### Welcome to NANOG 64

Daniel Golding
Chair - NANOG Board of Directors

# What makes a NANOG Conference Different

- Attendee Demographics
- Peer Reviewed Program
- The Difference between a Full NANOG Conference and NANOG on The Road
- Commitment to supporting New Operators
- College Immersion Program
  - > NANOG College Immersion Students
  - > Fellowships
- Vendor Neutrality
  - Sponsorship Premium and Individual Meeting Sponsor Support

# Why NANOG and What to Expect at NANOG 64

- General Session Content
- ❖ Tracks
- Tutorials
- Lunch Monday & Tuesday
- Social reminder for Monday night, BnG Tuesday, and Tuesday night Social

### Welcome All!

- ❖ Newcomers Approx. 374 attending their first NANOG Meeting
- ❖ Members 223 of 718 total attending NANOG 64
- Attendees 1162 largest NANOG meeting

# Thanks to our Host, Connectivity, Premium and Infrastructure Sponsors!































## NANOG 64 Host Welcome!

## Aaron Klink - Network Strategy Manger, Netflix Premium Sponsor

## NANOG 64

## Where is Dave?

## The "Net" in Netflix

#### Netflix @ NANOG 64



















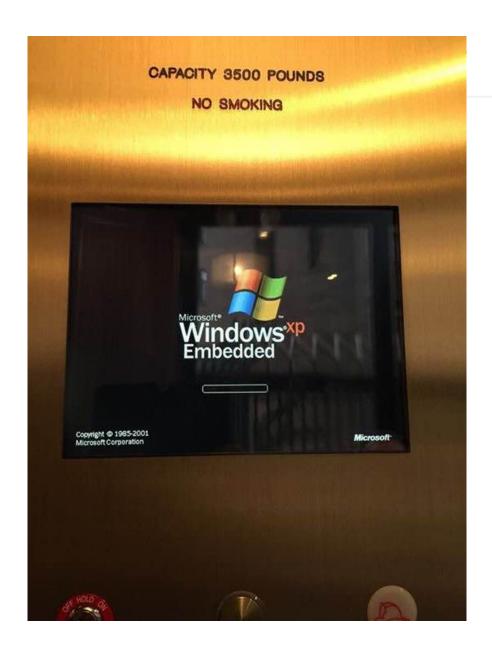














# jobs.netflix.com

# NANOG 64 Connectivity Welcome!

Mike Vogel
Director, Comcast Wholesale
Premium and Connectivity Sponsor



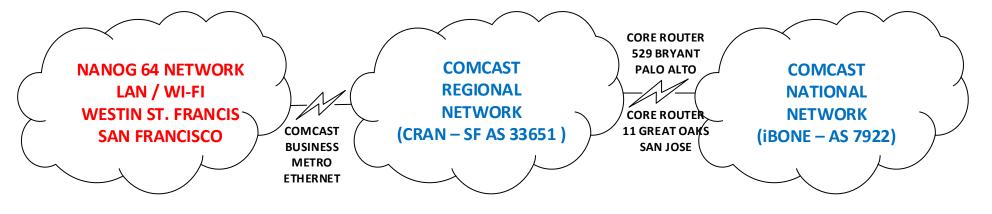
Mike Vogel
Director | Comcast Wholesale



#### **NANOG 64 Connectivity Sponsor**

### METRO ETHERNET / DEDICATED INTERNET ACCESS FIBER / CWDM / IPV4 / IPV6 / BGP

STANDARD BUSINESS CUSTOMER PROVISIONING PROCESS FOLLOWED FOR INSTALLATION





COMCAST **BUSINESS** 





#### **About Comcast**



#### **Communications** • Information • Entertainment

**Cable Communications** Cable Networks Broadcast Film / TV **Parks** Other **xfinity** FreeWheel SERVING THE VIDEO REVOLUTION **NBC** Comcast SPOTLIGHT. FOCUS **FANDANGO** UNIVERSALTELEVISION COMCAST BAB BUILT FOR BUSINESS BUSINESS UNIVERSAL HD oxygen the Platform mun<sup>2</sup> carnival chiller Comcast COMCAST **\*** (comcast.) **WHOLESALE** BLUM 🛍 OUSE Esquire PRODUCTIONS COMCAST VENTURES. Beijing (2019)



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Live Streaming on X1

Open Source Participation

4K/UHD Set-Top Box

COMCAST BEGINS
ROLLOUT OF
RESIDENTIAL 2 GIG
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METRO AREA



W74, 2015

MAY 19, 2015

COMCAST TO LAUNCH 4K ULTRA HIGH-DEFINITION SET-TOP BOX





COMCAST

RECOMMENDED STORIES



#### **NBCUniversal (Pictures and Television)**



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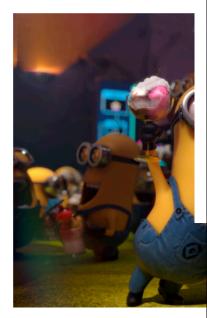
TV +

HOME | FILM | NEWS

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**EMAIL** PRINT TALK







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#### **Break Sponsor / Meeting Availability**

#### Monday, June 1 – Afternoon Break

Information Table and Entry for Wednesday Give Away

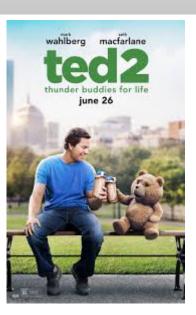
Enter to win...

NBCUniversal Gift Basket / Fandango gift cards

2:30 PM











# NANOG 64 Connectivity Welcome!

Jack Waters, Chief Technical Officer, Level 3 NANOG 64 Connectivity Sponsor

## NANOG 64 Agenda Opening!

Tony Tauber
Chair - NANOG Program Committee

# Thank You to the Members of the Program Committee

- Jeff Bartig
- Christina Chu
- Philippe Couture
- Paul Ebersman
- Allison Feese-Strickland
- Greg Hankins
- Elisa Jasinska
- Anton (Tony) Kapela

- Manish Karir
- L. Sean Kennedy (Vice Chair)
- Randy Neals
- Matt Petach
- Michael Sinatra (Secretary)
- Tony Tauber (Chair)
- Krassi Tzvetanov
- John van Oppen
- Ryan Wooley

## **Program Notes**

- New PC Tool Agenda/Guidebook Automation
- Grand Ballroom sessions will be webcast/archived
  - See Agenda notation
- Other sessions video recorded where possible
- Two-part Tutorial on Tuesday (Network Coding 101)
- Peering Track (Separate from Peering Personals)

## Highlights and Mini-Themes

- Regulatory
- Automation
- IPv6
- New Architectures and Technologies
- Measurement
- Security
- S\*\*

### **General Reminders**

- Breaks and Espresso Bar
  - Outside of General Session
- Breakfast and Lunch
  - Monday and Tuesday Overflow on 32nd Floor
- Q&A and Microphone Guidelines
  - Introduce yourself Name and Affiliation
  - Questions brief and to the point not statements
  - Be courteous and respectful

## Surveys

- Daily "Presentation Survey" Giveaway
  - Take online via the web or guidebook
  - Awards
  - 1 Tuesday
    - for Monday Surveys
  - 1 Wednesday Morning
    - for Tuesday Surveys
  - 1 Wednesday Afternoon
    - for Wednesday Morning Surveys

### Introduction of First Speaker

# Chris Witteman, California Public Utilities Commission