Cybersecurity Threats and Trends



Threats:

- Malware shows no sign of changing its steady growth, which has risen steeply since 2012.
- Financial Institutions are the most targeted, suffering 80% of all malware attacks.
- The trend moving forward shows increase sophistication in the mode of attack and the persistence of fraudsters.
- Mobile platforms represent a major growth area for vulnerabilities, as well as malware attacks.

Cybersecurity Regulatory Compliance outlook

- Cybersecurity Assessments
 - Туре
 - Mitigating Controls
 - Effectiveness of the controls
 - Residual risk

• Vendor Risk Assessments

- Critical services
- Outsourcing (i.e. SaaS, IaaS, etc.)
- Legal
- Information Security
- Operational Risk
- Financial

• Incident Response

- Develop ant test your IR Plan
- Emergency response services (Know who to call)
- Forensic analysis
- Escalation procedures
- Notification to the regulator (State, Fed, OCC, etc.)
- Notification to law enforcement



Take Away

- Do your Part:
 - Be proactive
 - Identify and manage risks
 - Apply defense-in-depth measures
 - Ensure your vendors have the required controls in place to safeguard YOUR Bank's information - Trust but verify
 - Establish a culture of security
 - Join an Information Sharing support group

Be Aware - Anticipate - Adapt

Security, Compliance and Privacy in the Cloud

...Founded on Transparency and Trust

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Trust considerations

Is cloud computing secure? SecU Where is my data and do I have access?

How do you support my compliance needs?

compliance

What does privacy mean? Is my data used for advertising?



Microsoft Core Values



privacy security Trustworthy Computing business practices

reliability

Office 365 Trust

Security	Best-in-class security with over a decade of experience building Enterprise software & Online services
	 Physical and data security with access control, encryption and strong authentication Security best practices like penetration testing, Defense-in-depth to protect against cyber-threats Unique customer controls with Rights Management Services to empower customers to protect information
Compliance	 Commitment to industry standards and organizational compliance Enable customers to meet global compliance standards in ISO 27001, EUMC, HIPAA, FISMA Contractually commit to privacy, security and handling of customer data through Data Processing Agreements Admin Controls like Data Loss Prevention, Legal Hold, E-Discovery to enable organizational compliance
Privacy	 Privacy by design with complete separation of Enterprise and Consumer services No mining of data for advertising Transparency with the location of customer data, who has access and under what circumstances Customer have greater control over privacy to enable or regulate sharing based on organizational needs

Security



Built in Capabilities

Flexible Customer Controls

Security best practices like penetration testing, Defense-in-depth to protect against cyberthreats

- Physical and data security with access control, encryption and strong authentication
- Unique customer controls with Rights Management Services to empower customers to protect information



Compliance

Built in Capabilities

Customer controls for compliance

Office 365 is built with a focus on privacy and security that allows us to obtain important industry certifications and enables customers to meet international laws and regulations 3rd party certification and audits.

Data Loss Prevention (DLP)Archiving and Legal Hold

• E-Discovery

Compliance Management Framework



Certifications Open New Markets



Certification Status

CERT	MARKET	REGION
SSAE/SOC	E Finance	Global
ISO27001	Global	Global
EUMC	Europe	Europe
FERPA	Education	U.S.
FISMA	Government	U.S.
PCI	CardData	Global
HIPAA	Healthcare	U.S.
HITECH	Healthcare	U.S.
ITAR	Defense	U.S.
HMG IL2	Government	UK
CJIS	Law Enforcement	U.S.

Queued or In Progress

FFIEC	Finance	U.S.	FISC	Japan-Finance	U.S.
IRS 1075	Tax/Payroll	U.S.	CNSS1253	Military	U.S.

Audit Reports

Specific to Financial Institutions: regulatory requirement

Customers can request a copy of the latest audit reports and a accreditation artifacts

'Right to Examine' vs. 'Right to Audit'

Compliance Program

* Country Specific Regulatory Compliance Sheets map regulatory requirements to service features – Argentina, Brazil, Columbia, Chile, DR, Ecuador, Mexico, Panama, Paraguay, Peru, Venezuela, Guatemala, El Salvador, Costa Rica

Email archiving and retention, data loss prevention

Preserve	Search				
Auditing and retention policies	In-Place Archive	Governance	Hold	Data Loss Prevention	eDiscovery
Log events, view, edit, delete email messages, documents, task lists, issues lists, discussion groups, and calendars. View audit data, and report and summarize current usage	Secondary mailbox with separate quota Managed through EAC or PowerShell Available on- premises, online, or through EOA	Automated and time- based criteria Set policies at item or folder level Expiration date shown in email message	Capture deleted and edited email messages Time-Based In-Place Hold Granular Query- Based In-Place Hold Optional notification	Identify, monitor, and protect sensitive data Proactively identifies sensitive information and alerts users via "PolicyTips" Customize the level of restrictions	 Web-based eDiscovery Center and multi-mailbox search Search primary, In- Place Archive, and recoverable items Delegate through roles-based administration De-duplication after discovery Auditing to ensure controls are met

Privacy by Design

No Advertising

Transparency

Privacy controls

- No advertising products out of Customer Data
- No scanning of email or documents to build analytics or mine data
- Access to information about geographical location of data, who has access and when
- Notification to customers about changes in security, privacy and audit information
- Various customer controls at admin and user level to enable or regulate sharing
- If the customer decides to leave the service, they get to take to take their data and delete it in the service

Data Sovereignty





- Microsoft will not disclose Customer Data to law enforcement unless required by law.
- Microsoft will attempt to redirect law enforcement to request data directly from Customer.
- Microsoft will notify Customer and provide a copy of the demand unless legally prohibited from doing so.
- Microsoft will continue to challenge government demands to shape the limits of the law.

No Advertising

Will you use my data to build advertising products?

We do not mine your data for advertising purposes. It is our policy to not use your data for purposes other than providing you productivity services.

We design our Office 365 commercial services to be separate from our consumer services so that there is no mixing of data between the two.

Who owns the data I put in your service?

You own your data and retain the rights, title, and interest in the data you store in Office 365. You can take your data with you, whenever you want.



Learn more about data portability and how we use your data.

Transparency



Where is Data Stored?

Clear Data Maps and Geographic boundary information provided 'Ship To' address determines Data Center Location

Who accesses and what is accessed?

Core Customer Data accessed only for troubleshooting and malware prevention purposes . Core Customer Data access is limited to key personnel on an exception basis only.

Do I get notified?

Microsoft notifies you of changes in data center locations.

The Microsoft Difference in Operational Control

• No persistent Administrative Accounts

- Admin access accounts are created to address specific support incidents and then retired.
- Admin access is not to global infrastructure but to specific sections required for support.
- Admin access is given a TTL (Time to Live) for the support exercise to be completed then retired.

Segmented Logical / Physical Access

- No single individual has both logical and physical access to cloud infrastructure.
- Logical access is ONLY via the NOC which is purposefully off premises to physical infrastructure.
- Physical access is ONLY via cleared DC personal with no logical console access to infrastructure.

Ongoing Red / Blue Team Exercises

- Microsoft Red Teams are challenged to expose vulnerabilities to platform on quarterly basis.
- Microsoft Blue Teams are challenged to deliver vulnerability response programs based on findings.
- Microsoft Red / Blue team methodologies are audited and overseen by 3rd party.



Microsoft's Commitment to Transparency, Compliance & Security

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Protecting customer data from

Privacy authorities across Europe

Services covered by the Office 365

approve Microsoft's cloud

From Inside the Cloud: Is your

government snooping

commitments

Trust Center

data cafe at rest?

With the Office 365 service it's our responsibility to keep your data safe and secure. It's your data. You own it. You control it. And it is yours to take with you if you decide to leave the service. The core tenets of our approach to earning and maintaining your trust are

Continuous compliance

Transparent operations

· You know where your data resides and who has access

· Visibility into availability and changes to the service

Financially backed guarantee of 99.9% uptime

Built-in security

 Service-level security through defense-in-depth Proactive processes to meet your compliance needs · Customer controls within the service Customer controls for organizational compliance · Security hardening and operational best practices Independently verified to meet evolving standards

Privacy by design

· Your data is not used for advertising · You have extensive privacy controls · You can take your data with you when you want





- Websites committed to educating Microsoft customers on relevant regional and global security issues.
- Security Intelligence Reports summarizing recent security and compliance events.
- MSRC provides Microsoft Customers a glance into the ongoing efforts to provide our customers the most secure, compliant products and service.
- The Trust Center is the "one stop shop" for all things compliance related to Microsoft Cloud technologies.
- Ongoing audit results by our internal . and third party auditors are posted here for customer review.

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