

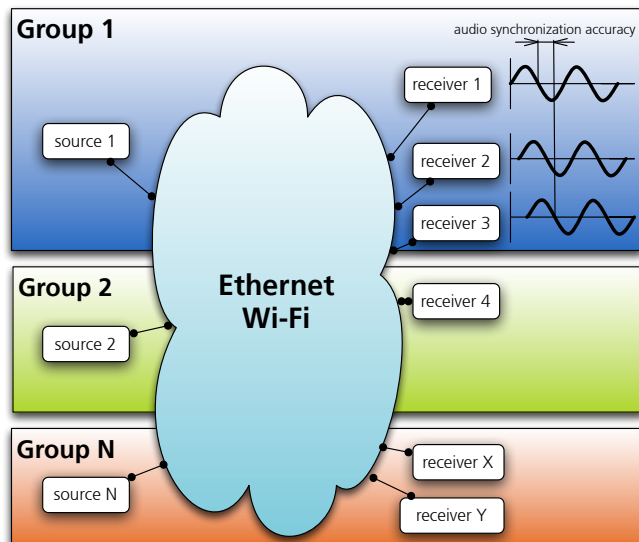
# Multiroom Audio

IP Based, Silicon Independent Framework



## Description

StreamUnlimited's silicon platform independent Multiroom Audio Framework enables the distribution of any audio content in realtime via any IP based network (Wi-Fi, Ethernet, etc.). Devices can act as source and/or receiver and can be organized into zones. The audio synchronization accuracy between the receivers is lower than 2ms, and the default audio quality matches mp3@256kbps (16Bit/48kHz) - although the architecture allows the use of different audio distribution formats to fulfill any quality criteria.



## Platform support

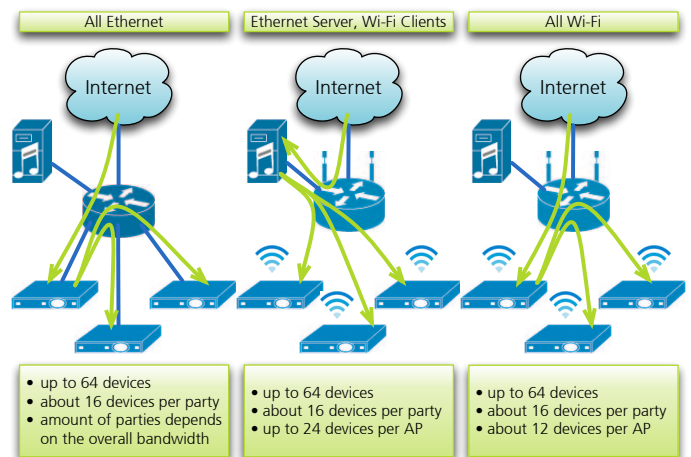
- Linux
- ARM9, Cortex-A8, x86
- Texas Instruments, Intel, and others

## Features

- Audio synchronization accuracy: <2ms
- Network redundancy, error correction
- Graceful degradation of audio in case of unrecoverable errors
- Audio from any source can be distributed
- Automatic discovery of receivers and sources
- User interface for hosting and selecting parties
- Compensation of latencies introduced by device specific processing units
- Portable onto any hardware platform

## Typical use cases and performance

As the multiroom framework separates the network topology from the audio distribution, the network performance itself will define the limiting values. If the end system can rely on proprietary Wi-Fi network equipment or reduced audio quality is used, the below mentioned figures can be boosted. Shown performance figures are for current standard networking infrastructure devices.



## About StreamUnlimited

StreamUnlimited is an integrated embedded engineering house focusing on innovative and quality products. We have high level competences in Connectivity and User Interface Technology, powered by a strong background in Audio and Video. We provide development and integration services to our customers. StreamUnlimited also offers a range of fully featured digital modules.

## Further information

StreamUnlimited Engineering GmbH  
Gutheil-Schoder-Gasse 10 1100 Vienna, Austria  
Phone: +43 1 667 2002 4014  
E-mail: [sales@streamunlimited.com](mailto:sales@streamunlimited.com)  
<http://www.streamunlimited.com>

Copyright 2014 StreamUnlimited. All rights reserved. Reproduction in whole or in part is prohibited without the prior consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate but may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. All trademarks included herein are the property of their respective owners.