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BRIGHT HOUSE NETWORKS, LLC, WIDEOPENWEST FINANCE, LLC, KNOLOGY OF FLORIDA, INC., BIRCH COMMUNICATIONS, INC.,

Petitioners,

v.

FOCAL IP, LLC,

Patent Owner.

Case No.: IPR2016-01259 Patent 8,155,298

PETITIONERS' UPDATED EXHIBIT LIST

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| Exhibit Number | Document |
|----------------|---|
| 1101 | U.S. Patent No. 8,115,298 ("the '298 patent") |
| 1102 | Expert Declaration of Dr. Thomas La Porta ("TLP") |
| 1103 | U.S. Patent No. 6,683,870 to Archer ("Archer") |
| 1104 | U.S. Patent No. 5,958,016 to Chang et al. ("Chang") |
| 1105 | U.S. Patent No. 6,445,694 to Swartz ("Swartz") |
| 1106 | U.S. Patent No. 7,764,777 ("the '777 patent") |
| 1107 | U.S. Patent No. 8,457,113 ("the '113 patent") |
| 1108 | File history of U.S. Patent No. 8,115,298 |
| 1109 | File history of U.S. Patent No. 8,457,113 |
| 1110 | File history of U.S. Patent No. 7,764,777 |
| 1111 | WO 97/23899 to Harris ("Harris") |
| 1112 | U.S. Patent No. 5,802,160 to Kugell |
| 1113 | U.S. Patent No. 5,206,901 to Harlow |
| 1114 | U.S. Patent No. 6,353,660 to Burger |
| 1115 | WO 98/54913 to Arkko |
| 1116 | U.S. Patent No. 5,434,852 to La Porta |
| 1117 | U.S. Patent No. 6,463,145 to O'Neal |
| 1118 | ITU-T Recommendation H.323 ("H.323") (02/98) |
| 1119 | ITU-T Recommendation H.225 ("H.225") (09/99) |
| 1120 | ITU-T Recommendation Q.1211 ("Q.1211") (03/93) |
| 1121 | ITU-T Recommendation Q.1215 ("Q.1215") (10/95) |
| 1122 | ITU-T Recommendation Q.1221 ("Q.1221") (09/97) |
| 1123 | ITU-T Recommendation H.245 ("H.245") (09/98) |
| 1124 | Request for Comments - SIP: Session Initiation Protocol (March 1999) ("SIP") |
| 1125 | Tech Report CUCS-002-99 Implementing Intelligent Network Services with the Session Initiation Protocol |
| 1126 | Low, The Internet Telephony Red Herring (1996) |
| 1127 | Modarressi, An Overview of Signaling System No. 7 (1992) |
| 1128 | Crumlish, The ABCs of the Internet |
| 1129 | Helmstetter, Increasing Hits and Selling More on your |
| | Web |
| | Site (1997) |
| 1130 | Comer, Internetworking with TCP/IP 2d, Vol. I (1991) |
| 1131 | Judson, netmarketing – How Your Business Can Profit |
| | from |
| | the Online Revolution (1996) |

| 1132 | Newton's Telecom Dictionary 15th ed. (Aug. 1999) |
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| 1133 | Random House Webster's Computer & Internet |
| | Dictionary |
| | 3rd ed. (1999) |
| 1134 | Request for Comments – The TLS Protocol (Jan. 1999) |
| 1135 | Request for Comments – Hypertext Transfer Protocol – |
| | HTTP/1.1 (June 1999) |
| 1136 | ITU-T Recommendation Q.931 ("Q.931") (05/98) |
| 1137 | Engineering and Operations in the Bell System (1984) |
| 1138 | Thörner, Intelligent Networks (1994) |
| 1139 | U.S. Patent No. 5,473,679 ("La Porta") |
| 1140 | U.S. Patent No. 5,509,010 ("La Porta") |
| 1141 | U.S. Patent No. 5,563,939 ("La Porta") |
| 1142 | U.S. Patent No. 5,659,544 ("La Porta") |
| 1143 | U.S. Patent No.5,943,408 ("Chen") |
| 1144 | U.S. Patent No. 6,081,715 ("La Porta") |
| 1145 | U.S. Patent No. 6,298,039 ("Buskens") |
| 1146 | SEC Form S-1, Net2Phone, Inc. (May 1999) |
| 1147 | Terplan, The Telecommunications Handbook (1999) |
| 1148 | Lakshmi-Ratan, The Lucent Technologies Softswitch- |
| | Realizing the Promise of Convergence (April-June 1999) |
| 1149 | Tanenbaum, Computer Networks 3rd ed. (1996) |
| 1150 | IBM PCjr The easy one for everyone (1983) |
| 1151 | PacketCable [™] 1.0 Architecture Framework Technical |
| | Report (1999) |
| 1152 | Table of pending applications related to the '298 patent |
| 1153 | Expunged |
| 1154 | U.S. Patent No. 6,574,328 |
| 1155 | U.S. Patent No. 7,324,635 |
| 1156 | Affidavit of Ms. Sarah J. Guske in Support of Motion for |
| | Pro Hac Vice Admission |
| 1157 | Biography of Ms. Sarah J. Guske |
| 1158 | U.S. Patent No. 6,333,931 to LaPier ("LaPier") |
| 1170 | May 8, 2017 Transcript of Deposition of Regis "Bud" |
| 1159 | Bates |
| 1160 | May 9, 2017 Transcript of Deposition of Regis "Bud" |
| | Bates |
| 1161 | March 1, 2017 Transcript of Deposition of Mr. Willis in |
| | IPR2016-01254, IPR2016-01257 |
| | IPR2016-01254, IPR2016-01257 |

| 1162 | U.S. Patent No. 5,164,879 (Honeywell v. ITT) |
|------|---|
| 1163 | U.S. Patent No. 6,618,707 (Chi. Bd. Options) |
| 1164 | U.S. Patent No. 4,893,306 (Telcordia Techs.) |
| 1165 | Expert Declaration of Dr. Thomas F. La Porta in Support |
| | of Reply |
| 1166 | U.S. Patent No. 6,442,169 to Lewis ("Lewis") |

Date: June 26, 2017

/Wayne Stacy/

Wayne Stacy Registration No. 45,125 Lead Counsel

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