IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLORADO

REALTIME ADAPTIVE STREAMING LLC,

Plaintiff,

Case No. <u>18CV1177</u>

v.

MITEL NETWORKS, INC.,

JURY TRIAL DEMANDED

Defendant.

COMPLAINT FOR PATENT INFRINGEMENT

This is an action for patent infringement arising under the Patent Laws of the United States of America, 35 U.S.C. § 1 *et seq.* in which Plaintiff Realtime Adaptive Streaming LLC ("Plaintiff" or "Realtime") makes the following allegations against Defendant Mitel Networks, Inc. ("Defendant" or "Mitel").

PARTIES

- 1. Realtime is a Texas limited liability company. Realtime has a place of business at 1828 E.S.E. Loop 323, Tyler, Texas 75701. Realtime has researched and developed specific solutions for data compression. As recognition of its innovations rooted in this technological field, Realtime holds multiple United States patents and pending patent applications.
- 2. On information and belief, Defendant Mitel is a Delaware corporation. Mitel has regular and established places of business in this District, including, e.g., at DTC Corporate 111, Regus Suite 7900 East Union Ave Suite 1100, Denver, CO 80237. Mitel offers its products and/or services, including those accused herein of infringement, to customers and potential customers located in Colorado and in this District. Mitel may be served with process through its registered agent for service at The Corporation Company, 7700 E. Arapahoe Road, Suite 220, Centennial, Colorado 80112-1268.

JURISDICTION AND VENUE



- 3. This action arises under the patent laws of the United States, Title 35 of the United States Code. This Court has original subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a).
- 4. This Court has personal jurisdiction over Defendant Mitel in this action because Mitel has committed acts within the District of Colorado giving rise to this action and has established minimum contacts with this forum such that the exercise of jurisdiction over Mitel would not offend traditional notions of fair play and substantial justice. Defendant Mitel has committed and continues to commit acts of infringement in this District by, among other things, offering to sell and selling products and/or services that infringe the asserted patents.
- 5. Venue is proper in this district, e.g., under 28 U.S.C. § 1400(b). Mitel is registered to do business in Colorado, and upon information and belief, Mitel has transacted business in the District of Colorado and has committed acts of direct and indirect infringement in the District of Colorado. Mitel has regular and established place(s) of business in this District, as set forth above.

THE PATENTS-IN-SUIT

- 6. This action arises under 35 U.S.C. § 271 for Mitel's infringement of Realtime's United States Patent Nos. 7,386,046 (the "'046 patent"), 8,934,535 (the "'535 patent"), and 9,769,477 (the "'477 patent") (the "Patents-In-Suit").
- 7. The '046 patent, titled "Bandwidth Sensitive Data Compression and Decompression," was duly and properly issued by the United States Patent and Trademark Office ("USPTO") on June 10, 2008. A copy of the '046 patent is attached hereto as Exhibit A. Realtime is the owner and assignee of the '046 patent and holds the right to sue for and recover all damages for infringement thereof, including past infringement.



- 8. The '535 patent, titled "Systems and methods for video and audio data storage and distribution," was duly and properly issued by the USPTO on January 13, 2015. A copy of the '535 patent is attached hereto as Exhibit B. Realtime is the owner and assignee of the '535 patent and holds the right to sue for and recover all damages for infringement thereof, including past infringement.
- 9. The '477 patent, titled "Video data compression systems," was duly and properly issued by the USPTO on September 19, 2017. A copy of the '477 patent is attached hereto as Exhibit C. Realtime is the owner and assignee of the '477 patent and holds the right to sue for and recover all damages for infringement thereof, including past infringement.

COUNT I

INFRINGEMENT OF U.S. PATENT NO. 7,386,046

- 10. Plaintiff re-alleges and incorporates by reference the foregoing paragraphs, as if fully set forth herein.
- 11. On information and belief, Mitel has made, used, offered for sale, sold and/or imported into the United States Mitel products that infringe the '046 patent, and continues to do so. By way of illustrative example, these infringing products include, without limitation, e.g., Mitel's products/services (e.g., ShoreTel's Communicator), ShoreTel Mobility Routers (Mobility Router 2000, Mobility Router 4000, Mobility Router 6000 and Virtual SMR), Mitel's Unified Communications & Collaboration solution, Mitel Mobility Router 8.0, Mitel MiVoice Video Phone, Mitel's MiCollab, and all versions and variations thereof since the issuance of the '046 patent ("Accused Instrumentalities").



- 12. On information and belief, Mitel has directly infringed and continues to infringe the '046 patent, for example, through its sale, offer for sale, importation, use and testing of the Accused Instrumentalities, which practices the system claimed by Claim 40 of the '046 patent, namely, a system, comprising: a data compression system for compressing and decompressing data input; a plurality of compression routines selectively utilized by the data compression system, wherein a first one of the plurality of compression routines includes a first compression algorithm and a second one of the plurality of compression routines includes a second compression algorithm; and a controller for tracking throughput and generating a control signal to select a compression routine based on the throughput, wherein said tracking throughput comprises tracking a number of pending access requests to a storage device; and wherein when the controller determines that the throughput falls below a predetermined throughput threshold, the controller commands the data compression engine to use one of the plurality of compression routines to provide a faster rate of compression so as to increase the throughput. Upon information and belief, Mitel uses the Accused Instrumentalities to practice infringing methods for its own internal non-testing business purposes, while testing the Accused Instrumentalities, and while providing technical support and repair services for the Accused Instrumentalities to Mitel's customers.
- 13. For example, the Accused Instrumentalities utilize H.264 video compression standard, which utilizes Scalable Video Coding technology. Moreover, the Accused Instrumentalities state that "[D]ynamic adaption powered by Adaptive Vidyo LayeringTM technology and H.264 Scalable Video Coding (SVC) dynamically optimizes video quality based on network connectivity and individual endpoints to



deliver a telepresence-quality experience to every participant." See, e.g., https://mitel.se/sites/default/files/Vidyo%2Bfor%2BMitel_V3_0.pdf.

See, e.g., Recommendations ITU-T H.264 (03/2010) Annex G (Scalable video coding), p. 387-599.

Annex G

Scalable video coding

(This annex forms an integral part of this Recommendation | International Standard)

This annex specifies scalable video coding, referred to as SVC.

G.1 Scope

Bitstreams and decoders conforming to one or more of the profiles specified in this annex are completely specified in this annex with reference made to clauses 2-9 and Annexes A-E.

G.2 Normative references

The specifications in clause 2 apply with the following additions.

- ISO/IEC 10646:2003, Information technology Universal Multiple-Octet Coded Character Set (UCS).
- IETF RFC 3986 (2005), Uniform Resource Identifiers (URI): Generic Syntax.

G.3 Definitions

For the purpose of this annex, the following definitions apply in addition to the definitions in clause 3. These definitions are either not present in clause 3 or replace definitions in clause 3.

- G.3.1 arbitrary slice order (ASO): A decoding order of slices in which the macroblock address of the first macroblock of some slice of a slice group within a layer representation may be less than the macroblock address of the first macroblock of some other preceding slice of the same slice group within the same layer representation or in which the slices of a slice group within a layer representation may be interleaved with the slices of one or more other slices groups within the same layer representation.
- G.3.2 associated NAL unit: A NAL unit that directly succeeds a prefix NAL unit in decoding order.
- G.3.3 B slice: A slice that may be decoded using intra-layer intra prediction or inter prediction using at most two motion vectors and reference indices to predict the sample values of each block.
- G.3.4 base layer: A bitstream subset that contains all NAL units with the nal_unit_type syntax element equal to 1 and 5 of the bitstream and does not contain any NAL unit with the nal_unit type syntax element equal to 14, 15, or 20 and conforms to one or more of the profiles specified in Annex A.
- G.3.5 base quality layer representation: The layer representation of the target dependency representation of an access unit that is associated with the quality_id syntax element equal to 0.
- G.3.6 bitstream subset: A bitstream that is derived as a subset from a bitstream by discarding zero or more NAL units. A bitstream subset is also referred to as sub-bitstream.
- G.3.7 bottom macroblock (of a macroblock pair): The macroblock within a macroblock pair that contains the samples in the bottom row of samples for the macroblock pair. For a field macroblock pair, the bottom macroblock represents the samples from the region of the bottom field or layer bottom field of the frame or layer frame, respectively, that lie within the spatial region of the macroblock pair. For a frame macroblock pair, the bottom macroblock represents the samples of the frame or layer frame that lie within the bottom half of the spatial region of the macroblock pair.
- G.3.8 coded slice in scalable extension NAL unit: A coded slice NAL unit that contains an El slice, EP slice, or an EB slice.
- G.3.9 complementary reference field pair. A collective term for two reference fields that are in consecutive access units in decoding order as two coded fields, where the target dependency representations of the fields share the same value of the frame, num syntax element and where the second field in decoding order is not an IDR picture and the target dependency representation of the second field does not include a memory_management_control_operation syntax element equal to 5, or a complementary reference base field pair.

https://en.wikipedia.org/wiki/Scalable_Video_Coding



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