

General Update

- SPR
 - domain setup
 - ATA Control server upgrade (“control” and “data”)
 - Handover of SRI to SETI (infrastructure / network)
 - Setup new machine for ATA control
 - Preparing net-boot server for Dave
- ATA integration into GNU Radio (Ellie)
 - Testing control of ATA antennas and building GNU Radio control blocks
 - USRPS are installed

Antonio Feed update

- 4J – (006)
 - Inner feed assembly, LNA module (Minex)
 - Tuning Cryocooler
 - PAX Box calibrated
 - Initial testing / installation on antenna / TSYS
- 1H – (013)
 - Inner feed assembly, LNA module (Minex)
 - Requires all retrofits!
 - PAX Box calibrated
 - Initial testing / installation on antenna / TSYS
- Feeds – (003, 004, 008, 011, 014)
 - Base Plate, cooler flange exchange
 - New Wiring Harness
 - Removal and inspection of inner feeds
 - Transport Feeds to Minex
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Refurbishment Overview

- Antonio Feed Inventory

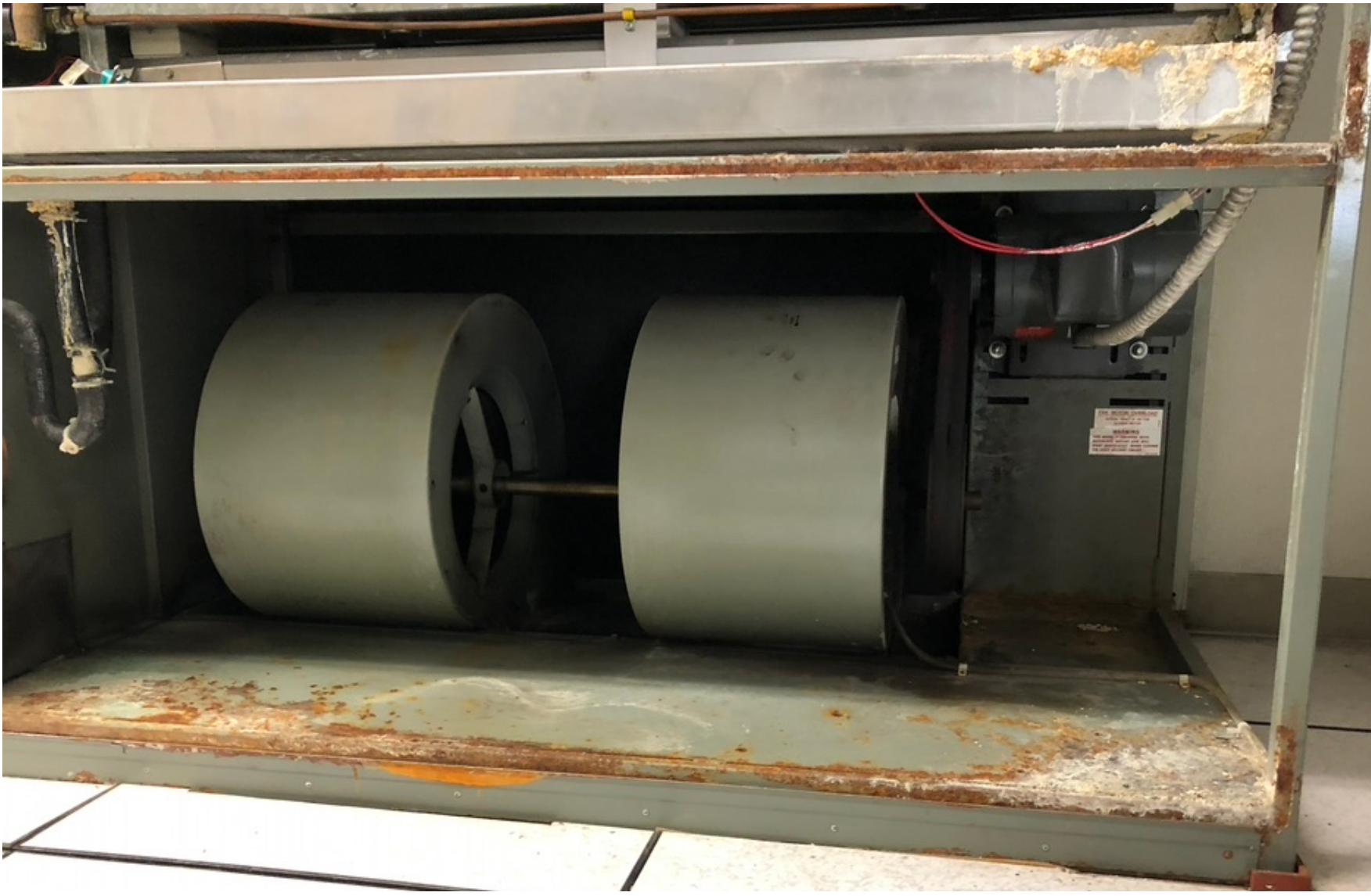
SPR AC

- Failed over the weekend



SPR AC

- Ordered replacement belts



SPR AC

- Need to install temperature monitoring in SPR and UPS shed
- Maybe also have the Fire system connected to a system which sends out emails.



Room Alert®

Status

Example RA12E

Type: Room Alert 12E Firmware: vX.X.X
MAC: 1A:2B:3C:4D:5E:6F Local IP: 192.168.2.137 Serial#: RA12-4D5E6F

Sensors

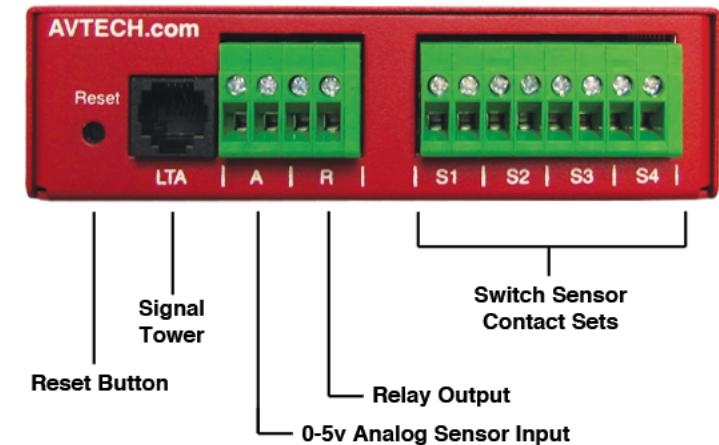
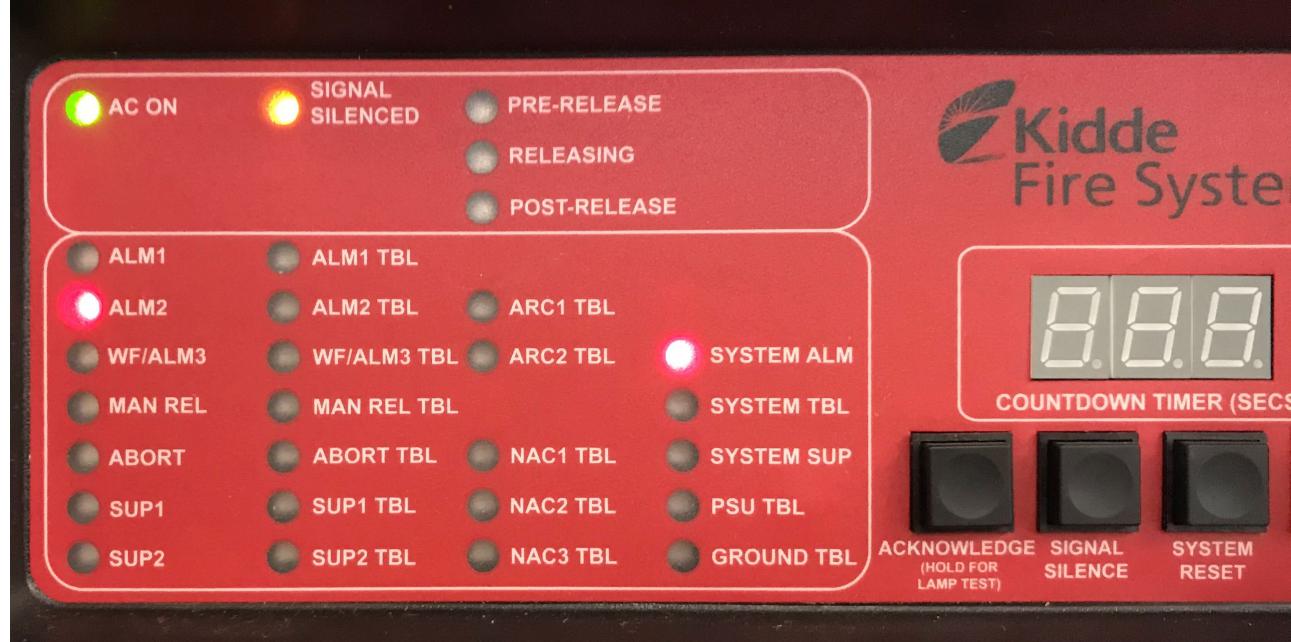
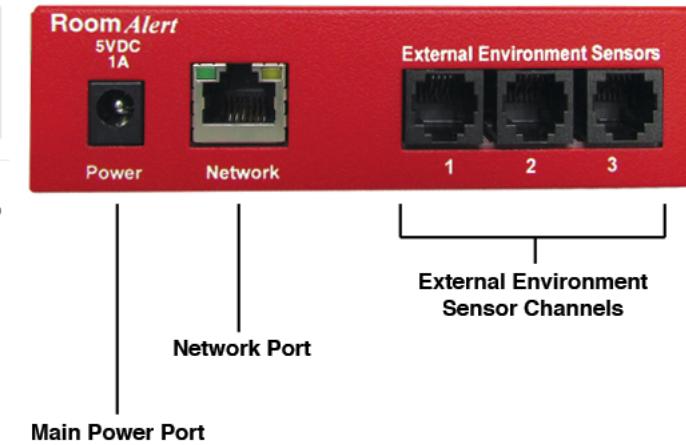
Updates Every 60 seconds

Digital Sensors

Data Center Internal 1: Temperature Temperature: 72.32 °F Power State: Active	Hot Aisle 1A External 1: Temperature / Active Power Temperature: 78.98 °F Power State: Active	AC Unit External 2: Temperature / Humidity Temperature: 75.77 °F Humidity: 41.72 %RH Heat Index:
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Fahrenheit (Celsius)

GoToMyDevices
Registered To AVTECH Example
Push is Enabled
Connected Last Push 08/29/2017 13:42:48



ATA Control Server Overview

- Control (Ubuntu 20.04)
- Data (Ubuntu 20.04)
- Backup Implemented !!!



Host: antenna
ControlBoxServer
DriveBoxServer
CopleyServer
RimBoxServer
CryoServer
PAXBoxServer
DishServer
deadmans-switch

Host: Control
AntennaServer
RecoveryServer
GeodesyServer
SLALIBServer
NOVASServer
WeatherServer
WindsockServer
LOServer
InternetServer
TimeServer
AlarmServer
PredictServer

Host: Data
MetaDataTable
AntennaLogServer
DataServer
LdapServer



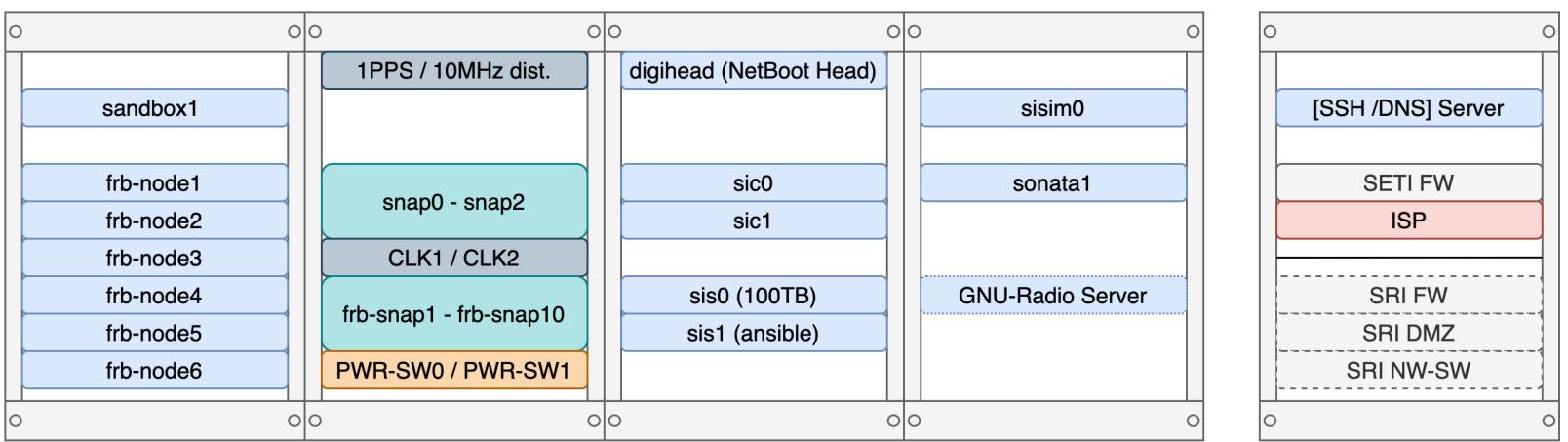
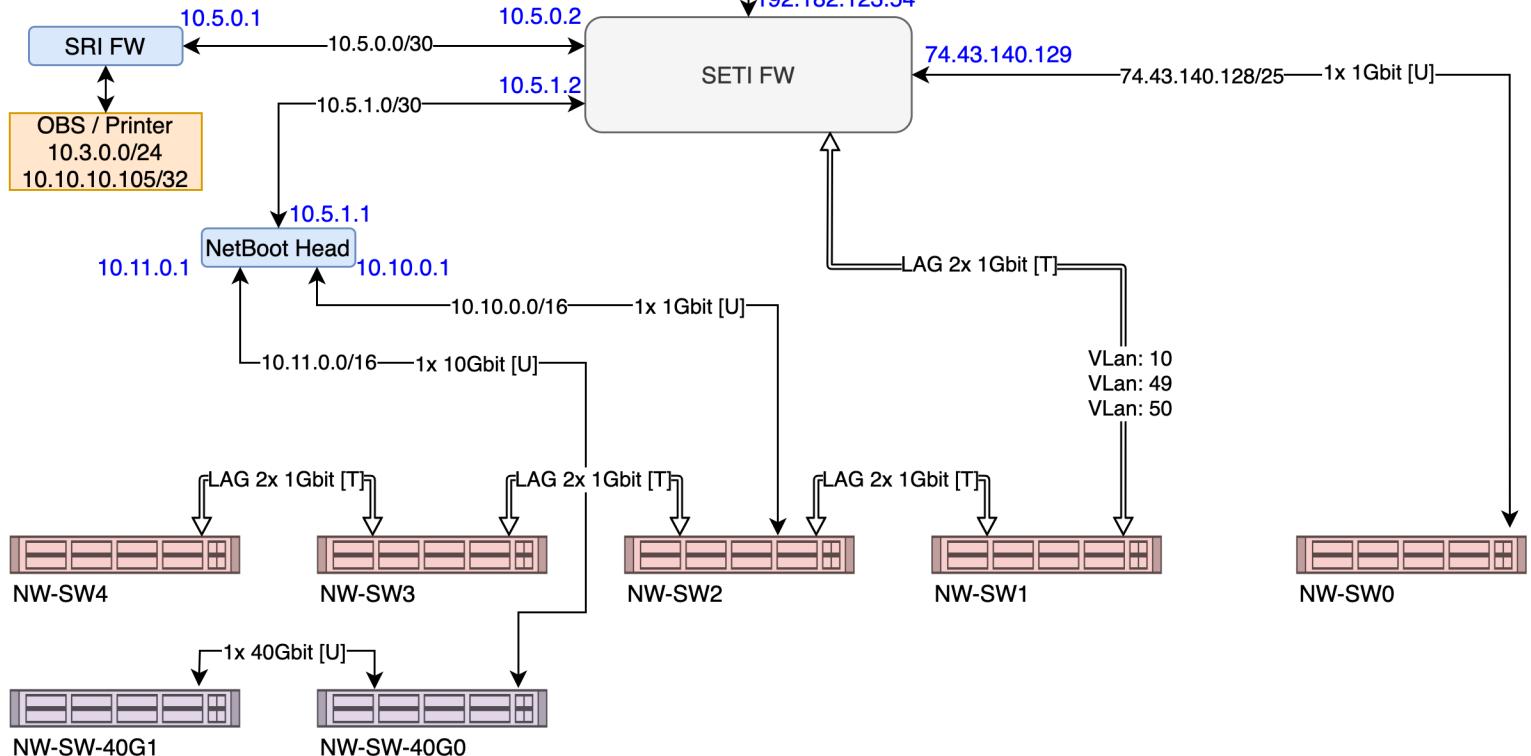
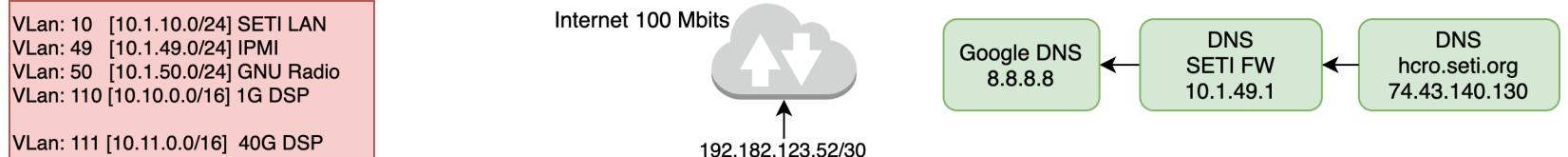
Update

Network changes:

- DNS implemented
- Network range changed
- LAG 2x 1Gbit implemented
- VLANs implemented
- Setup SIC1 to analyze data
- Setup IPMI

To Do:

- Setup DNS domain
(hcro.seti.org)



Student Projects and Internships:

Name	Type	Duration (dd/mm/yyyy)	Description	Status
Olivia Durrett	Internship	15/06/2020 to TBC	Astronomical observations and data analysis of pulsars and FRBs	
Sarah Schoultz	Internship	01/07/2020 to 15/10/2020	Outreach, update of posters at ATA, local RFI monitoring	
Daniel Allspach	REU SETI	07/06/2020 to 15/08/2020	Astronomical observations and data analysis of pulsars and FRBs	
Ellie White	REU Berkeley	08/06/2020 to 14/08/2020	GNU Radio Enabled Capabilities for RFI Monitoring and Beamforming	
Hellen Peng	URAP Berkeley	24/02/2020 to 01/05/2020	Software development to control digital step attenuator for IF power leveling	Finished