

Framing the Problem

Robb Topolski

robb@funchords.com

The P2P File-Sharing Problem

- Hundreds of active connections
- Tricks congestion control
- Designed to take all bandwidth

NOT GUILTY

FIXES?



*Rushing toward
solutions without
understanding
the cause is not
a sound process.*

5.

6.

7.

Congestion Facts to Know

...or how can anyone predict success or failure?

Evidence and Artifacts (data) about:

- Where is it (First mile, last mile, network boundaries, inbound, outbound)?
- How bad, how often, how long, trends?
- Effects?
- Deeper root causes?
- Prior experiences? Any remaining solutions available?

Summary

- Many aspects of the “P2P file-sharing problem” do not stand up to scrutiny
- In Systems, we fix problems as close to the root cause as possible, otherwise we’re fixing “effects.”
- Increased bandwidth consumption has been and will be ever-growing

“PROCESS CHECK!”

- “Problem-solving” requires verification of the cause(s) with data and testing

HIDDEN SLIDE

- Animations are timed, no need to click within a slide
- The two main points are in slides 2 and 4
 - Slide 3 is just to emphasize a point
- Entire presentation is 5 minutes or less