## IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

BECK BRANCH, LLC,	
Plaintiff,	
<b>v.</b>	CIVIL ACTION NO.
RINGCENTRAL, INC.,	JURY TRIAL DEMANDED
Defendant.	

## ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT

1. This is an action for patent infringement in which Beck Branch, LLC makes the following allegations against RingCentral, Inc.

## **PARTIES**

- 2. Plaintiff Beck Branch, LLC ("Plaintiff") is a Texas limited liability company with its principal place of business at 101 E. Park Blvd., Suite 600, Plano, TX 75074.
- 3. On information and belief, RingCentral, Inc. ("Defendant" or "RingCentral") is a corporation organized and existing under the laws of the State of Delaware, with its principal place of business at 20 Davis Dr., Belmont, CA 94002.

#### **JURISDICTION AND VENUE**

- 4. This action arises under the patent laws of the United States, Title 35 of the United States Code. This Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a).
- 5. Venue is proper in this district under 28 U.S.C. §§ 1391(c) and 1400(b). RingCentral is a Delaware corporation, and, thus, resides in Delaware for purposes of venue.
- 6. Defendant is subject to this Court's specific and general personal jurisdiction by virtue of the fact that Defendant is a Delaware corporation.

#### **COUNT I**

## **INFRINGEMENT OF U.S. PATENT NO. 6,873,620**

- 7. Plaintiff is the owner of United States Patent No. 6,873,620 ("the '620 patent") entitled "Communication Server Including Virtual Gateway to Perform Protocol Conversion and Communication System Incorporating the Same." The '620 Patent issued on March 29, 2005. A true and correct copy of the '620 Patent is attached as Exhibit A.
- 8. Defendant owns, uses, operates, advertises, controls, sells, and otherwise provides products and/or services that infringe the '620 patent. The '620 patent provides, among other things, "A communication server acting as a gateway for the transmission of messages between two virtual devices communicating with networks implementing different protocols, said communication server comprising: a knowledge base comprising a registry identifying each physical device registered to deliver messages for transmission between said virtual devices and through said gateway, a logical table identifying each registered connection available between physical devices and protocol conversion information required for each registered connection to convert messages of one protocol to a different protocol and a dynamic database identifying the current status of each actual connection between physical devices; and a virtual gateway accessing said knowledge base for protocol conversion information upon receipt of a message to be transmitted between said virtual devices and converting the protocol of said message to a protocol compatible with the network to which said message is being sent wherein said virtual gateway updates the protocol conversion information and the current status information in said knowledge base based on message traffic therethrough."
- 9. Defendant directly and/or through intermediaries, made, has made, used, imported, provided, supplied, distributed, sold, and/or offered for sale products and/or services that infringed one or more claims of the '620 patent, including at least Claim 23, in this district and elsewhere in the United States. By making, using, importing, offering for sale, and/or selling such products and services, and all like products and services, Defendant has injured Plaintiff and is thus liable for infringement of the '620 patent pursuant to 35 U.S.C. § 271.
- 10. Based on present information and belief, RingCentral makes, uses, sells and/or offers for sale a communication server acting as a gateway for the transmission of messages between two virtual devices communicating with networks implementing different protocols. For example, RingCentral provides RingCentral Phone and/or RingCentral Office application for

unified business communications platform based on cloud IP Public Branch Exchange (PBX) for IP based communication. When a SIP Trunking based call is placed to a Public Switched Telephone Network (PSTN) using RingCentral Phone and/or RingCentral Office application (which when installed on a computer, smartphone or other computing device comprise one or more "virtual devices"), the call is routed via the cloud IP PBX system and PSTN gateway included in the RingCentral for Unified Communication Server ("communication server"). The messages between RingCentral Phone and/or RingCentral Office application and the PSTN are transmitted via the cloud IP PBX and PSTN gateway.

## What is VoIP

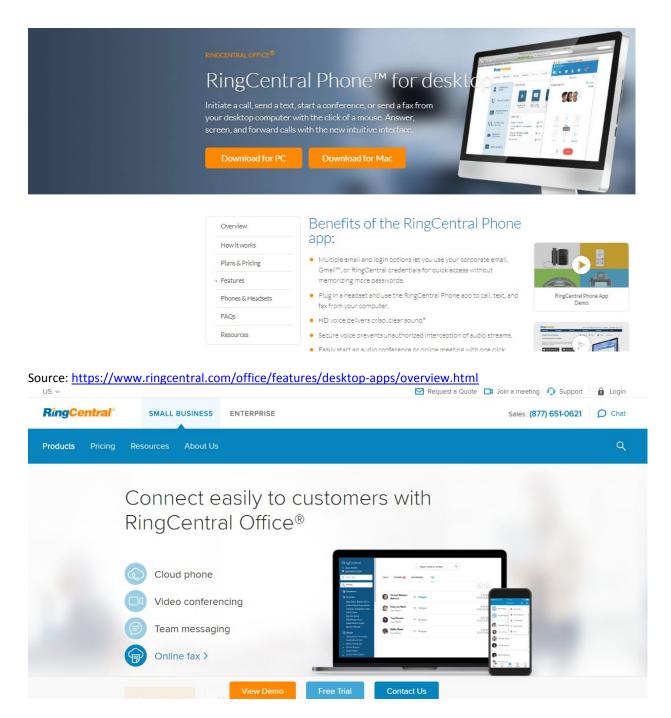
A brief introduction to Voice over Internet Protocol (VoIP).

Voice over Internet Protocol or VoIP refers to the technology that allows us to make and receive phone calls over the Internet in real time. It is a set of protocols working together to deliver internet telephony functions similar to regular phone lines or PSTN. The difference is that it provides flexibility and mobility that is not possible with traditional telephony. By delivering voice calling functions over the Internet, it allows anyone to use VoIP from anywhere via their laptops, desktops, or smart devices.

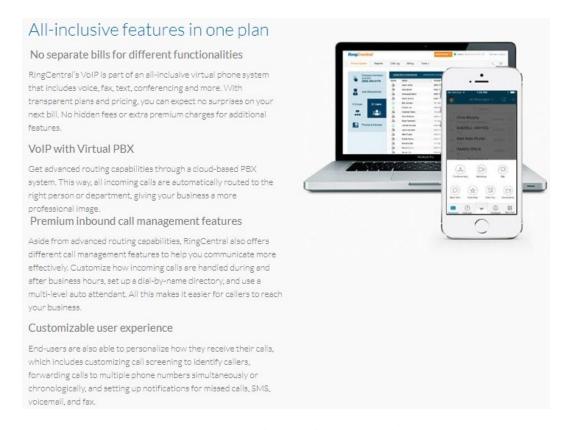
A virtual phone service for business.

RingCentral VoIP is part of a secure and reliable virtual phone service that also leverages cloud PBX technology. Aside from voice calls, you also get online meetings, SMS, team messaging, and advanced call management features that can help your organization communicate better. More than just a replacement for traditional landlines, RingCentral offers a complete cloud communications platform.

Source: <a href="https://www.ringcentral.com/virtual-phone-service.html">https://www.ringcentral.com/virtual-phone-service.html</a>



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Source: https://www.ringcentral.com/office/features/desktop-apps/overview.html

What are the advantages and disadvantages of VoIP and virtual phone services against traditional telephony?



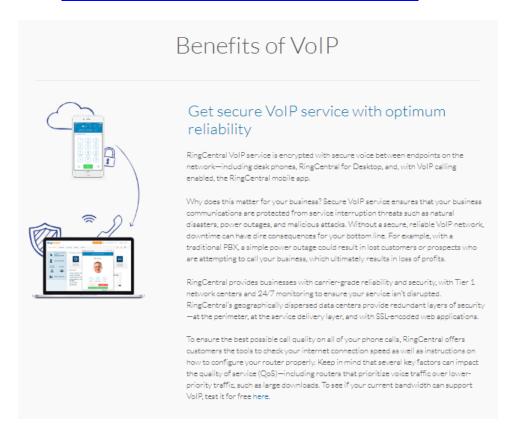
Source: https://www.ringcentral.com/office/features/desktop-apps/overview.html

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## Overview

RingCentral VoIP (voice over internet protocol) is part of a secure, reliable cloud communications platform that eliminates the need for on-premise PBX hardware. With mobile apps, online meetings, and business SMS, it's more than a phone system, it's comprehensive hosted business communications at its best. Manage all of your business communications with your computer or mobile device from any location—there's no additional hardware necessary. Best of all, RingCentral provides simplified billing, free onboarding services, and 24/7 customer support as part of your service plan.

Source: https://www.ringcentral.com/office/features/voip/overview.html



Source: https://www.ringcentral.com/office/features/voip/overview.html



# All-inclusive pricing simplifies billing and eliminates hidden costs.

You can expect all-inclusive pricing and one consolidated bill from RingCentral eliminating complex management and billing associated with multiple vendors.

RingCentral's VoIP hosting service is part of an all-inclusive service, which means you get voice, fax, text, audio conferencing, online meetings—plus mobile and desktop apps in one plan. With transparent plans and pricing, you know exactly what you are paying for—there are no hidden fees or charges beneath the surface. In addition to offering a robust feature set, RingCentral provides unlimited long-distance calling in the US and Canada, and toll-free minutes are included in all RingCentral Office plans.

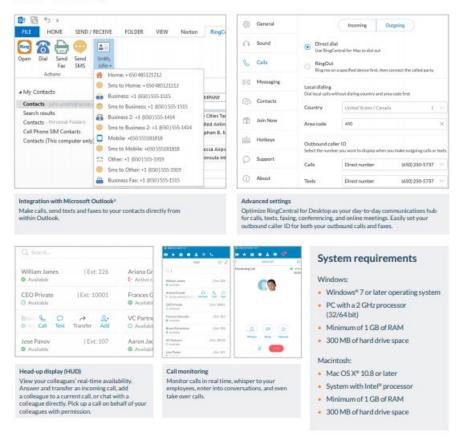
Traditional on-premise PBX systems have hidden costs that are difficult to estimate up front. Besides the obvious price tags on PBX hardware, software licensing, and new telephones, these are a few hidden PBX costs to consider:

- Maintenance contracts
- PBX replacement and upgrade parts
- Cost of connecting multiple locations
- Telecom charges for local, long-distance, international calling,\* or toll-free calls
- Added costs for standalone services, such as online faxing or audio conferencing

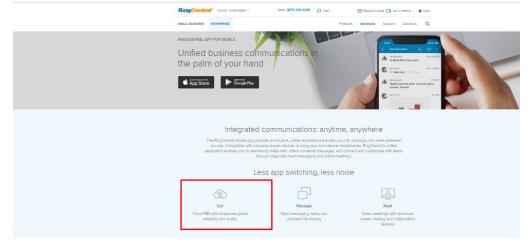
Learn more about calculating the real cost of a business phone system and how cloud VoIP services compare with other types of telephony.

Source: <a href="https://www.ringcentral.com/office/features/voip/overview.html">https://www.ringcentral.com/office/features/voip/overview.html</a>

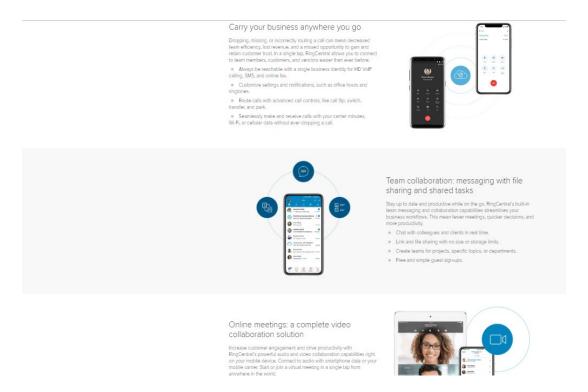
### How it works



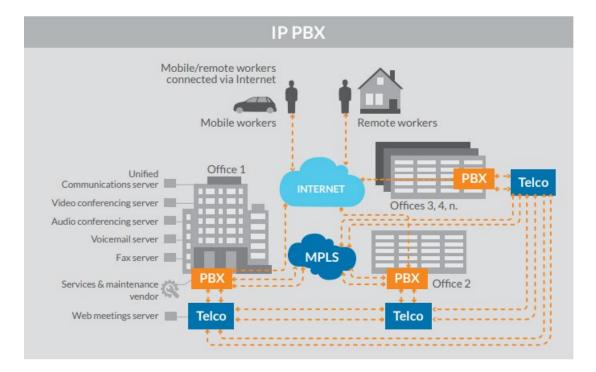
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Source: https://www.ringcentral.com/unified-communications/mobile-app.html



Source: https://netstorage.ringcentral.com/documents/network benefits cloud voip.pdf, page 4

## Anatomy of a cloud telecom system

First, let's look at the fundamental differences between a cloud phone system and an on-premise system—either traditional PBX or IP PBX. Figure 1 depicts how these telephony networks/systems commonly appear in many companies and illustrates who is responsible for the hardware and software in each case, as well as the respective connectivity requirements for businesses with multiple locations and remote workforces.

Note that with an on-premise IP PBX, calls can go out through a traditional telco provider (PSTN) such as a provider you had for years, over the Internet (VoIP) with SIP trunking, or a combination of both. These traditional connections can be regular copper lines or a T1 with PRI circuits. MPLS typically provides connectivity between locations and the respective on-premise IP PBXs.

A cloud phone system moves all of the hardware and software—as well as the responsibility for managing, maintaining, and updating it—into the cloud. This eliminates the complexity of managing the relationships with the telco providers, PBX vendors, service and maintenance providers, as well as the need to have onsite IT staff with specialized telephony knowledge. The cloud model also eliminates the need for costly MPLS or other business exchange lines between locations, while enabling call transferring and remote administration. Finally, it seamlessly integrates not only remote and mobile workers but also critical cloudbased business applications—from Salesforce to Box to NetSuite—into the business phone system.

Activate Win

Source: <a href="https://netstorage.ringcentral.com/documents/network\_benefits\_cloud\_voip.pdf">https://netstorage.ringcentral.com/documents/network\_benefits\_cloud\_voip.pdf</a>, page 3

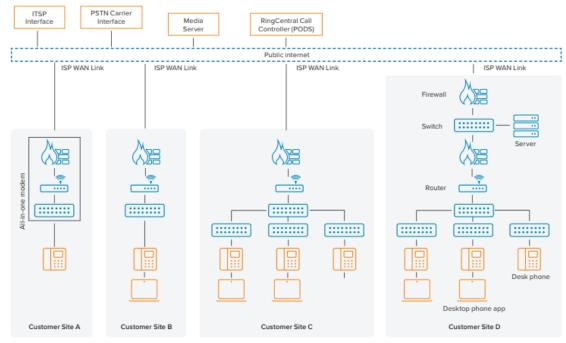


Figure 1. RingCentral Unified Communications Reference Architecture

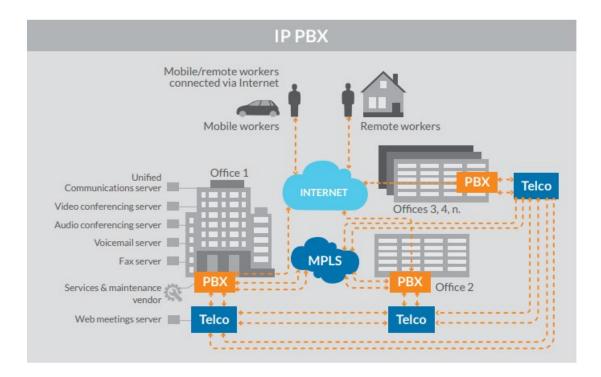
Source: https://netstorage.ringcentral.com/guides/network extended.pdf, page 5

Voice and video calls can be made between phones at a single customer site via the internet, between phones at different customer sites via the internet, involve a Media Server (e.g., for conference calls or to store/retrieve voice mail), or calls may connect to an ITSP or PSTN gateway. The Call Controller registers the phones and handles call orchestration between the various components. To support these types of calls:

- Call control connectivity must exist between the local VoIP LAN at the customer site, the internet, and the RingCentral Call Controller®.
- Media path connectivity must exist between the VoIP LAN at the customer site, the internet, the Media Server, and to the ITSP and PSTN gateway.

Source: <a href="https://netstorage.ringcentral.com/guides/network\_extended.pdf">https://netstorage.ringcentral.com/guides/network\_extended.pdf</a>, page 5

11. Based on present information and belief, RingCentral makes, uses, sells and/or offers for sale a knowledge base comprising a registry identifying each physical device registered to deliver messages for transmission between said virtual devices and through said gateway. Upon information and belief, RingCentral and/or its customers utilize a RingCentral Phone and/or RingCentral Office application for SIP Trunking functionality which comprises a knowledge base registry to identify the registered physical devices. Further, the server uses cloud IP PBX to transmit messages from RingCentral software to the PSTN through PSTN gateway.



Source: https://netstorage.ringcentral.com/documents/network benefits cloud voip.pdf, page 4

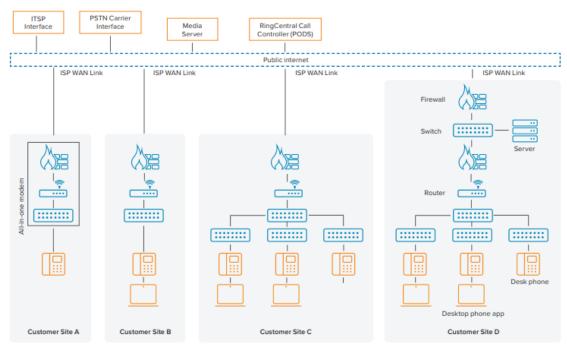


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Voice and video calls can be made between phones at a single customer site via the internet, between phones at different customer sites via the internet, involve a Media Server (e.g., for conference calls or to store/retrieve voice mail), or calls may connect to an ITSP or PSTN gateway. The Call Controller registers the phones and handles call orchestration between the various components. To support these types of calls:

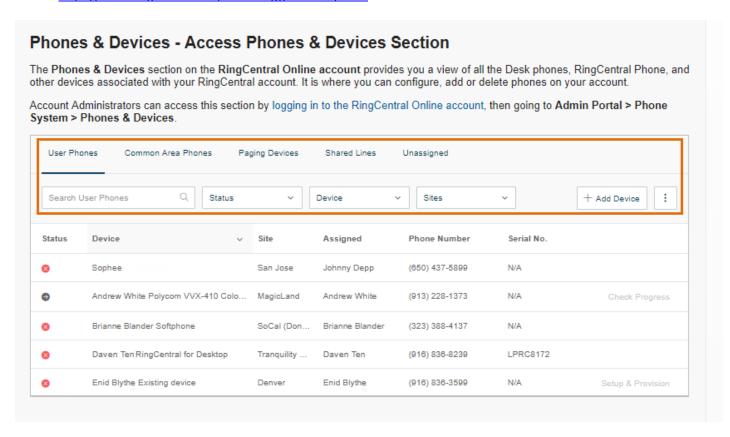
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Source: https://netstorage.ringcentral.com/guides/network\_extended.pdf, page 5





Source: https://www.ringcentral.com/technology/reliability.html



Source: https://success.ringcentral.com/articles/RC Knowledge Article/Phones-Overview

Further, RingCentral Software also maintains a knowledge base comprising a registry identifying the phones and devices within the customers' network.

12. Based on information and belief, RingCentral makes, uses, sells and/or offers for sale a logical table identifying each registered connection available between physical devices and

protocol conversion information required for each registered connection to convert messages of one protocol to a different protocol. Upon information and belief, RingCentral and/or its customers utilize RingCentral Phone and/or RingCentral Office application for SIP Trunking functionality which comprises a logical table to identify the type of connection and selects PSTN gateway to convert messages from Session Initiation Protocol (SIP) to PSTN.

- 13. Based on present information and belief, RingCentral makes, uses, sells and/or offers for sale a dynamic database identifying the current status of each actual connection between physical devices. Upon information and belief, RingCentral and/or its customers utilize RingCentral Phone and/or RingCentral Office application for SIP Trunking functionality which comprises a cloud IP PBX further comprising a dynamic database to identify the current status of connection between the physical devices (including IP phones, installation computers and the physical PSTN terminals).
- 14. Based on present information and belief, RingCentral makes, uses, sells and/or offers for sale a virtual gateway accessing said knowledge base for protocol conversion information upon receipt of a message to be transmitted between said virtual devices. For example, RingCentral and/or its customers utilize RingCentral Phone and/or RingCentral Office application for SIP Trunking functionality comprising VoIP Network ("virtual gateway") which accesses the knowledge based registry for protocol conversion upon receiving the message to be transmitted from RingCentral Phone and/or RingCentral Office application to the PSTN.
- 15. Based on present information and belief, RingCentral makes, uses, sells and/or offers for sale a virtual gateway converting the protocol of said message to a protocol compatible with the network to which said message is being sent. For example, RingCentral and/or its customers utilize RingCentral Phone and/or RingCentral Office application for SIP Trunking functionality comprising a PSTN gateway which converts the protocol of the messages sent from RingCentral Phone and/or RingCentral Office application to the protocol used within the PSTN.
- 16. Based on present information and belief, RingCentral makes, uses, sells and/or offers for sale a virtual gateway wherein said virtual gateway updates the protocol conversion information and the current status information in said knowledge base based on message traffic there through. For example, RingCentral and/or its customers utilize RingCentral Phone and/or RingCentral Office application for SIP Trunking functionality comprising a PSTN gateway which

is used to update the protocol conversion information and current status information stored in the knowledge base registry based on the communicating virtual devices.

- 17. In the alternative, because the manner of use by Defendant differs in no substantial way from language of the claims, if Defendant is not found to literally infringe, Defendant infringes under the doctrine of equivalents.
- 18. Defendant's aforesaid activities have been without authority and/or license from Plaintiff.
- 19. In addition to what is required for pleadings in patent cases, and to the extent any marking was required by 35 U.S.C. § 287, Plaintiff and all predecessors in interest to the '620 Patent complied with all marking requirements under 35 U.S.C. § 287.
- 20. Plaintiff is entitled to recover from Defendant the damages sustained by Plaintiff as a result of the Defendant's wrongful acts in an amount subject to proof at trial, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

### PRAYER FOR RELIEF

WHEREFORE, Plaintiff respectfully requests that this Court enter:

- 1. A judgment in favor of Plaintiff that Defendant has infringed the '620 Patent;
- 2. A judgment and order requiring Defendant to pay Plaintiff its damages, costs, expenses, and prejudgment and post-judgment interest for Defendant's infringement of the '620 Patent as provided under 35 U.S.C. § 284 and an accounting of all damages not presented at trial;
- 3. An award to Plaintiff for enhanced damages resulting from the knowing, deliberate, and willful nature of Defendant's prohibited conduct with notice being made at least as early as the date of the filing of this Complaint, as provided under 35 U.S.C. § 284;
- 4. A judgment and order finding that this is an exceptional case within the meaning of 35 U.S.C. § 285 and awarding to Plaintiff its reasonable attorneys' fees; and
  - 5. Any and all other relief to which Plaintiff may show itself to be entitled.

## **DEMAND FOR JURY TRIAL**

Plaintiff, under Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury of any issues so triable by right.

Dated: December 3, 2018 Respectfully Submitted,

DEVLIN LAW FIRM LLC

/s/ Timothy Devlin

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