

Modular P2P Multicast in Wireless Ad-hoc Networks

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Goal:

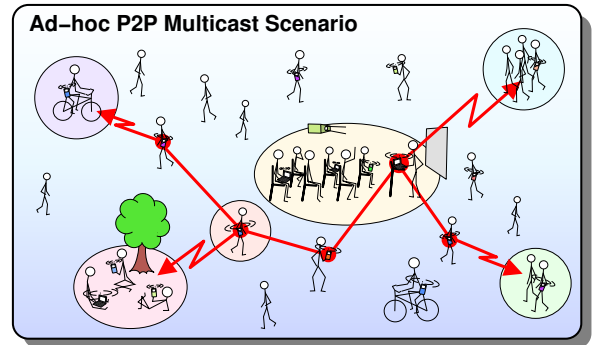
- Fully customizable and flexible multicast service
- Support variety of applications

Problem:

- Applications diverge in their requirements regarding data delivery (reliability, latency, ...)
- The service's required customizability complicates its deployment on the network layer

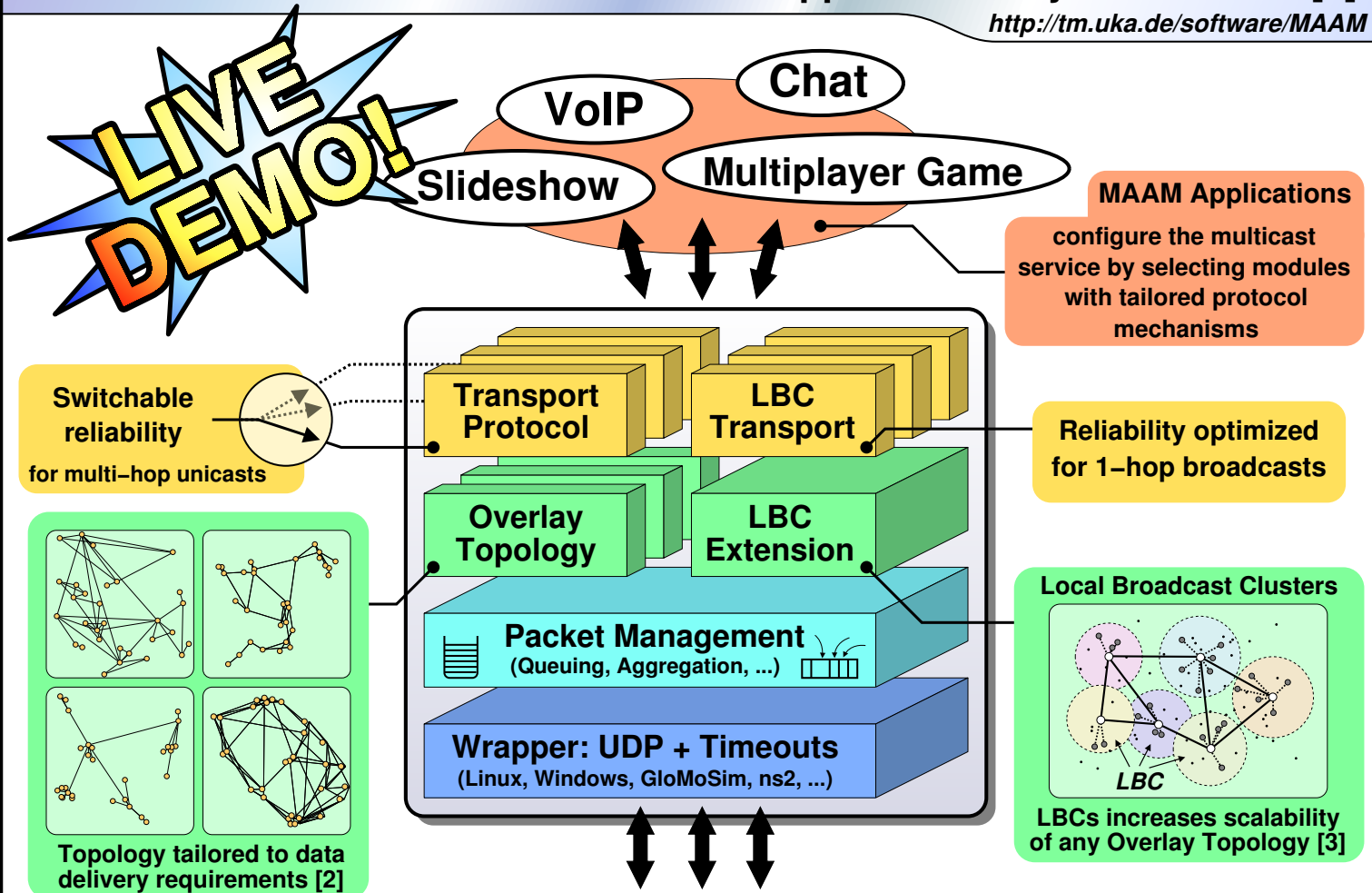
Approach:

- Use modular application-layer software!



► MAAM: The "Modular Architecture for Application-Layer Multicast" [1]

<http://tm.uka.de/software/MAAM>



... a step towards the flexible, adaptive Future Internet!

[1] P. Baumung, "On the Modular Composition of Scalable Application-Layer Multicast Services for Mobile Ad-hoc Networks", Workshop on Wireless Ad-hoc and Sensor Networks, New York, USA, June 2006

[2] P. Baumung, "TrAM: Cross-Layer Efficient Application-Layer Multicast in Mobile Ad-hoc Networks", IEEE Wireless Communications and Networking Conference, Hong Kong, China, March 2007

[3] P. Baumung, M. Zitterbart, K. Kutzner, "Improving Delivery Ratios for Application-Layer Multicast in Mobile Ad-hoc Networks", Elsevier, Computer Communications, Vol. 28 (14), March 2005