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# **IPTV-interface open source software**

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# Content

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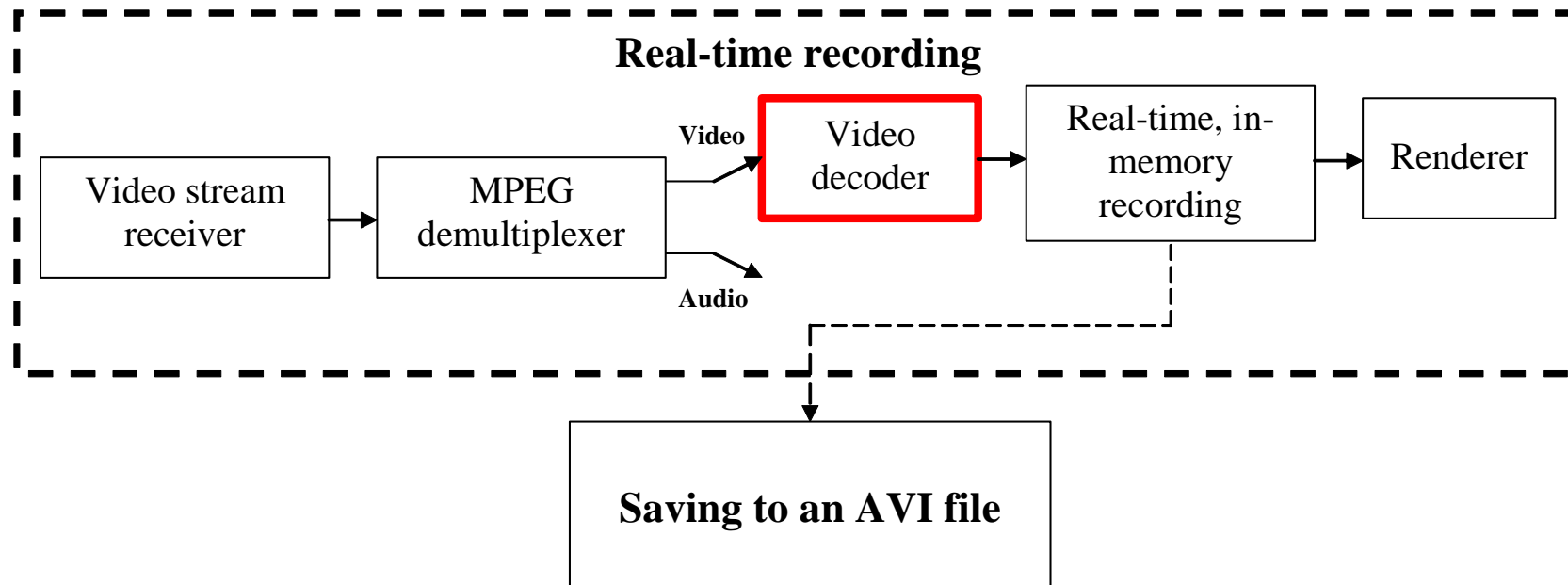
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# VQM



- VQM is a Reduced Reference method
- VQM offline version can be used for evaluating quality of different compression settings and shorter transmission test
- iVQM inservice version i.e can be used to monitor quality in networks (only for PCs with TV-cards)
- Acreo developed an IPTV-interface

# IPTVinterface: functional diagram



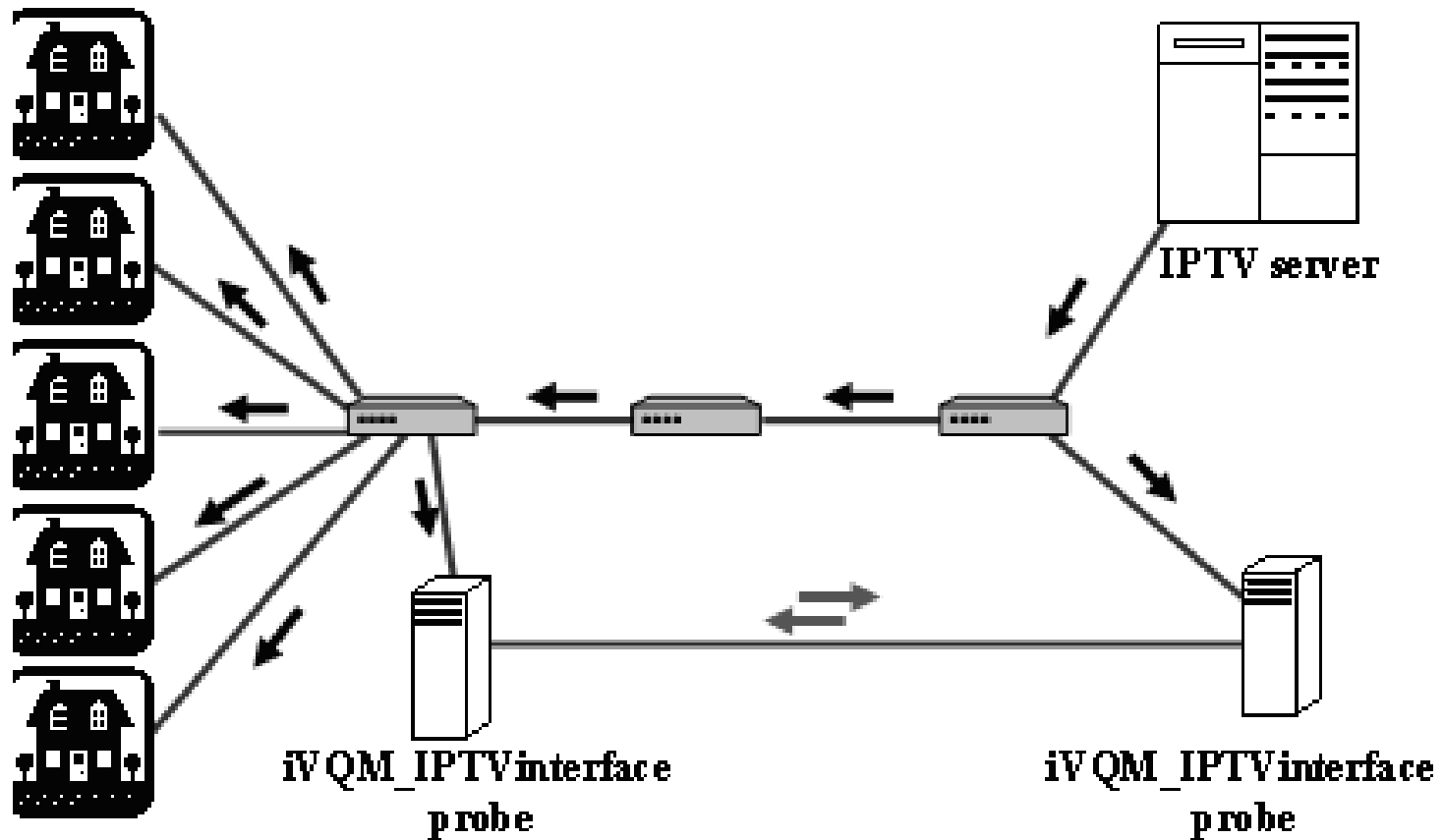
# IPTVinterface: characteristics

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- 2 programming interfaces:
  - Matlab DLL (for iVQM)
  - Stand-alone, command-line executable
- Written using the MS DirectShow Framework:
  - Uses external, standard decoders (not limited to MPEG)
  - Windows only
- The video codec used is hard-wired
  - To guarantee that both probes use the same codec !

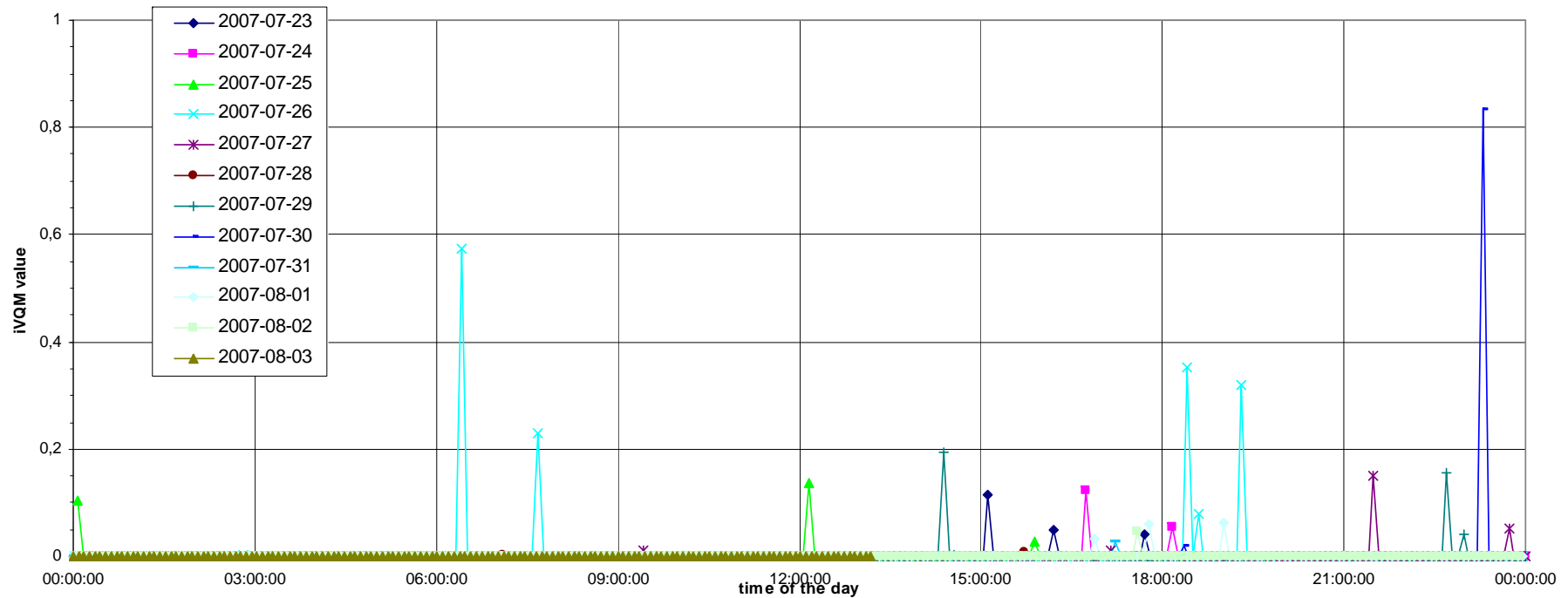
# Testing scenario



# iVQM measurements



iVQM with a common video source



# Conclusions

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## **IPTV interface**

- Open source software for grabbing IPTV ([www.acreo.se/iptvinterface](http://www.acreo.se/iptvinterface))
- It has been tested to run with the iVQM
- The decoder can be easily changed
- The software is stable to run for several weeks
  
- Some unexplained issues with interfacing with iVQM still remains