

Summary  
Science Satellite Communications  
Meeting  
Day 2

20 May, 2009

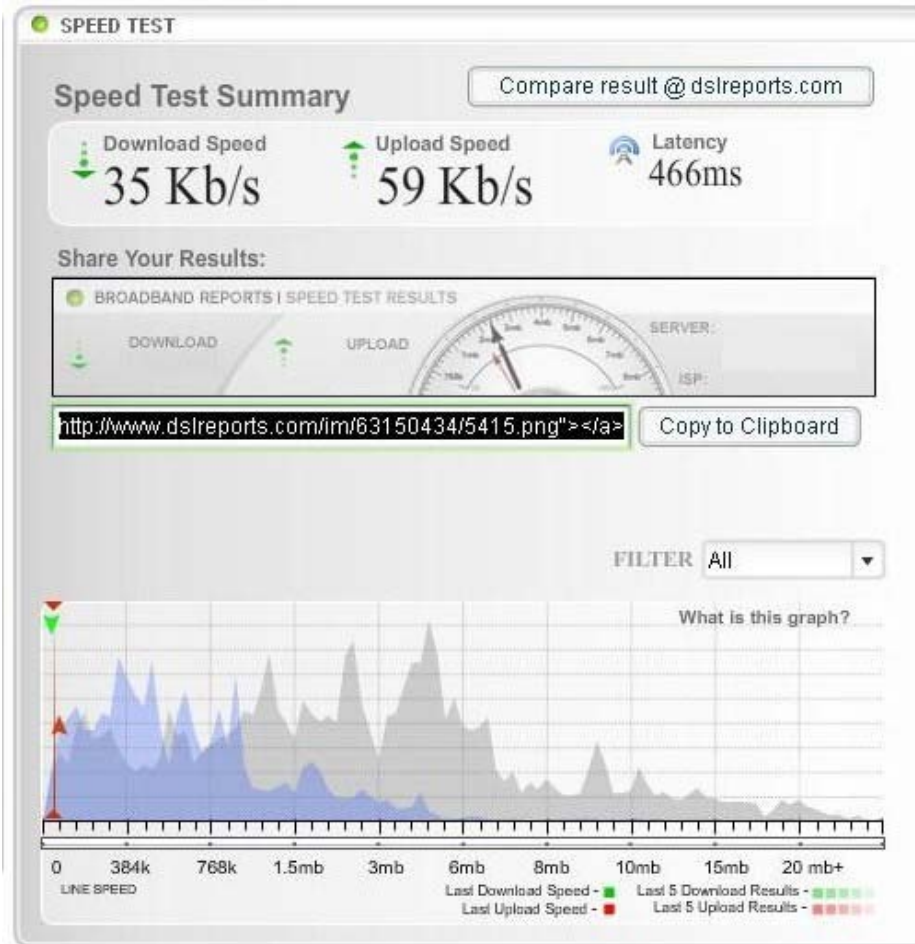
# Pricing Systems

- Pay for time
  - Fleet Broadband - Streaming, SeaNet, Iridium, Inmarsat B
- Pay for traffic – Always On
  - Fleet Broadband, KVH
- Pay for bandwidth – Always On
  - KVH, MCS, HSN

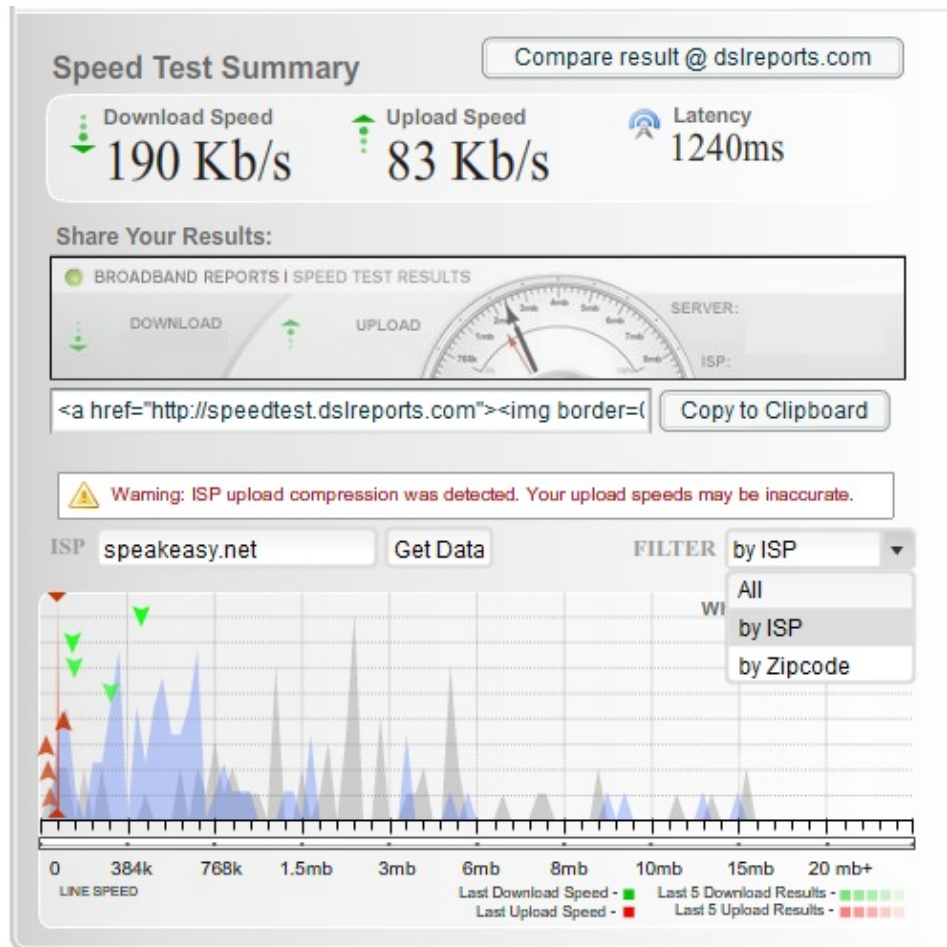
# Speed Tests

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- <http://www.dslreports.com/speedtest?java=1>
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- From the website
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- “This test is a transfer of random binary data in both directions. The test *stages*, it starts with small transfers and moves to larger ones until a minimum amount of time has passed during the transfer to provide a good measure. Unlike FLASH based speed-tests, our upload payload cannot be compressed, so it gives the correct result even on satellite or wireless connections.”
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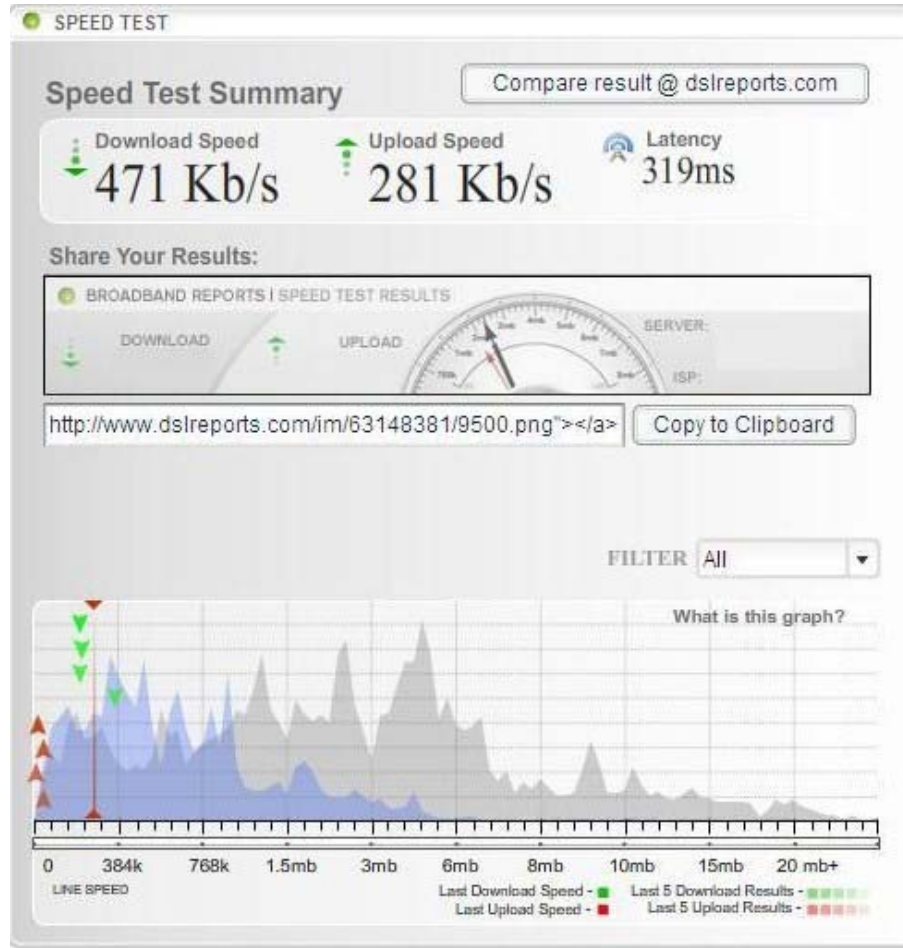
# HSN C-Band 96/64+



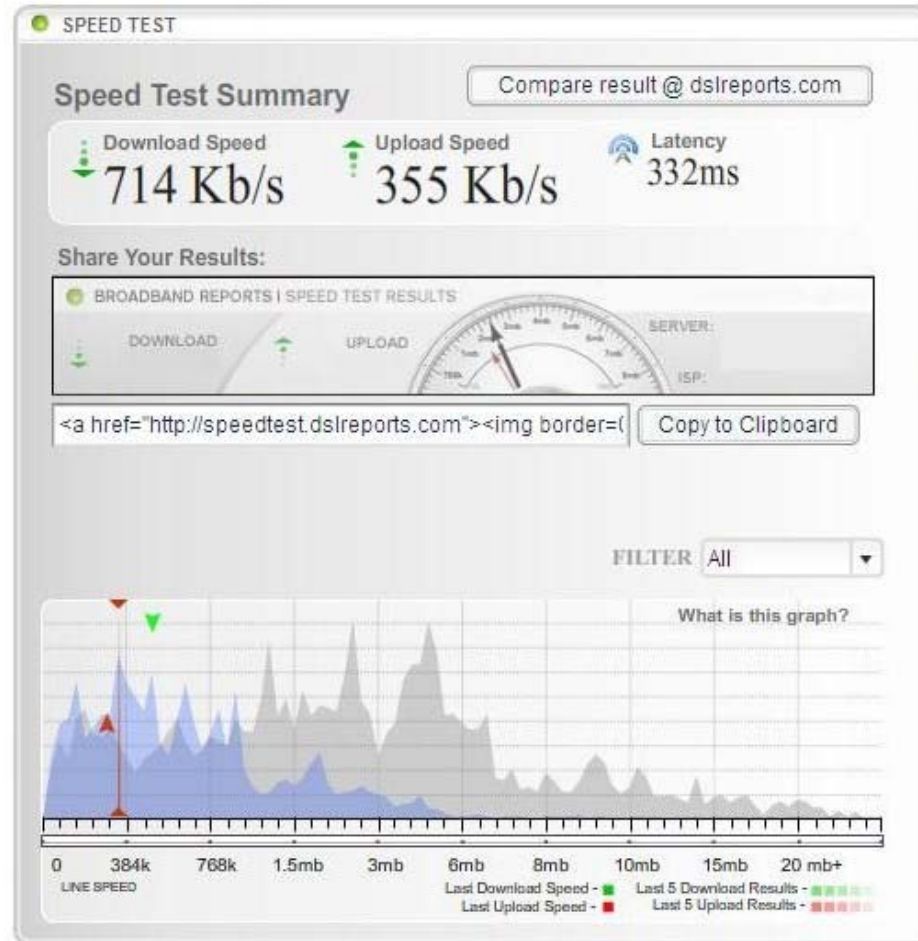
# Fleet BB



# KVH 512/256



# MCS 512/512



# Desired Characteristics

- 128 kbps Full duplex (Unlimited & CIR)
  - With up to 2X burst
- Maintenance visits, 2X per annum
- Coverage/handoff between beams
- IP/Routing configuration flexibility
- “Out of Band” management
- Determine hardware upgrade costs
- Create a web page for statistics from all users
- Phone terminal – with  $n$  phone lines
- Streaming capacity for video, at times
- 24/7 User support/Help desk
- Flexibility to up the bandwidth on a bi-weekly basis, if/when necessary