

**IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF TEXAS  
MARSHALL DIVISION**

UNILOC 2017 LLC and UNILOC USA, INC.	§	
	§	
Plaintiffs,	§	CIVIL ACTION NO. 2:18-cv-00502
	§	
v.	§	
	§	PATENT CASE
GOOGLE LLC,	§	
	§	
Defendant.	§	JURY TRIAL DEMANDED

**ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT**

Plaintiffs Uniloc 2017 LLC and Uniloc USA, Inc. (together “Uniloc”), as and for their complaint against defendant Google LLC (“Google”) allege as follows:

**THE PARTIES**

1. Uniloc 2017 LLC is a Delaware limited liability company having places of business at 620 Newport Center Drive, Newport Beach, California 92660 and 102 N. College Avenue, Suite 303, Tyler, Texas 75702.
2. Uniloc USA, Inc. is a Texas corporation having a place of business at Legacy Town Center I, Suite 380, 7160 Dallas Parkway, Plano, Texas 75024.
3. Uniloc holds all substantial rights, title and interest in and to the asserted patent.
4. On information and belief, Google, a Delaware corporation with its principal office at 1600 Amphitheatre Parkway, Mountain View, CA 94043. Google offers its products and/or services, including those accused herein of infringement, to customers and potential customers located in Texas and in the judicial Eastern District of Texas.

**JURISDICTION**

5. Uniloc brings this action for patent infringement under the patent laws of the United

States, 35 U.S.C. § 271 *et seq.* This Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a).

6. This Court has personal jurisdiction over Google in this action because Google has committed acts within the Eastern District of Texas giving rise to this action and has established minimum contacts with this forum such that the exercise of jurisdiction over Google would not offend traditional notions of fair play and substantial justice. Google 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 patent.

7. Venue is proper in this Court pursuant to 28 U.S.C. §§ 1391 and 1400(b). Google is registered to do business in Texas, and upon information and belief, Google has transacted business in the Eastern District of Texas and has committed acts of direct and indirect infringement in the Eastern District of Texas. Google has a regular and established place of business in this District, as set forth below.

8. Google is a multinational technology company that collects, stores, organizes, and distributes data. In addition to its service model for distribution of data (e.g., movies, search results, maps, music, etc.), Google has an expansive regime that gathers data on residents of this District through the hardware devices it sells (e.g., phones, tablets, and home audio devices) and, also, through the operating systems and apps it provides. As an example, Google gathers data when a resident runs its operating systems and apps (e.g., location services).<sup>1</sup> As another example, Google gather's data when a resident interacts with Google's plethora of services such as search, email, and music and movie streaming. See <https://safety.google/privacy/data/> (indicating that Google

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<sup>1</sup> See e.g., “AP Exclusive: Google tracks your movements, like it or not,” <https://apnews.com/828aefab64d4411bac257a07c1af0ecb/AP-Exclusive:-Google-tracks-your-movements,-like-it-or-not>

gathers data from “things you search for,” “Videos you watch,” “Ads you view or click,” “Your location,” “Websites you visit,” and “Apps, browsers, and devices you use to access Google services”). As yet another example, Google gathers data by listening and recoding everything a resident says within proximity of one of its products such as Google Home.<sup>2</sup> Others have reported that Google gathers “where you’ve been,” “everything you’ve ever searched – and deleted,” “all the apps you use,” “all of your YouTube history,” “which events you attended, and when,” “information you deleted [on your computer],” “your workout routine,” “years’ worth of photos,” and “every email you ever sent.”<sup>3</sup>

9. Google takes these massive amounts of gathered data on residents of this district and monetizes them, for example, through targeted advertising. Some have reported that “creepy” advertisements for items never searched for, but only spoken out loud appeared. *See e.g.*, <https://www.youtube.com/watch?v=zBnDWSvaQII> (conducting test on the term “dog toys” spoken out loud, but never searched; tester claims targeted “dog toy” advertisements only appeared after speaking the phrase out loud).

10. In addition to extensive data gathering of information on residents of this District, Google has a substantial presence in the District directly through the products and services Google provides residents of this District (some of which also gather data).<sup>4</sup> One of Google’s main

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<sup>2</sup> *See* <https://www.unilad.co.uk/technology/google-is-listening-to-everything-we-say-and-you-can-hear-it-back/> (“Tech giant and the font of all pub quiz knowledge, Google, can quietly record many of the conversations that people have in close proximity to its products.”).

<sup>3</sup> *See* <https://www.theguardian.com/commentisfree/2018/mar/28/all-the-data-facebook-google-has-on-you-privacy>.

<sup>4</sup> Non-limiting examples include Google Search, Maps, Translate, Chrome Browser, YouTube, YouTube TV, Google Play Music, Chromecast, Google Play Movies and TV, Android Phones, Android Wear, Chromebooks, Android Auto, Gmail, Google Allo, Google Duo, Google+, Google Photos, Google Contacts, Google Calendar, Google Keep, Google Docs, Google Sheets, Google Slides, Google Drive, Google Voice, Google Assistant, Android operating system, Project Fi Wireless phone systems, Google Pixel, Google Home, Google Wifi, Daydream View, Chromecast Ultra.

businesses in this District is delivering information, including digital content such as movies, music, apps, and advertising.

11. Google describes itself as an “information company.”<sup>5</sup> Its vision is “to provide access to the world’s information in one click,” and its mission is “to organize the world’s information and make it universally accessible and useful.”<sup>6</sup> Making information available to people wherever they are and as quickly as possible is critical to Google’s business.

Google Global Cache (GGC)

12. As Google’s CEO, Sundar Pichai, explains, “We want to make sure that no matter who you are or where you are or how advanced the device you are using—Google works for you.”<sup>7</sup> To meet this goal, Google developed a content delivery network that it calls the Edge Network.

13. One non-limiting example of physical presence in this District is Google’s Edge Network. Google provides web-based services, such as YouTube, YouTube TV, and Google Play, to users throughout the world. These services are in high demand. Google reports that Google Play reaches more than 1 billion Android users and that YouTube serves over 1.8 billion users per month.<sup>8</sup> Studies show that YouTube alone is responsible for approximately 20% of all internet traffic.<sup>9</sup> YouTube TV, which has been described as an “add-on to YouTube” allows Google to essentially become the local TV provider for residents of this District. For example, residents in this District obtain local Dallas-Fort Worth area channels such as WFAA, ABC (Channel 8); CBS

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<sup>5</sup> See “This Year’s Founder’s Letter” by Alphabet CEO, Sundar Pichai, <https://blog.google/inside-google/alphabet/this-years-founders-letter/>.

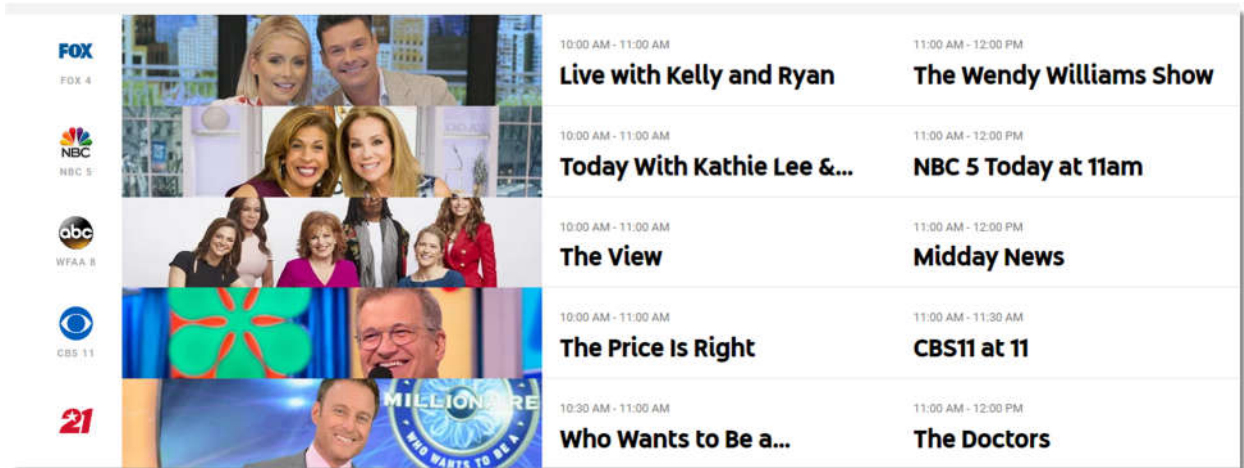
<sup>6</sup> <http://panmore.com/google-vision-statement-mission-statement>.

<sup>7</sup> See e.g., <http://time.com/4311233/google-ceo-sundar-pichai-letter/>.

<sup>8</sup> See <https://www.theverge.com/2018/5/3/17317274/youtube-1-8-billion-logged-in-monthly-users-brandcast-2018>

<sup>9</sup> See <https://www.sandvine.com/hubfs/downloads/archive/2016-global-internet-phenomena-report-latin-america-and-north-america.pdf> and <http://testinternetspeed.org/blog/half-of-all-internet-traffic-goes-to-netflix-and-youtube/>

(Channel 11); NBC (Channel 5); and Fox (Channel 4).<sup>10</sup>



Source: <https://tv.youtube.com/live> (as accessed from this District).

To verify a resident should receive such local channels, Google verifies a location of such resident.

14. Google’s Edge Network, itself, has three elements: Core Data Centers, Edge Points of Presence, and Edge Nodes. The Core Data Centers (there are eight in the United States) are used for computation and backend storage. Edge Points of Presence are the middle tier of the Edge Network and connect the Data Centers to the internet. Edge Nodes are the layer of the network closest to users. Popular content, including YouTube TV, YouTube, video advertising, music, mobile apps, and other digital content from the Google Play store, is cached on the Edge Nodes, which Google refers to as Google Global Cache or “GGC”.

15. Google Global Cache is recognized as “one of Google’s most important pieces of infrastructure,”<sup>11</sup> and Google uses it to conduct the business of providing access to the world’s information. GGC servers in the Edge Nodes function as local data warehouses, much like a shoe manufacturer might have warehouses around the country. Instead of requiring people to obtain

<sup>10</sup> See, e.g. <https://support.google.com/youtubetv/answer/7068923?hl=en> and [https://support.google.com/youtubetv/answer/7370552?hl=en&ref\\_topic=7071745](https://support.google.com/youtubetv/answer/7370552?hl=en&ref_topic=7071745).

<sup>11</sup> <http://blog.speedchecker.xyz/2015/11/30/demystifying-google-global-cache/>.

information from distant Core Data Centers, which would introduce delay, Google stores information in the local GGC servers to provide quick access to the data.

16. Caching and localization are vital for Google's optimization of network resources. Because hosting all content everywhere is inefficient, it makes sense to cache popular content and serve it locally. Doing so brings delivery costs down for Google, network operators, and internet service providers. Storing content locally also allows it to be delivered more quickly, which improves user experience. Serving content from the edge of the network closer to the user improves performance and user happiness. To achieve these benefits, Google has placed Edge Nodes throughout the United States, including in this District. Google describes these nodes as the workhorses of video delivery.

17. Just like brick-and-mortar stores, Google's GGC servers independently determine what content to cache based on local requests. The GGC servers in Google's Edge Nodes include software that Google refers to as "µstreamer." µstreamer is responsible for serving video content from YouTube and other Google services, along with other large content such as Google Play applications and Chrome downloads. It operates on a content-delivery platform at the edge of Google's network called "bandaid"; it does not run in the core (except for some internal testing purposes), unlike the majority of the Google services, such as search or Gmail.

18. Using µstreamer and bandaid, a GGC server handles requests directly from its clients, predominantly YouTube's video players. When such a request is received, if the content is stored in the node's local cache, the node will serve it to the end user, improving the user experience and saving bandwidth. If cache-eligible content is not already stored on the node, and the content is cache-eligible, the node will retrieve it from Google, serve it to the user, and store it for future requests.

19. µstreamer is largely autonomous, in the sense that almost all decisions related

to serving a particular request are made locally, without coordinating with other servers. Like a brick-and-mortar store sells directly to customers from inventory and stocks that inventory based on local customer demand, μstreamer in each GGC node decides—independently from other nodes in Google’s Edge Network— whether to serve requested content, whether to cache content, and whether to send requests to other servers.

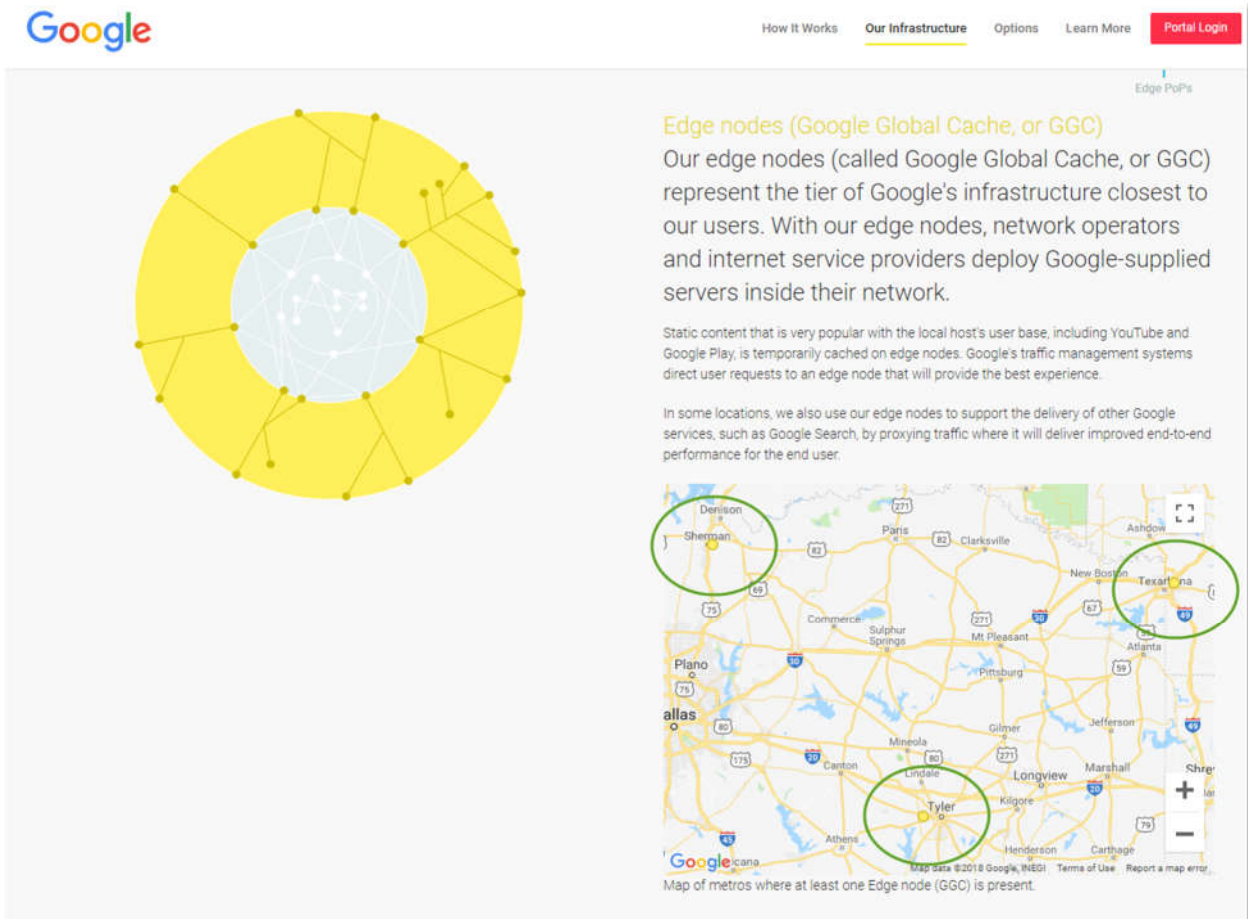
20. Google’s GGC servers are housed in spaces in the District leased by Google. Google’s GGC servers are housed in spaces leased by Google from Internet Service Providers (ISPs) whose networks have substantial traffic to Google and are interested in saving bandwidth. Hosting Google servers allows ISPs to save both bandwidth and costs, as they do not incur the expense of carrying traffic across their peering and/or transit links.

21. When an ISP agrees to host a GGC server, the parties enter into a Global Cache Service Agreement, under which Google provides:

- hardware and software— including GGC servers and software—to be housed in the host’s facilities;
- technical support; service management of the hardware and software; and
- content distribution services, including content caching and video streaming.

In exchange, the host provides, among other things, a physical building, rack space where Google’s computer hardware is mounted, power, and network interfaces. All ownership rights, title, and intellectual property rights in and to the equipment (i.e., the hardware and software provided by Google) remain with Google and/or its licensors.

22. Multiple ISPs hosted GGC servers are in this District. Google provides the location of its GGC servers, namely Sherman, Tyler, and Texarkana.



The screenshot shows the Google 'Our Infrastructure' page. On the left is a diagram of a circular network structure with a central blue core and an outer yellow ring of nodes connected by lines. On the right, the text explains 'Edge nodes (Google Global Cache, or GGC)' and their role in caching static content and improving performance. Below the text is a map of Texas with three green circles highlighting Edge node locations: Sherman, Tyler, and Texarkana. The map is titled 'Map of metros where at least one Edge node (GGC) is present.'

Google

How It Works **Our Infrastructure** Options Learn More [Portal Login](#)

Edge PoPs

**Edge nodes (Google Global Cache, or GGC)**

Our edge nodes (called Google Global Cache, or GGC) represent the tier of Google's infrastructure closest to our users. With our edge nodes, network operators and internet service providers deploy Google-supplied servers inside their network.

Static content that is very popular with the local host's user base, including YouTube and Google Play, is temporarily cached on edge nodes. Google's traffic management systems direct user requests to an edge node that will provide the best experience.

In some locations, we also use our edge nodes to support the delivery of other Google services, such as Google Search, by proxying traffic where it will deliver improved end-to-end performance for the end user.

Map of metros where at least one Edge node (GGC) is present.

Source: <https://peering.google.com/#/infrastructure>

23. Suddenlink Communications, for example, is an ISP that hosts six GGC servers in Tyler, Texas.
24. CableOne is an ISP that hosts three GGC servers in Sherman, Texas, and three GGC servers Texarkana, Texas.
25. Google caches content on these GGC servers located in this District.
26. Google's GGC servers located in this District cache content that includes, among other things: (i) video advertising; (ii) apps; and (iii) digital content from the Google Play store.
27. Google's GGC servers located in this District deliver cached content for the items in the preceding paragraph to residents in this District.
28. Google generates revenue (i) by delivering video advertising, (ii) from apps,



and (iii) from digital content in the Google Play store.

29. Google treats its GGC servers in this District the same as it treats all of its other GGC servers in the United States.

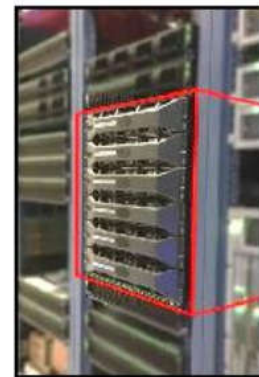
30. The photographs below show Google’s GGC servers hosted by Suddenlink and the building where they are located at 322 North Glenwood Boulevard, Tyler, Texas 75702.



**Exterior**



**Interior Rack Spaces**



**Google GGC Servers**

31. Google not only exercises exclusive control over the digital aspects of the GGC, Google, but also exercises exclusive control over the physical server and the physical space within which the server is located and maintained.

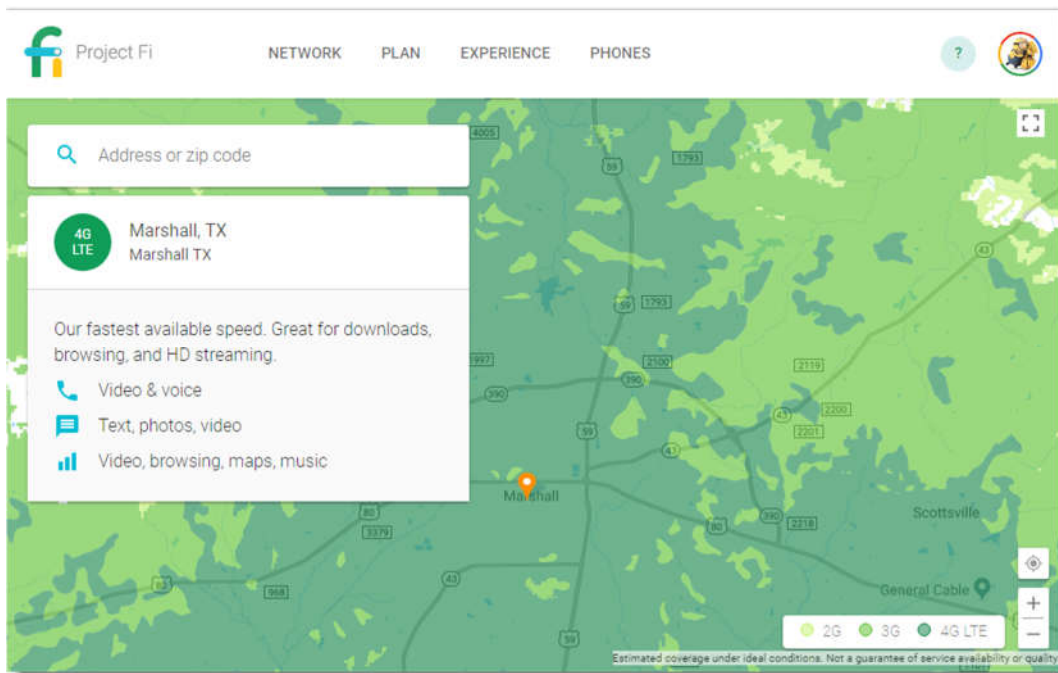
32. This District has previously determined that the GGC server itself and the place of the GGC server, both independently and together, meet the statutory requirement of a “physical place.” See *Seven Networks, LLC v. Google, LLC*, Case No. 2:17-cv-00442-JRG (E.D. Tex.) (Jul. 19, 2018) at Page 24.

33. Likewise, this District has determined that GGC servers and their several locations within this District constitute “regular and established place[s] of business” within the meaning of the special patent venue statute See *Seven Networks, LLC v. Google, LLC*, Case No. 2:17-cv-00442-JRG (E.D. Tex.) (Jul. 19, 2018) at page 38.

34. Similarly, this District has determined that the GGC servers and their locations within the various ISPs within this District are “places of Google” sufficient to meet the statutory requirement of § 1400(b). *See Seven Networks, LLC v. Google, LLC*, Case No. 2:17-cv-00442-JRG (E.D. Tex.)(Jul. 19, 2018) at page 41.

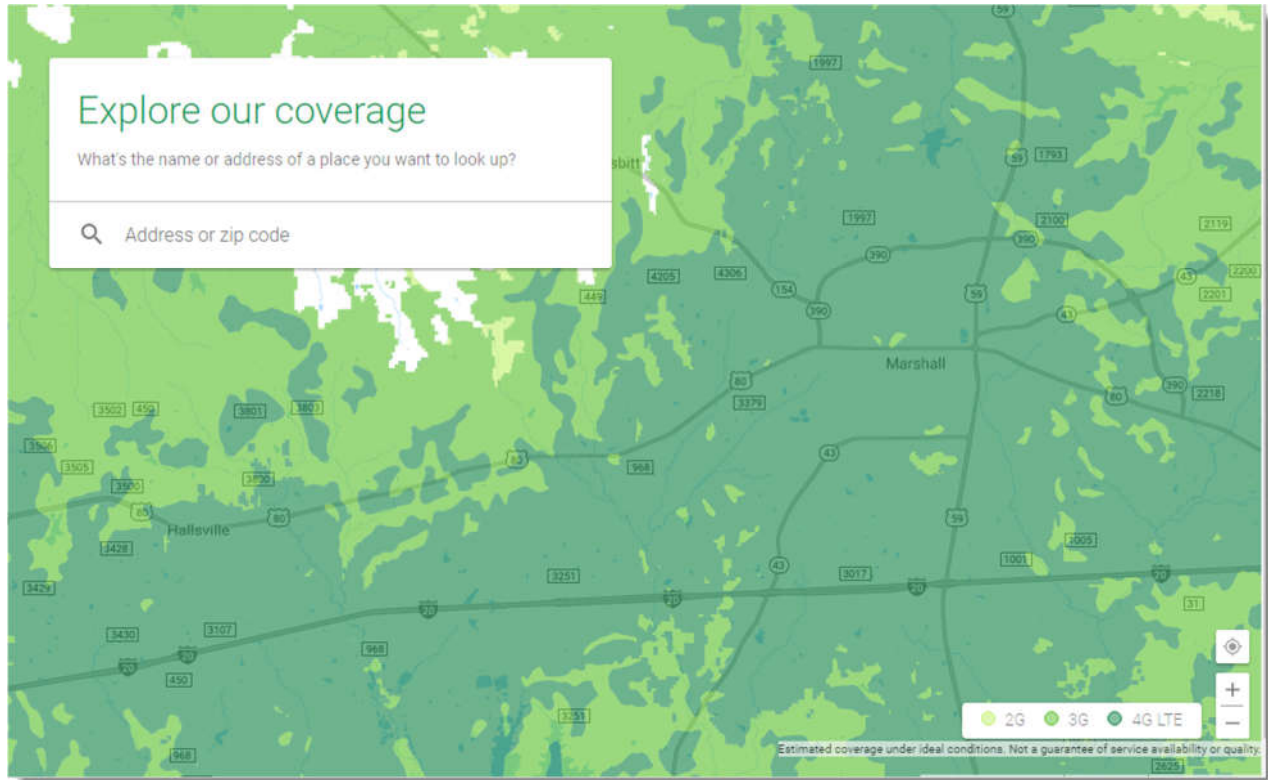
*Google’s Cell Phone Service (aka Google Fi)*

35. Google also provides phone, messaging, and data services in this District from its wireless phone services called Google Fi. Via this Google Fi service, Google provides its customers voice and high-speed data coverage (4G LTE) for cities such as Tyler and Marshall, TX.



Source: <https://fi.google.com/coverage?q=Marshall%2C%20TX%2C%20USA>

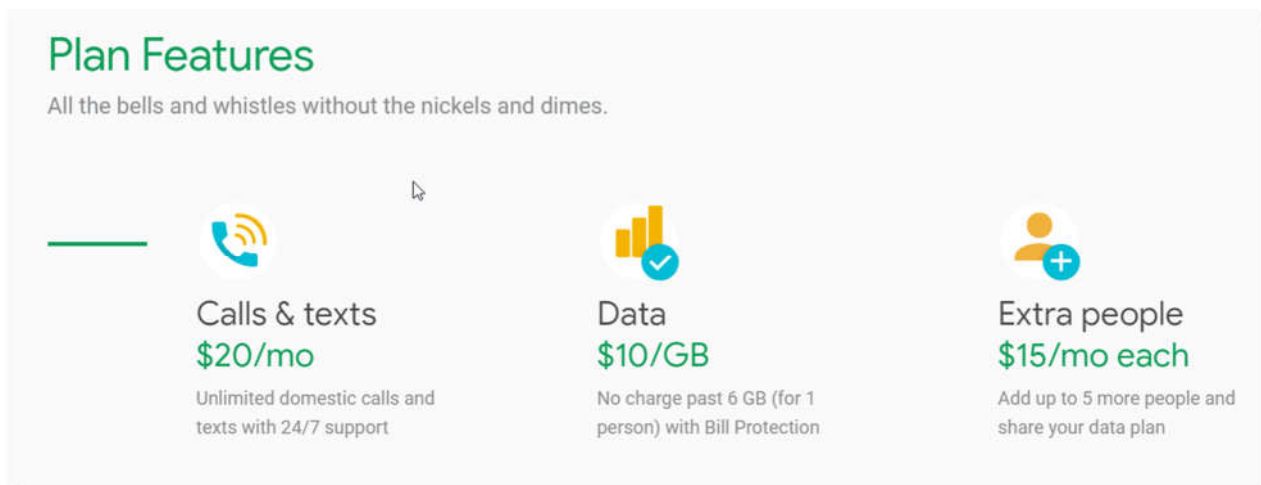
36. The cell towers used for Google’s services are fixed geographical locations. They are “regular” and “established” because they operate in a “steady, uniform, orderly, and methodical manner” and are sufficiently permanent. They are “of the defendant” because Google has contractual and/or property rights to use the cell towers to operate its business. Google also ratifies the service locations through its coverage lookup service.



Source: <https://fi.google.com/coverage?>

37. With this coverage lookup service, Google advertises its ability to provide cell coverage in this District and it selected cell towers in and near this District to provide the advertised coverage (e.g., 2G, 3G, or 4GLTE) depending on the location in the District. See <https://fi.google.com/coverage?>. Google is not indifferent to the location of its cell towers. It “established” and “ratified” them where they are for a specific business purpose.

38. Residents of this District also directly contract with and are billed by Google for these services.



**Plan Features**  
All the bells and whistles without the nickels and dimes.

- Calls & texts**  
\$20/mo  
Unlimited domestic calls and texts with 24/7 support
- Data**  
\$10/GB  
No charge past 6 GB (for 1 person) with Bill Protection
- Extra people**  
\$15/mo each  
Add up to 5 more people and share your data plan

Source: <https://fi.google.com/about/plan>

39. Google also determines which cell tower a particular project Fi customer will use while within the District.

✓ What determines when Project Fi moves me between cellular networks?


When multiple carriers are available, Project Fi will move you to the network that our analysis shows will be fastest in your current location, whether that is 4G LTE, 3G, or 2G. We're constantly learning and improving, to account for factors such as newly-built towers or newly-available radio frequencies. And if your current network is providing weak or no coverage, we'll adjust in real time to find you a stronger connection.

Source: <https://fi.google.com/about/faq/#network-and-coverage-4>

Google Cloud Interconnect (GCI) and Direct Peering

40. Google additionally services its customers in this District (and other districts) through yet other facilities it has in this District. More particularly, Google's equipment is located in this District in Denton County Texas at two facilities referred to as "Megaport." At the Megaport facilities in this District, Google offers two services: Google Cloud Interconnect (GCI) and Direct Peering.

41. Google Cloud's Interconnect (GCI) is a service from Google that allows customers to connect to Google Cloud Platform directly as opposed to, for example, over the public network.



### Partner Interconnect

You can also extend your data center network into your Google Cloud projects through the service providers you know and love, Partner Interconnect offers enterprise-grade connections similar to Dedicated Interconnect. This solution allows you to add connectivity from your on-premises network to your GCP VPC through one of Google Cloud's many [service provider partners](#).

Partner Interconnect gives you bandwidth options from 50Mbps - 10Gbps allowing you to connect to your VPC and to extend your corporate data center's IP space into the Google cloud by choosing the bandwidth that works best for your needs. This allows you to work with our partners to get similar SLA options as provided by Dedicated Interconnect when you are not able to meet us at one of our dedicated interconnect locations.

Please see the Partner Interconnect [documentation](#) for details on how to create a Partner Interconnect in your GCP Project.

Source: <https://cloud.google.com/interconnect/>

42. Google's Direct Peering services allows its customers to exchange Internet traffic between its customers network and Google's at one of its broad-reaching Edge network locations such as the one at Megaport.

## Direct Peering



[SEND FEEDBACK](#)

Connect your business network directly to Google at any of 100+ locations in 33 countries around the world and exchange high throughput cloud traffic.

### What is direct peering?

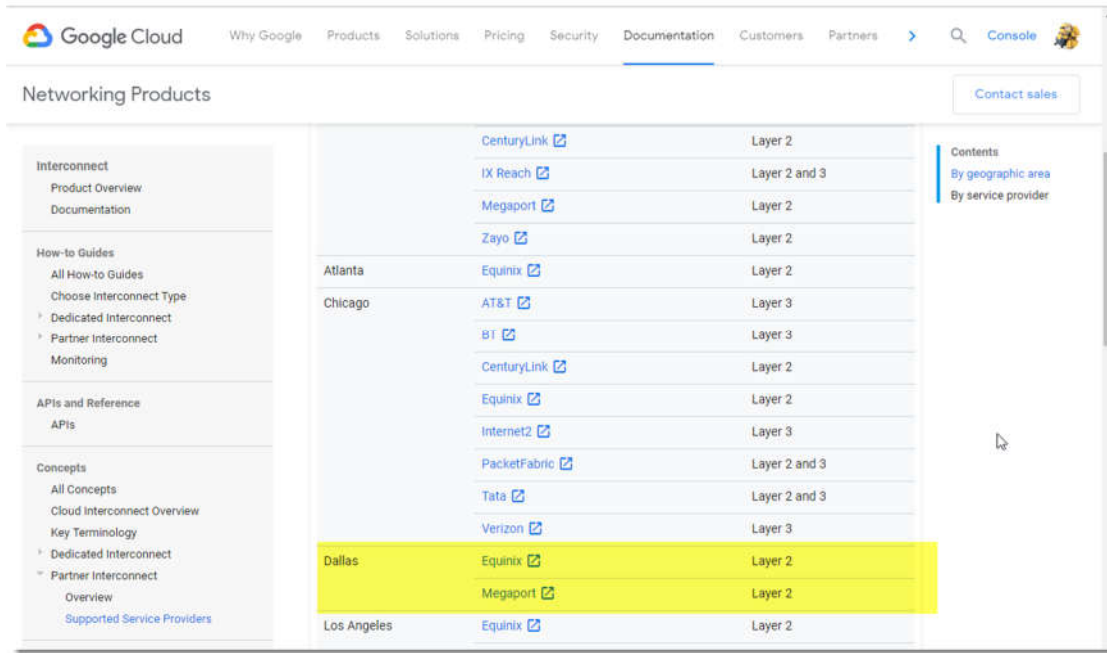
Google allows you to establish a direct [peering](#) connection between your business network and Google's. With this connection you will be able to exchange Internet traffic between your network and Google's at one of our broad-reaching Edge network locations. Visit [Google's peering site](#) to find out more information about edge locations.

Direct peering with Google is done by exchanging BGP routes between Google and the peering entity. After a direct peering connection is in place, you can use it to reach all of Google's services including the full suite of Google Cloud Platform products.

Source: <https://cloud.google.com/interconnect/docs/how-to/direct-peering>

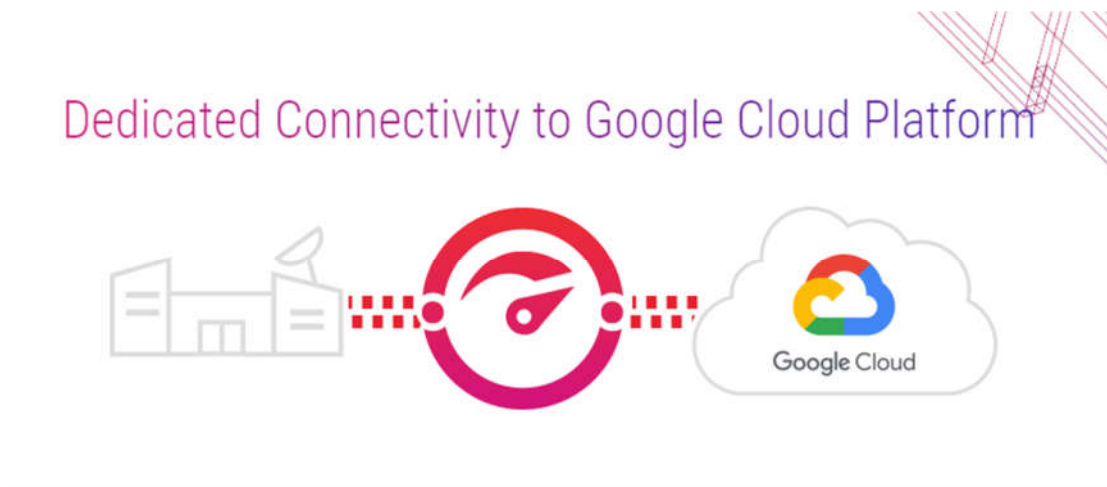
43. In establishing such a direction connection, Google provides the necessary physical

equipment at Megaport to enable such GCI or Direct Peering connections. Google advertises only two GCI facilities in Texas – the Equinix facility and Megaport facility (the latter is located in this District).



Source: <https://cloud.google.com/interconnect/docs/concepts/service-providers#by-location>

44. Clicking on the Megaport link from screenshot of Google’s website in the preceding paragraph directs a customer as to the details of directly connecting to Google’s equipment at the facility in this District to connect to Google’s GCI service.



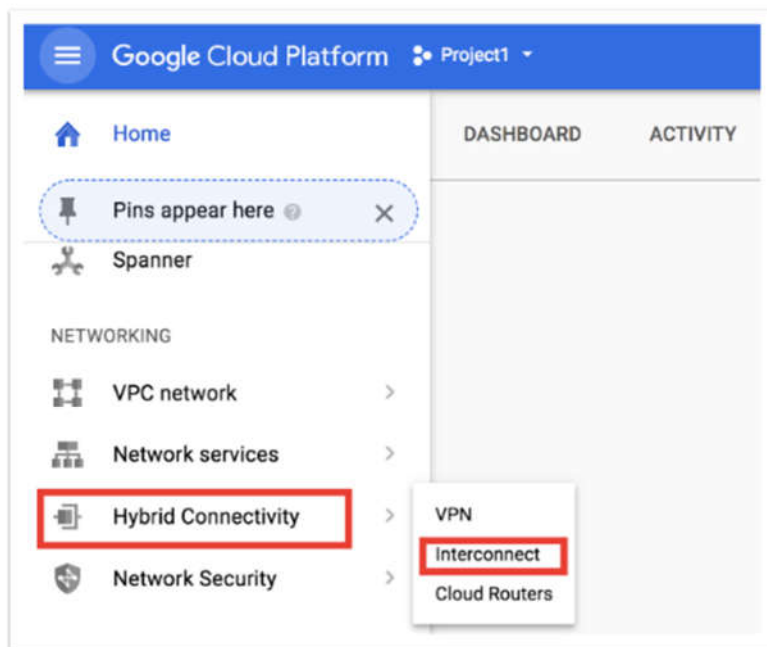
<https://www.megaport.com/services/google-cloud-partner-interconnect/>

45. More particularly, the Google-linked Megaport site explains how a Google customer can use the Google Cloud Platform console to enable connection to the Google equipment at the Megaport facility in this district.

## VXC Deployment Steps

First, you will need to log in to your Google Cloud Console and create a Pairing Key: [Google Console Link](#)

Next, click on the main menu in the Google Console, then select 'Hybrid Connectivity' and 'Interconnect' from the drop-down.



Source: [https://knowledgebase.megaport.com/cloud-connectivity/google-cloud/?\\_ga=2.258056911.476938490.1538320465-1560947970.1538320465](https://knowledgebase.megaport.com/cloud-connectivity/google-cloud/?_ga=2.258056911.476938490.1538320465-1560947970.1538320465)

46. Both Google's website and Megaport's website advertise the peering service and point a consumer to the website, [www.peeringdb.com](http://www.peeringdb.com), for details. The peering DB website lists Megaport Dallas as a Google peering facility.

## Who can peer with Google?

Any Google Cloud Platform customers that meet Google’s technical peering requirements specified in [our peering page](#) can be considered for the direct peering service. Google can peer at the Internet Exchanges (IXPs) and private facilities that are listed in our [PeeringDB entry](#).

Source: <https://cloud.google.com/interconnect/docs/how-to/direct-peering>

### Megaport – Google IX Peering Locations:

- MegalIX: Ashburn, Dallas, Los Angeles, Seattle, Singapore, Sofia, Sydney
- AMS-IX: Chicago, New York, Bay Area

See [PeeringDB](#) for additional details.

<https://knowledgebase.megaport.com/cloud-connectivity/google-cloud-platform-direct-peering/>

The screenshot shows the PeeringDB website interface. At the top, there is a search bar and navigation links for 'Register or Login'. Below the search bar, the profile for 'Google LLC' is displayed, including details like 'Organization', 'Also Known As', 'Company Website', 'Primary ASN', 'IRR Record', and 'Route Server URL'. To the right, a table titled 'Public Peering Exchange Points' lists various exchange locations. The 'MegalIX Dallas' entry is circled in green, showing its ASN (15169), IPv4 and IPv6 addresses, and a speed of 10G.

Exchange	ASN	IPv4	IPv6	Speed	RS	Peer
MegalIX Dallas	15169	206.53.174.7	2001:a980:0:3::9	10G	✓	✓
MegalIX Los Angeles	15169	206.53.172.10	2001:a980:0:7::7	10G	✓	✓
MegalIX Los Angeles	15169	206.53.172.10	2001:a980:0:5::a	10G	✓	✓

<https://www.peeringdb.com/net/433>

47. Megaport’s website also confirms in its “Looking Glass” tool the presence of Google at its facility – (AS No. 15169).



The screenshot shows the Megaport Looking Glass tool interface. On the left, a sidebar lists various IX locations: Ashburn IX (ASN: 64216), Auckland IX (ASN: 63839), Brisbane IX (ASN: 58942), Dallas IX (ASN: 64222), Las Vegas IX (ASN: 64220), Los Angeles IX (ASN: 64220), Melbourne IX (ASN: 58943), and Perth IX (ASN: 58941). The main content area is titled "Dallas IX" and displays a table of ASes. The table has columns for DESCRIPTION, AS, RS1, and RS2. The AS "Google Inc" with AS number 15169 is highlighted. Below this, a "Primary" view shows a routing table with columns: PREFIX, BEST, NEXT HOP, LOCAL PREF, ORIGIN, AS PATH, and SINCE. The routing table shows multiple paths for various prefixes, all originating from AS 15169.

DESCRIPTION	AS	RS1	RS2	Details	Routes
Akamai International B.V.	20940	●	●	Details	Routes
CloudFlare	13335	●	●	Details	Routes
DSV AS	49362	●	●	Details	Routes
Google Inc	15169	●	●	Details	Routes

PREFIX	BEST	NEXT HOP	LOCAL PREF	ORIGIN	AS PATH	SINCE
104.132.0.0/14	Y	206.53.174.7	100	36384	15169 36384	2018-08-23 22:12
104.132.113.0/24	Y	206.53.174.7	100	41264	15169 41264	2018-09-25 23:23
104.132.114.0/24	Y	206.53.174.7	100	41264	15169 41264	2018-09-07 19:02
104.132.116.0/24	Y	206.53.174.7	100	41264	15169 41264	2018-09-19 14:47
104.132.117.0/24	Y	206.53.174.7	100	41264	15169 36384 41264	2018-09-24 02:19
104.132.118.0/24	Y	206.53.174.7	100	41264	15169 41264	2018-09-21 20:03
104.132.119.0/24	Y	206.53.174.7	100	41264	15169 41264 41264	2018-09-30 10:14

Source: <https://portal.megaport.com/tools/looking-glass>

48. Both of Megaport’s “Dallas” locations are in the Eastern District of Texas in Denton County.<sup>12</sup> The larger Megaport facility, the Carrollton facility, is located at 1649 West Frankford Rd and is the largest of its kind in the state of Texas.<sup>13</sup> The smaller Megaport facility, the Lewisville facility, is located at 2501 St. State Hwy 121.

49. The Google equipment at Megaport’s facilities which provide the GCI and Direct Peering services for Google customer are fixed geographical locations. They are “regular” and “established” because they operate in a “steady, uniform, orderly, and methodical manner” and are sufficiently permanent. They are “of the defendant” because Google holds contractual and/or property rights to use this space and to maintain this equipment. Google also ratifies the equipment through advertising of the Megaport location as authorized to provide these Google services.

<sup>12</sup> <https://www.megaport.com/blog/cyrusone-brings-dallas-closer-cloud/>

<sup>13</sup> *Id.*

Other Google Presence in this District

50. In addition to the Google presence described above, Google has other pervasive contacts in this District.

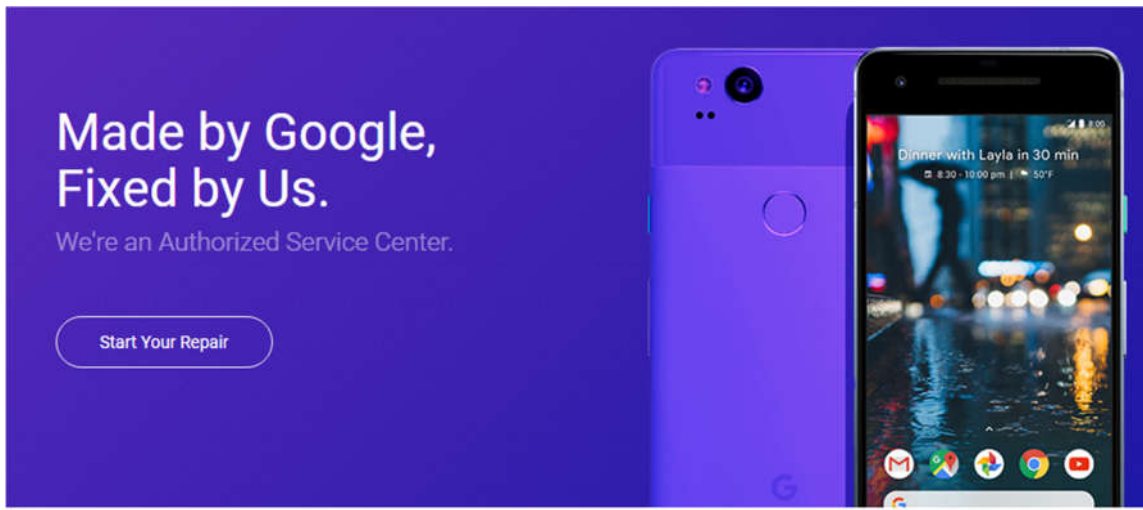
51. Google has multiple authorized repair centers in the Eastern District. A resident can visit Google’s website to find a list of these repair centers:

United States	uBreakiFix <a href="#">↗</a>	Pixel, Pixel XL, Pixel 2, Pixel 2 XL	Walk-in	<ul style="list-style-type: none"> <li>• uBreakiFix <a href="#">↗</a></li> <li>• Phone: 1-877-320-2237</li> </ul>
	Puls <a href="#">↗</a>	Pixel, Pixel XL, Pixel 2, Pixel 2 XL	At home (Dial-in)	<ul style="list-style-type: none"> <li>• Puls <a href="#">↗</a></li> <li>• Phone: (855) 256-3709</li> </ul>
	Google <a href="#">↗</a>	Pixel, Pixel XL, Pixel 2, Pixel 2 XL	Mail-in	<ul style="list-style-type: none"> <li>• Google <a href="#">↗</a></li> <li>• Repair program currently expanding, option might not be available</li> </ul>

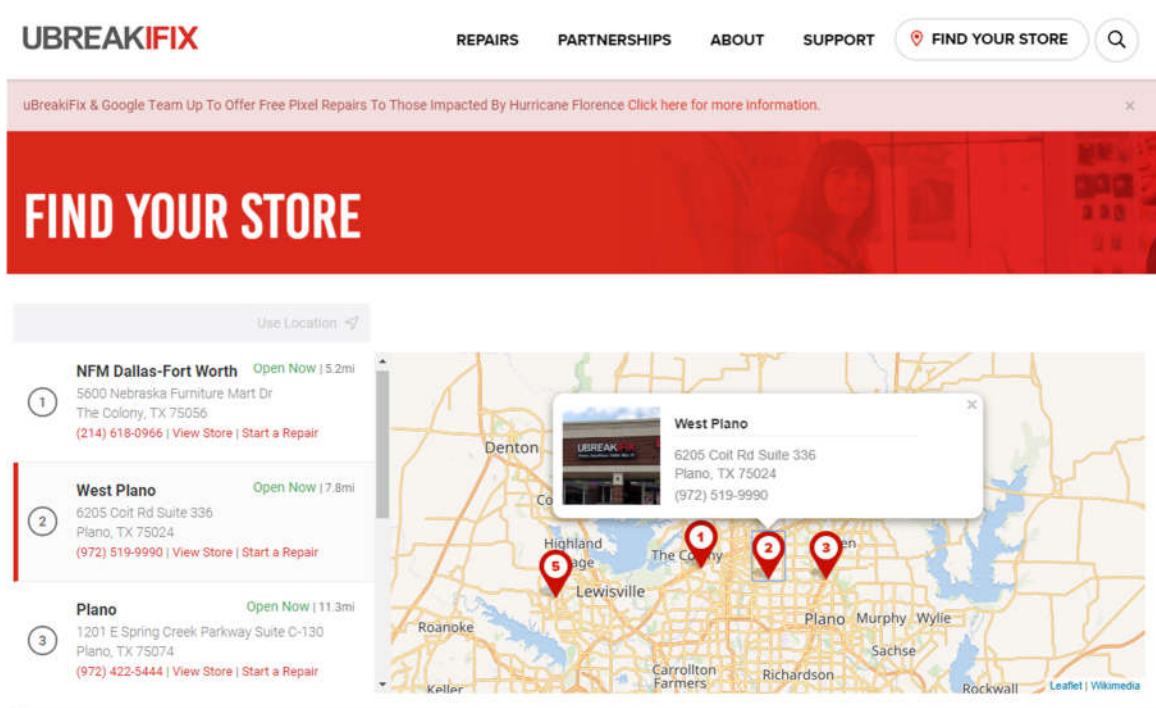
In US and Canada, replacement of parts or product service is made available for a minimum of three years after end of production for all phones through Google or its service providers.

Source: <https://support.google.com/store/answer/7182296?hl=en>

52. Google’s only authorized walk-in repair center, uBreakiFix, lists at least four facilities in this District



Source: <https://www.ubreakifix.com/google>



Source: <https://www.ubreakifix.com/google>

53. Google and uBreakiFix teamed up to offer free repairs to those impacted by Hurricane Florence.<sup>14</sup>

54. uBreakiFix has fixed geographical location. They are “regular” and “established” because they operate in a “steady, uniform, orderly, and methodical manner” and are sufficiently permanent. These stores are “of the defendant” because Google has contractual rights with uBreakiFix -- the only authorized walk-in repair centers in the United States. Google also ratifies these facilities through its advertising of them through its website.

55. Google’s also has a branded mail-in repair service that is contracted with a company called KMT Wireless, LLC dba Cynergy. Cynergy receives phones at its facility in Grapevine, TX.

<sup>14</sup> See <https://www.ubreakifix.com/blog/hurricane-florence>

United States	uBreakiFix <a href="#">☑</a>	Pixel, Pixel XL, Pixel 2, Pixel 2 XL	Walk-in	<ul style="list-style-type: none"> <li>• uBreakiFix <a href="#">☑</a></li> <li>• Phone: 1-877-320-2237</li> </ul>
	Puls <a href="#">☑</a>	Pixel, Pixel XL, Pixel 2, Pixel 2 XL	At home (Dial-in)	<ul style="list-style-type: none"> <li>• Puls <a href="#">☑</a></li> <li>• Phone: (855) 256-3709</li> </ul>
	Google <a href="#">☑</a>	Pixel, Pixel XL, Pixel 2, Pixel 2 XL	Mail-in	<ul style="list-style-type: none"> <li>• Google <a href="#">☑</a></li> <li>• Repair program currently expanding, option might not be available</li> </ul>

In US and Canada, replacement of parts or product service is made available for a minimum of three years after end of production for all phones through Google or its service providers.

Source: <https://support.google.com/store/answer/7182296?hl=en>

56. Google has operated and is currently operating its Google Maps Street View business and services in this District. For example, the image below shows the Google Maps Street View of the Eastern District of Texas courthouse in Marshall.



Source: <https://www.google.com/maps/@32.5447534,-94.3670371,3a,75y,170.99h,76.06t/data=!3m6!1e1!3m4!1smECZXIUFylR2yu5E-6wj2g!2e0!7i13312!8i6656>

Furthermore, in the lower right-hand corner of the Google Street View above, the image is credited to Google and states that it was captured in June 2016.



57. Google also operates a Street View car in and around this District in order to provide the Google Maps Street View service.<sup>15</sup>

58. In addition to the above Google Street View image, Google operates and continues to operate a fleet of Google Street View vehicles in this District, including in the counties of Houston, Trinity, Polk, Angelina, Anderson, VanZandt, Denton, and Collin, as shown below.

**WHERE WE'VE BEEN & WHERE WE'RE HEADED NEXT**

The blue areas on the map show where Google has collected Street View. Zoom in for greater detail, or browse this content with our websites and apps. The list shows where we're driving (or Trekking) next. Select a country to browse.

Because of factors outside our control (weather, road closures, etc), it is always possible that our cars may not be operating, or that slight changes may occur. Please also be aware that where the list specifies a particular city, this may include smaller cities and towns that are within driving distance.

Oregon	Clackamas County, Multnomah County, Washington County	June 2018 – October 2018
Pennsylvania	Delaware, Philadelphia, Bucks, Montgomery, Berks, Lancaster, York, Lebanon, Dauphin, Schuylkill, Lehigh, Northampton, Adams, Venango, Clarion, Jefferson, Indiana, Armstrong, Butler, Allegheny, Westmoreland	March 2018 – November 2018
Tennessee	Knox, Jefferson, Grainger, Union, Anderson, Rane, Loudon	March 2018 – October 2018
Texas	Houston, Trinity, Polk, Angelina, Anderson, Leon, Madison, Walker, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, Dallas, Ellis, Johnson, Hood, Tarrant, Rockwall, Rains, VanZandt, Denton, Collin, Hunt	January 2018 – December 2018
Virginia	New Kent, Sussex, Hanover, Caroline, Essex, King and Queen, Gloucester, York, King William	June 2018 –

Source: <https://www.google.com/streetview/understand/>

<sup>15</sup> See <https://www.google.com/streetview/understand/>

59. Google also has operated and currently operates its Google Express business and services in this District. Google Express allows residents of this District to shop – directly from Google’s website – for select products with companies that Google has contracted with.

### About Google Express

## Get your shopping done fast

#### Many top stores, one fast checkout.

Shop [Walmart](#), [Costco](#), [Target](#), and more—all in one place. Enter your info once, whether you’re checking out from one store or five. Need it again? A few quick taps is all it takes to reorder things you buy regularly.

#### A shopping list you’ll never forget.

Start a shopping list on Google Express and add to it or check things off from the website or app, wherever you are. Add items for later, share it with others, and shop from it with just a click. Check out these [step-by-step instructions](#).

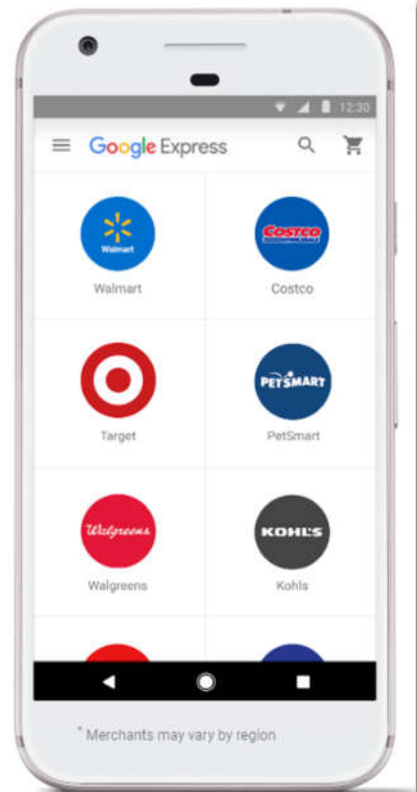
#### Free delivery, no membership.

Order the store minimum for free delivery—\$25 to \$35 in most cases. No memberships here.

#### Shop by voice, and app, and web.

When you think of something you need, you can shop for it on the app, the website, or with your Google Home device just by saying “OK Google, buy olive oil,” and [get help here](#).

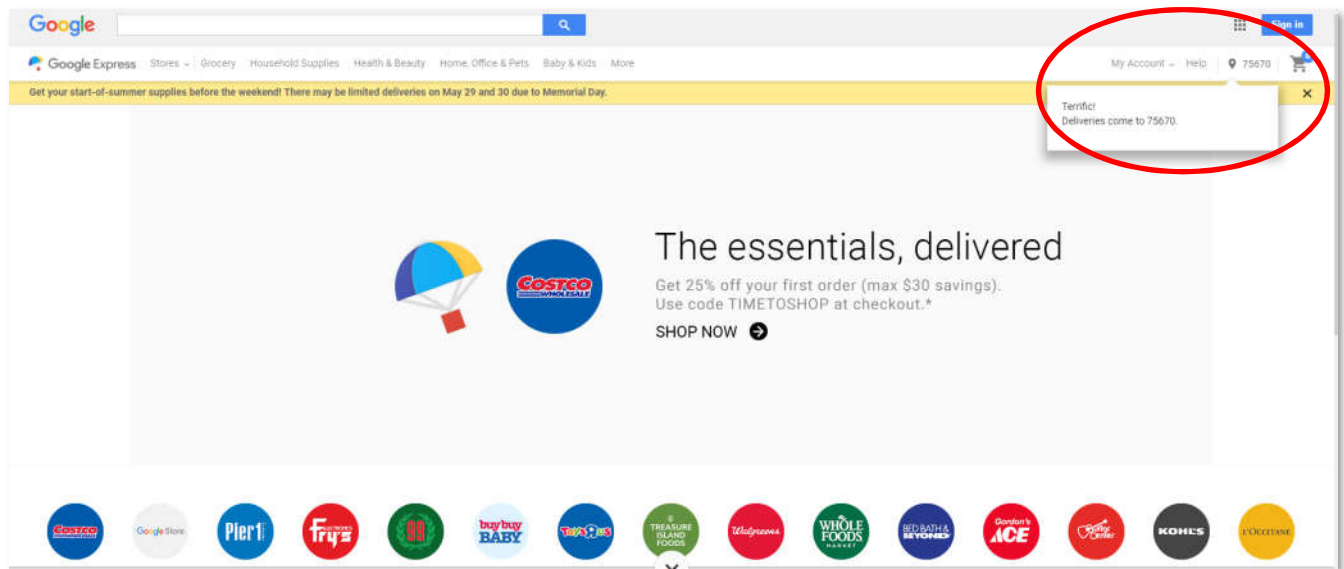
### How it works



Source: <https://express.google.com/u/0/about>

To verify which stores a user may shop, a resident enters his or her zip code and begins shopping at the Google contracted stores. The image below shows the Google Express website showing

that its business and services are available in this District.



Source: <https://www.google.com/express/>

60. Google provides its Google Express business and services to the residents of this District by advertising and inviting the residents of this District, then Defendant arranges for a delivery company to bring the goods and products purchased through the Google Express website to the residents of this District.<sup>16</sup> This service uses fixed geographical stores in this District. They are “regular” and “established” because they operate in a “steady, uniform, orderly, and methodical manner” and are sufficiently permanent. They are “of the defendant” because Google ratifies the stores (and select products of the stores) through its website. Only information provided by Google through its service can be purchased although the store may have other items for sale.

61. Google previously leased office space in this District for about 50 people through its Frisco, TX office.

62. Google also provides services to business and schools in this District including email services, word processing software, electronic file storage services, and video conferencing

<sup>16</sup> See <https://support.google.com/express/answer/4561693?hl=en>

services. Google brands such services as “G Suite” services. Non-limiting examples of such business and schools include the Frisco Independent School District, as shown below.<sup>17</sup>

**How do I login?**

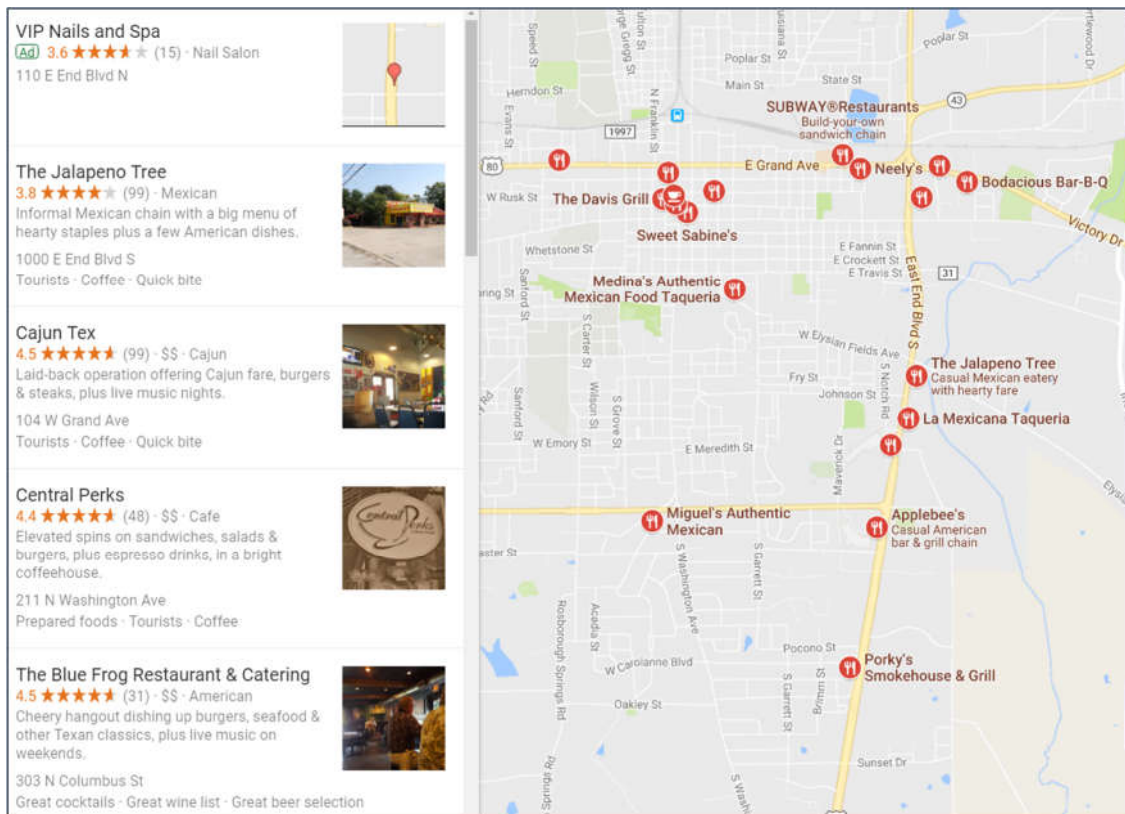
Each student in Fisd has a Google login. The username is their Frisco ISD email address, which is [firstname.lastname.###@k12.friscoisd.org](mailto:firstname.lastname.###@k12.friscoisd.org)

where the ### is the last three digits of their student id#. This address uses the full legal first name and full legal last name of the student, and does not recognize nicknames. All teachers have access to student gmail addresses and can help if you aren't sure what the username is.

The password will most likely be the student birth date in 8 digits MMDDYYYY.

Source: <http://schools.friscoisd.org/ms/vandeventer/site/resources/accessing-google-applications>

63. Google also provides advertising services to businesses in this District, including soliciting reviews of patrons that have visited a business in the Eastern District of Texas, as shown below.

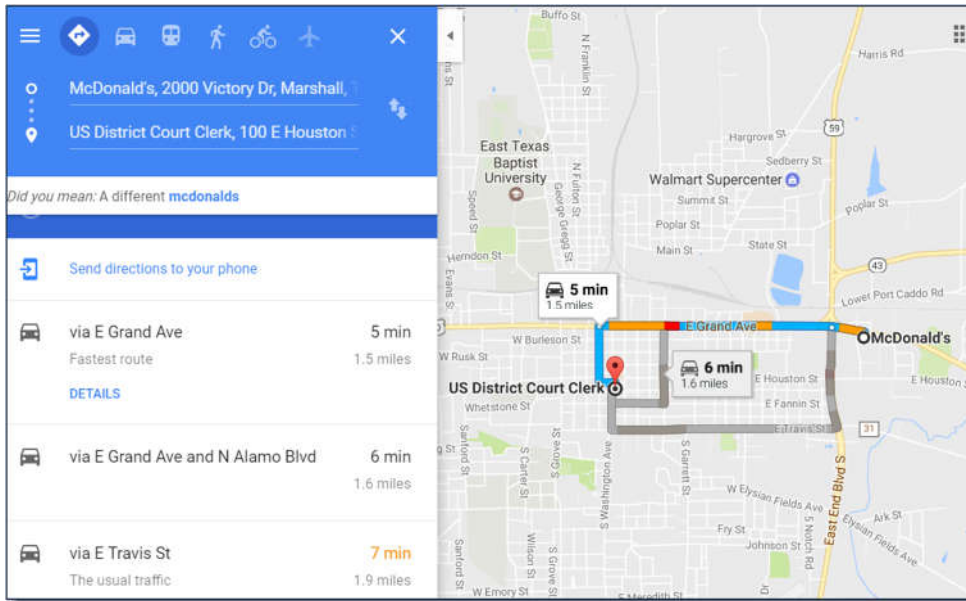


<sup>17</sup> See <http://schools.friscoisd.org/ms/vandeventer/site/resources/accessing-google-applications>



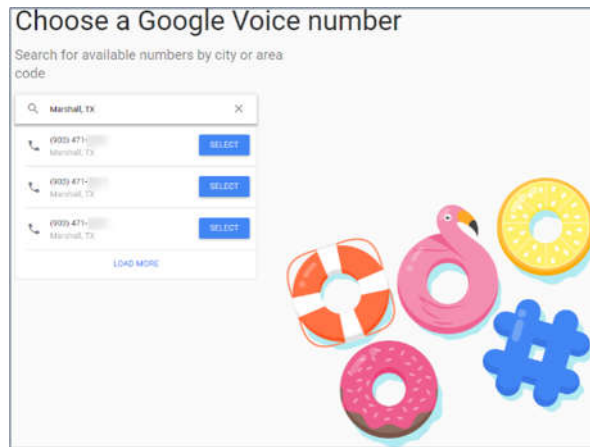
Source: product testing through [www.maps.google.com](http://www.maps.google.com)

64. Google also monitors traffic conditions in this District. For example, traffic conditions between a McDonalds and the Federal Courthouse in Marshall, as shown below.



Source: Product testing at [www.maps.google.com](http://www.maps.google.com)

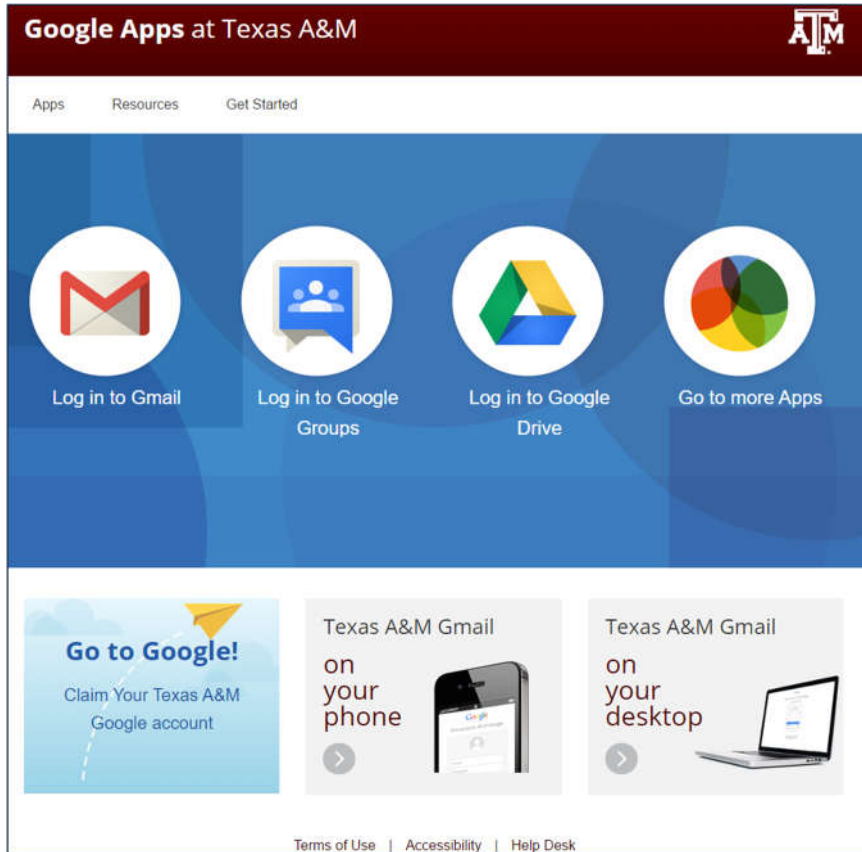
65. Separate and apart from its Google Fi mobile service, Google also provides telephone services to residents in this District through a product it calls Google Voice.<sup>18</sup> A user of Google voice can select local numbers, for example, in Marshall, TX.



<sup>18</sup> See <http://www.wikihow.com/Get-a-Google-Voice-Phone-Number>

Source: Product testing at <https://voice.google.com/signup>

66. Google provides Software-as-a-Service applications, including email and server space, to Texas public universities. Non-limiting examples of such universities are Texas A&M University (which has facilities in this District) and Texas A&M Commerce (located in this District), as shown below.



Source: <http://google.tamu.edu/>

```
Welcome Lions to your new LeoMail 2.0 found in your myLEO homepage located
at myLEO.tamu-commerce.edu.
We hope you take some time to look through your new student email. As a
reminder the new email is a gmail platform and share many features that a
regular gmail account has.

In addition to email, you will have the ability to build your own contacts
list and use the built in calendar for planning and organizing.
The most asked question has revolved around the ability to sync this email
account with your mobile or smart phone device. The answer is 3yes2. The
Portal Implementation Team is working on getting both the email and your NEW
myLEO account connected in an application that will be available in June.
```

Source: <http://mailman.tamuc.edu/pipermail/students/2012-May/004325.html>

Other Google Presence in the State

67. Google also has pervasive connection to the state of Texas through multiple commercial activities.

68. Google has purchased land in Midlothian, TX where it plans to build a half-a-billion-dollar data center.<sup>19</sup>

69. Since 2007, Google has employed “hundreds” of employees in Texas, including in Austin, Texas.<sup>20</sup>

70. Google has at least one current office located in Austin, on North MoPac Expressway,<sup>21</sup> and additional office locations at University Park and Austin’s Children Museum.<sup>22</sup>

71. Google has leased over 200,000 square feet of office space in Austin, Texas, at 500 West 2nd Street.<sup>23</sup>

72. Google has, as of September 2018, job postings for Addison, TX; Dallas, TX; Midlothian, TX; and Austin, TX (38 postings) including positions such as:<sup>24</sup>

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<sup>19</sup> See <https://www.datacenterknowledge.com/google-alphabet/google-buys-property-build-data-center-near-dallas>

<sup>20</sup> According to Gerardo Interiano, Google's public affairs and government relations manager, in a statement. See <http://www.statesman.com/business/google-lease-200-000-square-feet-new-downtown-austin-tower/SANZSa3du8QQ4k8ytOC2rJ/>

<sup>21</sup> See <https://www.google.com/intl/en/about/locations/?region=north-america>

<sup>22</sup> See <http://www.statesman.com/business/google-lease-200-000-square-feet-new-downtown-austin-tower/SANZSa3du8QQ4k8ytOC2rJ/>

<sup>23</sup> See <http://www.statesman.com/business/google-lease-200-000-square-feet-new-downtown-austin-tower/SANZSa3du8QQ4k8ytOC2rJ/>

<sup>24</sup> See <https://careers.google.com/jobs#t=sq&q=j&li=20&l=false&jl=32.7766642%3A-96.79698789999998%3ADallas%2C+TX%2C+USA%3AUS%3A%3A25.77719109274963%3ALOCALITY&jld=20&&jcoid=7c8c6665-81cf-4e11-8fc9-ec1d6a69120c&jcoid=e43afd0d-d215-45db-a154-5386c9036525&> and <https://careers.google.com/jobs#t=sq&q=j&li=20&l=false&jlo=en-US&jcoid=7c8c6665-81cf-4e11-8fc9-ec1d6a69120c&jcoid=e43afd0d-d215-45db-a154-5386c9036525&jl=30.267153%3A->



Oldham County, Texas.<sup>26</sup>

76. Google has massively scanned books from Texas public universities.



Source: <https://www.lib.utexas.edu/google/faqs.html>

77. Google provides the State of Texas with aerial imagery.<sup>27</sup>

78. Google acquired Waze in 2013,<sup>28</sup> and Google's Waze traffic app partners with cities and business in Texas, non-limiting examples include the Waze partnership with the city of Fort Worth to provide constant traffic data to the city.<sup>29</sup> Another non-limiting example includes the Waze partnership with the Genesis Group in Tyler, to decrease emergency response times.<sup>30</sup>

### **COUNT I**

(INFRINGEMENT OF U.S. PATENT NO. 8,407,609)

79. Uniloc incorporates the preceding paragraphs above by reference.

80. U.S. Patent No. 8,407,609 ("the '609 Patent"), entitled SYSTEM AND METHOD FOR PROVIDING AND TRACKING THE PROVISION OF AUDIO AND VISUAL PRESENTATIONS VIA A COMPUTER NETWORK issued on March 26, 2013. The '609 lists Tod C. Turner as the inventor. A true and correct copy of the '609 Patent is attached as Exhibit A

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<sup>26</sup> See <https://www.chooseenergy.com/blog/energy-news/google-invests-200m-in-west-texas-wind-farm/>

<sup>27</sup> See <http://www.bisconsultants.com/affordable-imagery-for-texas-government-entities-from-google/>

<sup>28</sup> See <https://techcrunch.com/2013/06/11/its-official-google-buys-waze-giving-a-social-data-boost-to-its-location-and-mapping-business/>

<sup>29</sup> See <http://dfw.cbslocal.com/2016/12/14/forth-worth-partners-with-waze-traffic-app/>

<sup>30</sup> See <https://genesispulse.com/2015/10/06/the-genesis-group-joins-waze-connected-citizens-program/>

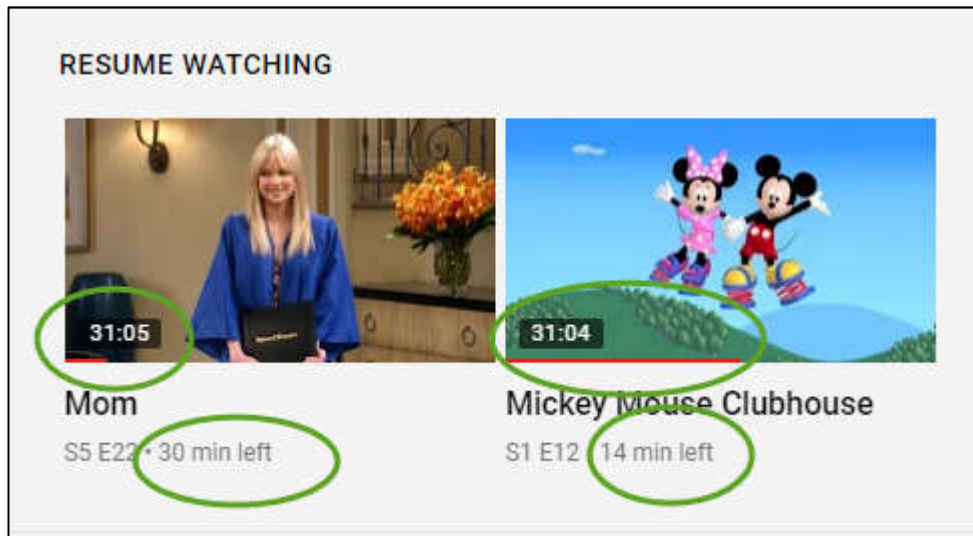
hereto.

81. Pursuant to 35 U.S.C. § 282, the '609 Patent is presumed valid. More than 50 references were considered in '609 Patent's examination, including references from Cisco, Adobe, Google, Microsoft, IBM and HP. Additionally, more than 25 references have cited the '609 Patent, including references from Alcatel, Ericsson, Microsoft, IBM, Google, AOL, Salesforce.com, Facebook, and Ebay.

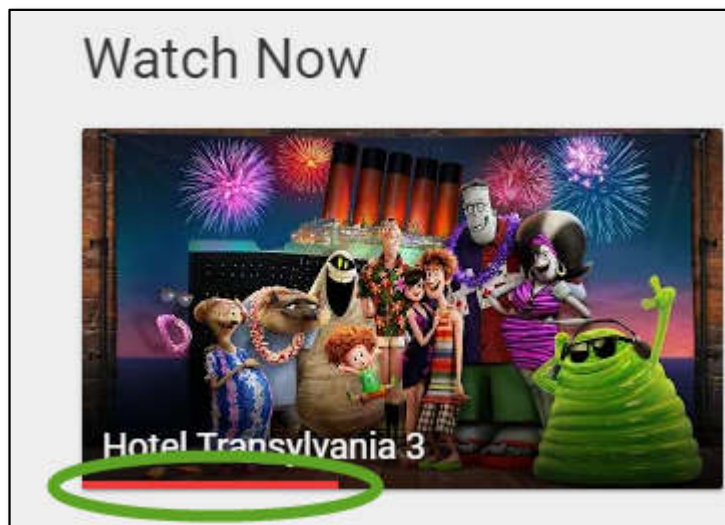
82. The '609 Patent describes inventive features that are not well-understood, routine, and conventional.

83. Google makes, uses, offers for sale, sells and/or imports into the United States mobile phones under the trade name "Play," "YouTube," and "YouTube TV." These respective systems perform a method for tracking digital media presentations delivered from a first computer system to a user's computer via a network, such as <https://play.google.com/movies>, <https://youtube.com>, and <https://tv.youtube.com>. Collectively, such systems are referred to as the "Accused Infringing Devices."

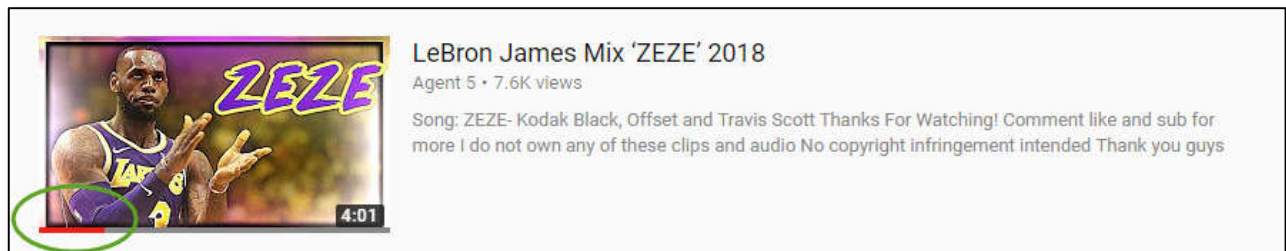
84. The Accused Infringing Devices track digital media presentations delivered from a first computer system to a user's computer via a network. In particular, among other things, the Accused Infringing Devices identify the movie or TV show that a user is currently watching and tracks the user's viewing progress.



Source: <https://tv.youtube.com/>



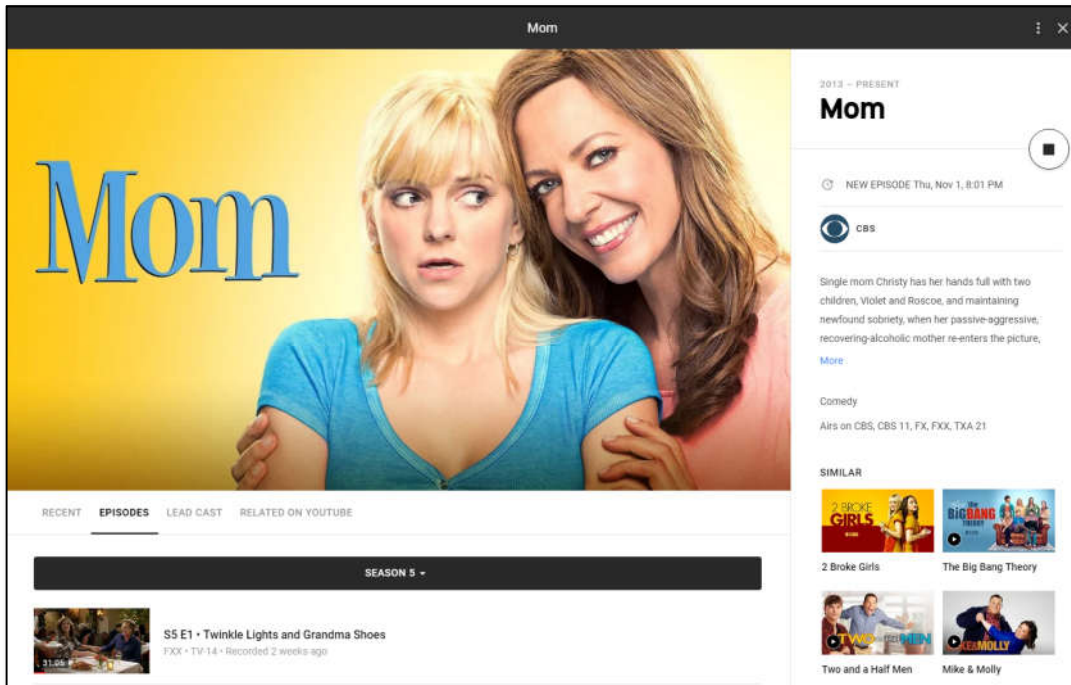
Source: <https://tv.youtube.com/>



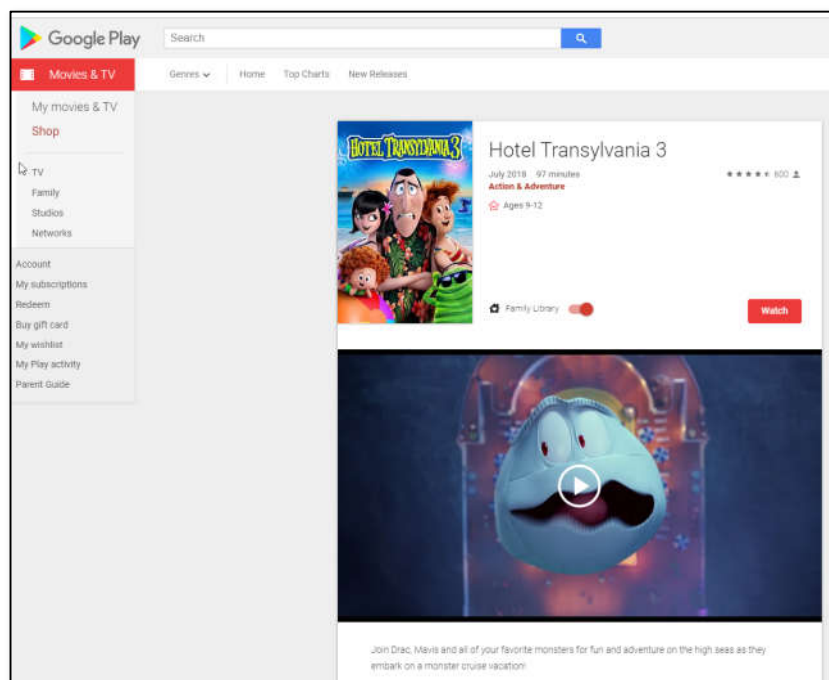
Source: <https://www.youtube.com/feed/history>

85. The Accused Infringing Devices provide a corresponding web page to the user's  
Page 31 of 42

computer for each digital media presentation to be delivered using the first computer system. In particular, the webpages located at respective indicated URSL are used to deliver the indicated media.

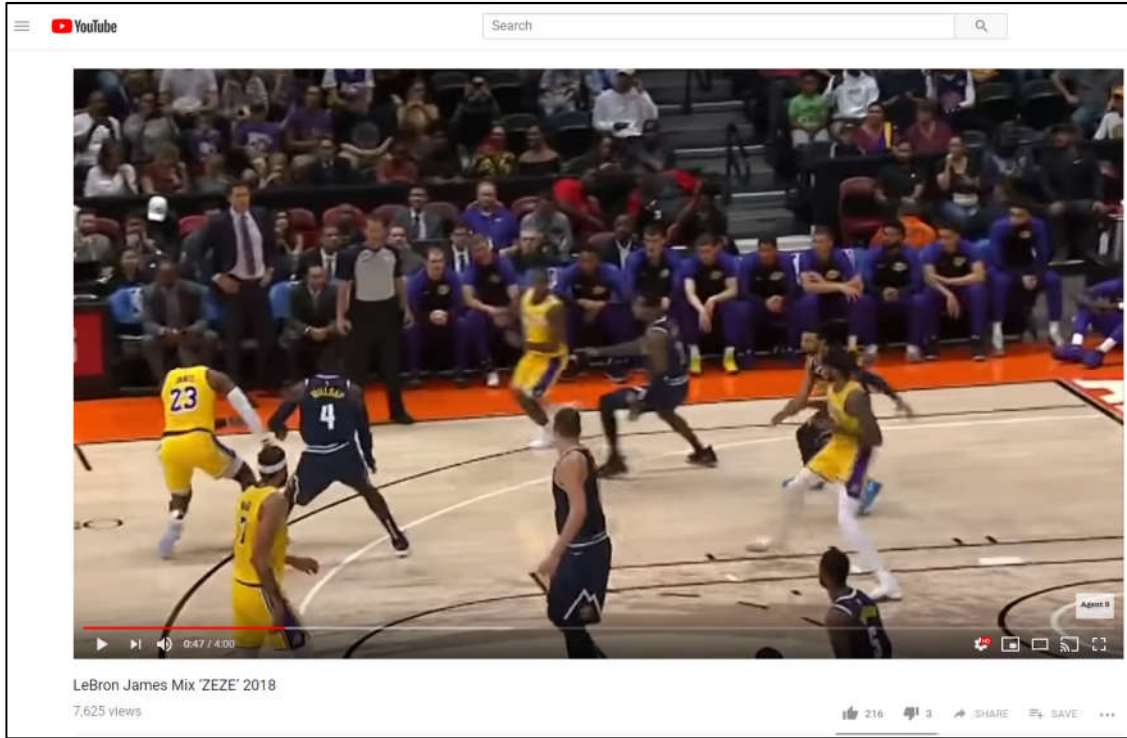


Source: <https://tv.youtube.com/browse/UCuHEZwNwSL9eVHZaczHUB0w?btab=episodes>





Source: [https://play.google.com/store/movies/details/Hotel\\_Transylvania\\_3?id=YOweggjOb3A](https://play.google.com/store/movies/details/Hotel_Transylvania_3?id=YOweggjOb3A)



Source: <https://www.youtube.com/watch?v=ybOI0X2wHrk>


86. The Accused Infringing Devices provide identifier data to the user's computer using the first computer system. The Accused Infringing Devices allow users to create an account, which in turn, allows the Accused Infringing Devices to track the user's viewing history across devices.

# Create an account on YouTube

To sign in to YouTube, you'll need to create a [Google Account](#). With a Google Account, you can access many YouTube features, including Like, Subscribe, Watch Later, and Watch History.

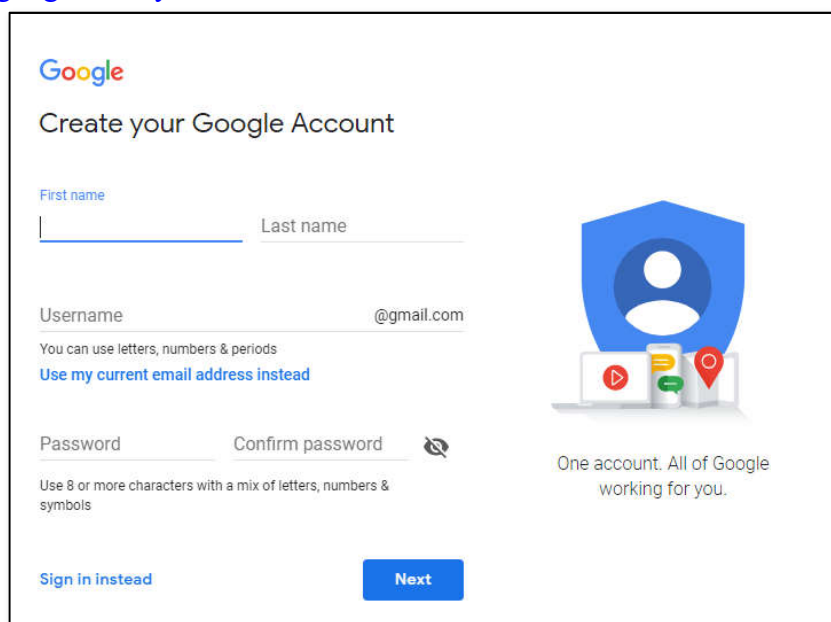
[Computer](#)   [Android](#)   [iPhone & iPad](#)

1. Go to [youtube.com](https://youtube.com) [↗](#).
2. In the top right, click **Sign in**.
3. Click **More options > Create Account**.

 Once you've signed in to YouTube with your Google Account, you can [create a YouTube channel](#) on your account. With a YouTube channel, you can upload videos, leave comments, and create playlists.

**Source:**

<https://support.google.com/youtube/answer/161805?co=GENIE.Platform%3DDesktop&hl=en>



The screenshot shows the Google Account creation interface. At the top is the Google logo and the heading "Create your Google Account". Below this are input fields for "First name" and "Last name". A "Username" field is followed by "@gmail.com". A note states "You can use letters, numbers & periods" with a link "Use my current email address instead". There are "Password" and "Confirm password" fields with a visibility icon. A note says "Use 8 or more characters with a mix of letters, numbers & symbols". On the right, there is a blue shield icon with a person silhouette and a graphic of a laptop with icons for YouTube, Gmail, and Maps. Below this graphic is the text "One account. All of Google working for you.". At the bottom left is a "Sign in instead" link, and at the bottom right is a blue "Next" button.

**Source:**

<https://accounts.google.com/signin/v2/identifier?flowName=GlifWebSignIn&flowEntry=ServiceLogin>

87. The Accused Infringing Devices provide an applet to the user's computer for each digital media presentation to be delivered using the first computer system. In particular, the Accused

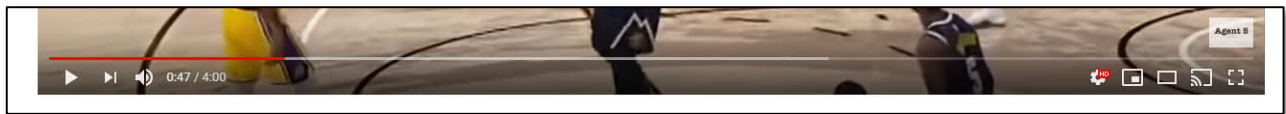
Infringing Devices provide a script that keeps track of how much of the presentation the user has watched, thus reflecting the operation of a timer running in the background.



Source: <https://tv.youtube.com/watch/8u7CtVwmuKc?vpp=2AEW>



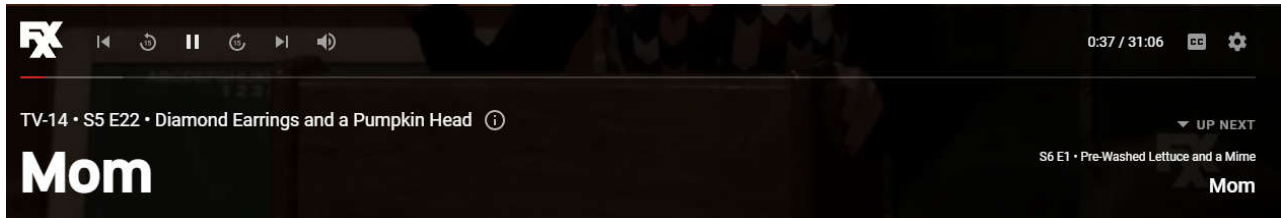
Source: [https://play.google.com/store/movies/details/Hotel\\_Transylvania\\_3?id=YOWeggjOb3A](https://play.google.com/store/movies/details/Hotel_Transylvania_3?id=YOWeggjOb3A)



Source: <https://www.youtube.com/watch?v=ybOI0X2wHrk>

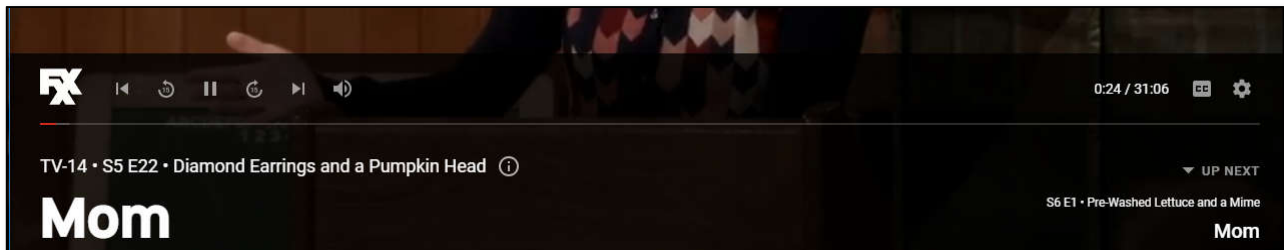
88. The Accused Infringing Devices receive at least a portion of the identifier data from the user's computer responsively to the timer applet each time a predetermined temporal period elapses using the first computer system. The Accused Infringing Devices maintain a viewing history for each user. The viewing history is updated continuously, even the absence of user input such as pressing a pause button or exit button. For example, if the user closes and reopens the webpage to view a particular TV episode, the episode will resume almost exactly at the point where the user closed the webpage. This indicates that the user's computer sends periodic updates at regular intervals to inform the Accused Infringing Devices of the user's current position, thus reflecting the user of a timer.

89. The below is a screenshot a few seconds before closing the browser tab showing the current position as 00:37:



Source: <https://tv.youtube.com/watch/8u7CtVwmuKc?vpp=2AEW>

90. The below is a screenshot a few seconds after the webpage was reloaded showing the current position as 00:24 (where the video playback did not start at the beginning):



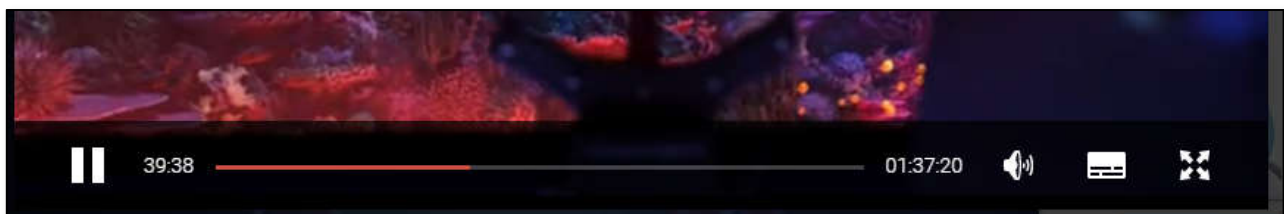
Source: <https://tv.youtube.com/watch/8u7CtVwmuKc?vpp=2AEW>

91. The below is a screenshot a few seconds before closing the browser tab showing the current position as 39:48:



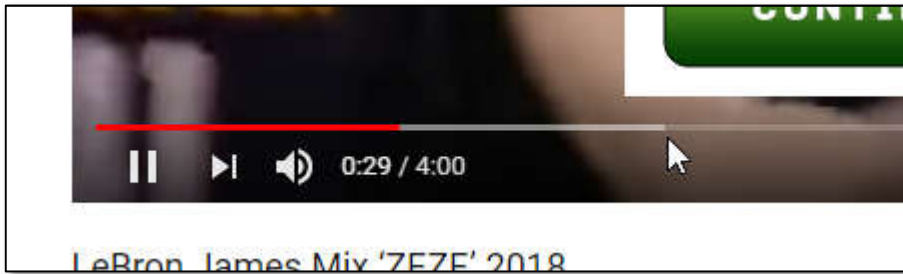
Source: [https://play.google.com/store/movies/details/Hotel\\_Transylvania\\_3?id=YOweggiOb3A](https://play.google.com/store/movies/details/Hotel_Transylvania_3?id=YOweggiOb3A)

92. The below is a screenshot a few seconds after the webpage was reloaded showing the current position as 39:38 (where the video playback did not start at the beginning):



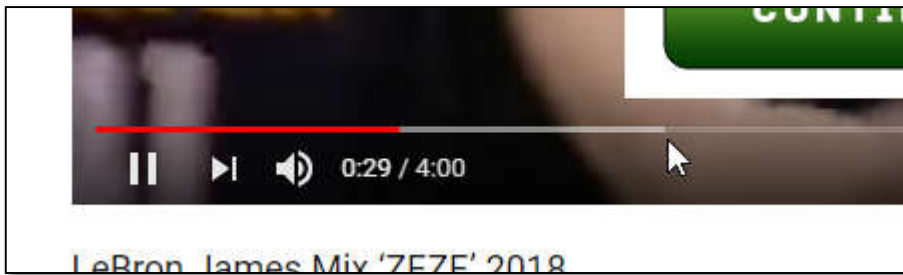
Source: [https://play.google.com/store/movies/details/Hotel\\_Transylvania\\_3?id=YOweggiOb3A](https://play.google.com/store/movies/details/Hotel_Transylvania_3?id=YOweggiOb3A)

93. The below is a screenshot a few seconds before closing the browser tab showing the current position as 00:48:



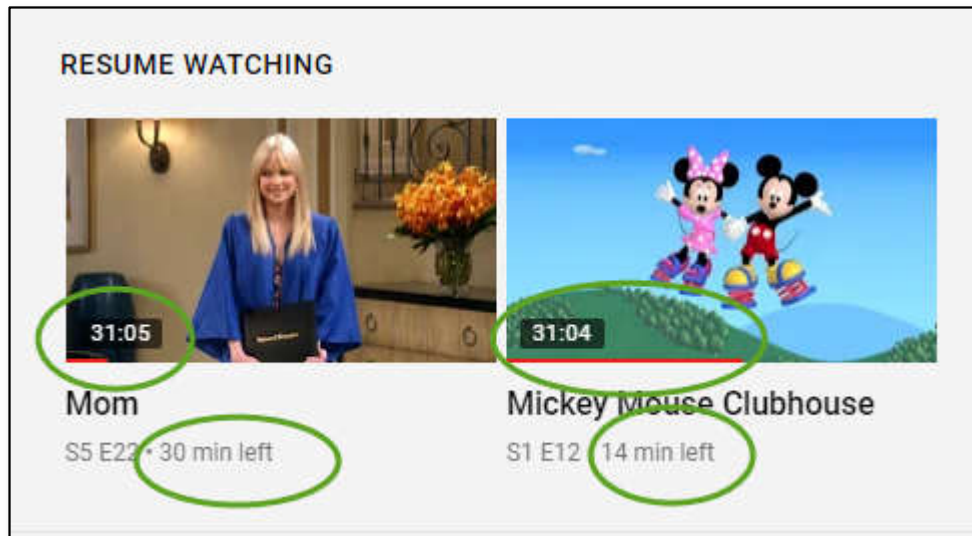
Source: <https://www.youtube.com/watch?v=ybOI0X2wHrk>

94. The below is a screenshot a few seconds after the webpage was reloaded showing the current position as 00:29 (where the video playback did not start at the beginning):

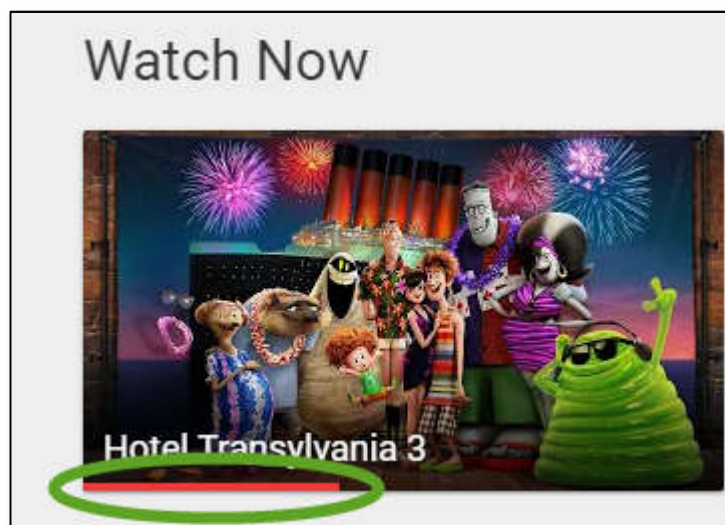


Source: <https://www.youtube.com/watch?v=ybOI0X2wHrk>

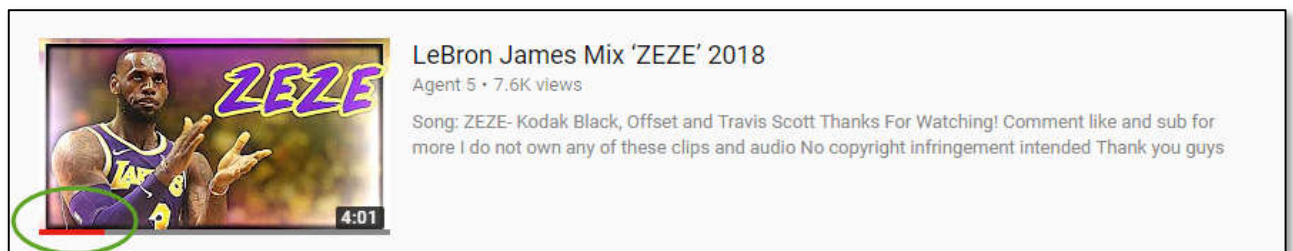
95. The Accused Infringing Devices store data indicative of the received at least portion of the identifier data using the first computer system. The user's viewing history, updated every time a heartbeat is sent, is stored by the Accused Infringing Devices. In particular, the Continue page includes a progress bar that is updated as the user watches more.



Source: <https://tv.youtube.com/>



Source: <https://tv.youtube.com/>



Source: <https://www.youtube.com/feed/history>

96. Each provided webpage causes corresponding digital media presentation data to be

streamed from a second computer system (e.g., the content delivery network, e.g., googlevideo.com), distinct from the user’s computer independent of the first computer system.

200	GET	M1.jpg?sqp=ovOX_wMGCIXC094F&sig=rsSAOm4CLD2Y_I5vCaN...	r9.ytimg.com	172.217.1.142:443	img	jpeg	21.04 KB	20.61 KB	8.18 s	sffe
200	GET	videoplayback?sparems=aitags,clen,dur,ei,gir,id,initcwndbps,ip...	r6---sn-q4fl6nez.googlevideo.com	173.194.24.204:443	xhr	webm	671.67 KB	670.78 KB	8.32 s	gvs 1.0
204	POST	qoe?event=streamingstats&fmt=243&afmt=251&cpn=b_kBkyhV...	www.youtube.com	172.217.1.142:443	beacon	html	417 B	0 B	10.75 s	Video Stats Server
204	POST	atr?ns=yt&el=detailpage&cpn=b_kBkyhVQCmEdhO8&docid=yb...	www.youtube.com	172.217.1.142:443	xhr	html	3.84 KB	0 B	12.50 s	Video Stats Server
204	GET	watchtime?ns=yt&el=detailpage&cpn=b_kBkyhVQCmEdhO8&doc...	www.youtube.com	172.217.1.142:443	img	html	417 B	0 B	12.81 s	Video Stats Server
200	GET	videoplayback?sparems=clen,dur,ei,gir,id,initcwndbps,ip,ipb...	r6---sn-q4fl6nez.googlevideo.com	173.194.24.204:443	xhr	webm	400.20 KB	399.34 KB	14.36 s	gvs 1.0
200	GET	videoplayback?sparems=aitags,clen,dur,ei,gir,id,initcwndbps,ip...	r6---sn-q4fl6nez.googlevideo.com	173.194.24.204:443	xhr	webm	973.34 KB	972.45 KB	15.40 s	gvs 1.0
200	POST	log_event?alt=json&key=AlzaSyAO_FJ2SlqU8Q45TEHLGClw_Y9_1...	www.youtube.com	172.217.1.142:443	xhr	json	431 B	28 B	17.77 s	ESF
204	GET	watchtime?ns=yt&el=detailpage&cpn=b_kBkyhVQCmEdhO8&doc...	www.youtube.com	172.217.1.142:443	img	html	417 B	0 B	22.75 s	Video Stats Server
200	GET	videoplayback?sparems=aitags,clen,dur,ei,gir,id,initcwndbps,ip...	r6---sn-q4fl6nez.googlevideo.com	173.194.24.204:443	xhr	webm	1.46 MB	1.46 MB	25.72 s	gvs 1.0
200	GET	videoplayback?sparems=clen,dur,ei,gir,id,initcwndbps,ip,ipb...	r6---sn-q4fl6nez.googlevideo.com	173.194.24.204:443	xhr	webm	492.34 KB	491.48 KB	25.85 s	gvs 1.0

Source: Firefox Developer Tool Network view of <https://www.youtube.com/watch?v=ybOI0X2wHrk>

200	GET	videoplayback?sparems=clen,cmbypass,ctier,dur,ei,gcr,gir,high...	r2---sn-q4fl6nez.googlevideo.com	74.125.3.120:443	xhr	mp4	113.68 KB	112.82 KB	12.44 s	gvs 1.0
200	GET	videoplayback?sparems=aitags,clen,cmbypass,ctier,dur,ei,gcr...	r2---sn-q4fl6nez.googlevideo.com	74.125.3.120:443	xhr	mp4	2 MB	2 MB	12.55 s	gvs 1.0
200	GET	videoplayback?sparems=clen,cmbypass,ctier,dur,ei,gcr,gir,high...	r2---sn-q4fl6nez.googlevideo.com	74.125.3.120:443	xhr	mp4	273.58 KB	272.72 KB	13.30 s	gvs 1.0
204	POST	atr?ns=gp&el=embedded&cpn=OjysnyEDh86NW_M&docid=Y...	www.youtube.com	172.217.1.142:443	xhr	html	3.76 KB	0 B	15.06 s	Video Stats Server
200	GET	videoplayback?sparems=aitags,clen,cmbypass,ctier,dur,ei,gcr...	r2---sn-q4fl6nez.googlevideo.com	74.125.3.120:443	xhr	mp4	1.25 MB	1.25 MB	16.62 s	gvs 1.0
204	POST	qoe?event=streamingstats&fmt=223&afmt=149&cpn=OjysnyED...	www.youtube.com	172.217.1.142:443	beacon	html	2.64 KB	0 B	19.26 s	Video Stats Server
204	GET	watchtime?ns=gp&el=embedded&cpn=OjysnyEDh86NW_M&doc...	www.youtube.com	172.217.1.142:443	img	html	417 B	0 B	19.27 s	Video Stats Server
200	GET	videoplayback?sparems=aitags,clen,cmbypass,ctier,dur,ei,gcr...	r2---sn-q4fl6nez.googlevideo.com	74.125.3.120:443	xhr	mp4	2 MB	2 MB	19.74 s	gvs 1.0
200	POST	log_event?alt=json&key=AlzaSyAO_FJ2SlqU8Q45TEHLGClw_Y9_1...	www.youtube.com	172.217.1.142:443	xhr	json	431 B	28 B	19.79 s	ESF
200	GET	videoplayback?sparems=clen,cmbypass,ctier,dur,ei,gcr,gir,high...	r2---sn-q4fl6nez.googlevideo.com	74.125.3.120:443	xhr	mp4	374.08 KB	373.22 KB	22.30 s	gvs 1.0
200	GET	videoplayback?sparems=aitags,clen,cmbypass,ctier,dur,ei,gcr...	r2---sn-q4fl6nez.googlevideo.com	74.125.3.120:443	xhr	mp4	1.25 MB	1.25 MB	24.57 s	gvs 1.0

Source: Firefox Developer Tool Network view of [https://play.google.com/store/movies/details/Hotel\\_Transylvania\\_3?id=YOWeggjOb3A](https://play.google.com/store/movies/details/Hotel_Transylvania_3?id=YOWeggjOb3A)

200	POST	log_event?alt=json&key=AlzaSyD-L7DlyuMgBk-B4DYmjZSUG-D6...	tv.youtube.com	216.58.218.142:443	xhr	json	431 B	28 B	18.04 s	ESF
200	GET	videoplayback?ip=23.115.11.29&c=WEB_UNPLUGGED&ei=AFPYW...	r2---sn-q4fl6nez.googlevideo.com	209.85.165.135:443	xhr	mp4	318.13 KB	317.27 KB	18.47 s	gvs 1.0
200	GET	videoplayback?ip=23.115.11.29&c=WEB_UNPLUGGED&ei=AFPYW...	r2---sn-q4fl6nez.googlevideo.com	209.85.165.135:443	xhr	mp4	1.83 MB	1.83 MB	23.01 s	gvs 1.0
204	GET	watchtime?ns=yt&el=detailpage&cpn=Yg6wLkTPKJaycku_8doci...	www.youtube.com	172.217.1.142:443	img	html	417 B	0 B	25.77 s	Video Stats Server
204	POST	qoe?event=streamingstats&fmt=144&afmt=149&cpn=Yg6wLkTP...	www.youtube.com	172.217.1.142:443	beacon	html	417 B	0 B	26.77 s	Video Stats Server
200	GET	videoplayback?ip=23.115.11.29&c=WEB_UNPLUGGED&ei=AFPYW...	r2---sn-q4fl6nez.googlevideo.com	209.85.165.135:443	xhr	mp4	477.84 KB	476.98 KB	28.03 s	gvs 1.0
204	GET	watchtime?ns=yt&el=detailpage&cpn=Yg6wLkTPKJaycku_8doci...	www.youtube.com	172.217.1.142:443	img	html	417 B	0 B	35.76 s	Video Stats Server
204	POST	qoe?event=streamingstats&fmt=144&afmt=149&cpn=Yg6wLkTP...	www.youtube.com	172.217.1.142:443	beacon	html	417 B	0 B	36.82 s	Video Stats Server
200	GET	videoplayback?ip=23.115.11.29&c=WEB_UNPLUGGED&ei=AFPYW...	r2---sn-q4fl6nez.googlevideo.com	209.85.165.135:443	xhr	mp4	1.93 MB	1.93 MB	43.43 s	gvs 1.0
200	GET	videoplayback?ip=23.115.11.29&c=WEB_UNPLUGGED&ei=AFPYW...	r2---sn-q4fl6nez.googlevideo.com	209.85.165.135:443	xhr	mp4	477.16 KB	476.30 KB	43.62 s	gvs 1.0
200	POST	log_event?alt=json&key=AlzaSyD-L7DlyuMgBk-B4DYmjZSUG-D6...	tv.youtube.com	216.58.218.142:443	xhr	json	431 B	28 B	44.16 s	ESF
204	POST	qoe?event=streamingstats&fmt=144&afmt=149&cpn=Yg6wLkTP...	www.youtube.com	172.217.1.142:443	beacon	html	417 B	0 B	46.79 s	Video Stats Server

Source: Firefox Developer Tool Network view of <https://tv.youtube.com/watch/8u7CtVwmuKc?vpp=2AEW>

97. The stored data is indicative of an amount of time the digital media presentation is streamed from the second computer system to the user’s computer. The stored data indicates the duration and position of the user’s current position, which indicates the amount of time the presentation has been streamed to the user’s computer by the CDN.

98. Each stored data is together indicative of a cumulative time the corresponding web page was displayed by the user's computer. After the user visits the respective websites indicated above, and selects the same show, the player is loaded on the same page. The amount of time the user spends watching the TV show is tracked by Google and reflects the amount of time the webpage was displayed by the user's computer. As a non-limiting example, in the screenshots from the preceding, "POST" requests are made to a Video Stats Server. Google has directly infringed and continues to directly infringe one or more claims of the '609 Patent in the United States during the pendency of the '609 Patent, including at least claim 1 literally and/or under the doctrine of equivalents, by or through making, using, offering for sale and/or selling the Accused Infringing Devices that operate as described above.

99. Google has indirectly infringed and continues to indirectly infringe at least claim 1 of the '609 Patent in this judicial district and elsewhere in the United States by, among other things, actively inducing the using, offering for sale or selling the Accused Infringing Devices. Google's customers who use such devices in accordance with Google's instructions directly infringe one or more of claims of the '609 Patent in violation of 35 U.S.C. § 271. Google directly and/or indirectly intentionally instructs its customers to infringe through training videos, demonstrations, brochures, installation and/or user guides such as those located at one or more of the following:

- <https://youtube.com>
- <https://tv.youtube.com>
- <https://play.google.com>

100. Google has indirectly infringed and continues to indirectly infringe at least claim 1 of the '609 Patent by, among other things, contributing to the direct infringement by others including, without limitation customers using the Accused Infringing Devices, by making, offering to sell, selling and/or importing into the United States, a component of a patented machine, manufacture or combination, or an apparatus for use in practicing a patented process, constituting



a material part of the invention, knowing the same to be especially made or especially adapted for use in infringing the '609 Patent and not a staple article or commodity of commerce suitable for substantial non-infringing use.

101. Google has been on notice of the application leading to the '609 Patent since at least 2013 when it was first cited in a rejection of Google's U.S. Patent No. 9,767,479 and later in a rejection of Google Application No. 13/964,699, which was abandoned.

102. Google will have been on notice of the '609 Patent itself since, at the latest, the service of this complaint upon Google. By the time of trial, Google will have known and intended (since receiving such notice) that its continued actions would actively induce and contribute to the infringement of one or more of claims of the '609 Patent.

103. Google may have infringed the '609 Patent through other devices, systems, and software utilizing the same or reasonably similar functionality as described above. Uniloc reserves the right to discover and pursue all such additional infringing software and devices.

104. Uniloc has been damaged by Google's infringement of the '609 Patent.

#### **PRAYER FOR RELIEF**

Uniloc requests that the Court enter judgment against Google as follows:

- (A) declaring that Google has infringed the '609 Patent;
  - (B) awarding Uniloc its damages suffered as a result of Google's infringement of the '609 Patent pursuant to 35 U.S.C. § 284;
  - (C) awarding Uniloc its costs, attorneys' fees, expenses and interest; and
- granting Uniloc such further relief as the Court may deem just and proper.

#### **DEMAND FOR JURY TRIAL**

Uniloc hereby demands trial by jury on all issues so triable pursuant to Fed. R. Civ. P. 38.

Dated: November 17, 2018

Respectfully submitted,

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