

# General Update

- SPR
  - domain setup
  - SNAPS
  - Testing capture code and voltage gateware
  - ATA Control server upgrade (antcntl)
- ATA signal chain verification
  - Power drop investigation ISM 902-928MHz
  - Called PG&E nothing new yet!
  - Further work in localization
  - **ISM band measurements within the main Building**
- Observation
  - Test Observation with voltage capture code
- ATA integration into GNU Radio (Ellie)
  - Testing control of ATA antennas and building GNU Radio control blocks
  - Moved IF switch into gnuradio network
  - Test USRP hooked up to gnuradio1 server

# Antonio Feed update

- 3C – replacement of pyramid with new tip-link and modified, preconditioned coaxial wiring.
  - Inner feed assembly, LNA module (Minex)
  - Installation into feed base
  - **Firmware 5.4**
  - Initial testing / installation on antenna/ TSYS
- 4J – replacement of base plate and pyramid with new tip-link and modified, preconditioned coaxial wiring.
  - Inner feed assembly, LNA module (Minex)
  - **Replace base plate**
  - **Firmware 5.4**
  - Tuning Cryocooler
- 1K –
  - Inner feed assembly, Link-Tip (Minex)
  - **Replace base plate**
  - Tuning Cryocooler
  - **New wiring harness (3x)**
  - **Assembly of feed base and vacuum test**
  - **Firmware 5.4**

# 1K Refurbishment

- Assembly of feed base and vacuum test "DONE"



# Refurbishment Overview

- Antonio Feed Inventory

Feed List		Feed Revision Overview							
Number	Installed Ant.	Tip-Link: R03	Temp S. Isolation	New Harness	Bellow Removed	Cryo Tuned	Firmware 5.4	Gold-Plated	Preconditioned Coax
SC4-002	Minex								
SC4-003	Feed Lab (5B)								
SC4-004	2E								
SC4-005	2A								
SC4-006	Feed Lab (4J)		x	x	x	In Progress	x		
SC4-007	Minex								
SC4-008	1G								
SC4-009	Minex								
SC4-010	2B								
SC4-011	3L								
SC4-012	Feed Lab(1K)	In progress	x	x	x	In Progress	x	In Progress	NA
SC4-013	Feed Lab (1H)								
SC4-014	2J								
SC4-015	Minex								
SC4-016	SSL								
SC4-017	Minex								
SC4-018	2H	x	x	x	x	x	x	x	NA
SC4-019	1C		x	x	x	x			
SC4-020	Feed Lab (3C)	In Progress	x	x	x	x	x	In Progress	In Progress

# ATA Control Server Overview

- Current State

**Host: antenna**

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ControlBoxServer  
DriveBoxServer  
CopleyServer  
RimBoxServer  
CryoServer  
PAXBoxServer  
DishServer  
deadmans-switch

**Host: AntCtl**

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AntennaServer  
RecoveryServer

**Host: tumulus**

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NVSServer  
FXCatcherServer

**Host: atadb**

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MetaDataSet  
GeodesyServer  
SLALIBServer  
NOVASServer  
AntennaLogServer  
VideoXServer  
VCC4RCamServer  
TrackingServer  
WeatherServer  
WindsockServer  
LOServer  
IBOBSERVERFXA  
IBOBSERVERBFA  
IBOBSERVERIDBFA  
IBOBSERVERBFB  
IBOBSERVERIDBFB  
IBOBSERVERIDBFC  
ADR2100Server

**Host: user2**

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TempMonitorScript  
DataServer  
ConfigServer  
InternetServer  
TimeServer  
IFServer  
PredictServer  
EventServer  
VideoXServer  
VCC4RCamServer  
AlarmServer

# ATA Control Server Overview

- Proposed route forward

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

## Host: AntCtl 2.0

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

## Host: Old-DSP

IBOBServerFXA  
IBOBServerBFA  
IBOBServerIDBFA  
IBOBServerBFB  
IBOBServerIDBFB  
IBOBServerIDBFC  
IFServer  
EventServer  
VideoXServer  
VCC4RCamServer

## Host: DataBase

MetaDataSource  
AntennaLogServer  
DataServer



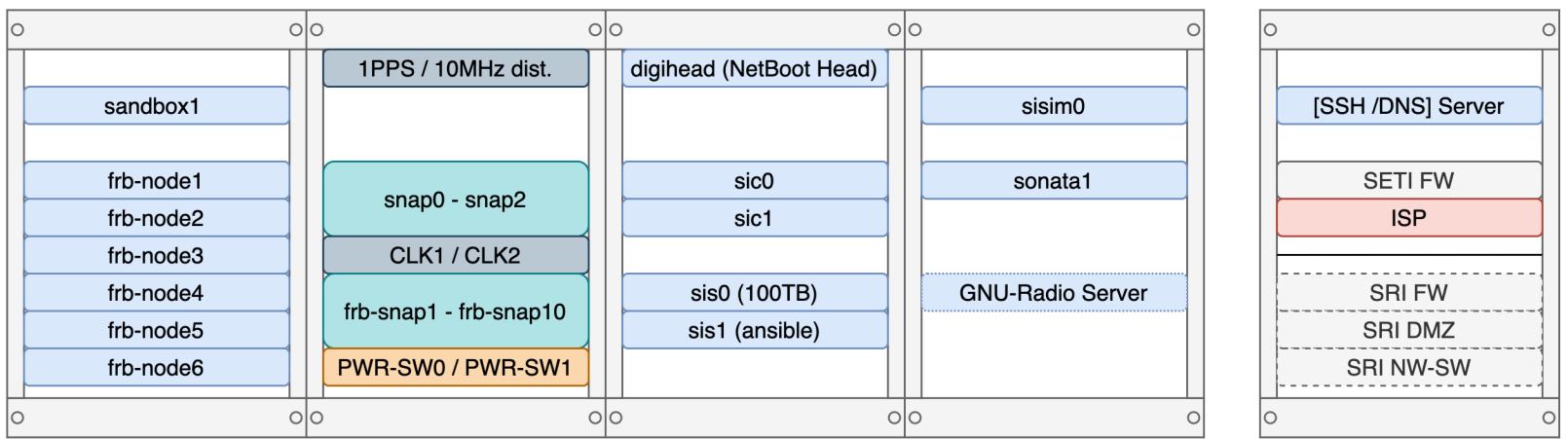
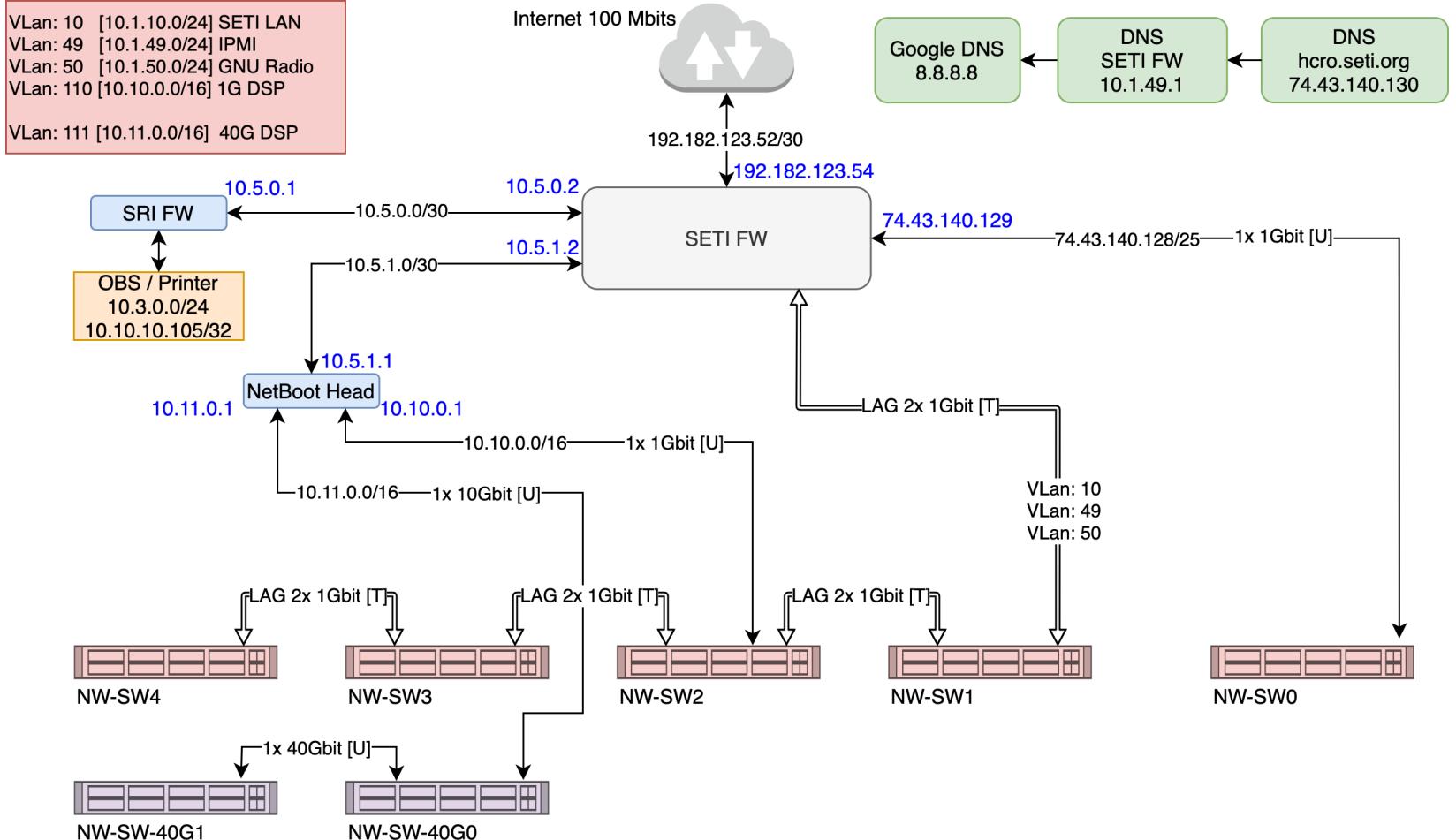
# Update

## 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