

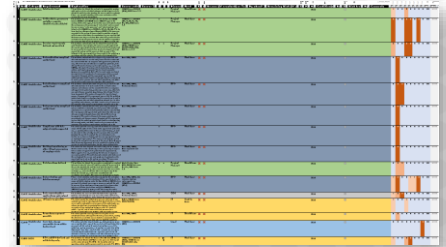
VISCHER

Vendor Cyber Risk Management. The Legal Viewpoint

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The requirements

- **Data protection law, professional secrecy**
 - Adequate data security measures, including validation/audit trails
 - Data breach notification obligations
- **Market and product regulations**
 - Sector-specific (e.g., FINMA, EBA, BaFin, EU DORA)
 - Technology-specific (e.g., EU AI Act, Data Act)
 - Critical infrastructure (e.g., EU NIS2, EU CER, CH ISG), incl. cyber risk management, incident notification obligations
- **Good corporate governance**
 - Protection against operational and reputational risks
 - Business continuity management (BCM)



Cloud Compliance and Risk Assessment (CCRA-FI) defines **128 Requirements** to be complied with by Swiss Banks for their cloud projects

Some are more specific than others

Cybersecurity risk-management measures

1. Member operational an which those er of incidents on

Both internal and external persons who can access critical data or who can change these must be selected carefully. These persons must be monitored with the help of appropriate measures²⁰ and given regular training in the handling of these data. Increased security requirements shall apply to persons with increased privileges²¹. **In addition, a list of all persons with privileged access rights must be kept and updated on a regular basis.**

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Incidents that substantially impair the confidentiality, integrity or availability of critical data must be reported to FINMA without delay.

2. The mea information sy

When selecting service providers that can process²² or view critical data, due diligence must be particularly thorough. Clear criteria for assessing how service providers handle critical data must be defined and checked before entering into a contractual agreement. The service providers must be monitored and checked periodically as part of the institution's internal control system.

(a) policies on

(b) incident handling;

(c) business continuity, such as backup management and disaster recovery, and crisis management;

N 80 et seq.
FINMA Circular 2023/1
on operational risks and
resilience of banks

Article 21 NIS2 Directive (part)

What we often see in practice



- **On the part of customers**
 - Contracts that require providers to have "adequate technical and organizational measures of security" with only a very generic list of TOMS
 - The adequacy of provider TOMS is usually not scrutinized, let alone verified whether they indeed exist in practice
 - No follow-up validation, not even by way of audit reports
- **On the part of vendors**
 - Those who sign anything just to get the contract
 - Those who have terms that sound great, but at closer look are full of loopholes
 - Those who stick to their own terms & TOMS ("take it or leave it")

Issue #1: Beware of smokescreens

Solve with negotiation
or accept the risk

- Contracts with state-of-the-art security **only at first sight**
 - Often a strategy to limit legal exposure in case of a data breach
- Real-life **examples** out of cloud service provider contracts
 - Obligation to maintain an ISMS, but not an actual security level
 - Security commitments limited to the infrastructure layer
 - Descoping of audit reports possible at any time
 - No commitment to keep customer data confidential, only to implement measures that protect customer data
 - Encryption does not always work, access is not always logged
 - Commitments only as commercially reasonable, no warranty
 - Breach notification clock starts ticking only after the internal confirmation procedure; no clarity re sub-provider breaches

Issue #2: Be specific

- Many **security clauses** and TOMS are **too generic** (e.g., no controls) or otherwise leave too much room for interpretation
 - **Example:** The new clauses used by the Federal Government
 - *"X2. When processing federal data and information, the service provider undertakes to observe and comply with the requirements and provisions of the Data Protection Act (DPA) and the Information Security Act (ISA), including the relevant implementing ordinances and the Confederation's basic ICT protection. It shall transfer these obligations to third parties it engages (e.g. suppliers, substitutes, subcontractors)."*
- It must be **clear** what the vendor has to do (e.g., type of PAM)
 - Being specific allows them to **challenge** the vendor and **verify** compliance (updating TOMS later on is still possible)

Have infosec experts and lawyers align themselves



<https://www.bkb.admin.ch/bkb/de/home/them/en/agb.html>

Use-case-specific TOMS

Do not only consider IT providers and "processors" ...

Ref.	Kategorie	Titel	Vertragsstext	Provider 1	Provider 2	Provider 3	Provider 4	HW-Lieferant 1	HW-Lieferant 2	HW-Lieferant 3	HW-Lieferant 4	SW-Lieferant 1	SW-Lieferant 2	SW-Lieferant 3	SW-Lieferant 4	SW-Lieferant 5	SW-Lieferant 6	SW-Lieferant 7	SW-Lieferant 8	Berater 1	Berater 2	Berater 3	Berater 4	Selektier	
A.01	Generell	Rechte an Daten und Herausgabe	Die Bank behält alle Rechte an den Daten, welcher der Partner für sie bearbeitet oder von ihr erhält oder für sie erhebt oder erzeugt. Er wird ihr jederzeit Zugang zu diesen Daten gewähren und diese auf Verlangen in elektronischer Form vollständig herausgeben, dies in einem standardisierten, elektronischen Format, welches der Bank die uneingeschränkte Weiterverwendung erlaubt.	3	3	3	3	0	0	2	2	0	0	0	0	0	0	0	0	3	1	3	3	3	WAHR
A.02	Generell	Angemessene TOMS	Der Partner wird in seinem Bereich angemessene technische und organisatorische Massnahmen treffen, um die Sicherheit der Daten und Systeme der Bank zu gewährleisten, einschliesslich der Personendaten über deren Mitarbeiter. Diese Massnahmen entsprechen den Anforderungen des DSGVO einschliesslich der DSV, schützen aber alle Daten der Bank, nicht nur Personendaten. Sicherheit meint den Schutz der Vertraulichkeit, Integrität und Verfügbarkeit der Informationen oder Daten sowie die Nachvollziehbarkeit deren Bearbeitung.	3	3	3	3	0	0	1	3	0	0	0	0	3	3	3	3	3	3	3	3	3	WAHR
A.03	Generell	Stand-der-Technik	Der Partner setzt in seinem Bereich technische und organisatorische Massnahmen zum Schutz der Daten und Systeme der Bank ein, welche stets dem bewährten Stand der Technik entsprechen.	3	3	3	3	0	0	0	2	0	0	0	0	0	0	3	3	3	1	1	3	3	WAHR
A.04	Generell	Periodische Überprüfung und Aktualisierung der TOMS	Der Partner wird die in seinem Bereich getroffenen technischen und organisatorischen Massnahmen zum Schutz der Daten und Systeme der Bank periodisch (mindestens jährlich) oder bei Bedarf auf ihre Effektivität prüfen und sie bei Bedarf anpassen.	3	3	3	3	0	0	0	3	0	0	0	2	2	3	3	3	2	2	3	3	3	WAHR
A.05	Generell	ISMS	Der Partner führt ein Information Security Management System (ISMS) nach anerkannten Standards. Es deckt in seinem Bereich die technischen und organisatorischen Massnahmen sämtlicher Systeme und Prozesse ab, welche die Daten oder Systeme der Bank betreffen.	3	3	3	3	0	0	0	3	0	0	0	1	1	2	2	3	1	1	2	3	3	WAHR
A.06	Generell	Sorgfältige Auswahl, Instruktion und Überwachung der Hilfspersonen	Der Partner ist verantwortlich dafür, dass alle Mitarbeitenden und weiteren Hilfspersonen, die an der Leistungserfüllung beteiligt sind oder Zugang zu den Daten oder Systemen der Bank erhalten, sorgfältig ausgewählt, instruiert und überwacht werden und zuverlässig, regelkonform und fachgerecht arbeiten.	3	3	3	3	0	3	3	3	0	1	3	3	3	3	3	3	2	3	3	3	3	WAHR
A.07	Generell	Sicherheitsschulung der Mitarbeitenden	Die Mitarbeitenden des Partners (und der von ihm beigezogenen Dritten) werden regelmässig in Bezug auf die Wahrung der Informationssicherheit geschult. Hierzu gehören neben einer Grundschulung auch eine mindestens jährliche Auffrischung und Massnahmen zur Erhöhung der Aufmerksamkeit. Die Schulung und die Teilnahme daran ist zu																						

A repository of 129 TOMS created for a large Swiss bank that can be selected based on the use case (e.g., various scenarios of hardware and software providers, online providers and advisors)

Issue #3: Require evidence

- If the vendor signs your **tough TOMS** without pushing back, you usually have a problem ...
 - Real-life **examples:** Confirmation that any operator access is logged, TPAM, obligation to have all confidential information received from the customer deleted upon the end of the contract
- Do not only **test the provider** during due-diligence, but also have an effective ongoing validation agreed (and implement it)
 - ISO 27001 is not sufficient, nor is an audit right that is not used
 - Require standardized 3rd party audit reports on actual controls and their effectiveness, 3rd party reports on penetration tests, and vulnerability assessments – and have them reviewed
- Agree on incident reporting, **remediation**, costs, consequences

Provide for a realistic security validation method and expert Q&A sessions to get a feeling

Some more issues to consider

- **Cover the entire supply chain**
 - Impose obligations upon sub-processors, consider other suppliers
 - If a hyperscaler is used: How is the vendor handling it?
- **Data breach handling**
 - Only covered if related to personal data? What is the procedure?
 - How does the vendor deal with exploits that become known?
- **Risk of foreign lawful access**
 - This is often neither considered nor specifically addressed when using providers; special TOMS and risk assessments are required
- **Ability to exit if it becomes necessary**
 - Within what period of time will you be able to exit?

Final remarks

- Have a **contract** that provides for TOMS that are **specific enough** to provide for controls and adequate for the use case
- Beware of **smokescreens** and vendors that do not **push back**
- Do not forget to cover foreign **lawful access** & subcontractors
- Make sure the effective implementation of the controls in the supply chain is **verified** pre-signing and regularly thereafter
- Make sure the **adequacy** of the controls is regularly validated and improvements are made, as necessary, at the vendor's cost
- Have **issues reported, remedied** and remedies **verified**
- Have **non-contractual safeguards** (e.g., audits & logging) not only contractually agreed, but also utilized

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Thank you for your attention!

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Get the 12 Golden TOMS!

The 12 Golden TOMS when using IT Providers.

These are 12 critical controls to best implement when relying on external IT service providers.

1. Ask provider for leading information for and evidence of meeting these controls
2. Review them; make sure that some controls are fully covered
3. Note them included in the contract, ask for evidence and provide for review
4. Repeat (at least yearly) review compliance with them (e.g., audit reports)

Control / Information Security Measures	C	D	Sample Wording for Provider Contracts
Identity & Access Management , specifically multi-factor authentication (MFA), temporary privileged access management (TPAM), segregation of duties and roles, and control over regular user identities and permission.	X	X	The Provider shall apply a state-of-the-art identity and access management. This shall include authentication and password management with respect to Customer Data. For privileged access, a privileged access management system shall be used. The Provider shall ensure that all users have been in the organization's system directory at least once in the last 90 days and that the management system shall have been in the organization's system directory at least once in the last 90 days. The Provider shall ensure that all users have been in the organization's system directory at least once in the last 90 days.
Encryption and key management , specifically use of customer specific keys, key having an enhanced security profile, control over encryption keys and technical processes working with them.	X	X	Customer data shall be encrypted using keys that are generated and stored by the Customer, stored in an HSM, not exported, and not retained by the Provider. Control over the key management is retained by the Customer. The key management process shall be documented and auditable. The Provider shall ensure that all keys are generated and stored in an HSM and that the key management process is auditable. The Provider shall ensure that all keys are generated and stored in an HSM and that the key management process is auditable.
Restriction and protection of data extracts , specifically their encryption, data leakage prevention and access management.	X	X	Provision of Customer data in any form (SQL) for reporting shall only happen when necessary. Extracted data shall be encrypted and stored in an HSM. The Provider shall ensure that all data extracts are encrypted and stored in an HSM. The Provider shall ensure that all data extracts are encrypted and stored in an HSM.
Cross-border processing and access control , where data is processed by or actually hosted/processed, from where data can be accessed by regular or privileged users, where data backups are processed, log control, monitoring and retention.	X	X	Storage and all processes for processing Customer data must be located and implemented in the country of the Customer's data processing (e.g., Ireland). Storage of and all processing of Customer data must be performed and controlled in the country of the Customer's data processing (e.g., Ireland). Storage of and all processing of Customer data must be performed and controlled in the country of the Customer's data processing (e.g., Ireland).
Log management , full audit trails, log immutability and retention.	X	X	This Provider shall ensure that logs are stored, stored, and not modified or permanently deleted by any user and access to all metadata of Customer data or to backup logs is restricted to privileged access controlled by the Provider and subject to the logs being retained for control at all times and retained for all audit data.
Penetration testing , disclosure and control, monitoring and remediation of findings from penetration tests.	X	X	This Provider shall ensure that logs are stored, stored, and not modified or permanently deleted by any user and access to all metadata of Customer data or to backup logs is restricted to privileged access controlled by the Provider and subject to the logs being retained for control at all times and retained for all audit data.
Incident & vulnerability management including incident & response management.	X	X	This Provider shall ensure that logs are stored, stored, and not modified or permanently deleted by any user and access to all metadata of Customer data or to backup logs is restricted to privileged access controlled by the Provider and subject to the logs being retained for control at all times and retained for all audit data.
Change control, release management process governance and supervision.	X	X	The Provider shall ensure that logs are stored, stored, and not modified or permanently deleted by any user and access to all metadata of Customer data or to backup logs is restricted to privileged access controlled by the Provider and subject to the logs being retained for control at all times and retained for all audit data.
Segregation between production/non-production environments.	X	X	The Provider shall ensure that logs are stored, stored, and not modified or permanently deleted by any user and access to all metadata of Customer data or to backup logs is restricted to privileged access controlled by the Provider and subject to the logs being retained for control at all times and retained for all audit data.
Records management , records immutability and access control.	X	X	The Provider shall ensure that logs are stored, stored, and not modified or permanently deleted by any user and access to all metadata of Customer data or to backup logs is restricted to privileged access controlled by the Provider and subject to the logs being retained for control at all times and retained for all audit data.
Subcontractor risk management ensuring same standards.	X	X	The Provider shall ensure that logs are stored, stored, and not modified or permanently deleted by any user and access to all metadata of Customer data or to backup logs is restricted to privileged access controlled by the Provider and subject to the logs being retained for control at all times and retained for all audit data.
Risk governance for the Provider and its entire supply chain.	X	X	The Provider shall ensure that logs are stored, stored, and not modified or permanently deleted by any user and access to all metadata of Customer data or to backup logs is restricted to privileged access controlled by the Provider and subject to the logs being retained for control at all times and retained for all audit data.

Need help on above?

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Note: The above measures do not cover business continuity management, which will also have to be addressed when relying on an outside IT service provider.

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<https://vischerlnk.com/goldentoms>