

1) Please explain why your company need entire frequency band. Please send additional details on how the system works.

DataSoft is developing a software defined radio test platform suitable for operation in the TV Whitespaces. A key capability of the platform is to receive rules from a data base and operate according to those rules. Since the database could send available channels anywhere within the 500-700 MHz band, the radio needs to respond to these directions over that same frequency band.

We are working with the SpectrumBridge database who has an experimental database in place to ensure we adhere to the FCC rules and is used in many experimental TVWS applications in the U.S.

A drawing of the proposed experiment follows in Figure 1 as well as a screen shot of the database output for our location in Figure 2:

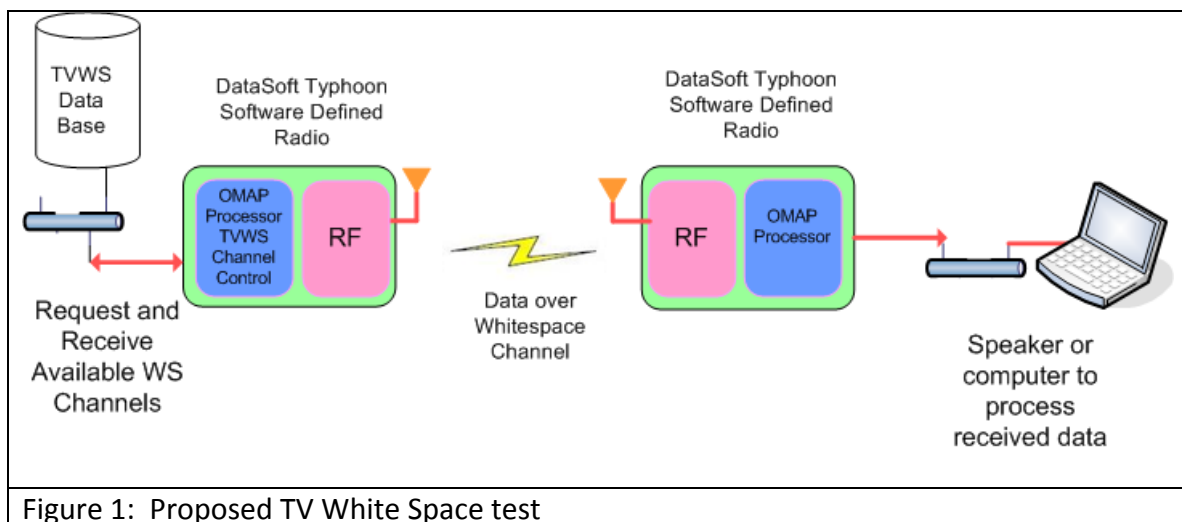
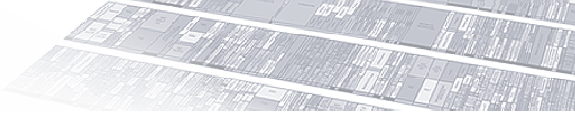


Figure 1: Proposed TV White Space test



Available Channels

Portable 40mW

2	✗	19	✗	36	✗
3	✗	20	✗	37	✗
4	✗	21	✓	38	✗
5	✗	22	✗	39	✗
6	✗	23	✗	40	✗
7	✗	24	✗	41	✗
8	✗	25	✗	42	✗
9	✗	26	✗	43	✗
10	✗	27	✗	44	✗
11	✗	28	✗	45	✗
12	✗	29	✗	46	✗
13	✗	30	✓	47	✗
14	✗	31	✗	48	✗
15	✗	32	✓	49	✗
16	✗	33	✗	50	✗
17	✗	34	✗	51	✗
18	✗	35	✗		

Best match: 33.464689, -111.924398

Note that the latest FCC Report and Order describes different types of White Space devices. Not all of them are permitted to use every available channel. As the FCC refines the rules and use definitions, we will add filters so that you can see which subset of channels a particular class of White Space device can use.

Figure 2: Screenshot of Showmywhitespace.com for test location

2) It will cause interference to land mobile stations that are operating in these bands on the areas, what your company will do to prevent this issue?

The answer to this question is two-fold:

(1) The database will mask out operating tv channels and public safety systems.

(2) We do not intend to operate at power output levels that would interfere with these stations. This will be a laboratory only experiment. The current proposed FCC rules state a 1W max power output for portable TV devices. We intend to operate in the milliwatt range, which should not interfere with

anything outside of our building. If a fielding application arises, a separate license request will be made for the specific experiment.

3) How many units is your company planning to deploy at consumers premises?

We will have two working units – one Typhoon SDR receiving data from the Whitespace database and transmitting it to a second Typhoon SDR which will display the data in a format to ensure correct transmission.

4) How long will this test run?

We intend to do lab testing starting in September 2010 and complete most testing in 12-18 months.

5) What will become of the user-installed equipment?

The equipment will remain in the possession of DataSoft at all times and is intended for lab-only testing and demonstration. Any equipment used will be removed after the test.

6) Please send the statements to identify the test uses for experiment only, not for deployment.

As shown in Figure 1, the experiment is to receive a channel assignment from the TV Whitespace database and to successfully transmit and receive data on that channel. The intent of this demo is to show our SDR hardware as a suitable test platform for potential users of the TV Whitespace frequencies. Further testing by potential customers will result in a separate licensing application.

7) Who will be a point of contact if interference occurs? (including name and telephone number).

Contact:

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