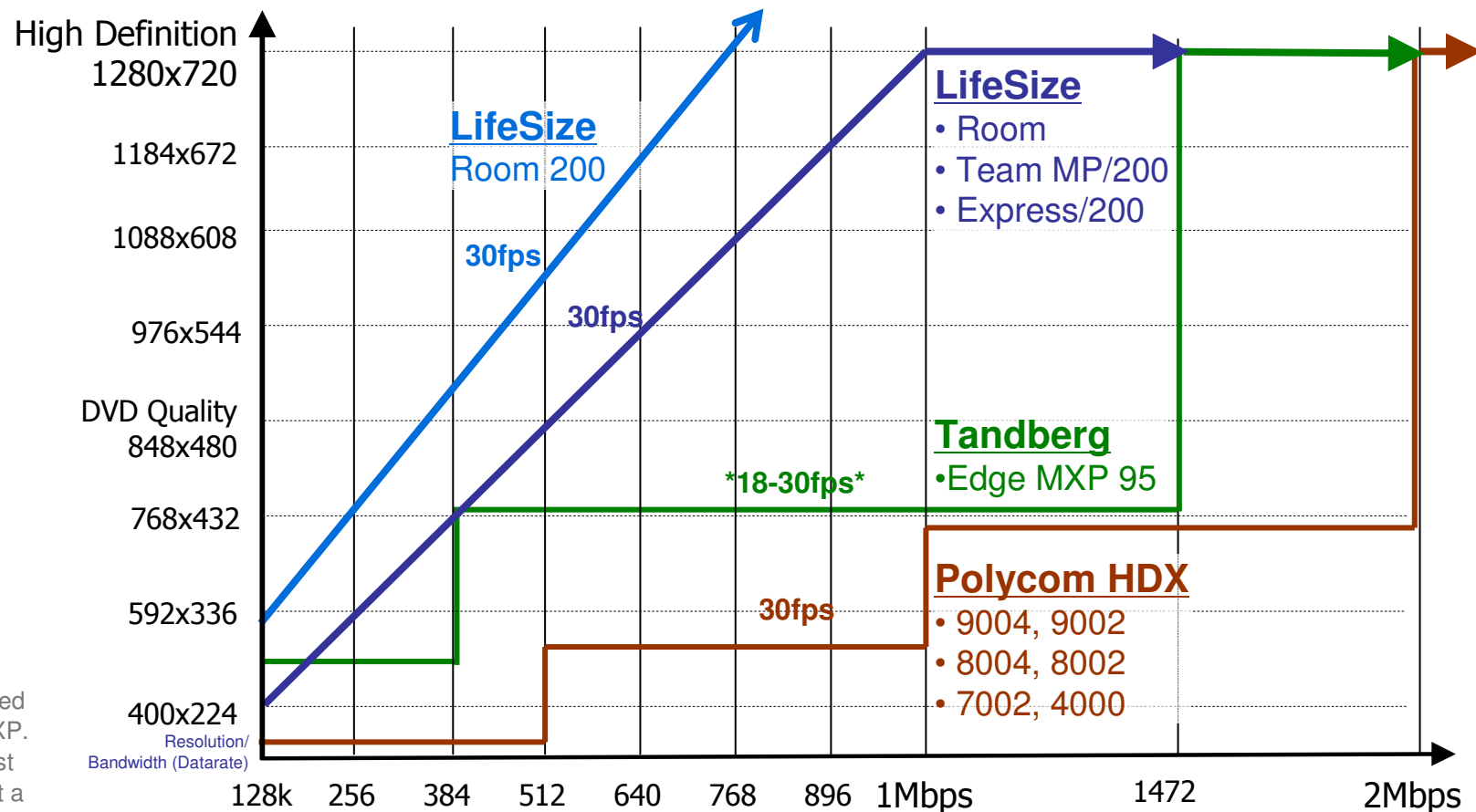# The LifeSize Performance Advantage

**LifeSize®**

LifeSize HD video communications systems deliver the best video performance available.   LifeSize systems are designed from the ground up to optimize the communications experience.   Our architecture enables maximum video processing efficiency, encoding and decoding performance.  The result is the highest resolution available always with full frame rate for fluid images regardless of bandwidth or motion in the picture.

In a head-to-head comparison, LifeSize systems outperform competitor systems by delivering superior video quality at any bandwidth.

- LifeSize delivers the highest quality of experience any bandwidth
  - 720p 30fps at 1Mbps
  - DVD Quality at 512k

- At most bandwidths, LifeSize systems deliver 2-4x the performance of the competition

- LifeSize Room 200 outperforms all other systems
  - 720p 30fps at 768k
  - DVD Quality at 384k

LifeSize HD systems were compared to Polycom HDX and Tandberg MXP. Systems were set to "motion" to test image quality across bandwidths at a constant 30fps.  We were unable to achieve HD encode and decode with the Tandberg MXP.

## LifeSize Performance and Flexibility at 720p, 30 frames per second



Chart axes — vertical: Resolution/Bandwidth (Datarate): High Definition 1280x720, 1184x672, 1088x608, 976x544, DVD Quality 848x480, 768x432, 592x336, 400x224. Horizontal: 128k, 256, 384, 512, 640, 768, 896, 1Mbps, 1472, 2Mbps.

**LifeSize** Room 200 — 30fps, 30fps

**LifeSize**
- Room
- Team MP/200
- Express/200

**Tandberg** •Edge MXP 95 — *18-30fps*

**Polycom HDX** — 30fps
- 9004, 9002
- 8004, 8002
- 7002, 4000

Sources:
- Administrator's Guide for Polycom HDX Systems Version 2.5 and test call data with Polycom HDX 9004 Software 2.5.0.1
- Tandberg Edge 95 MXP version 7.2.  In test calls we were unable to achieve simultaneous HD decode or sustain 30fps encode when MXP was set to motion.  Best available decode was 880x496p 30fps.  Encode frame rate varied between 18-30fps with motion in the frame
- LifeSize Team MP with software 4.1.1 was used for all test call.  All systems set to motion to sustain frame rate

# The LifeSize Performance Advantage

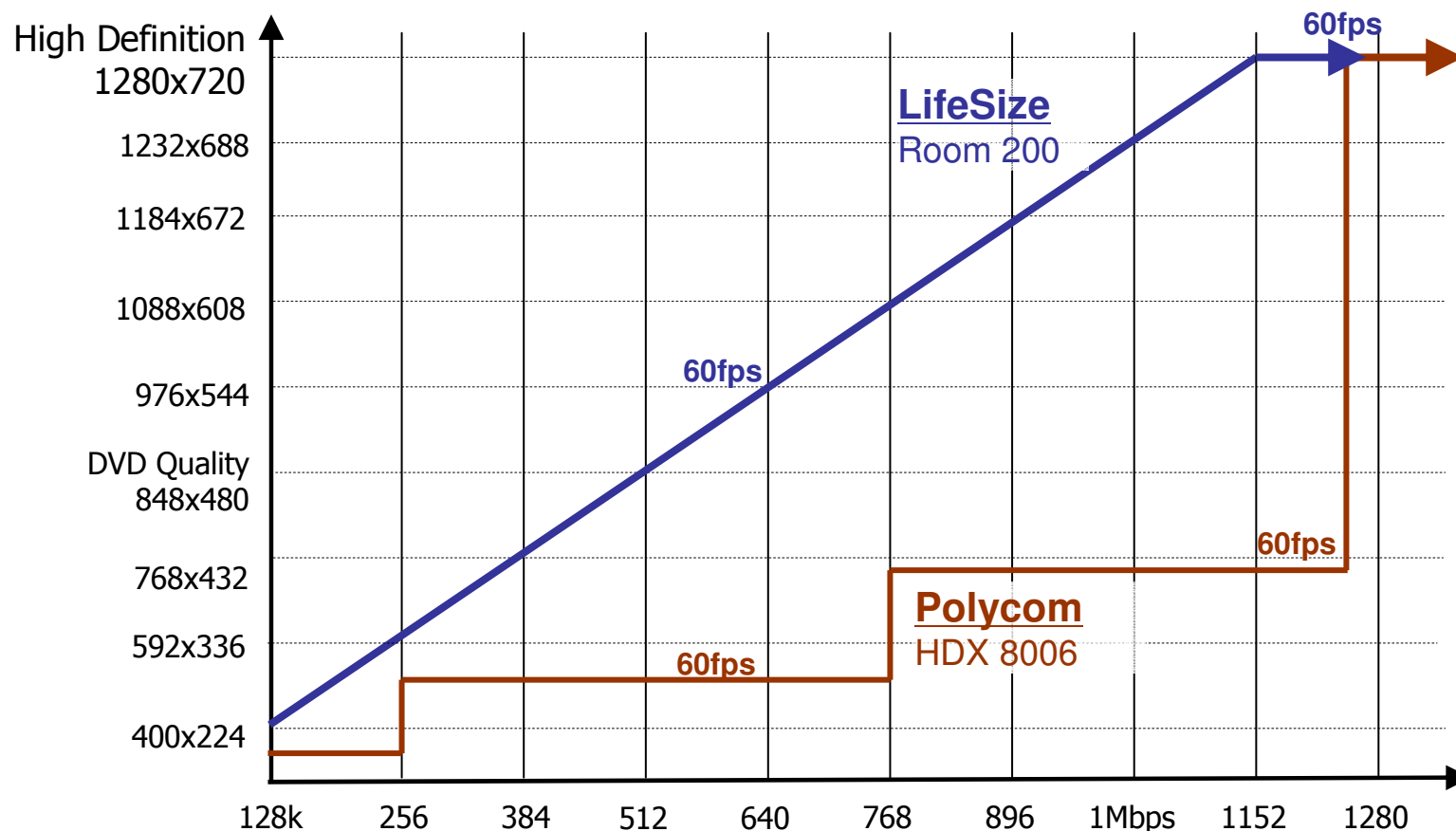## LifeSize Performance and Flexibility at 720p, 60 frames per second

LifeSize Room 200 is the highest performing video endpoint available
- HD 60fps at 1.1Mbps
- DVD 60fps at 512k

LifeSize Room 200 outperforms HDX 8006 by 2x below 1.2Mbps

At as little as 384Kbps, LifeSize Room 200 delivers high quality 768x432p video at 60fps

LifeSize Room 200 was compared to Polycom HDX 8006 at varying bandwidths when set to motion for a constant 60 fps. Tandberg C90/C60 were excluded because they do not support 720p60.

**High Definition**
1280x720
1232x688
1184x672
1088x608
976x544
**DVD Quality**
848x480
768x432
592x336
400x224

128k   256   384   512   640   768   896   1Mbps   1152   1280

**60fps**

**LifeSize** Room 200

**60fps**

**Polycom** HDX 8006

**60fps**

**60fps**

Sources:
- Administrator's Guide for Polycom HDX Systems Version 2.5.  LifeSize and Polycom systems set to motion to sustain frame rate
- LifeSize Room 200 with software 4.1.1 was used for all test calls.  System set to motion to sustain frame rate

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