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HW 1

SDR Spectrum Analyzer
Complete List of Stakeholders

Stakeholder Context table

Who is a stakeholder?	What are they doing (or failing to do)?	When are they doing it?	Where are they doing it?	Why are they doing it?	How are they doing it?	What is the current solution?
Active Stakeholders						
MITRE (Customer/ Sponsor)	Providing capabilities to their sponsor/customer.	While this capability is still desirable, profitable, and ahead of competitors.	Wherever the US has a military presence in the world and could benefit from a better understanding of the RF spectrum in that area.	It is their mission as a not-for-profit corporation.	Internal R&D as well as sponsoring outside teams while providing engineering expertise to complete the task.	Currently they are not filling this need. An alternative would be to use heavier, more costly, and more time consuming methods.
Army Corporate (Acquisition)	Acquire capabilities and/or a tactical advantage for the Army	While having a picture of the RF spectrum presents a tactical advantage.	All over the world	To defend our country and/or gain an advantage over the enemies.	Hiring an outside company to fill this need.	Do not have this particular capability. An alternative would be to use heavier, more costly, and more time consuming methods.

Soldier	Operating and maintaining the equipment in order to complete the mission in which they were given.	Whenever they are deployed.	Wherever they are deployed, large variety of environments	To serve their country/follow orders.	By having a knowledge of the products operation and implementing the product in the field.	Do not have this capability. An alternative would be to use heavier, more costly, and more time consuming methods.
Developers	Interfacing with hardware, developing software and algorithms to create this product.	From Sep 2016 to May 2017, potentially thereafter.	New Jersey	To complete graduation requirements, gain knowledge of spectrum sensing on the hardware and software levels, to create a product that will support our military.	By applying their knowledge and education, researching topics of interest, generating detailed planning, and spending many man hours of work.	N/A
Passive Stakeholders						
RF Producers	Producing RF signals	Whenever they are using devices utilizing wireless communications	Wherever they are	To communicate using wireless technology	Utilizing wireless technology	N/A
Ettus Research (Hardware Producer)	Leading supplier of software defined radio platforms	Since 2010	Headquarters in Texas. Branches all over the world	Designs a wide range of Universal Software Radio Peripheral (USRP) products and other radio related platforms	To support development environments and products are designed for Radio Frequency related tasks and applications like spectrum monitoring, satellite navigation and so on.	N/A

FCC or other RF governing bodies	Regulates interstate communications (radio,TV,satellite)	Since 1934	FCC-located in US. Other bodies are all around the world according to countries	For controlling state and international communication functions and for public safety, homeland security	Encouraging leadership in the communication infrastructure, promoting broadband facilities innovation, supporting nation's economy	N/A
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“I pledge my Honor that I have abided by the Stevens Honor System”

- *Scott Wright*

- *Vijayrahul Raja*

- *Joseph Pang*

- *Andrew Guthrie*

- *Kunal Patel*