

# General Update

- SPR
  - domain setup
  - ATA Control server upgrade (“control” and “data”)
  - Handover of SRI to SETI (infrastructure / network)
  - Replacement machine for “control” will arrive next week
  - 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

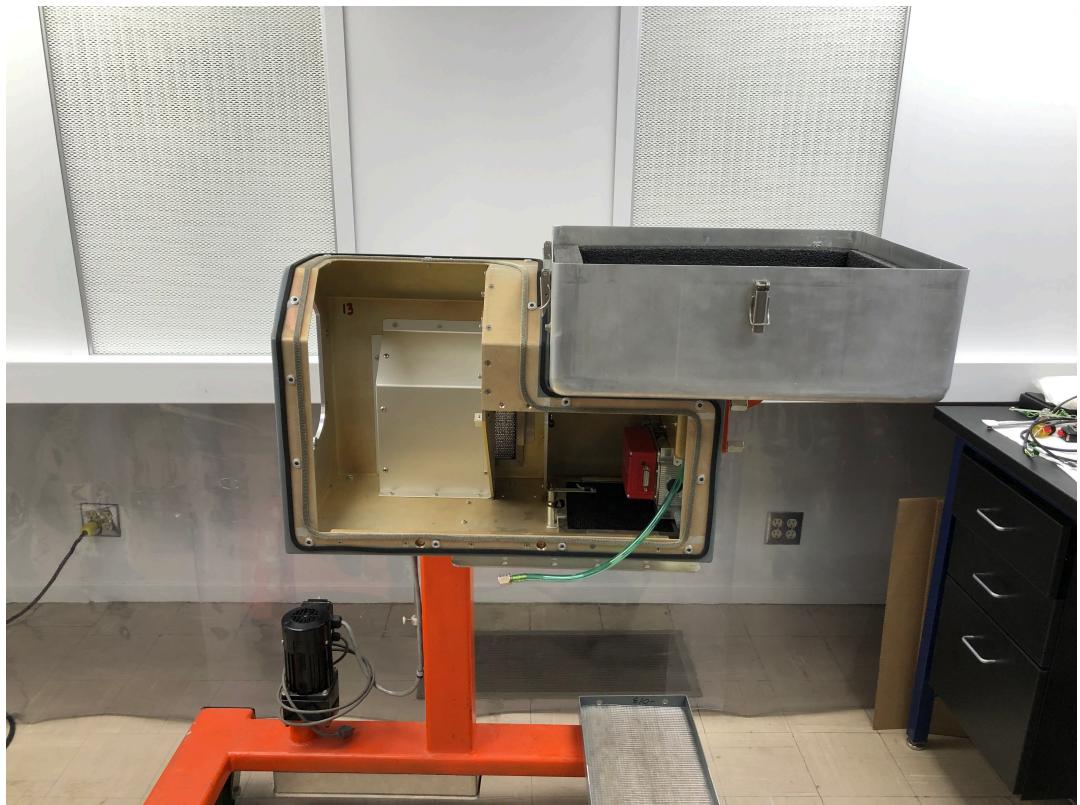
- 3C –(020)
  - Done / Operational
- 1K – (012)
  - Done / Operational
- 4J – (006)
  - Inner feed assembly, LNA module (Minex)
  - Tuning Cryocooler
  - PAX Box calibrated
  - Initial testing / installation on antenna / TSYS
- 1H – (013)
  - Inner feed assembly, LNA module (Minex)
  - Requires all retrofits!
  - PAX Box calibrated
  - Initial testing / installation on antenna / TSYS

## Refurbishment Overview

- Antonio Feed Inventory

# Refurbishment Overview

- Greg prepared 40 new tip-links
- Will start preparing 5 additional wire harness sets
- Start moving Antonio Feed bases from Minex to HCRO for third round of retrofits



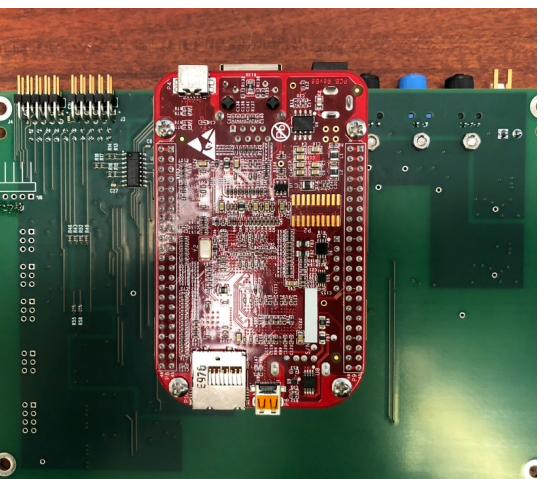
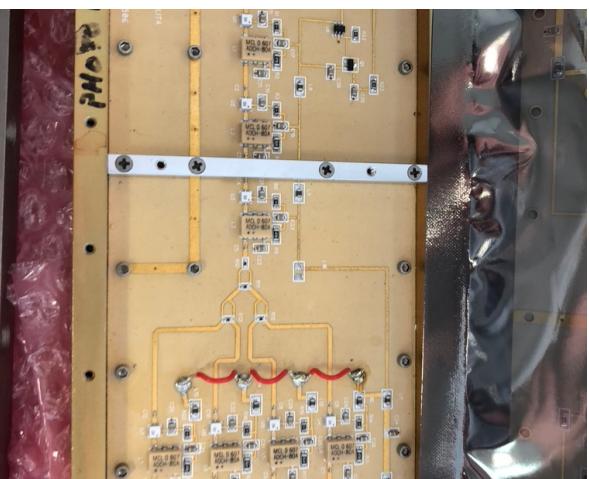
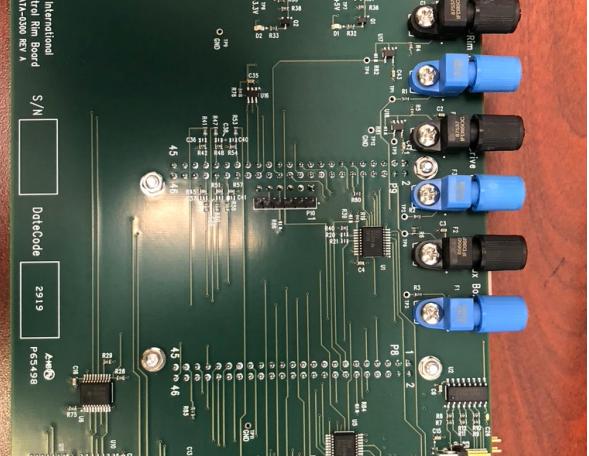
# Parts from SRI arrived

- Already sorted in useful and storage
- 46x RFCBs
  - 37x installed in SPR
  - 9x in E-Shop (in various states)
  - Boxes of spare parts
- Over 70x spare attenuators in boxes
  - 192x attenuators installed in SPR
  - Required for 42 antennas 4 tunings (336)
- New Antenna control board
  - 3 fully populated + beaglebone black
  - 9 fully populated
  - Received schematics for control board from SRI
- Spare parts for PAX boxes
  - Populated PCBs
  - Complete PAMs



# Parts from SRI arrived

- Already sorted in useful and storage



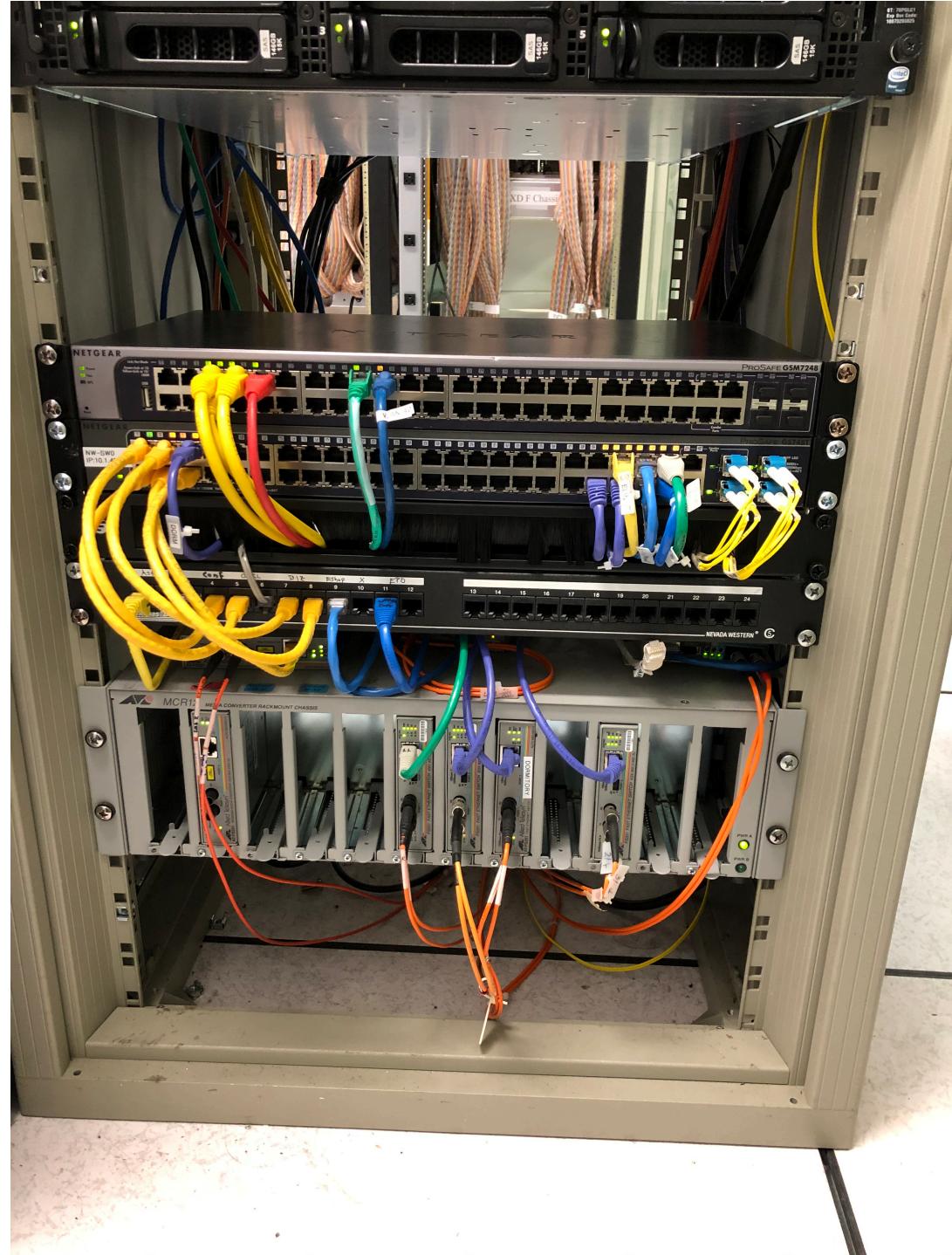
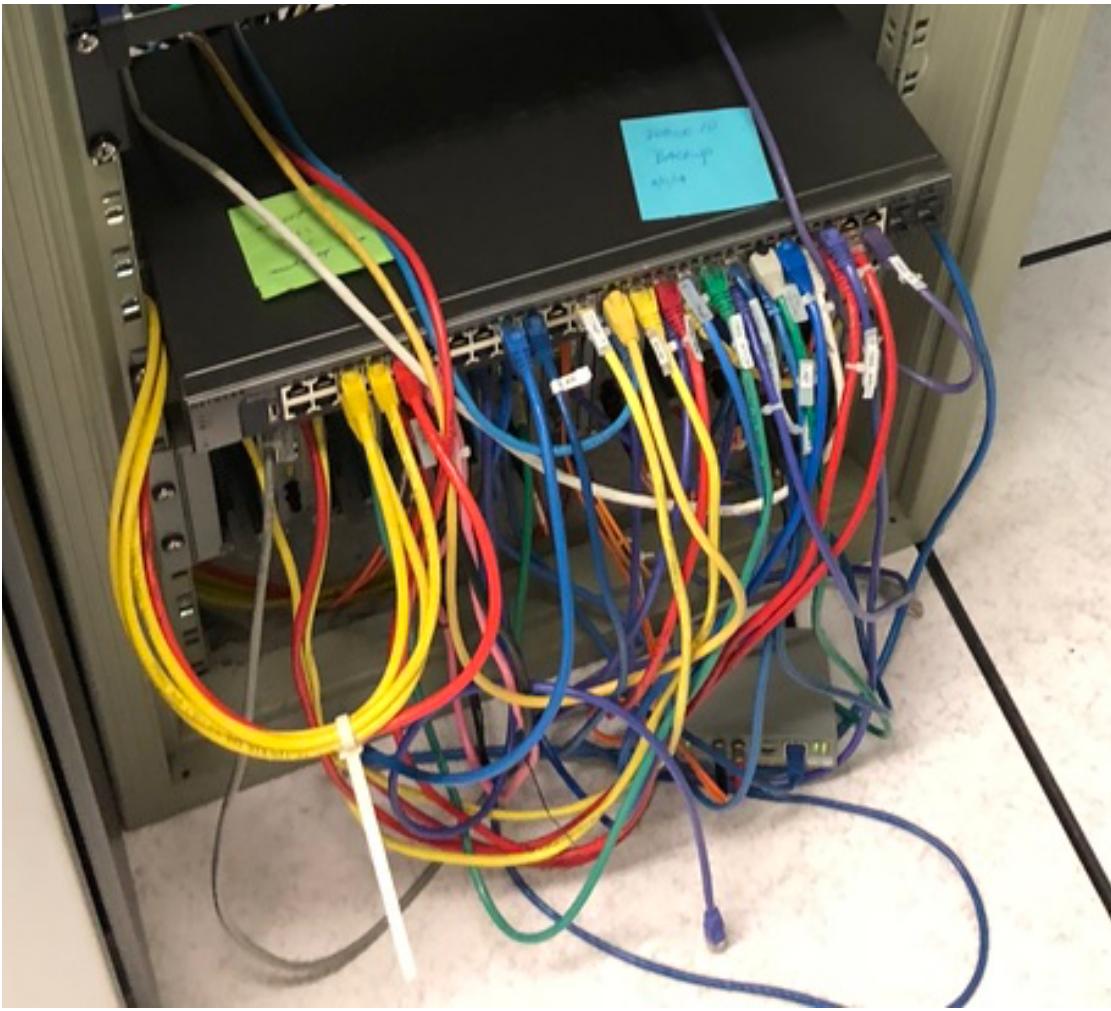
# ATA Control Server Overview

- Control (Ubuntu 20.04)
- Data (Ubuntu 20.04)
- Backup Implemented !!!
- New Control Host will arrive next week

Host: antenna	Host: Control	Host: Data
ControlBoxServer	AntennaServer	MetaDataAdapter
DriveBoxServer	RecoveryServer	AntennaLogServer
CopleyServer	GeodesyServer	DataServer
RimBoxServer	SLALIBServer	LdapServer
CryoServer	NOVASServer	
PAXBoxServer	WeatherServer	
DishServer	WindsockServer	
deadmans-switch	LOServer	
	InternetServer	
	TimeServer	
	AlarmServer	
	PredictServer	



# OBS network taken over from SRI



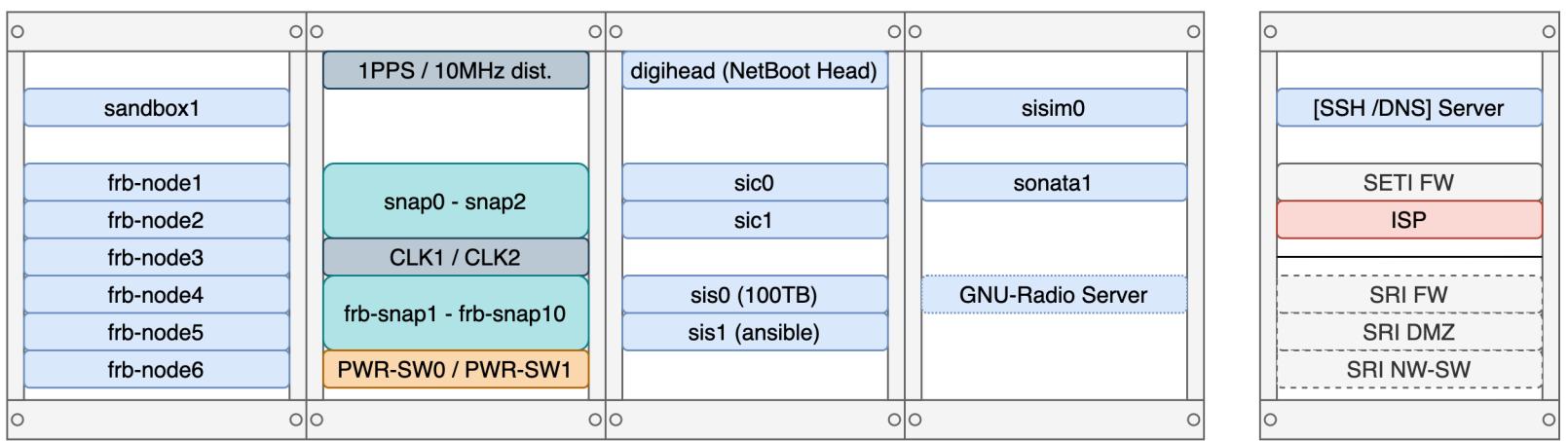
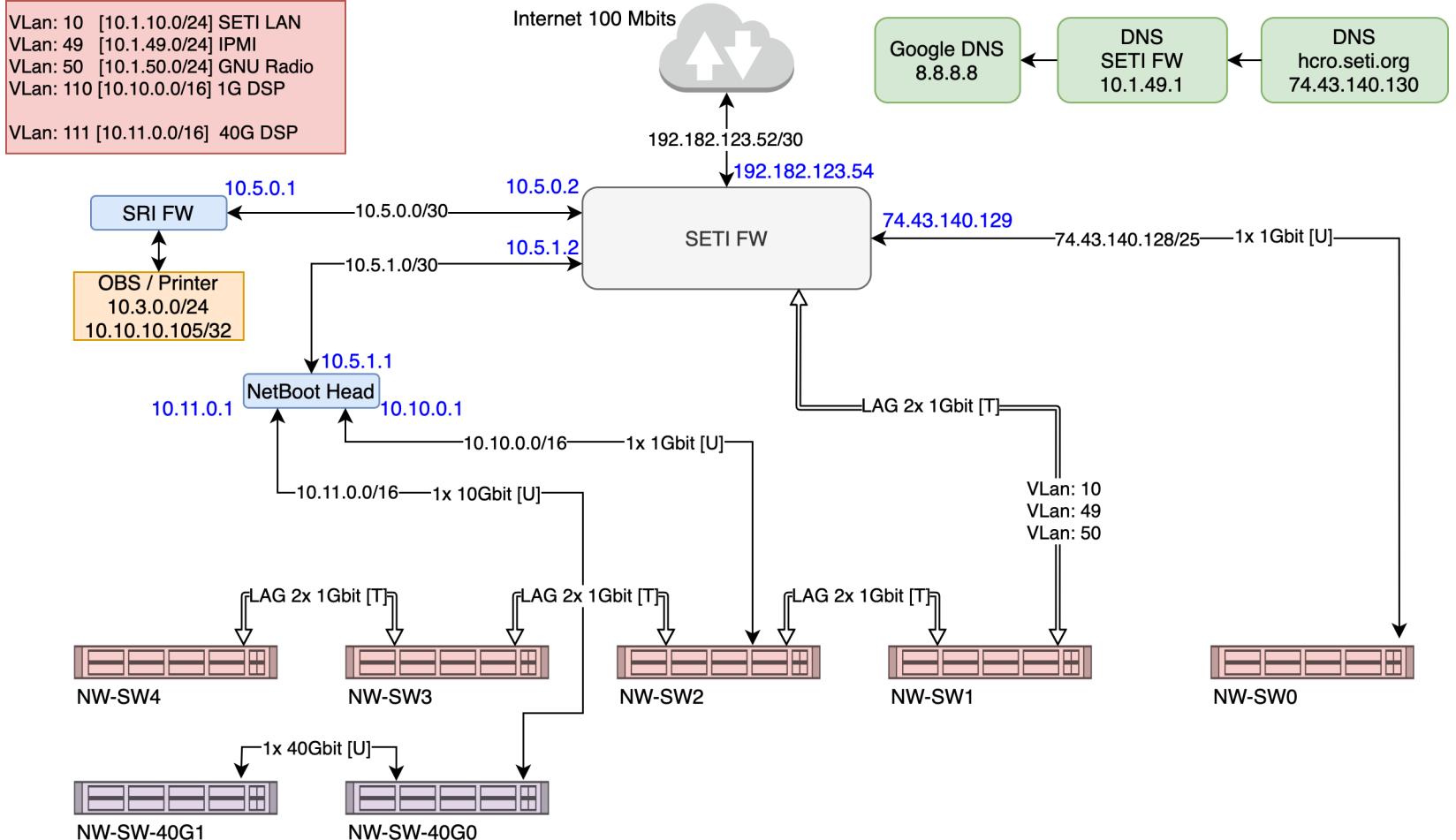
# Update

## 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](http://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