UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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DISH NETWORK L.L.C.
Petitioner

v.

WISTARIA TRADING LTD.
Patent Owner

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Case No. TBD
Patent 9,021,602

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DECLARATION OF DR. VIJAY K. MADISETTI

EXHIBITS

Exhibit No.	Description of Document
1001	U.S. Patent No. 9,021,602 to Moskowitz *et al.* ("'602 Patent")
1002	[Reserved]
1003	*Curriculum Vitae* of Dr. Vijay K. Madisetti
1004	File History for U.S. Patent No. 9,021,602
1005	File History for Reexamination Request No. 90/014,137 of U.S. Patent No. 9,021,602
1006	File History for U.S. Patent No. 9,104,842 ("parent '842 Patent")
1007	File History for Reexamination Request No. 90/014,138 of U.S. Patent No. 9,104,842
1008	U.S. Patent No. 5,757,907 to Cooper *et al.* ("Cooper")
1009	First Amended Complaint for Patent Infringement, *Blue Spike LLC v. DISH Network Corporation*, Civil Action No. 1:19-cv-00160-LPS-CJB (filed Mar. 29, 2019) ("District Court Litigation")
1010	First Amended Complaint, *Blue Spike LLC v. DISH Network Corporation et al.*, Nos. 6:18-CV-00333-RWS-KNM (E.D. Tex.), 1:18-CV-01512-LPS-CJB (D. Del.) (the "Prior Litigation")
1011	Order Granting Joint Motion to Transfer to the District of Delaware and Stay All Deadlines, 6:18-CV-00333-RWS-KNM, ECF No. 19, entered in Prior District Court Litigation
1012	Notice of Voluntary Dismissal Without Prejudice, served in Prior District Court Litigation
1013	File History for U.S. Patent No. 6,598,162
1014	*Software Authorization Systems*, Paul A. Suhler *et al.*, IEEE Software (1986).

Exhibit No.	Description of Document
1015	*Designing Software to be Used Up and Protecting it from Pirates*, Bryon K. Ehlmann, ACM SIGSMALL/PC Notes, vol. 11, issue 3 (Aug. 1985)

I, Vijay K. Madisetti, hereby declare the following:

I.   SUMMARY OF OPINIONS

1.   I have been asked to provide this declaration addressing the validity of claims 1, 5, 8, and 10 of U.S. Patent No. 9,021,602 ("'602 Patent"). It is my opinion that each of these claims is invalid in view of the prior art. The opinions that follow demonstrate that claims 1, 5, 8, and 10 are invalid at least based on the following ground:

- Claims 1, 5, 8, and 10 of U.S. Patent No. 9,021,602 are obvious over U.S. Patent No. 5,757,907 to Cooper et al. ("Cooper").

II.   BACKGROUND AND EDUCATION

2.   My name is Vijay Madisetti, and I am a Professor of Electrical and Computer Engineering at Georgia Institute of Technology ("Georgia Tech") in Atlanta, GA.

3.   I received a Bachelor of Technology in Electronics and Electrical Communications Engineering from the Indian Institute of Technology (IIT) in 1984. I received my Ph.D. in Electrical Engineering and Computer Sciences (EECS) from the University of California, Berkeley in 1989. I am currently a tenured full Professor at Georgia Institute of Technology, and I have been on the faculty of Georgia Institute of Technology since 1989. I have authored or co-authored over 100 reference articles in the area of electrical engineering. I have also authored, co-authored, or edited several books in the areas of electrical engineering,

communications, signal processing, communications, and computer engineering, including *VLSI Digital Signal Processors* (1995) and *The Digital Signal Processing Handbook* (First & Second Editions) (1998, 2012), and recently, *Cloud Computing* (2013). Although I discuss my expert qualifications in more detail below, I also attach as EX[1003] a recent and complete curriculum vitae, which details my educational and professional background and includes a listing of most of my publications.

4.   I have been involved in research and technology in the area of distributed computer and information systems since the late 1980s, and my work in this area has focused on secure and efficient distribution of information over networks, synchronization of updates across a distributed network, and multiprocessing systems and tools.

5.   I have also designed software encryption and protection software for mobile phones utilized by a large phone vendor in the early 2000 time-frame. I have been involved in research and technology in the area of distributed computer and information systems since the late 1980s, and my work in this area has focused on secure and efficient distribution of information over networks, synchronization of updates across a distributed network, and multiprocessing systems and tools.

6.   I have been extensively involved in the activities of one of the premier SSOs in the world, the IEEE, since the 1980s, and I have participated in the

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