
> They all obviously understand the sensitivity of the PI briefing and meeting, and would respect and sign whatever attendee documents are required of other sub-contractors on your program.  
>  
> Respectfully  
>  
> Rodney  
>  
> =====  
> Rodney Joffe  
> SVP, Senior Technologist, and Fellow  
> National Security Executive  
> Neustar, Inc.  
> 21575 Ridgetop Circle  
> Sterling VA 20166  
> USA  
> +1 202-533-2900 Direct  
> +1 602-418-6471 Cell  
> rodney.joffe@team.neustar  
>

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Friday, September 29, 2017 12:53:36 AM  
To: Hall, John <John.Hall@team.neustar>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Re: Neustar Proposal for HACCS

John, thanks. This was the last item we had open. We will submit first thing in the morning.

Cheers,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Hall, John <John.Hall@team.neustar>  
Sent: Thursday, September 28, 2017 6:42:16 PM  
To: Antonakakis, Manos  
Cc: Joffe, Rodney; Hall, John  
Subject: Neustar Proposal for HACCS

Hello Manos,

Please find our 3 document proposal for the HACCS effort. I believe you'll find the pricing documents and the letter to be pretty straight forward, but please don't hesitate to give us a call with any questions or concerns. The Neustar Team has enjoyed working with your organization over the last year, and we're looking forward to working even more collaboratively going forward.

Respectfully,

John W Hall  
Neustar, Inc. / Sr. Director – Federal Business  
[ T ] (571) 246-2407 [ E ] john.hall@neustar.biz

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From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Tuesday, May 29, 2018 5:25:50 PM  
To: Pearson, Christina T <christina.pearson@dev.gatech.edu>  
CC: Corcoran, Sean <sean.corcoran@team.neustar>; Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Re: Neustar update & visit to Atlanta (and campus) next week

Many thanks Christina.

Sean, very pleased to meet you! Rodney is very much aware of my tremendously hectic schedule next week. I would love to meet you, but I will be hosting a very big and important event (that actually directly impacts Neustar in major ways) and my time is almost non excitant during normal hours.

Rodney, I can make myself available for dinner, if that works for you and Sean. I would like to hear more about the "Neustar Labs" idea --- sounds really intriguing. :)

Many thanks,

—  
Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
FF7D 4FDF 9115 8077 92D2 5B59 5120 5E89 BE1B 3668

---

From: Pearson, Christina T  
Sent: Tuesday, May 29, 2018 12:11:44 PM  
To: Antonakakis, Manos  
Cc: Corcoran, Sean  
Subject: Neustar update & visit to Atlanta (and campus) next week

Hi Manos,

Sean Corcoran, VP of Corporate Development at Neustar (and GT alumnus – also cc'd above), reached out to me requesting to set up a few meetings on campus next week between June 4th-7th. Neustar will have several executives in town and because they are extremely pleased with the work that your lab has done, they wish to explore more ways that Neustar could expand their presence across the GT campus. (see list below)

They will also be reaching out to you directly to schedule some time for these Neustar executives to meet with your team, but they will not necessarily attach this to their visit to campus. Stay tuned for an email from Rodney or Sean.

Just wanted to give you a quick heads up....and feel free to reach back out with any questions.

Thanks,  
Christina

Neustar visitors:  
Venkat Achanta, Chief Data and Analytics Officer  
Rodney Joffe, SVP and Neustar Fellow  
Sean Corcoran, VP of Corporate Development

Areas of interest across campus (3 hours):

(1) Intro to new ECE Chair – Magnus Egerstedt

(2) "Neustar Labs" – possibly establishing an Innovation Lab on/near campus – Greg King



From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Wednesday, January 29, 2020 4:42:05 AM  
To: Rodney Joffe <rodney.joffe@team.neustar>  
CC: Neal, Alexander G <agneal7@gatech.edu>  
Subject: Re: NSR data transfer issues

:)

—  
Manos Antonakakis | Associate Professor | manos@gatech.edu  
School of Electrical and Computer Engineering  
Georgia Institute of Technology  
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From: Rodney Joffe <rodney.joffe@team.neustar>  
Sent: Tuesday, January 28, 2020 11:41 PM  
To: Antonakakis, Manos  
Cc: Neal, Alexander G  
Subject: Re: NSR data transfer issues

Thanks Manos, I rattled Mark Robinson's cage... should see a reach out...

> On Jan 28, 2020, at 3:01 PM, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> Hey Rodney,

>

> Circled back with my team and it appears that we had some problems with the last few shipments of data from NSR. We do not have any storage problems from our end, so what I would suggest we do is put Alex (CCed) in touch with someone in your team to both: fix the issues we have with the drives you sent to us but also speed up the process (so we can get the remaining data faster).

>

> While I do not think there is a call necessary, happy to jump on a call if you want me to.

>

> Thanks,

>

> —

> Manos Antonakakis | Associate Professor | manos@gatech.edu  
> School of Electrical and Computer Engineering  
> Georgia Institute of Technology  
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>

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Wednesday, July 26, 2017 7:39:59 PM  
To: DeJong, Steve <Steve.DeJong@team.neustar>; Kountouras, Athanasios <kountouras@gatech.edu>; Lever, Charles C <clever3@gatech.edu>  
CC: Joffe, Rodney <Rodney.Joffe@team.neustar>  
Subject: Re: proposal from GT

Thano, please work with Chaz to get the specs Steve needs for the docker instances.

Thanks,

—  
Manos Antonakakis | manos@gatech.edu  
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From: DeJong, Steve <Steve.DeJong@team.neustar>  
Sent: Wednesday, July 26, 2017 12:05:56 PM  
To: Kountouras, Athanasios  
Cc: Joffe, Rodney; Antonakakis, Manos  
Subject: Re: proposal from GT

Thanks. this appears fairly straightforward.

I have taken the initial step of working to get an AWS account set up since we already have other services working on AWS within Neustar. I also have several ideas regarding building the lists of interesting domains to look at - since we are already getting certain feeds from places like spamhaus and others.

Can you provide details of what is running on the docker instances?

Steve De Jong: Neustar, Inc.  
+1.206.604.3353

> On Jul 25, 2017, at 3:56 PM, Athanasios Kountouras <kountouras@gatech.edu> wrote:  
>  
> Hello,  
>  
> Here is the proposal from Georgia Tech by Manos and myself.  
>  
>  
> Thank you,  
> Thanos  
>  
> <proposal.pdf>

From: Keromytis, Angelos <angelos.keromytis@darpa.mil>

Sent on: Thursday, August 2, 2018 10:21:42 PM

To: Antonakakis, Manos <manos@gatech.edu>

CC: Hook, Lisa <lisa.hook@team.neustar>; Joffe, Rodney <Rodney.Joffe@team.neustar>

Subject: Re: Regarding HACCS

(I'm not 100% sure what it is that Manos is taking responsibility for.)

Lisa, Rodney, happy to talk to you and Charlie; I'd like to keep the conversation at that level to avoid the confusion that arises from having too many cooks in the kitchen. I'm scheduled to be in Atlanta until August 22), but I can get on a plane or a phone call earlier if needed.

Best,

-Angelos

> On Aug 2, 2018, at 16:14, Antonakakis, Manos <manos@gatech.edu> wrote:

>

> Hey Lisa,

>

> I would like to reiterate that I take full responsibility for the HACCS delay. The ECP (contract modification) between GT and DARPA takes time we are in the process of finalize this modification. At the same time, I would like to have Angelos relay the status of everything we are doing (HACCS and EA) in person --- especially if Charlie is available for a meeting. My understanding is that Angelos would be more than happy to swing by your offices.

>

> Many thanks,

>

> —

> Manos Antonakakis | manos@gatech.edu

> Georgia Institute of Technology

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>

From: "Antonakakis, Manos" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E6B0AFC581E477DB35A37C3A3A79AEB-ANTONAKAKIS>  
Sent on: Thursday, August 2, 2018 9:07:25 PM  
To: Hook, Lisa <lisa.hook@team.neustar>; Joffe, Rodney <Rodney.Joffe@team.neustar>  
CC: Keromytis, Angelos D CIV DARPA (US) <angelos.keromytis@darpa.mil>  
Subject: Regarding HACCS

Hey Lisa,

I would like to reiterate that I take full responsibility for the HACCS delay. The ECP (contract modification) between GT and DARPA takes time we are in the process of finalize this modification. At the same time, I would like to have Angelos relay the status of everything we are doing (HACCS and EA) in person --- especially if Charlie is available for a meeting. My understanding is that Angelos would be more than happy to swing by your offices.

Many thanks,

—

Manos Antonakakis | manos@gatech.edu  
Georgia Institute of Technology  
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**From:** "Keromytis, Angelos D" </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8F339093DC3C4BC7B981913B18F6BCFB-KEROMYTIS\_A>  
**Sent on:** Friday, February 12, 2021 1:38:36 AM  
**To:** Aldenberg, William B. (NH) (FBI)<wbaldenberg@fbi.gov>  
**CC:** Aldenberg, William (JMD)<William.Aldenberg@usdoj.gov>; DeFilippis, Andrew (JMD)<Andrew.DeFilippis2@usdoj.gov>  
**Subject:** Re: [EXTERNAL EMAIL] - Re: Interview with Angelos Keromytis

No problem, feel free to reach out if I can help with anything else.

On Feb 11, 2021, at 19:15, Aldenberg, William B. (NH) (FBI) <wbaldenberg@fbi.gov> wrote:

Angelos

Thank you for the information and taking the time to speak with us today.

Bill

-

On Feb 11, 2021 3:41 PM, "Keromytis, Angelos D" <angelos@gatech.edu> wrote:  
In case these help, since you asked related questions:

- First time I met Dave Dagon (that I have a record for) is on November 2015, at DARPA. Probably some emails prior/leading up to that, as I was doing the planning for the EA program (what datasets exist, what is technical possible/plausible, etc.)
- First time I met Rodney Joffe (again, that I have a record for) is on April 2016; intent was to find out about what data Neustar has/had that might be helpful to the program. Had a couple of follow-ons (not sure if meetings or phone calls) in June.
- First discussion with FBI (NCIJTF) about EA around February 2016. (We had prior interactions, going back to March 2015, about a different program.)
- First discussion with NSD/DoJ about EA ~December 2015 (although maybe also October 2015).

(These are from my calendar, so I have limited context.)

-Angelos

> On Feb 10, 2021, at 8:15 PM, Aldenberg, William (JMD) <William.Aldenberg@usdoj.gov> wrote:

>

> Angelos

>

> The meeting info is below.

**From:** McConnell, Kirk (Armed Services)<Kirk\_McConnell@armed-services.senate.gov>  
**Sent on:** Saturday, June 29, 2019 4:31:36 AM  
**To:** Antonakakis, Manos<manos@gatech.edu>; Rodney Joffe<Rodney.Joffe@neustar.biz>; Joffe Rodney<rjoffe@packetforensics.com>  
**Subject:** Fwd: connection for briefing on Enhanced Attribution

Well, Michael is quite a guy isn't he?

Sent from my iPhone  
Begin forwarded message:

**From:** "Farrell, Michael" <[michael.farrell@iisp.gatech.edu](mailto:michael.farrell@iisp.gatech.edu)>  
**Date:** June 28, 2019 at 4:41:00 PM EDT  
**To:** "McConnell, Kirk (Armed Services)" <[Kirk\\_McConnell@armed-services.senate.gov](mailto:Kirk_McConnell@armed-services.senate.gov)>  
**Cc:** Ian Crone <[ian.crone@darpa.mil](mailto:ian.crone@darpa.mil)>, "lisa.heyesh@darpa.mil" <[lisa.heyesh@darpa.mil](mailto:lisa.heyesh@darpa.mil)>  
**Subject:** Re: connection for briefing on Enhanced Attribution

Kirk,

Thanks for your interest in Georgia Tech research. However, we (GT) have no comment or position on the below. In fact, going forward please contact DARPA directly about any and all issues or questions or comments related to the enhanced attribution program. The DARPA congressional liaison and program manager are copied on this message and can respond, as needed. The Georgia Tech/GTRI PI and Co-PIs on this research program are not the appropriate POCs for any questions, comments, or concerns.

The government, not GT, makes decisions related to funding and transition from research at DARPA to other entities. The focus of Manos, myself and other Co-PIs is completely on doing impactful research. We follow contractual requirements and relevant policies for our part of this program (and GT is only one part), and devote our energy to 'creating the next' in cyber security.

Best,

Michael

On Jun 25, 2019, at 12:24, McConnell, Kirk (Armed Services) <[Kirk\\_McConnell@armed-services.senate.gov](mailto:Kirk_McConnell@armed-services.senate.gov)> wrote:

FYI. Andy is on the SAC-D staff. Andrew Pahutski from SCO is seeking approval from us on the Hill to shift some SCO money to Enhanced Attribution.

**From:** McConnell, Kirk (Armed Services)  
**Sent:** Tuesday, June 25, 2019 12:22 PM  
**To:** Heyes, Lisa ([lisa.heyesh@darpa.mil](mailto:lisa.heyesh@darpa.mil)) <[lisa.heyesh@darpa.mil](mailto:lisa.heyesh@darpa.mil)>; Vanlandingham, Andy (Appropriations) <[Andy\\_Vanlandingham@appro.senate.gov](mailto:Andy_Vanlandingham@appro.senate.gov)>  
**Subject:** connection for briefing on Enhanced Attribution  
Lisa –  
Andy Vanlandingham is interested in learning more about DARPA's Enhanced