

Touch screen control for digital mixing consoles

Brent Shaw

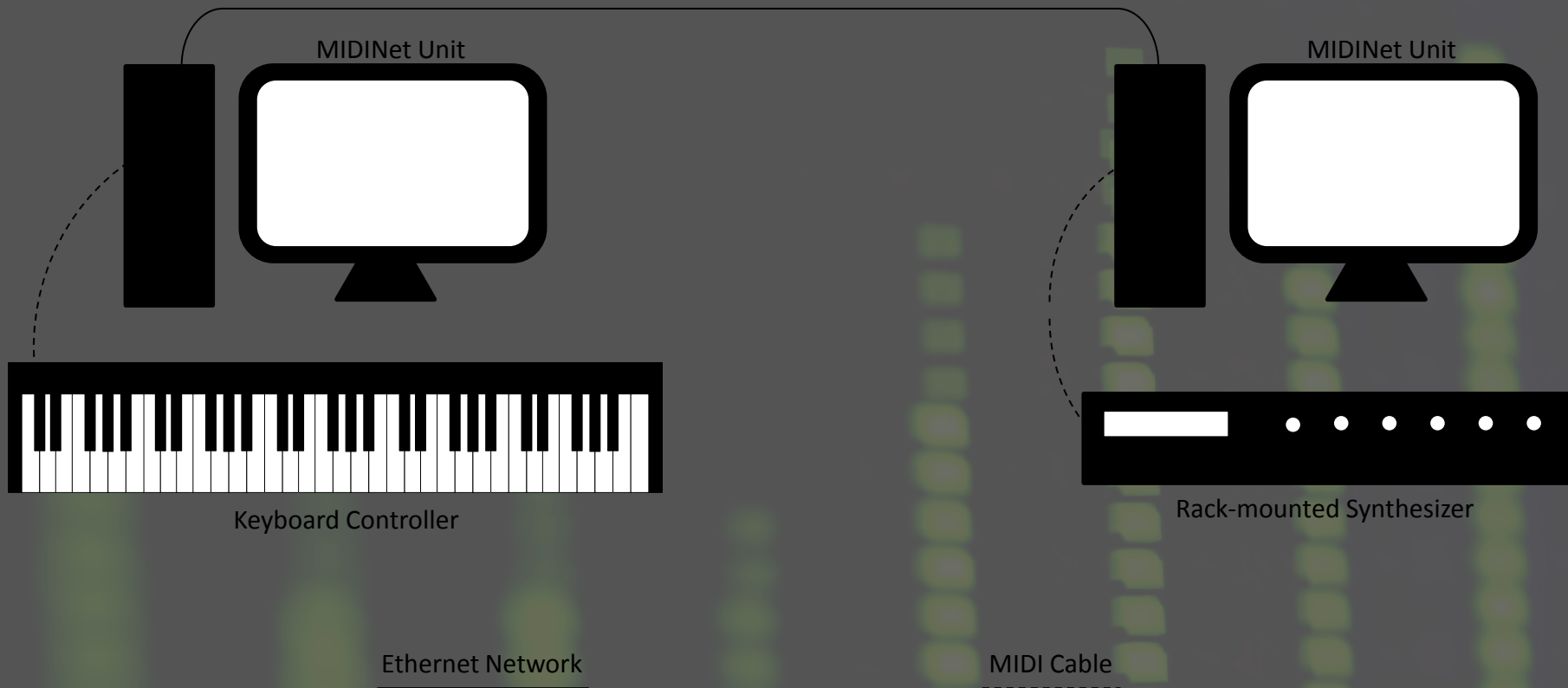
Sooooo...

- A quick recap
- Changes to the project
- Project progress
- Deliverables
- Demo
- Summary

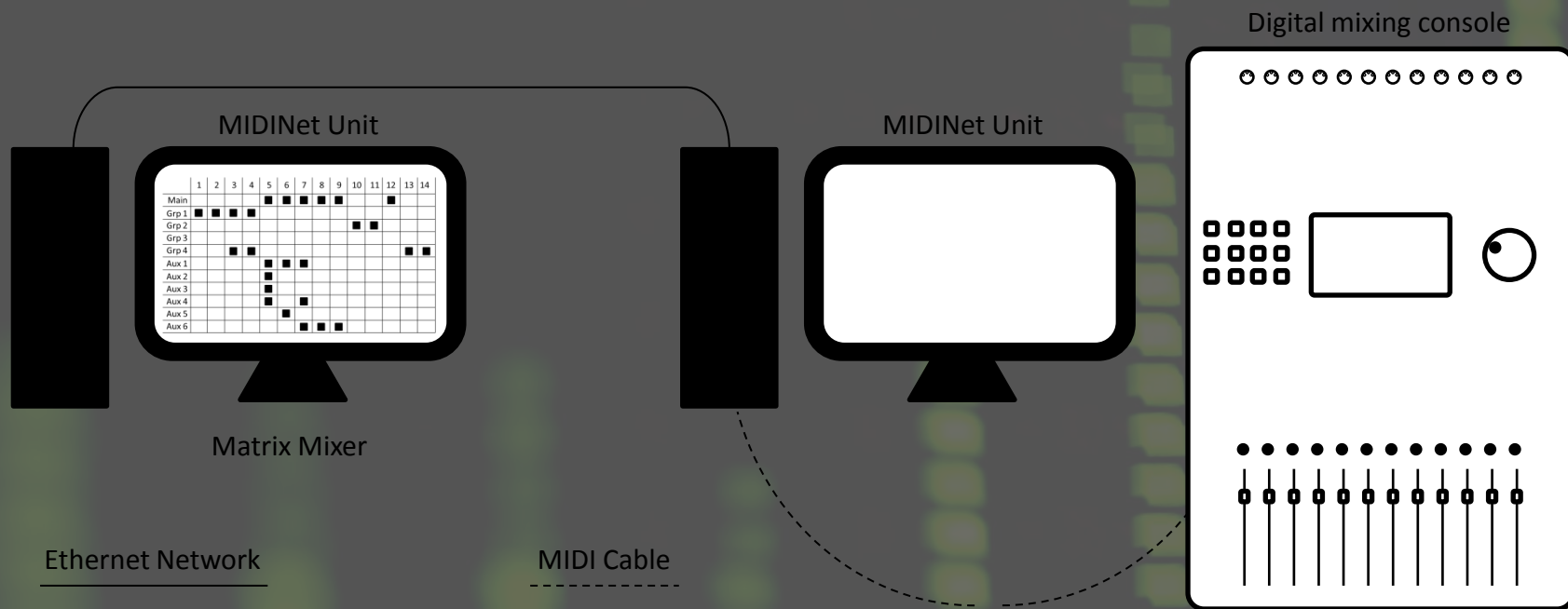
A quick recap

Aim of the project was to produce a system that allowed a user to control a digital mixing console using Wi-Fi from a touch screen tablet.

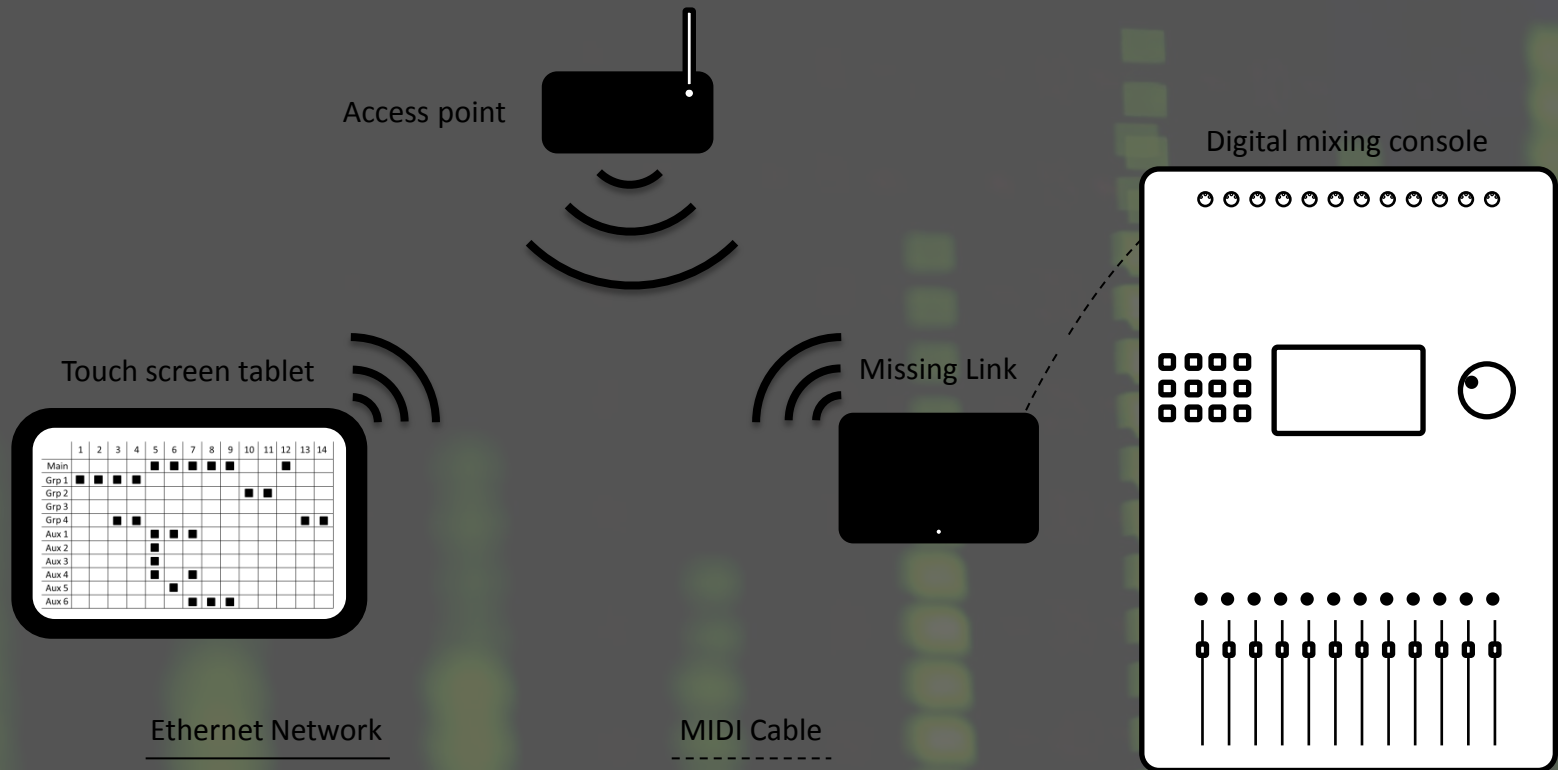
MIDINet



MIDINet



MIDINet



Changes to the project

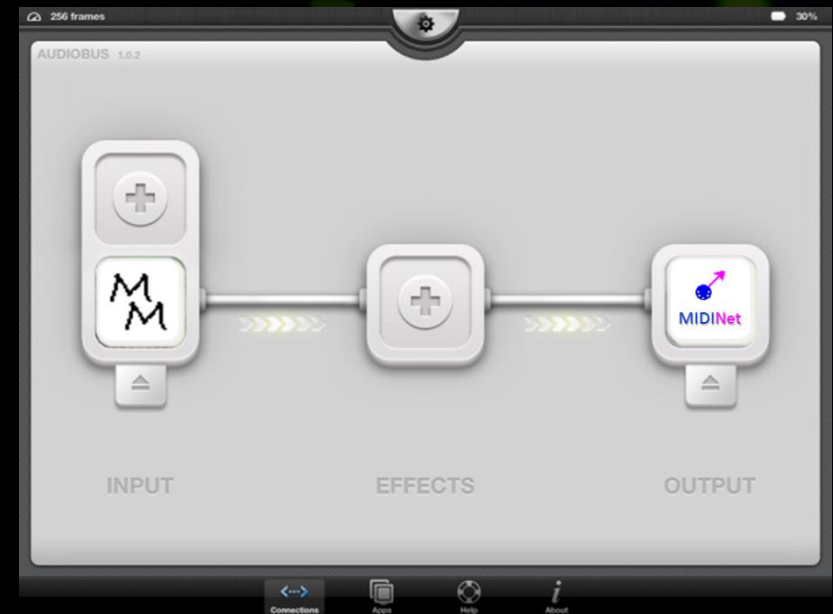
- GUI (Matrix Mixer) to be rebuilt for the iPad
- MIDINet to be rebuilt for the iPad
 - Stand alone application
- AudioBus to be used for routing MIDI internally
- Missing Link to run modified version of MIDINet
 - No way for user to manage MIDINet on Missing Link

Matrix Mixer & MIDINet

- Matrix Mixer and MIDINet have now been created as JUCE projects so that they can be compiled for various system
 - Linux, XCode, iOS, Andriod, Visual Studio
- Latest version of JUCE
 - Cross-platform C++ Library

AudioBus

- AudioBus is an application that can be used for routing audio and MIDI between applications
- This allows for the use of more generic applications to be used together on a device (such as an iPad)



Timeline

Date	Task
✓ 01-03-2013	Submit project proposal.
✓ 08-03-2013	Have working knowledge of Philip Foulkes's thesis and identify sections relevant to this project.
✓ 12-03-2013	Project Seminar: Introductory presentation explaining the research goals and what the project will entail.
✓ 18-03-2013	Understand operation of Yamaha 01V96. Have experience in using Philip Foulkes's control application.
✓ 08-04-2013	Set up and use MIDINet system for control using desktop computers.
✓ 15-04-2013	Start development of iPad application.
✓ 29-04-2013	Begin reprogramming of Missing Link to incorporate MIDINet.
22-08-2013	Working iPad control application.
22-08-2013	Missing Link running MIDINet. Capable of controlling Yamaha 01V96 using iPad over wifi.
23-09-2013	Capable of controlling multiple mixing consoles from single iPad.
11-10-2013	Submission of complete project thesis.

Demo



Summary

- The work that has been done so far shows that the proposed system is possible
- The original idea for the system has changed a bit so that individual parts can be re-used for other projects as well as on their own.
- Matrix Mixer and MIDINet application are being rebuilt
- AudioBus has been introduced
- Things are on track