SENIOR DESIGN PROJECT

PROPOSAL REPORT

COSS

Computer Oriented System Solutions

CENGAP PROJECT WITH AIRTIES

Team Name & Supporter Company:

Computer Oriented System Solutions – **Airties**

Course Instructor & Project Assistant:

Dr. Meltem Turhan Yöndem – Fatih Gökçe

Team Members and Roles:

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Role	**: Leader, Meeting Manager, Initiator**	**Role**	**: Creator, Summarizer**
E. Grade	**: AA**	**E. Grade**	**: BA**
Name	**: Emre Koştur**	**Name**	**: Gözde Kırdar**
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Role	**: Devil's Advocate, Gate Keeper, Initiator**	**Role**	**: Optimist, Summarizer, Initiator**
E. Grade	**: BB**	**E. Grade**	**: BA**

Team Rules:

➢ All team members have to join scheduled meeting which will be decided by all members. The one do not attend the meeting, will be punished by team.

➢ Team will have another meeting once in a week for fun to keep team relaxed.

➢ All four team members have known each other for four years. Team has a very strong communication link using phone, e-mail and instant messaging over the net.

➢ Team has distance communication by using face-to-face video conversation tools with Airties. In addition, Airties will provide a portal for online communication.

➢ All posts from instructor and course assistant should be forwarded to all team members **immediately** and all members have to check their e-mails at least three times in a day.

Project Scope:

Nowadays wireless technologies are developing very rapidly with increasing usage in communication, military and security, medical sciences etc. Not only with collective perspective but also with individual developments are becoming more and more affective. We can see a wireless connection wherever we go. Thus there is a great market opportunity and many companies want to have a portion in that. Companies design new products to maintain this challenge. Airties is the one of these companies and AP-400 is the latest product.

Project Topic & Features:

Main idea is to add LCD display functionality to the wireless access point AP-400. LCD display will show statistics like upload and download traffic, connections and properties so on.

AP-400 has an embedded operating system, namely Linux, having just the core functionalities and some features added. Team will have to learn the core Linux used in the system in order to understand and make necessary modifications.

AP-400 has a MIPS architecture based processor. Thus, team also will need to learn the MIPS and its programming. Since the project requires addition of new devices to the system, we will need to make new hardware designs.

Possible Risks:

The worst scenario is broken communication link of the team. However we are ready to do anything to prevent this.

Some other risks are about hardware and market. The education system of our undergraduate programs does not provide detailed information about hardware aspects of computer sciences. Therefore we can sweat a little on this part. Making some wrong choices can lead us a dead end.

Team will make developments on a device for a market which have public people as customers. So developments should not have a negative affect on price.