

Development Notes the KIDPY Readout Software.

Cody Roberson - Arizona State University

April 11, 2023

Contents

1	Requirements	3
2	System Configurations and Settngs	4
2.1	redis-server	4
2.1.1	configuration	4
2.1.2	operation	4
2.2	Ubuntu Server Firewall	4
2.3	Network Configuration	4
3	Operational Procedures	5
3.1	The RFSOC	5
3.1.1	Connecting to the RFSOC via SSH	5
3.1.2	Starting the KIDPY-Redis control listener	5
3.2	Intermediate Frequency (IF) Slice	5
4	General Notes	6

1 Requirements

Highly detailed software design is currently not necessary since the most valuable components will be data organization and networking. Once a design need is identified, a new issue in the repository is opened. Within the issue, labels are assigned relevant to its situation and details such as requirements and behavior are documented there. Requirement numbers shall consist of a github issue number followed by the requirement number.

requirement	desc				prio	status
14.1	I am morgan freeman. I can smell you. I have evolved the power of invisibility.				low	incomplete
	a	b	c	d		
	14.1	I am morgan freeman. I can smell you. I have evolved the power of invisibility.	low	incomplete		

2 System Configurations and Settngs

2.1 redis-server

2.1.1 configuration

Details about the configuration file and what was needed to make redis function properly

2.1.2 operation

Details about running the redis server (Ilrc this was a service that automatically run on startup)

2.2 Ubuntu Server Firewall

stuff goes here

2.3 Network Configuration

stuff goes here

3 Operational Procedures

3.1 The RFSOC

3.1.1 Connecting to the RFSOC via SSH

Stuff goes here

3.1.2 Starting the KIDPY-Redis control listener

Stuff goes here

3.2 Intermediate Frequency (IF) Slice

stuff goes here

4 General Notes