

**PETITIONERS' UPDATED LIST OF EXHIBITS – December 2, 2016**

| <b>Exhibit</b> | <b>Description</b>  |
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| Ex1101         | U.S. Patent No. 6,829,634 to Fred B. Holt <i>et al.</i> (“’634 patent”).  |
| Ex1102         | Declaration of David K. Lin and the Certified File Wrapper for U.S. Patent No. 6,829,634.   |
| Ex1103         | Bradley Bargaen & Peter Donnelly, <i>INSIDE DIRECTX</i> , (Microsoft Press, 1998) (“DirectPlay”).   |
| Ex1104         | Declaration of Glenn Little and, as Exhibit B, Meng-Jang Lin, <i>et al.</i> , <i>Gossip versus Deterministic Flooding: Low Message Overhead and High Reliability for Broadcasting on Small Networks</i> , Technical Report No. CS1999-0637 (Univ. of Cal. San Diego, 1999) (“Lin”). |
| Ex1105         | Peter J. Shoubridge & Arek Dadej, <i>Hybrid Routing in Dynamic Networks</i> , in 3 IEEE INT’L CONF. ON COMM’NS CONF. REC. 1381-86 (Montreal, 1997) (“Shoubridge”).  |
| Ex1106         | Declaration of Steven Silvio Pietrobon and, as Exhibit F, Peter J. Shoubridge, <i>Adaptive Strategies for Routing in Dynamic Networks</i> , Ph.D. Thesis (Univ. S. Austl., 1996) (“Shoubridge Thesis”).   |
| Ex1107         | John M. McQuillan, <i>et al.</i> , <i>The New Routing Algorithm for the ARPANET</i> , COM-28, No. 5 IEEE TRANSACTIONS ON COMM’NS, 711-19 (1980) (“McQuillan”).  |
| Ex1108         | Yogen Kantilal Dalal, <i>Broadcast Protocols in Packet Switched Computer Networks</i> (Ph.D. Thesis, Stanford University 1977) and supporting (“Dalal”).  |
| Ex1109         | S. Alagar, <i>et al.</i> , <i>Reliable Broadcast in Mobile Wireless Networks</i> , Military Communications Conference, 1 IEEE MILCOM ’95 CONF. REC., 236-40 (San Diego, Cal., 1995) (“Alagar”).   |
| Ex1110         | Certificate of Authenticity and a Press Release, <i>Microsoft Boosts Accessibility to Internet Gaming Zone with Latest Release</i> (Apr. 27, 1998) (PR Newswire) (“IGZ”).   |
| Ex1111         | Donald M. Topkis, <i>Concurrent Broadcast for Information Dissemination</i> , SE-11, No. 10 IEEE TRANSACTIONS ON SOFTWARE ENGINEERING, 1107-11 (1985) (“Topkis”).   |
| Ex1112         | Dimitri Bertsekas & Robert Gallager, <i>DATA NETWORKS</i> (Prentice Hall, 2d ed. 1992) (“Bertsekas”).   |
| Ex1113         | Kuo-Jui Raymond Lin, <i>Routing and Broadcasting in Two-dimensional Linear Congruential Graphs of Degree Four</i> , Master’s Thesis (Concordia Univ. Montreal, Canada, 1994) (“Kuo-Jui Lin”).   |

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| Ex1114 | William S. Davis and David C. Yen, THE INFORMATION SYSTEM CONSULTANT'S HANDBOOK: SYSTEMS ANALYSIS AND DESIGN (CRC Press, 1998) ("Davis").   |
| Ex1115 | V. G. Cerf, <i>et al.</i> , Topological Design Considerations in Computer Commc'n Networks, COMPUTER COMMC'N NETWORKS (R. L. Grimsdale <i>et al.</i> eds., 1975) ("Cerf").  |
| Ex1116 | U.S. Patent No. 6,122,277 to Derrick Garmire <i>et al.</i> ("Garmire").   |
| Ex1117 | U.S. Patent No. 5,181,017 to Alexander H. Frey, Jr. <i>et al.</i> ("Frey").   |
| Ex1118 | Flaviu Cristian <i>et al.</i> , <i>Atomic Broadcast: From Simple Message Diffusion to Byzantine Agreement</i> , 118 INFORMATION AND COMPUTATION 158-79 (Albert R. Meyer ed., 1995) ("Cristian").  |
| Ex1119 | Expert Declaration of David R. Karger   |
| Ex1120 | Declaration of Peter John Shoubridge and, as Exhibit A, Peter J. Shoubridge, <i>Adaptive Strategies for Routing in Dynamic Networks</i> , Ph.D. Thesis (Univ. S. Austl., 1996) ("Shoubridge Thesis"), and as Exhibit B, Peter J. Shoubridge & Arek Dadej, <i>Hybrid Routing in Dynamic Networks</i> , in 3 IEEE INT'L CONF. ON COMMC'NS CONF. REC. 1381-86 (Montreal, 1997) ("Shoubridge"). |
| Ex1121 | SUPPORTING MICROSOFT WINDOWS 95, Vol. 1 (Microsoft Press 1995) ("Supporting Windows 95").   |
| Ex1122 | Declaration of Matthew R. Shapiro   |
| Ex1123 | Declaration of Julian D. Moore  |
| Ex1124 | Rebuttal Declaration of David R. Karger (Lin)   |
| Ex1125 | Rebuttal Declaration of David R. Karger (Shoubridge)  |
| Ex1126 | Declaration of Scott Bennett, Ph.D.   |
| Ex1127 | Protective Order in <i>Acceleration Bay LLC v. Activision Blizzard, Inc., et al.</i> , Case Nos. 15-228, 15-282, 15-311 (D. Del.)   |
| Ex1128 | Michael T. Goodrich, <i>Leap-Frog Packet Linking and Diverse Key Distributions for Improved Integrity in Network Broadcasts</i>   |
| Ex1129 | Excerpts from THE IEEE STANDARD DICTIONARY OF ELECTRICAL AND ELECTRONICS TERMS, Sixth Edition (IEEE 1996)   |
| Ex1130 | Laurent Gautier and Christophe Diot, <i>Design and Evaluation of MiMaze, a Multi-Player Game on the Internet</i> ("Gautier")  |
| Ex1131 | Affidavit of Pamela Stansbury   |
| Ex1132 | Declaration of Gerard P. Grenier - Laurent Gautier and Christophe Diot, <i>Design and Evaluation of MiMaze, a Multi-Player Game on the Internet</i> , in IEEE INT'L CONF. ON MULTIMEDIA COMPUTING & SYS. 233-235 (Austin, 1998)   |

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| Ex1133 | Library of Congress Certificate and an Article (Laurent Gautier and Christophe Diot, <i>Design and Evaluation of MiMaze, a Multi-Player Game on the Internet</i> ) in IEEE INT'L CONF. ON MULTIMEDIA COMPUTING & SYS. 233-35(Austin, 1998) |
| Ex1134 | Declaration of Matthew R. Shapiro  |
| Ex1135 | Proposed Stipulated Protective Order   |
| Ex1136 | Second Declaration of Peter J. Shoubridge  |
| Ex1137 | Peter J. Shoubridge & Arek Dadej, <i>Hybrid Routing in Dynamic Networks</i> , in 3 IEEE INT'L CONF. ON COMMC'NS CONF. REC. 1381-86 (Montreal, 1997) from University Library of University of Massachusetts at Amherst                      |
| Ex1138 | IEEE Policy and Procedures Manual  |
| Ex1139 | Andrew S. Tanenbaum, COMPUTER NETWORKS (Prentice-Hall, 3d ed. 1996)  |
| Ex1140 | Transcript of Deposition of Gerard P. Grenier, taken on June 14, 2016, in IPR2015-01953, IPR2015-01972, IPR2015-01996  |
| Ex1141 | Declaration of Gerard P. Grenier - Peter J. Shoubridge & Arek Dadej, <i>Hybrid Routing in Dynamic Networks</i> , in IEEE INT'L CONF. ON COMMC'NS CONF. REC. 1381-86 (1997)   |
| Ex1142 | Reserved   |
| Ex1143 | Reserved   |
| Ex1144 | Declaration of Gerard P. Grenier – Steven McCanne, <i>Scalable Multimedia Communication: Using IP Multicast and Lightweight Sessions</i> , in IEEE INTERNET COMPUTING, Vol. 3, Issue 2, 33-45 (1999)                                       |
| Ex1145 | Declaration of David R. Karger   |
| Ex1146 | Reserved   |
| Ex1147 | Reserved   |
| Ex1148 | Reserved   |
| Ex1149 | Laurent Gautier and Christophe Diot, <i>Design and Evaluation of MiMaze, a Multi-Player Game on the Internet</i> , in IEEE INT'L CONF. ON MULTIMEDIA COMPUTING & SYS. 233-235 (Austin, 1998)   |
| Ex1150 | MiMaze Publications – The Multicase internet Maze, available at <a href="https://www-sop.inria.fr/rodeo/MiMaze/ReportInt.html">https://www-sop.inria.fr/rodeo/MiMaze/ReportInt.html</a>  |
| Ex1151 | FTP Directory for ftp-sop.inria.fr, available at <a href="ftp://ftp-sop.inria.fr/rodeo/diot">ftp://ftp-sop.inria.fr/rodeo/diot</a>   |
| Ex1152 | Declaration of Christophe Diot   |
| Ex1153 | Second Declaration of Scott Bennett Ph.D   |

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| Ex1154 | Email exchange between James L. Davis, Jr., counsel for Petitioners, and James Hannah, counsel for Patent Owner, from November 3-6, 2016   |
| Ex1155 | Petitioners' November 4, 2016 Service Email  |
| Ex1156 | Declaration of Matthew R. Shapiro in Support of Petitioners' Consolidated Opposition to PO's Motion to Exclude   |
| Ex1157 | Transcript of Deposition of Glenn Little, taken on June 2, 2016  |
| Ex1158 | Email from James L. Davis, Jr., counsel for Petitioners, to James Hannah and Stephanie Nguyen, counsel for Patent Owner, sent on November 1, 2016 at 6:14PM Eastern time   |
| Ex1159 | Email from Matthew R. Shapiro, counsel for Petitioners, to all counsel of record on November 2, 2016 at 1:00PM Eastern time  |
| Ex1160 | Email from Stephanie Nguyen, counsel for Patent Owner, to Matthew Shapiro, counsel for Petitioners, received on November 7, 2016 at 6:14PM Eastern time  |
| Ex1161 | Email exchange between James L. Davis, Jr. and Matthew Shapiro, counsel for Petitioners, and Stephanie Nguyen, counsel for Patent Owner, from November 4-8, 2016   |
| Ex1162 | Email from James Hannah, counsel for Patent Owner, to James L. Davis, Jr., counsel for Petitioners, received on November 15, 2016 at 5:41PM Eastern time   |
| Ex1163 | Email from James L. Davis, Jr., counsel for Petitioners, to James Hannah, counsel for Patent Owner, sent on November 11, 2016 at 8:58PM Eastern time   |
| Ex1164 | Email from James L. Davis, Jr., counsel for Petitioners, to James Hannah, counsel for Patent Owner, sent on November 15, 2016 at 12:35PM Eastern time and email from James L. Davis, Jr., counsel for Petitioners, to James Hannah, counsel for Patent Owner, sent on November 14, 2016 at 3:22PM Pacific time |
| Ex1165 | Email from James L. Davis, Jr., counsel for Petitioners, to James Hannah, counsel for Patent Owner, sent on November 15, 2016 at 3:47PM Eastern time   |
| Ex1166 | Email from James L. Davis, Jr., counsel for Petitioners, to James Hannah, counsel for Patent Owner, sent on November 15, 2016 at 5:31PM Eastern time   |
| Ex1167 | Declaration of Matthew R. Shapiro in Support of Petitioners' Motion for Rehearing  |

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| Ex1168 | Meet and Confer Telephone Conference, dated August 2, 2016, in IPR2015-01951, IPR2015-01953, IPR2015-01964, IPR2015-01970, IPR2015-01972, IPR2015-01996 |
| Ex1169 | Declaration of Matthew R. Shapiro in Support of Petitioners' Consolidated Opposition to Patent Owner's Motions to Seal                                  |