



*(Long-Term) Reporting Metrics:
Different Points of View
(not an alternative, it's complementary)*

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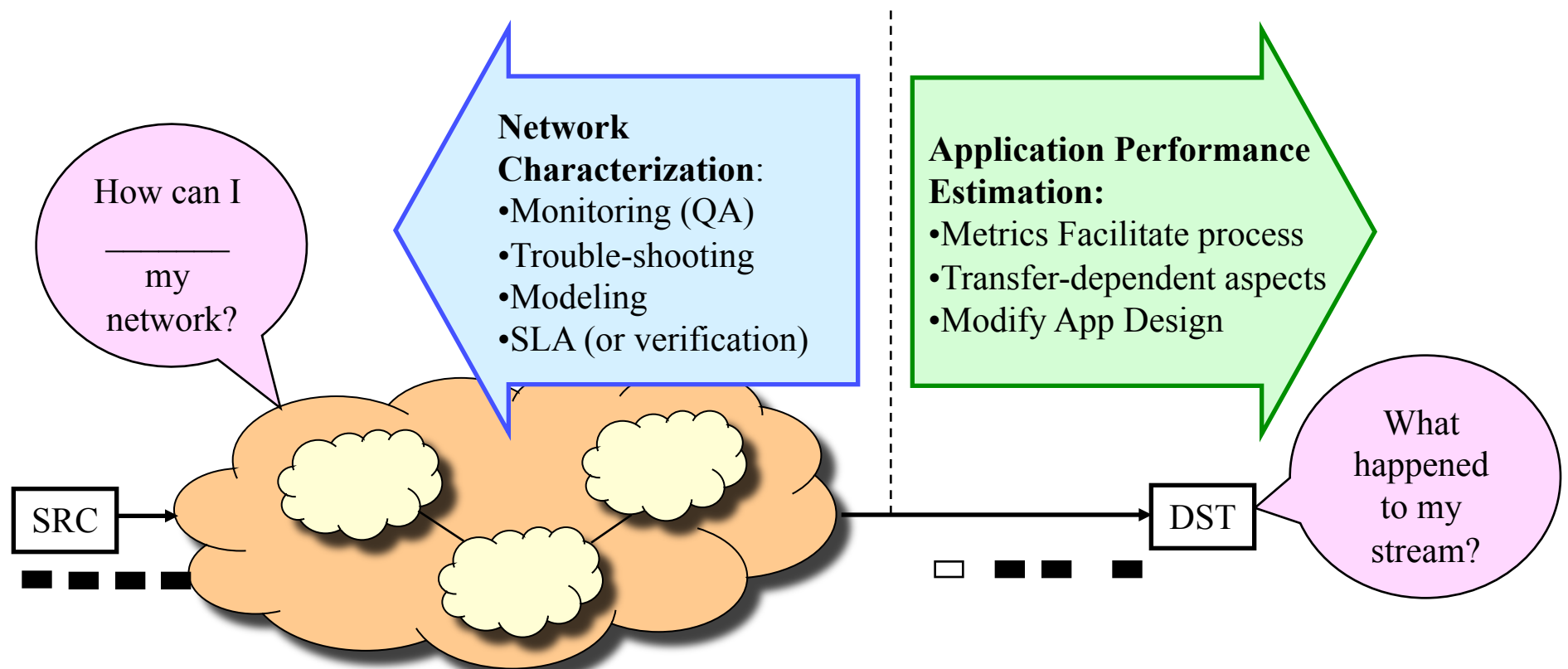
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Different Points of View (POV): 2 key ones

- When designing IP measurements and reporting results, **MUST** know the Audience to be relevant
- Key question: “How will the results be used?”



Versions 06 and 07 Status

- **Last Comments from Steve Konish (2008)**
 - ➔ **Section 4 reorganized**
 - ✦ **New sub-sections to help with this.**
 - ➔ **Clarified the meaning of processing "forks"**
- **Section 6 (Focus on Reporting) now:**
 - ➔ **Summarizes results for each metric, loss, delay delay var.**
 - ➔ **Discusses Long-Term Reporting**
 - ➔ **Advantages of Short term collection to support Long term reporting**

Summary of Recommendations so far:

- **Set a LONG Loss threshold**
 - Distinguish between Long Finite Delay and Loss
 - Avoid truncated distributions
- **Delay of Lost Packets is UNDEFINED**
 - Maintain orthogonality – avoid double-counting defects
 - Use conditional distributions and compute statistics
- **Report BOTH Loss and Delay**
- **Report BOTH the Sample Mean and Median.**
 - Comparison of the Mean and Median is informative
 - Means may be combined over time and space (when applicable)
 - Means come with a weighting function for each sample if needed, the sample Size, and Loss simply reduces the sample size
 - Means are more Robust to a single wonky measurement when the sample size is Large
- **Move the Industry Away from “Average Jitter”**
 - Use the 99.9%-ile minus minimum PDV
 - Portray this as a Delay Variation “Pseudo-Range”

What's Next?

- **Finish the WG draft on Short-term reporting, then**
- **Recognize:**
 - ➔ **This work Complements the current (short-term) draft, without the restrictions brought-on by producing a result every 10 seconds**
 - ➔ **And, nothing in this draft precludes people from assigning infinite delay to lost packets – this may serve some 3rd POV**
 - ✦ **I think this last point resolves much of the controversy about what this draft recommends!**
- **Need Additional IPPM people to**
 - ➔ **Volunteer to read the draft (some already have)**
 - ➔ **agree this is worth pursuing**
 - ➔ **Material in this draft is referenced in other work...**