The CISO Guide to Cloud Communications Security

Information protection, data privacy, compliance management, and more.
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Introduction

With UCaaS platforms accelerating innovation and sharing in productivity resources like chat, voice, and video collaboration, it’s crucial for organizations to scrutinize how their UCaaS vendor-of-choice handles security, data privacy, and compliance to mitigate the rise of serious financial and brand threats.

These threats are growing at a record pace, so ensuring your UCaaS platform provides a leading approach to mitigating these risks should play a primary role in your buying considerations.

General Data Protection Regulation (GDPR) and its growing fines highlights how essential it is to scrutinize your vendor’s data privacy processes and capabilities. In just Q3 of 2021 alone, business fines totalled more than US $1.14 billion.

Evaluating how a UCaaS vendor will maintain your company’s data privacy is an important area of focus, given that 62% of businesses are not “completely compliant” with the data regulations that apply to them, including GDPR, CCPA, and CDPA.

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**Annual cost of GDPR fines**

<table>
<thead>
<tr>
<th>Year</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>$192M</td>
</tr>
<tr>
<td>2020</td>
<td>$335M</td>
</tr>
<tr>
<td>2021</td>
<td>$1.25B</td>
</tr>
</tbody>
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The risk landscape for UCaaS security extends to other areas as well. Think of it this way: your UCaaS vendor’s security infrastructure is, in essence, an extension of your environment.

Your vendor should be transparent about the investments they’ve made to safeguard your users and data from security threats and data loss, day in and day out.

If your UCaaS vendor’s security is lax, then your organization will be more vulnerable to a breach that can harm your brand value and bottom line. The cost of a single data breach has seen a significant increase in 2021, reaching an average total of US $4.24 million per breach. And, according to the FBI, successful vishing or smishing attacks have set victims back by US $54 million in 2021.

This guide outlines how, with the right technical controls, a UCaaS platform can be built with security, privacy, and compliance at the center of its infrastructure investments and innovation strategy.

The guide also demonstrates how RingCentral is leading the way to deliver on that mission with a UCaaS platform you can trust. RingCentral, a Gartner® Magic Quadrant™ Leader for Unified Communications as a Service for seven years in a row, provides transparency and deep expertise to ensure your investment in your UCaaS platform is protected and secured against today’s top threats.

$129M
Cost of data breach
Increased 143% over 2019

$54M
Cost of vishing/smishing
Detected by FBI in 2020

$5,600
Cost of downtime per min
Estimated by Gartner IT

UCaaS security essentials: The 3 use cases for a platform you can trust

What supported use cases do you absolutely need in order to get UCaaS security, privacy, and compliance right every time? And to know, consistently, that your platform doesn’t present a risk to your brand trust or bottom line?

The essential security formula

![Rigorous information security protection](image)

![Comprehensive data privacy and compliance management](image)

![Best practice security and administrative policy controls](image)

In addition, reliability and uptime will serve as the underpin for your platform’s foundation of trust by assuring your business continuity.

When it comes to keeping information assets secure, demonstrating cloud security, and committing to safeguard personal data, ISO/IEC 27001 standards are widely known as leading benchmarks for a vendor’s information security.

1. Information security protection

From the business infrastructure to the design and processes used for the UCaaS platform itself, your UCaaS vendor must apply airtight security best practices that are always on to provide the peace of mind that your data is safe from compromise.

Your UCaaS vendor must demonstrate that they have applied best-of-breed technologies and stringent operational processes to ensure that your data has rigorous protection at all times.

This should also include details on the security practices of their platform’s cloud infrastructure. An approach like this can’t be bolted on as an afterthought once a security gap becomes an issue, it must be part of your vendor’s DNA that is brought to bear in every aspect of the business.
2. Data privacy and compliance management

Your vendor must be ready to demonstrate their strong commitment to data security and provide details across several areas, including the physical security of their environment, data handling policy, and processes for regular security assessments.

In addition, you should look for validations from compliance attestations and certifications that help speak to the vendors’ commitment to data security, such as: SOC 2 Certification, ISO 27001 Certification, and others.

With the feature-rich capabilities UCaaS platforms provide, there's a high likelihood of sharing confidential items or personally identifiable information (PII) over the platform, such as sensitive product plans, customer information, and employee details.

In fact, that’s one of the valuable, business-enabling aspects of UCaaS solutions, so it makes sense that your vendor should have a thoughtful data privacy and compliance management policy that is consistently being followed.

Your vendor should employ an exhaustive system to prevent the inadvertent or intentional compromise of protected data, and they should be transparent about how data is collected and used. This is imperative to establish trust in a vendor’s data practices and to validate they’re respecting your company’s data privacy.

Your vendor should have the most stringent data privacy policies, which will ideally be documented in a comprehensive data privacy notice that is made publically available. In addition, review the vendor’s transparency practice for regularly communicating the requests they have received about customer data along with details on how they responded to these requests.

These will provide the assurance you need that your vendor is keeping your data and organization free of regulatory concerns.
3. Security and administrative policy controls

From waiting rooms to meeting passwords, UCaaS platforms should include comprehensive security capabilities to protect the platform and user experience. Administrative options, such as requiring authentication for meeting attendees, controls on who can enable screen sharing, and requiring waiting rooms to authorize attendees to join safeguard your organization from data loss and bad actors.

In addition to providing in-depth security and policy controls, your platform should take the guesswork out of which ones to enable by providing best-practice recommendations. This will make it easy to secure your everyday communications.

RingCentral: a leading approach to UCaaS trust

RingCentral is leading the way as the market standard in trusted, unified communications for today’s digital and modern business by providing secure and safe communications for every user. We’ve maintained a long-standing commitment to security, built on a deep expertise in operating and securing unified communications and SaaS products.

Security is in our DNA. We take a multi-dimensional approach to put the safety of your data first by applying best-in-class technologies and rigorous processes.

World-class security organization

Built by IT security veterans with over 100 years of experience and a dedicated software development team focused on ensuring platform and data security.
Best-in class DevSecOps
From our product design to the operations of our business, we employ rigorous security and data best-practices in everything we do. We provide our customers with a robust security platform by integrating security principles into the development process from the get-go.

Secure-by-design platform
We tirelessly pursue a shared responsibility model where we maintain third-party certifications and attestations that validate our information security policies and practices along with customer controls, so you can directly manage your use case needs.

High reliability and uptime
Experts are proactively monitoring and optimizing our platform 24/7/365 to ensure the availability of your service remains at the highest level possible.

We stand by this commitment with an industry-leading service level agreement (SLA) of 99.999% uptime offered in over 45+ countries. And we've consistently met that promise for 12 consecutive quarters.

With over 15 geographically dispersed data centers and media points of presence, RingCentral provides a global infrastructure that ensures 24/7 business continuity for your company, from anywhere.
In-depth: Information security protection + data privacy and compliance management

To give you deeper insight into our stringent practices, let’s take a look at the people, process, and technologies we have in place to provide the ultimate customer experience that is safe, compliant, and secure.
1. Our secure infrastructure

RingCentral’s security posture consists of numerous controls that reflect the best practices from established information security industry standards. Collectively, these stringent controls allow us to achieve world-class security practices for our customers. Some of these controls include:

**Physical Security**
We maintain appropriate physical security controls on a 24-hours-per-day, 7-days-per-week basis, and to the extent that RingCentral operates or uses a data center, we ensure that physical security controls are in alignment with industry standards such as ISO 27001 and SSAE 16 or ISAE 3402.

**Network Security**
We maintain a multi-layered network security program that includes industry-standard firewall protection, intrusion detection systems (IDS), intrusion prevention systems (IPS), DDoS attack and other web threat blocking, two-factor authentication for access to RingCentral’s networks, and others. In addition, we run internal and external network vulnerability assessments against our information processing systems at least quarterly to consistently evaluate our network security program.

**Data Encryption**
RingCentral encrypts data in transit and at rest, using applicable industry-leading encryption standards and protocols. We apply two, enterprise-grade security protocols to provide additional security for IP phone calls—TLS authentication and SRTP encryption.
In addition, all portals have https access (e.g., service.ringcentral.com); all non-voice data is TLS encrypted; and hard phones use digital certificates to establish secure connections to download their provisioning data.

To address potential vulnerabilities in the VoIP data plane, RingCentral safeguards voice communications with an advanced secure voice technology that prevents call eavesdropping or tampering with audio streams between endpoints.

**Toll Fraud Prevention**

Our service abuse and fraud management team is regularly monitoring and on the lookout for fraud. We use a range of tools for detection, which encompass:

- Volume, velocity, historical, and current trends on specific ranges, numbers dialed, and dial-pattern recognition
- Anomalous and or suspicious usage traversing our network
- Unauthorized access of extensions/mailboxes, digital lines, SIP devices, and IVRs

Our team responds to alerts from carriers when there is detected activity of anomalous usage, such as high risk and high cost of international ranges, reports of scams (e.g., a RingCentral customer number has been reported of committing scam, defraud, phishing, etc.), as well as any reports of harassment, unsolicited calls, or call annoyance.

**Incident response**

Our incident response capabilities are designed to comply with statutory and regulatory obligations that cover incident response. To deliver on this, we maintain incident response capabilities to respond to events potentially impacting the confidentiality, integrity, or availability of your services or data, including protected data.

**Protected Data**

We maintain a written information security program that includes policies for handling protected data in
compliance with the Agreement and with applicable law. In addition, it includes administrative, technical, and physical safeguards that are designed to protect the confidentiality, integrity, and availability of protected data.

Operations Security
Our rigorous operations security program follows industry best practices across our global organization, including in-depth security measures for asset management, configuration management, malicious code protection, vulnerability and patch management, as well as log monitoring.

Supplier Management
We hold our third-party suppliers to our same high security standards, and we consistently monitor for publicly disclosed vulnerabilities and exposures for impact to our supplier’s information systems and products.

Data Handling
RingCentral maintains data classification standards for both public data (i.e., data that is generally available or expected to be known to the public) and confidential data (i.e., data that is not available to the general public, including protected data).

Software Development Cycle
We apply secure development lifecycle practices, including during design, development and test cycles, and we ensure that our products are subject to security reviews, including threat considerations and data handling practices.
2. In-depth: Global data privacy and security certifications and attestations

Our third-party attestations and certifications speak to our commitment to data security. RingCentral is built on a secure cloud platform with a robust portfolio of security and compliance certifications, including:

- SOC 2 attestation
- SOC 3 attestation
- ISO 27001 and ISO 27017-18 certifications
- STIR/SHAKEN (Spam blocking)
- HITRUST certificate
- HIPAA attestation of compliance
- GDPR
- PCI-certified merchant
- PIPEDA
- FINRA

This means your data is secure, private, and compliant across mobile, video, and phone, making RingCentral the most reliable and secure unified cloud communications platform built for every experience. You can see the full list and learn more about our independent certifications here.
3. In-depth: Security and administrative policy controls

The RingCentral platform provides our customers with leading-edge security and policy controls that ensure a safe and secure experience for your users. Our platform puts a comprehensive set of administrative controls across video, message and phone at your fingertips, such as requiring your meeting attendees to authenticate, limiting who can enable screen sharing, and requiring waiting rooms for your users to approve attendees who can join. These provide you with best-in-class security capabilities to safeguard your organization from data loss and bad actors.

Video

- Single sign-on (SSO)
- Available via desktop & mobile app, and browser (via WebRTC)
- Require password
- Restrict screen sharing
- Enforce waiting rooms
- Restrict meeting attendance to authenticated users
- Allow user to enable meeting recordings
- Enable moderator turn on/off video for all participants
- Moderator remove participants
- Moderator mute participants
- Virtual background for privacy
- Hide meeting ID
- Control data file sharing
• Audit trail to track changes
• End-to-end encrypted meetings
• TLS encryption/SRTP secure voice

**Phone**

• Single sign-on (SSO)
• Block phone numbers
• AI-based spam blocking
• RoboCall mitigation using STIR/SHAKEN standards
• Number masking
• RingOut—calling on third-party devices with your business phone number
• Emergency response locations for E911 calls
• Voicemail routing based on business hours
• Analytics portal
• 99.999% SLA uptime
• End-to-end encrypted calls
• TLS encryption/SRTP secure voice

**Message**

• Allow/block list—external guest domains
• Allow/block list—webmail accounts
• Clear guest identification within 1:1 and group chats
• Enforce policies
• End-to-end encrypted messages
• SEA FINRA 17a-4 compliant

**Access and Identity**

• Single sign-on (SSO)
• Enforced multi-factor authentication (MFA)
• Device PIN enforcement
• User management

**Encryption**

• Data-at-rest
• Data-in-transit
• TLS encryption/SRTP secure voice
• E2EE via Message Layer Security (MLS)
Unified App

- Single sign-on (SSO)
- Available via desktop & mobile app, and browser (via WebRTC)
- Require password
- Restrict to authenticated users
- Session timer to logout inactivity
- Authorized apps manager
- VoIP country blocking
- Centralized IT management of free and paid users
- Audit trail to track changes
- Mobile Application Management via MS Intune
Before RingCentral’s end-to-end encryption (E2EE), those who wanted private, end-to-end encrypted calls, chat messages, and video meetings were stuck using multiple products that lacked sufficient compliance oversight. This often forced them to evade corporate policies and use non-sanctioned apps.

With RingCentral’s E2EE for calls, chats, and meetings, no third party, (not even RingCentral) can access a company’s communication data. E2EE provides intuitive controls to turn everyday conversations into end-to-end encrypted conversations at the individual and team level.

RingCentral’s end-to-end encryption (E2EE) provides unparalleled security and privacy for privileged conversations, as well as protection against third-party intrusion and a host of attacks. E2EE removes the need for multiple encryption products, modernizes the user experience, and reduces privacy concerns within privileged conversations.

We are the only UCaaS provider with enterprise-ready End-to-End Encryption for all forms of business communications—whether it’s a scheduled, spontaneous, or ongoing 1:1 conversation, or a meeting with up to 50 participants.

**Compliance for chat messages**

Company IT admins with the right kind of permissions will be able to access chat data within the RingCentral admin dashboard. If needed, company IT admins can grant third-party auditors the ability to access the data. RingCentral will not have access to the data.

For compliance-minded organizations such as financial services, IT administrators can turn off E2EE at the organizational level. For added peace of mind, RingCentral tightly integrates with Theta Lake for compliance monitoring and supervision requirements for voice, chat, and video calls using RingCentral.
Conclusion

UCaaS platforms play a critical role in fostering an organization’s collaboration to drive growth. Partnering with a UCaaS vendor that places a priority on the security, privacy, and maintained compliance of your data will meet your business needs, safely and securely. When you take a close look at buying criteria that assures your continued trusted customer experiences, you’ll get your winning platform with RingCentral.

RingCentral offers a fundamentally different approach to global trust for your unified communications platform. From our industry-leading five 9s in uptime reliability to our comprehensive information security protection and global privacy management, you don’t have to worry about your data being compromised or falling short of regional regulation standards.

Our innovations and commitment to security, data privacy, and compliance have earned RingCentral recognition as a trailblazer in the market, including seven consecutive years being named as a Leader in the Gartner Magic Quadrant for Unified Communications as a Service (UCaaS).

Our approach delivers “always-on” information security protection and data privacy management that keeps your data safe and compliant with the law. And our platform provides a comprehensive toolset for your administrators and users with a breadth of dynamic and real-time controls.

To learn more visit the RingCentral Trust Center.

For more information, please contact a sales representative. Visit ringcentral.com or call 855-774-2510.