Spring 2026 **Blind ID Number: _____**

UNIVERSITY OF CALIFORNIA
LOS ANGELES
SCHOOL OF LAW

Prof. Selbst Law 484 §1. Information Privacy and Data Protection May 5th, 2026

Final Examination
OPEN BOOK
FULLY SECURE
(3 hours)

Be sure to avoid making any remarks that will jeopardize your (or anyone else's) anonymity either on the exam or in any other context, before the exam grades are posted. Any questions during or after the exam should be addressed to the Records Office or Dean Martí.

Exam Instructions

1. Please write your blind ID in the top right corner of this page.

2. This is an open book, fully secured examination. You may use your casebook, assigned course materials, class PowerPoints, and any printed notes and outlines you have prepared. You may not use electronic materials outside of the exam software.

3. The word limit for the entire exam is **4000** words. I will not read past that number of words. Do not waste words restating the facts or the exam question!

4. The exam has three questions, two of which have two parts. I have provided recommended time allocations, building in some buffer time.

5. Your answers will be evaluated according to responsiveness to the question, familiarity with relevant law, clear expression of your analysis, reliance on appropriate authority, and discussion of policy considerations where appropriate. **Do not skip steps in your analysis.** I want to see that you understand the relevant steps and considerations in answering each question, and that you have the ability to work through a problem by identifying and citing the correct sources of law.

6. You may leave the room to use the restroom or for an emergency, but you may not take anything out with you, or bring anything in with you, or consult anyone or anything while you are outside the room.

7. If you finish the examination early (up until the 5 minute warning is given), you may bring your exam materials to the front of the room and quietly leave the room. All of these materials must be turned in, or you will receive no credit for the examination.

8. Exam answers must be entered in the exam software, not on this question booklet.

9. If you feel that there has been a typographical error or other mistake on the exam, identify the error and answer the question as you think it should be corrected to read.

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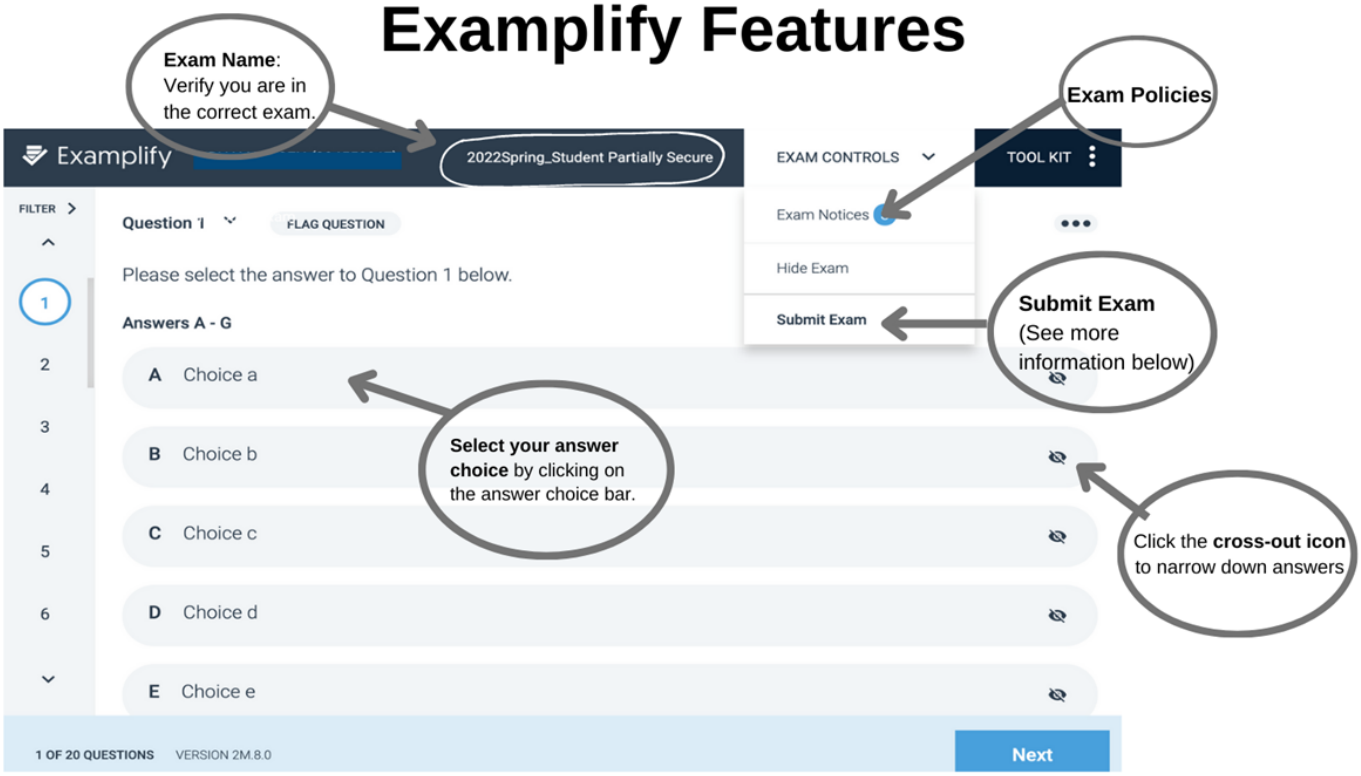

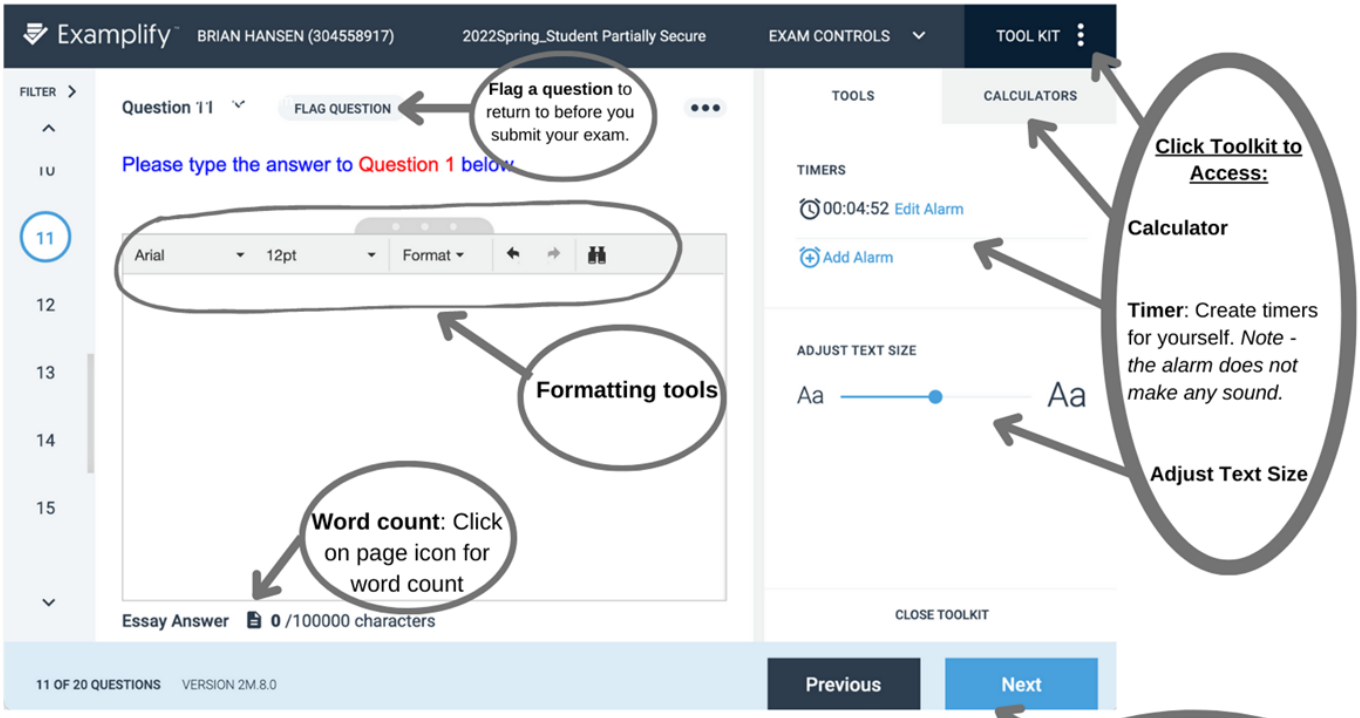

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UCLA School of Law

Question 1. (50 minutes)

VitaBand, Inc., a Massachusetts corporation, manufactures a popular wearable device called the "Vita Band," marketed as a lifestyle and wellness product. The Band syncs with a mobile app that allows users to track "activity trends," "sleep quality," and "wellness metrics." Marketing materials emphasize that the Band helps users "stay informed about their bodies" and "share meaningful insights with trusted healthcare providers through the HealthConnect program." They also emphasize that users are "in control" of what health information is shared and that "your data stays private unless you choose to share it."

When setting up the device, users are presented with a multi-page Terms of Service and Privacy Notice, including the following excerpts:

> *How We Use Your Data*. VitaBand collects information to provide, maintain, and improve its services. This may include information about your activity patterns, sleep habits, and other wellness-related metrics generated through your use of the VitaBand Band and mobile application. Certain features—such as performance insights, recovery indicators, and personalized recommendations—rely on the analysis of biometric signals detected by the device. The specific data collected may vary depending on how you use the Band and which features you enable.
>
> *HealthConnect*. If you choose to connect your VitaBand account with a healthcare provider, VitaBand will share health information as necessary to support the services you request. For example, this may include information that helps your provider understand trends in your wellness and activity over time. VitaBand does not share your personal health information with third parties except as needed to provide services to you, including sharing with your designated healthcare provider.

This is the only place the Privacy Policy discusses HealthConnect.

During setup, users are taken through a series of pop-up screens. One of them prompts users to "Join HealthConnect to connect with your primary care provider for enhanced health insights!" then embeds a tool to "Search for Participating Providers." After searching for a provider, if one is found, a new screen pops up with a blue rectangular button labeled "Connect to Care Provider." Bold text just above the button reads: "If you connect a HealthConnect provider to your account, VitaBand will share relevant health information with your designated provider to support your care."

Behind the scenes, VitaBand aggregates user data before selling datasets to third parties, including health analytics firms and health insurers. VitaBand maintains a deidentification process designed to comply with the Safe Harbor standard under the HIPAA Privacy Rule. Direct identifiers—including name, full address, email address, phone number, account numbers, and device serial numbers—are removed prior to inclusion in any external dataset. Dates associated with user activity are adjusted to the calendar year, and geographic information is limited to the first three digits of ZIP code where applicable. The resulting dataset is intended to prevent identification of individual users.

To support longitudinal analysis and product improvement, each user is assigned a persistent, randomly generated identifier that is included in all records. In addition, the dataset retains certain fields necessary for analytics, including age range, gender, height, weight, generalized location, and time-series records of user activity (e.g., daily activity levels and sleep intervals), and performance-related metrics including "cardio fitness" and "recovery" metrics derived from heart rate. These data are shared with third-party partners, including health analytics firms and insurers, pursuant to data use agreements that prohibit attempts to identify individual users. Internal assessments have noted that, in some cases, combining VitaBand datasets with external data sources may allow for inference of individual identities or highly specific user profiles, particularly where users exhibit consistent

behavioral patterns over time or reside in less densely populated regions. Nonetheless, VitaBand classifies these datasets as deidentified for purposes of external sharing.

Among the purchasers of these datasets is Apex Health, a large national health insurer. Apex Health uses the purchased datasets to refine its risk models and adjust premiums across its customer base. While Apex does not receive names or direct identifiers, its data science team is able to combine VitaBand datasets with other commercially available data to make highly granular inferences about individuals' health risks.

Charlie Carter is a VitaBand user who lives in Chicago, Illinois and has connected the Band to her primary care physician through HealthConnect. Carter is a distance runner and is currently training for the Chicago marathon. Three months ago, she received a notice from Apex Health, saying that her health insurance premiums were set to increase due to an increased risk of heart disease. Confused and surprised, she called customer service, explaining that she has never received any diagnosis or warning from her doctor related to heart disease. Apex refused to budge, and when pressed for an explanation, deferred to their proprietary statistical methods. Then, two weeks ago during a routine visit, Charlie's primary care physician asked whether she has experienced heart palpitations or unusual fatigue during exercise. The doctor explained that, based on recently received wellness data, there are indications of possible irregular cardiac patterns consistent with early atrial fibrillation, and recommends further monitoring.

Carter suspects that somehow the increase in her insurance rates is related to the data in HealthConnect but does not understand how the insurance company got it. She is incensed at the whole situation and wants to know if VitaBand did anything illegal and if she has any recourse.

Analyze Carter's potential claims and remedies against VitaBand and any other relevant actors under federal law and any relevant state privacy statute. Focus on the most plausible legal theories.

Question 2. (40 minutes)

CityTrack is a mobile app offered in many cities throughout the United States and Europe, providing users with real-time information about traffic, public transit, and nearby businesses. To provide its services, CityTrack processes several types of user data, including continuous GPS coordinates when the app is active, and periodic location updates in the background, both of which it uses to provide navigation and personalized recommendations.

CityTrack assigns each device a persistent identifier and retains stored location data for up to 60 days. Its privacy policy states that it collects information to "improve services and provide personalized recommendations," and may share data with "partners" in aggregated or anonymized form. The policy also states that it will disclose data and contents of user communications to law enforcement as required to comply with the law.

Part A. (30 minutes)

The New York Police Department is investigating a series of late-night burglaries in New York City. Detectives believe the same group is responsible for all three burglaries and may be planning another burglary in the near future. Based on patterns in timing and location, they identify several neighborhoods where a future incident is likely to occur within the next few days, though they do not have specific information about the timing of any planned incident. Investigators seek to identify potential suspects based on past activity and to monitor whether any of the same devices appear in those areas during the anticipated time window.

The detectives believe that suspects are coordinating their movements in real-time using CityTrack's in-app location-sharing feature, which allows users to send messages displaying their current location to other users. When the feature is turned on, the app will periodically send to a selected list of contacts an automatically generated location link to the user's current position. Users can also choose to send a message with their location (e.g. "I'm here!"). When sent, those messages and any embedded location data are transmitted to CityTrack's servers and delivered to recipients in real time.

CityTrack's system transmits user data to its servers as it is generated. Some data—such as messages and embedded location-sharing content—are delivered to recipients immediately, while other data—such as automatically generated GPS coordinates and device identifiers—are stored on CityTrack's servers for later use in providing services. CityTrack does not ordinarily monitor or review the contents of user messages except as necessary to deliver them to recipients.

As part of the investigation, detectives ask CityTrack to provide data relating to devices present within a two-block radius of the three burglary locations during two-hour windows before and after the burglaries. The request includes: (1) the contents of in-app messages in which users shared their location, including any accompanying text, location links, or coordinate data transmitted as part of those messages; and (2) automatically generated GPS coordinates and device identifiers associated with users' devices during those same time windows. In addition, detectives request that CityTrack provide access to any location-sharing messages and associated data transmitted in real time from devices during evening hours over the next several days in locations investigators have identified as likely targets based on prior incidents.

Rather than seeking a warrant or a wiretap order, detectives obtain a court order under § 2703(d) of the Stored Communications Act, based on a showing that the requested records are "relevant and material to an ongoing investigation." The order is issued ex parte and does not require a finding of probable cause. CityTrack provides the requested data. Using this information, the police identify a device that appeared near all three burglary locations and link it to Dana Lee, who is arrested.

You are a public defender assigned Lee's case. Write a memo analyzing: (1) whether the government's acquisition of the data complied with the Electronic Communications Privacy Act; and (2) whether the evidence is subject to suppression under federal statutory law or the Fourth Amendment.

Part B. (10 minutes)

Separately, Berlin police are investigating a similar pattern of burglaries. They informally request CityTrack to provide location data for devices present near the crime scenes during specified time windows. CityTrack provides the data without asking for user consent, relying on its internal determination that the police request is lawful. The data disclosed includes information about a large number of users, including many who are not suspected of any wrongdoing.

One affected user, Anna Weber, later learns that her location data was disclosed and files a complaint with the Berlin Data Protection Authority, arguing that CityTrack violated the General Data Protection Regulation.

Analyze whether CityTrack's disclosure complies with the GDPR.

Question 3. (60 minutes)

Following the invalidation of the Privacy Shield framework in *Schrems II*, the United States and the European Union adopted a new framework—the EU–U.S. Data Privacy Framework (DPF)—intended to address the concerns identified by the Court of Justice of the European Union.

Under the DPF, like Privacy Shield and Safe Harbor before it, U.S. companies may self-certify to a set of privacy obligations governing their handling of EU personal data. The DPF largely preserves the commercial obligations found in Privacy Shield, with only limited substantive changes. Instead, in response to the concerns identified by the Court of Justice of the European Union in *Schrems II*, the United States adopted new safeguards governing signals intelligence activities through Executive Order 14086. These safeguards are implemented through executive action rather than congressional statute and may be modified or rescinded by future administrations.

Under Executive Order 14086, U.S. intelligence agencies are required to limit signals intelligence activities to those that are necessary and proportionate to defined national security objectives. The Order identifies a set of legitimate objectives (such as counterterrorism and cybersecurity) and provides that intelligence collection should not be conducted for broader or undefined purposes. The Order also requires agencies to implement updated policies and procedures designed to ensure compliance with these limits, including enhanced oversight by internal compliance bodies and external oversight by entities such as the Civil Liberties Protection Officer (CLPO) within the Office of the Director of National Intelligence. These mechanisms are intended to ensure that surveillance activities are reviewed for compliance with the necessity and proportionality requirements.

In addition, Executive Order 14086 establishes a new redress mechanism for individuals in qualifying jurisdictions. Under this system, individuals may submit complaints through their national data protection authorities. Complaints are first investigated by the CLPO, who has the authority to determine whether a violation occurred and to order remedial measures. Decisions of the CLPO may be reviewed by a newly created Data Protection Review Court (DPRC). The DPRC is composed of individuals appointed from outside the U.S. government and is authorized to conduct independent review of complaints and impose binding remedies. Proceedings before both the CLPO and the DPRC are conducted in a non-adversarial and largely non-public manner, and complainants do not have direct access to evidence or participation in the proceedings.

While U.S. surveillance authorities, including Foreign Intelligence Surveillance Act § 702, remain in place, EO 14086 addresses this to some extent. It directs the Intelligence Community to "prioritize" targeted collection and limits bulk collection to situations in which "the information necessary to advance a validated intelligence priority cannot reasonably be obtained by targeted collection." It requires "reasonable methods and technical measures in order to limit the data collected to only what is necessary." It also limits the purposes for which such data may be used to specific categories, including terrorism, state-assisted espionage, development of weapons of mass destruction, cybersecurity threats, threats to U.S. personnel, and transnational criminal threats.

Critics, however, argue that the new framework does not meaningfully limit surveillance practices or provide sufficiently independent judicial redress.

(For the purpose of this exam question, assume the pre-April 2026 status quo with respect to Section 702 remains unchanged, despite the possibility that the law may expire or be rewritten before you take this exam.)

Part A. (35 minutes)

Assume that the DPF is challenged before the Court of Justice of the European Union ("*Schrems III*"). Do you think the DPF will survive judicial review? Why or why not?

In your answer, you should evaluate whether the changes introduced in the DPF and EO meaningfully address the key legal deficiencies the court found in *Schrems II*, including whether they provide protections that are "essentially equivalent" to those guaranteed under the General Data Protection Regulation. In doing so, consider differences between U.S. and EU approaches to surveillance and fundamental rights, and explain how they inform your answer.

Part B. (25 minutes)

Assume that U.S. surveillance authorities under Foreign Intelligence Surveillance Act Section 702 are allowed to sunset, and that this change is sufficient to address the concerns identified by the court in *Schrems II* regarding national security surveillance.

What are the strongest remaining arguments for and against a finding that the Data Privacy Framework provides an "essentially equivalent" level of protection under the General Data Protection Regulation? In your answer, you may want to consider issues including the role of administrative enforcement (e.g., by U.S. agencies), the availability of individual rights and remedies, the durability and independence of institutional safeguards, and differences between U.S. and EU approaches to regulatory enforcement.

* * * *

END

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Good luck with the rest of your exams.

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APPENDICES

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Appendix A: Selected Text of the General Data Protection Regulation

CHAPTER I: GENERAL PROVISIONS

Article 1: Subject-matter and objectives

1. This Regulation lays down rules relating to the protection of natural persons with regard to the processing of personal data and rules relating to the free movement of personal data.
2. This Regulation protects fundamental rights and freedoms of natural persons and in particular their right to the protection of personal data.
3. The free movement of personal data within the Union shall be neither restricted nor prohibited for reasons connected with the protection of natural persons with regard to the processing of personal data.

Article 2: Material scope

1. This Regulation applies to the processing of personal data wholly or partly by automated means and to the processing other than by automated means of personal data which form part of a filing system or are intended to form part of a filing system.
2. This Regulation does not apply to the processing of personal data:
   (a) in the course of an activity which falls outside the scope of Union law;
   (b) by the Member States when carrying out activities which fall within the scope of Chapter 2 of Title V of the TEU;
   (c) by a natural person in the course of a purely personal or household activity;
   (d) by competent authorities for the purposes of the prevention, investigation, detection or prosecution of criminal offences or the execution of criminal penalties, including the safeguarding against and the prevention of threats to public security.

. . .

Article 3: Territorial scope

1. This Regulation applies to the processing of personal data in the context of the activities of an establishment of a controller or a processor in the Union, regardless of whether the processing takes place in the Union or not.
2. This Regulation applies to the processing of personal data of data subjects who are in the Union by a controller or processor not established in the Union, where the processing activities are related to:
   (a) the offering of goods or services, irrespective of whether a payment of the data subject is required, to such data subjects in the Union; or
   (b) the monitoring of their behaviour as far as their behaviour takes place within the Union.

. . .

Article 4: Definitions

1. ‘personal data’ means any information relating to an identified or identifiable natural person (‘data subject’); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person;

2. ‘processing’ means any operation or set of operations which is performed on personal data or on sets of personal data, whether or not by automated means, such as collection, recording, organisation, structuring, storage, adaptation or alteration, retrieval, consultation, use, disclosure by transmission, dissemination or otherwise making available, alignment or combination, restriction, erasure or destruction;

. . .

4. ‘profiling’ means any form of automated processing of personal data consisting of the use of personal data to evaluate certain personal aspects relating to a natural person, in particular to analyse or predict aspects concerning that natural person’s performance at work, economic situation, health, personal preferences, interests, reliability, behaviour, location or movements;

. . .

7. ‘controller’ means the natural or legal person, public authority, agency or other body which, alone or jointly with others, determines the purposes and means of the processing of personal data; where the purposes and means of such processing are determined by Union or Member State law, the controller or the specific criteria for its nomination may be provided for by Union or Member State law;

8. ‘processor’ means a natural or legal person, public authority, agency or other body which processes personal data on behalf of the controller;

. . .

11. ‘consent’ of the data subject means any freely given, specific, informed and unambiguous indication of the data subject’s wishes by which he or she, by a statement or by a clear affirmative action, signifies agreement to the processing of personal data relating to him or her;

. . .

16. “main establishment” means:

    (a) as regards a controller with establishments in more than one Member State, the place of its central administration in the Union, unless the decisions on the purposes and means of the processing of personal data are taken in another establishment of the controller in the Union and the latter establishment has the power to have such decisions implemented, in which case the establishment having taken such decisions is to be considered to be the main establishment;

(b) as regards a processor with establishments in more than one Member State, the place of its central administration in the Union, or, if the processor has no central administration in the Union, the establishment of the processor in the Union where the main processing activities in the context of the activities of an establishment of the processor take place to the extent that the processor is subject to specific obligations under this Regulation[.]

. . .

20. 'binding corporate rules' means personal data protection policies which are adhered to by a controller or processor established on the territory of a Member State for transfers or a set of transfers of personal data to a controller or processor in one or more third countries within a group of undertakings, or group of enterprises engaged in a joint economic activity;

21. 'supervisory authority' means an independent public authority which is established by a Member State pursuant to Article 51;

. . .

CHAPTER II: PRINCIPLES

Article 5: Principles relating to processing of personal data

1. Personal data shall be:

(a) processed lawfully, fairly and in a transparent manner in relation to the data subject ('lawfulness, fairness and transparency');

(b) collected for specified, explicit and legitimate purposes and not further processed in a manner that is incompatible with those purposes; further processing for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes shall, in accordance with Article 89(1), not be considered to be incompatible with the initial purposes ('purpose limitation');

(c) adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed ('data minimisation');

(d) accurate and, where necessary, kept up to date; every reasonable step must be taken to ensure that personal data that are inaccurate, having regard to the purposes for which they are processed, are erased or rectified without delay ('accuracy');

(e) kept in a form which permits identification of data subjects for no longer than is necessary for the purposes for which the personal data are processed; personal data may be stored for longer periods insofar as the personal data will be processed solely for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes in accordance with Article 89(1) subject to implementation of the appropriate technical and organisational measures required by this Regulation in order to safeguard the rights and freedoms of the data subject ('storage limitation');

(f) processed in a manner that ensures appropriate security of the personal data, including protection against unauthorised or unlawful processing and against accidental loss,

destruction or damage, using appropriate technical or organisational measures ('integrity and confidentiality').

2. The controller shall be responsible for, and be able to demonstrate compliance with, paragraph 1 ('accountability').

Article 6: Lawfulness of processing

1. Processing shall be lawful only if and to the extent that at least one of the following applies:

   (a) the data subject has given consent to the processing of his or her personal data for one or more specific purposes;

   (b) processing is necessary for the performance of a contract to which the data subject is party or in order to take steps at the request of the data subject prior to entering into a contract;

   (c) processing is necessary for compliance with a legal obligation to which the controller is subject;

   (d) processing is necessary in order to protect the vital interests of the data subject or of another natural person;

   (e) processing is necessary for the performance of a task carried out in the public interest or in the exercise of official authority vested in the controller;

   (f) processing is necessary for the purposes of the legitimate interests pursued by the controller or by a third party, except where such interests are overridden by the interests or fundamental rights and freedoms of the data subject which require protection of personal data, in particular where the data subject is a child.

   Point (f) of the first subparagraph shall not apply to processing carried out by public authorities in the performance of their tasks.

. . .

4. Where the processing for a purpose other than that for which the personal data have been collected is not based on the data subject's consent or on a Union or Member State law which constitutes a necessary and proportionate measure in a democratic society to safeguard the objectives referred to in Article 23(1), the controller shall, in order to ascertain whether processing for another purpose is compatible with the purpose for which the personal data are initially collected, take into account, inter alia:

   (a) any link between the purposes for which the personal data have been collected and the purposes of the intended further processing;

   (b) the context in which the personal data have been collected, in particular regarding the relationship between data subjects and the controller;

(c) the nature of the personal data, in particular whether special categories of personal data are processed, pursuant to Article 9, or whether personal data related to criminal convictions and offences are processed, pursuant to Article 10;

(d) the possible consequences of the intended further processing for data subjects;

(e) the existence of appropriate safeguards, which may include encryption or pseudonymisation.

Article 7: Conditions for consent

1. Where processing is based on consent, the controller shall be able to demonstrate that the data subject has consented to processing of his or her personal data.

2. If the data subject's consent is given in the context of a written declaration which also concerns other matters, the request for consent shall be presented in a manner which is clearly distinguishable from the other matters, in an intelligible and easily accessible form, using clear and plain language. Any part of such a declaration which constitutes an infringement of this Regulation shall not be binding.

3. The data subject shall have the right to withdraw his or her consent at any time. The withdrawal of consent shall not affect the lawfulness of processing based on consent before its withdrawal. Prior to giving consent, the data subject shall be informed thereof. It shall be as easy to withdraw as to give consent.

4. When assessing whether consent is freely given, utmost account shall be taken of whether, *inter alia*, the performance of a contract, including the provision of a service, is conditional on consent to the processing of personal data that is not necessary for the performance of that contract.

Article 9: Processing of special categories of personal data

1. Processing of personal data revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade union membership, and the processing of genetic data, biometric data for the purpose of uniquely identifying a natural person, data concerning health or data concerning a natural person's sex life or sexual orientation shall be prohibited.

2. Paragraph 1 shall not apply if one of the following applies:

(a) the data subject has given explicit consent to the processing of those personal data for one or more specified purposes, except where Union or Member State law provide that the prohibition referred to in paragraph 1 may not be lifted by the data subject;

(b) processing is necessary for the purposes of carrying out the obligations and exercising specific rights of the controller or of the data subject in the field of employment and social security and social protection law in so far as it is authorised by Union or Member State

law or a collective agreement pursuant to Member State law providing for appropriate safeguards for the fundamental rights and the interests of the data subject;

(c) processing is necessary to protect the vital interests of the data subject or of another natural person where the data subject is physically or legally incapable of giving consent;

(d) processing is carried out in the course of its legitimate activities with appropriate safeguards by a foundation, association or any other not-for-profit body with a political, philosophical, religious or trade union aim and on condition that the processing relates solely to the members or to former members of the body or to persons who have regular contact with it in connection with its purposes and that the personal data are not disclosed outside that body without the consent of the data subjects;

(e) processing relates to personal data which are manifestly made public by the data subject;

(f) processing is necessary for the establishment, exercise or defence of legal claims or whenever courts are acting in their judicial capacity;

(g) processing is necessary for reasons of substantial public interest, on the basis of Union or Member State law which shall be proportionate to the aim pursued, respect the essence of the right to data protection and provide for suitable and specific measures to safeguard the fundamental rights and the interests of the data subject;

. . .

4. Member States may maintain or introduce further conditions, including limitations, with regard to the processing of genetic data, biometric data or data concerning health.

CHAPTER III: RIGHTS OF THE DATA SUBJECT

Article 12: Transparent information, communication and modalities for the exercise of the rights of the data subject

1. The controller shall take appropriate measures to provide any information referred to in Articles 13 and 14 and any communication under Articles 15 to 22 and 34 relating to processing to the data subject in a concise, transparent, intelligible and easily accessible form, using clear and plain language, in particular for any information addressed specifically to a child. The information shall be provided in writing, or by other means, including, where appropriate, by electronic means. When requested by the data subject, the information may be provided orally, provided that the identity of the data subject is proven by other means.

. . .

Article 13: Information to be provided where personal data are collected from the data subject

1. Where personal data relating to a data subject are collected from the data subject, the controller shall, at the time when personal data are obtained, provide the data subject with all of the following information:

(a) the identity and the contact details of the controller and, where applicable, of the controller's representative;

(b) the contact details of the data protection officer, where applicable;

(c) the purposes of the processing for which the personal data are intended as well as the legal basis for the processing;

(d) where the processing is based on point (f) of Article 6(1), the legitimate interests pursued by the controller or by a third party;

(e) the recipients or categories of recipients of the personal data, if any;

(f) where applicable, the fact that the controller intends to transfer personal data to a third country or international organisation and the existence or absence of an adequacy decision by the Commission, or in the case of transfers referred to in Article 46 or 47, or the second subparagraph of Article 49(1), reference to the appropriate or suitable safeguards and the means by which to obtain a copy of them or where they have been made available.

2. In addition to the information referred to in paragraph 1, the controller shall, at the time when personal data are obtained, provide the data subject with the following further information necessary to ensure fair and transparent processing:

(a) the period for which the personal data will be stored, or if that is not possible, the criteria used to determine that period;

(b) the existence of the right to request from the controller access to and rectification or erasure of personal data or restriction of processing concerning the data subject or to object to processing as well as the right to data portability;

(c) where the processing is based on point (a) of Article 6(1) or point (a) of Article 9(2), the existence of the right to withdraw consent at any time, without affecting the lawfulness of processing based on consent before its withdrawal;

(d) the right to lodge a complaint with a supervisory authority;

(e) whether the provision of personal data is a statutory or contractual requirement, or a requirement necessary to enter into a contract, as well as whether the data subject is obliged to provide the personal data and of the possible consequences of failure to provide such data;

(f) the existence of automated decision-making, including profiling, referred to in Article 22(1) and (4) and, at least in those cases, meaningful information about the logic involved, as well as the significance and the envisaged consequences of such processing for the data subject.

3. Where the controller intends to further process the personal data for a purpose other than that for which the personal data were collected, the controller shall provide the data subject prior to that further processing with information on that other purpose and with any relevant further information as referred to in paragraph 2.

4. Paragraphs 1, 2 and 3 shall not apply where and insofar as the data subject already has the information.

. . .

Article 14: Information to be provided where personal data have not been obtained from the data subject

1. Where personal data have not been obtained from the data subject, the controller shall provide the data subject with the following information:

   (a) the identity and the contact details of the controller and, where applicable, of the controller's representative;

   (b) the contact details of the data protection officer, where applicable;

   (c) the purposes of the processing for which the personal data are intended as well as the legal basis for the processing;

   (d) the categories of personal data concerned;

   (e) the recipients or categories of recipients of the personal data, if any;

   (f) where applicable, that the controller intends to transfer personal data to a recipient in a third country or international organisation and the existence or absence of an adequacy decision by the Commission, or in the case of transfers referred to in Article 46 or 47, or the second subparagraph of Article 49(1), reference to the appropriate or suitable safeguards and the means to obtain a copy of them or where they have been made available.

2. In addition to the information referred to in paragraph 1, the controller shall provide the data subject with the following information necessary to ensure fair and transparent processing in respect of the data subject:

   (a) the period for which the personal data will be stored, or if that is not possible, the criteria used to determine that period;

   (b) where the processing is based on point (f) of Article 6(1), the legitimate interests pursued by the controller or by a third party;

   (c) the existence of the right to request from the controller access to and rectification or erasure of personal data or restriction of processing concerning the data subject and to object to processing as well as the right to data portability;

   (d) where processing is based on point (a) of Article 6(1) or point (a) of Article 9(2), the existence of the right to withdraw consent at any time, without affecting the lawfulness of processing based on consent before its withdrawal;

   (e) the right to lodge a complaint with a supervisory authority;

   (f) from which source the personal data originate, and if applicable, whether it came from publicly accessible sources;

(g) the existence of automated decision-making, including profiling, referred to in Article 22(1) and (4) and, at least in those cases, meaningful information about the logic involved, as well as the significance and the envisaged consequences of such processing for the data subject.

3. The controller shall provide the information referred to in paragraphs 1 and 2:

(a) within a reasonable period after obtaining the personal data, but at the latest within one month, having regard to the specific circumstances in which the personal data are processed;

(b) if the personal data are to be used for communication with the data subject, at the latest at the time of the first communication to that data subject; or

(c) if a disclosure to another recipient is envisaged, at the latest when the personal data are first disclosed.

. . .

Article 15: Right of access by the data subject

1. The data subject shall have the right to obtain from the controller confirmation as to whether or not personal data concerning him or her are being processed, and, where that is the case, access to the personal data and the following information:

(a) the purposes of the processing;

(b) the categories of personal data concerned;

(c) the recipients or categories of recipient to whom the personal data have been or will be disclosed, in particular recipients in third countries or international organisations;

(d) where possible, the envisaged period for which the personal data will be stored, or, if not possible, the criteria used to determine that period;

(e) the existence of the right to request from the controller rectification or erasure of personal data or restriction of processing of personal data concerning the data subject or to object to such processing;

(f) the right to lodge a complaint with a supervisory authority;

(g) where the personal data are not collected from the data subject, any available information as to their source;

(h) the existence of automated decision-making, including profiling, referred to in Article 22(1) and (4) and, at least in those cases, meaningful information about the logic involved, as well as the significance and the envisaged consequences of such processing for the data subject.

2. Where personal data are transferred to a third country or to an international organisation, the data subject shall have the right to be informed of the appropriate safeguards pursuant to Article 46 relating to the transfer.

. . .

Article 16: Right to rectification

The data subject shall have the right to obtain from the controller without undue delay the rectification of inaccurate personal data concerning him or her. Taking into account the purposes of the processing, the data subject shall have the right to have incomplete personal data completed, including by means of providing a supplementary statement.

Article 17: Right to erasure ("right to be forgotten")

1. The data subject shall have the right to obtain from the controller the erasure of personal data concerning him or her without undue delay and the controller shall have the obligation to erase personal data without undue delay where one of the following grounds applies:

   (a) the personal data are no longer necessary in relation to the purposes for which they were collected or otherwise processed;

   (b) the data subject withdraws consent on which the processing is based according to point (a) of Article 6(1), or point (a) of Article 9(2), and where there is no other legal ground for the processing;

   (c) the data subject objects to the processing pursuant to Article 21(1) and there are no overriding legitimate grounds for the processing, or the data subject objects to the processing pursuant to Article 21(2);

   (d) the personal data have been unlawfully processed . . .

   . . .

2. Where the controller has made the personal data public and is obliged pursuant to paragraph 1 to erase the personal data, the controller, taking account of available technology and the cost of implementation, shall take reasonable steps, including technical measures, to inform controllers which are processing the personal data that the data subject has requested the erasure by such controllers of any links to, or copy or replication of, those personal data.

3. Paragraphs 1 and 2 shall not apply to the extent that processing is necessary:

   (a) for exercising the right of freedom of expression and information;

   (b) for compliance with a legal obligation which requires processing by Union or Member State law to which the controller is subject or for the performance of a task carried out in the public interest or in the exercise of official authority vested in the controller;

[The remainder of Article 17(3) refers back to the narrow exceptions listed in Article 9(2) and 9(3), which are also exceptions to the right of erasure.]

. . .

Article 20: Right to data portability

1. The data subject shall have the right to receive the personal data concerning him or her, which he or she has provided to a controller, in a structured, commonly used and machine-readable format and have the right to transmit those data to another controller without hindrance from the controller to which the personal data have been provided, where:

   (a) the processing is based on consent pursuant to point (a) of Article 6(1) or point (a) of Article 9(2) or on a contract pursuant to point (b) of Article 6(1); and

   (b) the processing is carried out by automated means.

2. In exercising his or her right to data portability pursuant to paragraph 1, the data subject shall have the right to have the personal data transmitted directly from one controller to another, where technically feasible.

. . .

Article 21: Right to object

1. The data subject shall have the right to object, on grounds relating to his or her particular situation, at any time to processing of personal data concerning him or her which is based on point (e) or (f) of Article 6(1), including profiling based on those provisions. The controller shall no longer process the personal data unless the controller demonstrates compelling legitimate grounds for the processing which override the interests, rights and freedoms of the data subject or for the establishment, exercise or defence of legal claims.
2. Where personal data are processed for direct marketing purposes, the data subject shall have the right to object at any time to processing of personal data concerning him or her for such marketing, which includes profiling to the extent that it is related to such direct marketing.
3. Where the data subject objects to processing for direct marketing purposes, the personal data shall no longer be processed for such purposes.
4. At the latest at the time of the first communication with the data subject, the right referred to in paragraphs 1 and 2 shall be explicitly brought to the attention of the data subject and shall be presented clearly and separately from any other information.

Article 22: Automated individual decision-making, including profiling

1. The data subject shall have the right not to be subject to a decision based solely on automated processing, including profiling, which produces legal effects concerning him or her or similarly significantly affects him or her.
2. Paragraph 1 shall not apply if the decision:

   (a) is necessary for entering into, or performance of, a contract between the data subject and a data controller;

(b) is authorised by Union or Member State law to which the controller is subject and which also lays down suitable measures to safeguard the data subject's rights and freedoms and legitimate interests; or

(c) is based on the data subject's explicit consent.

3. In the cases referred to in points (a) and (c) of paragraph 2, the data controller shall implement suitable measures to safeguard the data subject's rights and freedoms and legitimate interests, at least the right to obtain human intervention on the part of the controller, to express his or her point of view and to contest the decision.

4. Decisions referred to in paragraph 2 shall not be based on special categories of personal data referred to in Article 9(1), unless point (a) or (g) of Article 9(2) applies and suitable measures to safeguard the data subject's rights and freedoms and legitimate interests are in place.

CHAPTER IV: CONTROLLER AND PROCESSOR

Article 24: Responsibility of the controller

1. Taking into account the nature, scope, context and purposes of processing as well as the risks of varying likelihood and severity for the rights and freedoms of natural persons, the controller shall implement appropriate technical and organisational measures to ensure and to be able to demonstrate that processing is performed in accordance with this Regulation. Those measures shall be reviewed and updated where necessary.

. . .

Article 25: Data protection by design and by default

1. Taking into account the state of the art, the cost of implementation and the nature, scope, context and purposes of processing as well as the risks of varying likelihood and severity for rights and freedoms of natural persons posed by the processing, the controller shall, both at the time of the determination of the means for processing and at the time of the processing itself, implement appropriate technical and organisational measures, such as pseudonymisation, which are designed to implement data-protection principles, such as data minimisation, in an effective manner and to integrate the necessary safeguards into the processing in order to meet the requirements of this Regulation and protect the rights of data subjects.

2. The controller shall implement appropriate technical and organisational measures for ensuring that, by default, only personal data which are necessary for each specific purpose of the processing are processed. That obligation applies to the amount of personal data collected, the extent of their processing, the period of their storage and their accessibility. In particular, such measures shall ensure that by default personal data are not made accessible without the individual's intervention to an indefinite number of natural persons.

. . .

Article 35: Data protection impact assessment

1. Where a type of processing in particular using new technologies, and taking into account the nature, scope, context and purposes of the processing, is likely to result in a high risk to the rights and freedoms of natural persons, the controller shall, prior to the processing, carry out an assessment of the impact of the envisaged processing operations on the protection of personal data. A single assessment may address a set of similar processing operations that present similar high risks.

2. The controller shall seek the advice of the data protection officer, where designated, when carrying out a data protection impact assessment.

3. A data protection impact assessment referred to in paragraph 1 shall in particular be required in the case of:

   (a) a systematic and extensive evaluation of personal aspects relating to natural persons which is based on automated processing, including profiling, and on which decisions are based that produce legal effects concerning the natural person or similarly significantly affect the natural person;

   (b) processing on a large scale of special categories of data referred to in Article 9(1), or of personal data relating to criminal convictions and offences referred to in Article 10; or

   (c) a systematic monitoring of a publicly accessible area on a large scale.

. . .

7. The assessment shall contain at least:

   (a) a systematic description of the envisaged processing operations and the purposes of the processing, including, where applicable, the legitimate interest pursued by the controller;

   (b) an assessment of the necessity and proportionality of the processing operations in relation to the purposes;

   (c) an assessment of the risks to the rights and freedoms of data subjects referred to in paragraph 1; and

   (d) the measures envisaged to address the risks, including safeguards, security measures and mechanisms to ensure the protection of personal data and to demonstrate compliance with this Regulation taking into account the rights and legitimate interests of data subjects and other persons concerned.

. . .

9. Where appropriate, the controller shall seek the views of data subjects or their representatives on the intended processing, without prejudice to the protection of commercial or public interests or the security of processing operations.

. . .

Article 44: General principle for transfers

Any transfer of personal data which are undergoing processing or are intended for processing after transfer to a third country or to an international organisation shall take place only if, subject to the other provisions of this Regulation, the conditions laid down in this Chapter are complied with by the controller and processor, including for onward transfers of personal data from the third country or an international organisation to another third country or to another international organisation. All provisions in this Chapter shall be applied in order to ensure that the level of protection of natural persons guaranteed by this Regulation is not undermined.

Article 45: Transfers on the basis of an adequacy decision

1. A transfer of personal data to a third country or an international organisation may take place where the Commission has decided that the third country, a territory or one or more specified sectors within that third country, or the international organisation in question ensures an adequate level of protection. Such a transfer shall not require any specific authorisation.
2. When assessing the adequacy of the level of protection, the Commission shall, in particular, take account of the following elements:
   (a) the rule of law, respect for human rights and fundamental freedoms, relevant legislation, both general and sectoral, including concerning public security, defence, national security and criminal law and the access of public authorities to personal data, as well as the implementation of such legislation, data protection rules, professional rules and security measures, including rules for the onward transfer of personal data to another third country or international organisation which are complied with in that country or international organisation, case-law, as well as effective and enforceable data subject rights and effective administrative and judicial redress for the data subjects whose personal data are being transferred;
   (b) the existence and effective functioning of one or more independent supervisory authorities in the third country or to which an international organisation is subject, with responsibility for ensuring and enforcing compliance with the data protection rules, including adequate enforcement powers, for assisting and advising the data subjects in exercising their rights and for cooperation with the supervisory authorities of the Member States; and
   (c) the international commitments the third country or international organisation concerned has entered into, or other obligations arising from legally binding conventions or instruments as well as from its participation in multilateral or regional systems, in particular in relation to the protection of personal data.
3. The Commission, after assessing the adequacy of the level of protection, may decide, by means of implementing act, that a third country, a territory or one or more specified sectors within a third country, or an international organisation ensures an adequate level of protection within the meaning of paragraph 2 of this Article. The implementing act shall provide for a mechanism for

a periodic review, at least every four years, which shall take into account all relevant developments in the third country or international organisation. The implementing act shall specify its territorial and sectoral application and, where applicable, identify the supervisory authority or authorities referred to in point (b) of paragraph 2 of this Article. . . .

. . .

Article 46: Transfers subject to appropriate safeguards

1. In the absence of a decision pursuant to Article 45(3), a controller or processor may transfer personal data to a third country or an international organisation only if the controller or processor has provided appropriate safeguards, and on condition that enforceable data subject rights and effective legal remedies for data subjects are available.

2. The appropriate safeguards referred to in paragraph 1 may be provided for, without requiring any specific authorisation from a supervisory authority, by:

   (a) a legally binding and enforceable instrument between public authorities or bodies;

   (b) binding corporate rules in accordance with Article 47;

   (c) standard data protection clauses adopted by the Commission . . . ;

   (d) standard data protection clauses adopted by a supervisory authority . . . ;

   (e) an approved code of conduct . . . together with binding and enforceable commitments of the controller or processor in the third country to apply the appropriate safeguards, including as regards data subjects' rights; or

   (f) an approved certification mechanism pursuant to Article 42 together with binding and enforceable commitments of the controller or processor in the third country to apply the appropriate safeguards, including as regards data subjects' rights.

3. Subject to the authorisation from the competent supervisory authority, the appropriate safeguards referred to in paragraph 1 may also be provided for, in particular, by:

   (a) contractual clauses between the controller or processor and the controller, processor or the recipient of the personal data in the third country or international organisation; or

   (b) provisions to be inserted into administrative arrangements between public authorities or bodies which include enforceable and effective data subject rights.

. . .

Article 47: Binding corporate rules

1. The competent supervisory authority shall approve binding corporate rules in accordance with the consistency mechanism set out in Article 63, provided that they:

   (a) are legally binding and apply to and are enforced by every member concerned of the group of undertakings, or group of enterprises engaged in a joint economic activity, including their employees;

(b) expressly confer enforceable rights on data subjects with regard to the processing of their personal data; and

(c) fulfil the requirements laid down in paragraph 2.

2. The binding corporate rules referred to in paragraph 1 shall specify at least:

(a) the structure and contact details of the group of undertakings, or group of enterprises engaged in a joint economic activity and of each of its members;

(b) the data transfers or set of transfers, including the categories of personal data, the type of processing and its purposes, the type of data subjects affected and the identification of the third country or countries in question;

(c) their legally binding nature, both internally and externally;

(d) the application of the general data protection principles, in particular purpose limitation, data minimisation, limited storage periods, data quality, data protection by design and by default, legal basis for processing, processing of special categories of personal data, measures to ensure data security, and the requirements in respect of onward transfers to bodies not bound by the binding corporate rules;

(e) the rights of data subjects in regard to processing and the means to exercise those rights, including the right not to be subject to decisions based solely on automated processing, including profiling in accordance with Article 22, the right to lodge a complaint with the competent supervisory authority and before the competent courts of the Member States in accordance with Article 79, and to obtain redress and, where appropriate, compensation for a breach of the binding corporate rules;

(f) the acceptance by the controller or processor established on the territory of a Member State of liability for any breaches of the binding corporate rules by any member concerned not established in the Union; the controller or the processor shall be exempt from that liability, in whole or in part, only if it proves that that member is not responsible for the event giving rise to the damage;

. . .

(i) the complaint procedures;

. . .

(k) the mechanisms for reporting and recording changes to the rules and reporting those changes to the supervisory authority;

. . .

Recital 4 [Related to Article 1]

The processing of personal data should be designed to serve mankind. The right to the protection of personal data is not an absolute right; it must be considered in relation to its function in society and be balanced against other fundamental rights, in accordance with the principle of proportionality.

This Regulation respects all fundamental rights and observes the freedoms and principles recognised in the Charter as enshrined in the Treaties, in particular the respect for private and family life, home and communications, the protection of personal data, freedom of thought, conscience and religion, freedom of expression and information, freedom to conduct a business, the right to an effective remedy and to a fair trial, and cultural, religious and linguistic diversity.

Recital 32 [Related to Article 7]

Consent should be given by a clear affirmative act establishing a freely given, specific, informed and unambiguous indication of the data subject's agreement to the processing of personal data relating to him or her, such as by a written statement, including by electronic means, or an oral statement. This could include ticking a box when visiting an internet website, choosing technical settings for information society services or another statement or conduct which clearly indicates in this context the data subject's acceptance of the proposed processing of his or her personal data. Silence, pre-ticked boxes or inactivity should not therefore constitute consent. Consent should cover all processing activities carried out for the same purpose or purposes. When the processing has multiple purposes, consent should be given for all of them. If the data subject's consent is to be given following a request by electronic means, the request must be clear, concise and not unnecessarily disruptive to the use of the service for which it is provided.

Recital 39 [Related to Article 5, 6]

Any processing of personal data should be lawful and fair. It should be transparent to natural persons that personal data concerning them are collected, used, consulted or otherwise processed and to what extent the personal data are or will be processed. The principle of transparency requires that any information and communication relating to the processing of those personal data be easily accessible and easy to understand, and that clear and plain language be used. That principle concerns, in particular, information to the data subjects on the identity of the controller and the purposes of the processing and further information to ensure fair and transparent processing in respect of the natural persons concerned and their right to obtain confirmation and communication of personal data concerning them which are being processed. Natural persons should be made aware of risks, rules, safeguards and rights in relation to the processing of personal data and how to exercise their rights in relation to such processing. In particular, the specific purposes for which personal data are processed should be explicit and legitimate and determined at the time of the collection of the personal data. The personal data should be adequate, relevant and limited to what is necessary for the purposes for which they are processed. This requires, in particular, ensuring that the period for which the personal data are stored is limited to a strict minimum. Personal data should be processed only if the purpose of the processing could not reasonably be fulfilled by other means. In order to ensure that the personal data are not kept longer than necessary, time limits should be established by the controller for erasure or for a periodic review. Every reasonable step should be taken to ensure that personal data which are inaccurate are rectified or deleted. Personal data should be processed in a manner that ensures appropriate security and confidentiality of the personal data, including for preventing unauthorised access to or use of personal data and the equipment used for the processing.

Recital 40 [Related to Article 6]

In order for processing to be lawful, personal data should be processed on the basis of the consent of the data subject concerned or some other legitimate basis, laid down by law, either in this Regulation or in other Union or Member State law as referred to in this Regulation, including the necessity for compliance with the legal obligation to which the controller is subject or the necessity for the performance of a contract to which the data subject is party or in order to take steps at the request of the data subject prior to entering into a contract.

Recital 43 [Related to Article 6, 7]

In order to ensure that consent is freely given, consent should not provide a valid legal ground for the processing of personal data in a specific case where there is a clear imbalance between the data subject and the controller, in particular where the controller is a public authority and it is therefore unlikely that consent was freely given in all the circumstances of that specific situation. Consent is presumed not to be freely given if it does not allow separate consent to be given to different personal data processing operations despite it being appropriate in the individual case, or if the performance of a contract, including the provision of a service, is dependent on the consent despite such consent not being necessary for such performance.

Recital 46 [Related to Article 6, 9]

The processing of personal data should also be regarded to be lawful where it is necessary to protect an interest which is essential for the life of the data subject or that of another natural person. Processing of personal data based on the vital interest of another natural person should in principle take place only where the processing cannot be manifestly based on another legal basis. Some types of processing may serve both important grounds of public interest and the vital interests of the data subject as for instance when processing is necessary for humanitarian purposes, including for monitoring epidemics and their spread or in situations of humanitarian emergencies, in particular in situations of natural and man-made disasters.

Recital 47 [Related to Article 6]

The legitimate interests of a controller, including those of a controller to which the personal data may be disclosed, or of a third party, may provide a legal basis for processing, provided that the interests or the fundamental rights and freedoms of the data subject are not overriding, taking into consideration the reasonable expectations of data subjects based on their relationship with the controller. Such legitimate interest could exist for example where there is a relevant and appropriate relationship between the data subject and the controller in situations such as where the data subject is a client or in the service of the controller. At any rate the existence of a legitimate interest would need careful assessment including whether a data subject can reasonably expect at the time and in the context of the collection of the personal data that processing for that purpose may take place. The interests and fundamental rights of the data subject could in particular override the interest of the data controller where personal data are processed in circumstances where data subjects do not reasonably expect further processing. Given that it is for the legislator to provide by law for the legal basis for public authorities to process personal data, that legal basis should not apply to the processing by

public authorities in the performance of their tasks. The processing of personal data strictly necessary for the purposes of preventing fraud also constitutes a legitimate interest of the data controller concerned. The processing of personal data for direct marketing purposes may be regarded as carried out for a legitimate interest.

Recital 58 [Related to Article 12]

The principle of transparency requires that any information addressed to the public or to the data subject be concise, easily accessible and easy to understand, and that clear and plain language and, additionally, where appropriate, visualisation be used. Such information could be provided in electronic form, for example, when addressed to the public, through a website. This is of particular relevance in situations where the proliferation of actors and the technological complexity of practice make it difficult for the data subject to know and understand whether, by whom and for what purpose personal data relating to him or her are being collected, such as in the case of online advertising. Given that children merit specific protection, any information and communication, where processing is addressed to a child, should be in such a clear and plain language that the child can easily understand.

Recital 60 [Related to Article 13, 14]

The principles of fair and transparent processing require that the data subject be informed of the existence of the processing operation and its purposes. The controller should provide the data subject with any further information necessary to ensure fair and transparent processing taking into account the specific circumstances and context in which the personal data are processed. Furthermore, the data subject should be informed of the existence of profiling and the consequences of such profiling. Where the personal data are collected from the data subject, the data subject should also be informed whether he or she is obliged to provide the personal data and of the consequences, where he or she does not provide such data. That information may be provided in combination with standardised icons in order to give in an easily visible, intelligible and clearly legible manner, a meaningful overview of the intended processing. Where the icons are presented electronically, they should be machine-readable.

Recital 63 [Related to Article 15]

A data subject should have the right of access to personal data which have been collected concerning him or her, and to exercise that right easily and at reasonable intervals, in order to be aware of, and verify, the lawfulness of the processing. This includes the right for data subjects to have access to data concerning their health, for example the data in their medical records containing information such as diagnoses, examination results, assessments by treating physicians and any treatment or interventions provided. Every data subject should therefore have the right to know and obtain communication in particular with regard to the purposes for which the personal data are processed, where possible the period for which the personal data are processed, the recipients of the personal data, the logic involved in any automatic personal data processing and, at least when based on profiling, the consequences of such processing. Where possible, the controller should be able to provide remote access to a secure system which would provide the data subject with direct access to

his or her personal data. That right should not adversely affect the rights or freedoms of others, including trade secrets or intellectual property and in particular the copyright protecting the software. However, the result of those considerations should not be a refusal to provide all information to the data subject. Where the controller processes a large quantity of information concerning the data subject, the controller should be able to request that, before the information is delivered, the data subject specify the information or processing activities to which the request relates.

Recital 71 [Related to Article 22]

The data subject should have the right not to be subject to a decision, which may include a measure, evaluating personal aspects relating to him or her which is based solely on automated processing and which produces legal effects concerning him or her or similarly significantly affects him or her, such as automatic refusal of an online credit application or e-recruiting practices without any human intervention. Such processing includes 'profiling' that consists of any form of automated processing of personal data evaluating the personal aspects relating to a natural person, in particular to analyse or predict aspects concerning the data subject's performance at work, economic situation, health, personal preferences or interests, reliability or behaviour, location or movements, where it produces legal effects concerning him or her or similarly significantly affects him or her. However, decision-making based on such processing, including profiling, should be allowed where expressly authorised by Union or Member State law to which the controller is subject, including for fraud and tax-evasion monitoring and prevention purposes conducted in accordance with the regulations, standards and recommendations of Union institutions or national oversight bodies and to ensure the security and reliability of a service provided by the controller, or necessary for the entering or performance of a contract between the data subject and a controller, or when the data subject has given his or her explicit consent. In any case, such processing should be subject to suitable safeguards, which should include specific information to the data subject and the right to obtain human intervention, to express his or her point of view, to obtain an explanation of the decision reached after such assessment and to challenge the decision. Such measure should not concern a child.

In order to ensure fair and transparent processing in respect of the data subject, taking into account the specific circumstances and context in which the personal data are processed, the controller should use appropriate mathematical or statistical procedures for the profiling, implement technical and organisational measures appropriate to ensure, in particular, that factors which result in inaccuracies in personal data are corrected and the risk of errors is minimised, secure personal data in a manner that takes account of the potential risks involved for the interests and rights of the data subject, and prevent, inter alia, discriminatory effects on natural persons on the basis of racial or ethnic origin, political opinion, religion or beliefs, trade union membership, genetic or health status or sexual orientation, or processing that results in measures having such an effect. Automated decision-making and profiling based on special categories of personal data should be allowed only under specific conditions.

Recital 101 [Related to Article 44]

Flows of personal data to and from countries outside the Union and international organisations are necessary for the expansion of international trade and international cooperation. The increase in such

flows has raised new challenges and concerns with regard to the protection of personal data. However, when personal data are transferred from the Union to controllers, processors or other recipients in third countries or to international organisations, the level of protection of natural persons ensured in the Union by this Regulation should not be undermined, including in cases of onward transfers of personal data from the third country or international organisation to controllers, processors in the same or another third country or international organisation. In any event, transfers to third countries and international organisations may only be carried out in full compliance with this Regulation. A transfer could take place only if, subject to the other provisions of this Regulation, the conditions laid down in the provisions of this Regulation relating to the transfer of personal data to third countries or international organisations are complied with by the controller or processor.

Recital 104 [Related to Article 45]

In line with the fundamental values on which the Union is founded, in particular the protection of human rights, the Commission should, in its assessment of the third country, or of a territory or specified sector within a third country, take into account how a particular third country respects the rule of law, access to justice as well as international human rights norms and standards and its general and sectoral law, including legislation concerning public security, defence and national security as well as public order and criminal law. The adoption of an adequacy decision with regard to a territory or a specified sector in a third country should take into account clear and objective criteria, such as specific processing activities and the scope of applicable legal standards and legislation in force in the third country. The third country should offer guarantees ensuring an adequate level of protection essentially equivalent to that ensured within the Union, in particular where personal data are processed in one or several specific sectors. In particular, the third country should ensure effective independent data protection supervision and should provide for cooperation mechanisms with the Member States' data protection authorities, and the data subjects should be provided with effective and enforceable rights and effective administrative and judicial redress.

Recital 108 [Related to Article 46]

In the absence of an adequacy decision, the controller or processor should take measures to compensate for the lack of data protection in a third country by way of appropriate safeguards for the data subject. Such appropriate safeguards may consist of making use of binding corporate rules, standard data protection clauses adopted by the Commission, standard data protection clauses adopted by a supervisory authority or contractual clauses authorised by a supervisory authority. Those safeguards should ensure compliance with data protection requirements and the rights of the data subjects appropriate to processing within the Union, including the availability of enforceable data subject rights and of effective legal remedies, including to obtain effective administrative or judicial redress and to claim compensation, in the Union or in a third country. They should relate in particular to compliance with the general principles relating to personal data processing, the principles of data protection by design and by default. Transfers may also be carried out by public authorities or bodies with public authorities or bodies in third countries or with international organisations with corresponding duties or functions, including on the basis of provisions to be inserted into administrative arrangements, such as a memorandum of understanding, providing for

enforceable and effective rights for data subjects. Authorisation by the competent supervisory authority should be obtained when the safeguards are provided for in administrative arrangements that are not legally binding.

Appendix B: Selected Text of the Electronic Communications Privacy Act

Title I

§ 2510 - Definitions

(1) "wire communication" means any aural transfer made in whole or in part through the use of facilities for the transmission of communications by the aid of wire, cable, or other like connection between the point of origin and the point of reception (including the use of such connection in a switching station) furnished or operated by any person engaged in providing or operating such facilities for the transmission of interstate or foreign communications or communications affecting interstate or foreign commerce;

(2) "oral communication" means any oral communication uttered by a person exhibiting an expectation that such communication is not subject to interception under circumstances justifying such expectation, but such term does not include any electronic communication;

(4) "intercept" means the aural or other acquisition of the contents of any wire, electronic, or oral communication through the use of any electronic, mechanical, or other device.

. . .

(8) "contents", when used with respect to any wire, oral, or electronic communication, includes any information concerning the substance, purport, or meaning of that communication;

. . .

(11) "aggrieved person" means a person who was a party to any intercepted wire, oral, or electronic communication or a person against whom the interception was directed;

(12) "electronic communication" means any transfer of signs, signals, writing, images, sounds, data, or intelligence of any nature transmitted in whole or in part by a wire, radio, electromagnetic, photoelectronic or photooptical system that affects interstate or foreign commerce, but does not include—

(A) any wire or oral communication; . . .

(C) any communication from a tracking device [defined elsewhere as "an electronic or mechanical device which permits the tracking of the movement of a person or object."] . . .

(13) "user" means any person or entity who—

(A) uses an electronic communication service; and

(B) is duly authorized by the provider of such service to engage in such use;

(14) "electronic communications system" means any wire, radio, electromagnetic, photooptical or photoelectronic facilities for the transmission of wire or electronic communications, and any computer facilities or related electronic equipment for the electronic storage of such communications;

(15) "electronic communication service" means any service which provides to users thereof the ability to send or receive wire or electronic communications;

. . .

(17) "electronic storage" means—

(A) any temporary, intermediate storage of a wire or electronic communication incidental to the electronic transmission thereof; and

(B) any storage of such communication by an electronic communication service for purposes of backup protection of such communication;

(18) "aural transfer" means a transfer containing the human voice at any point between and including the point of origin and the point of reception;

§ 2511 - Interception and disclosure of wire, oral, or electronic communications prohibited

(1) Except as otherwise specifically provided in this chapter, any person who—

(a) intentionally intercepts, endeavors to intercept, or procures any other person to intercept or endeavor to intercept, any wire, oral, or electronic communication; . . .

(c) intentionally discloses, or endeavors to disclose, to any other person the contents of any wire, oral, or electronic communication, knowing or having reason to know that the information was obtained through the interception of a wire, oral, or electronic communication in violation of this subsection;

shall be punished as provided in subsection (4) . . .

(2)

(a)

(i) It shall not be unlawful under this chapter for an operator of a switchboard, or an officer, employee, or agent of a provider of wire or electronic communication service, whose facilities are used in the transmission of a wire or electronic communication, to intercept, disclose, or use that communication in the normal course of his employment while engaged in any activity which is a necessary incident to the rendition of his service or to the protection of the rights or property of the provider of that service, except that a provider of wire communication service to the public shall not utilize service observing or random monitoring except for mechanical or service quality control checks. . . .

(c) It shall not be unlawful under this chapter for a person acting under color of law to intercept a wire, oral, or electronic communication, where such person is a party to the communication or one of the parties to the communication has given prior consent to such interception.

(d) It shall not be unlawful under this chapter for a person not acting under color of law to intercept a wire, oral, or electronic communication where such person is a party to the communication or where one of the parties to the communication has given prior consent to

such interception unless such communication is intercepted for the purpose of committing any criminal or tortious act in violation of the Constitution or laws of the United States or of any State. . . .

(g) It shall not be unlawful under this chapter or [the Stored Communications Act] for any person

(i) to intercept or access an electronic communication made through an electronic communication system that is configured so that such electronic communication is readily accessible to the general public . . .

(3)

(a) Except as provided in paragraph (b) of this subsection, a person or entity providing an electronic communication service to the public shall not intentionally divulge the contents of any communication (other than one to such person or entity, or an agent thereof) while in transmission on that service to any person or entity other than an addressee or intended recipient of such communication or an agent of such addressee or intended recipient.

(b) A person or entity providing electronic communication service to the public may divulge the contents of any such communication—

(i) as otherwise authorized in section 2511(2)(a) or 2517 of this title;

(ii) with the lawful consent of the originator or any addressee or intended recipient of such communication;

(iii) to a person employed or authorized, or whose facilities are used, to forward such communication to its destination; or

(iv) which were inadvertently obtained by the service provider and which appear to pertain to the commission of a crime, if such divulgence is made to a law enforcement agency.

§ 2515 - Prohibition of use as evidence of intercepted wire or oral communications

Whenever any wire or oral communication has been intercepted, no part of the contents of such communication and no evidence derived therefrom may be received in evidence in any trial, hearing, or other proceeding in or before any court, grand jury, department, officer, agency, regulatory body, legislative committee, or other authority of the United States, a State, or a political subdivision thereof if the disclosure of that information would be in violation of this chapter. . . .

§ 2518 - Procedure for interception of wire, oral, or electronic communications

(1) Each application for an order authorizing or approving the interception of a wire, oral, or electronic communication under this chapter shall be made in writing upon oath or affirmation to a judge of competent jurisdiction and shall state the applicant's authority to make such application. . . .

(3) Upon such application the judge may enter an ex parte order, as requested or as modified, authorizing or approving interception of wire, oral, or electronic communications within the territorial jurisdiction of the court in which the judge is sitting (and outside that jurisdiction but within the United States in the case of a mobile interception device authorized by a Federal court within such jurisdiction), if the judge determines on the basis of the facts submitted by the applicant that

(a) there is probable cause for belief that an individual is committing, has committed, or is about to commit a particular offense enumerated in section 2516 of this chapter [a lengthy list of crimes, mostly felonies];

(b) there is probable cause for belief that particular communications concerning that offense will be obtained through such interception;

(c) normal investigative procedures have been tried and have failed or reasonably appear to be unlikely to succeed if tried or to be too dangerous;

(d) . . . there is probable cause for belief that the facilities from which, or the place where, the wire, oral, or electronic communications are to be intercepted are being used, or are about to be used, in connection with the commission of such offense, or are leased to, listed in the name of, or commonly used by such person. . . .

(5) No order entered under this section may authorize or approve the interception of any wire, oral, or electronic communication for any period longer than is necessary to achieve the objective of the authorization, nor in any event longer than thirty days. . . . Extensions of an order may be granted, but only upon application for an extension made in accordance with subsection (1) of this section and the court making the findings required by subsection (3) of this section. The period of extension shall be no longer than the authorizing judge deems necessary to achieve the purposes for which it was granted and in no event for longer than thirty days. Every order and extension thereof shall contain a provision that the authorization to intercept shall be executed as soon as practicable, shall be conducted in such a way as to minimize the interception of communications not otherwise subject to interception under this chapter, and must terminate upon attainment of the authorized objective, or in any event in thirty days.

Title II

§ 2701 - Unlawful access to stored communications

(a) Offense.—Except as provided in subsection (c) of this section whoever—

(1) intentionally accesses without authorization a facility through which an electronic communication service is provided; or

(2) intentionally exceeds an authorization to access that facility;

and thereby obtains, alters, or prevents authorized access to a wire or electronic communication while it is in electronic storage in such system shall be punished as provided in subsection (b) of this section.

(b) Punishment.—The punishment for an offense under subsection (a) of this section is—

(1) if the offense is committed for purposes of commercial advantage, malicious destruction or damage, or private commercial gain, or in furtherance of any criminal or tortious act in violation of the Constitution or laws of the United States or any State—

(A) a fine under this title or imprisonment for not more than 5 years, or both, in the case of a first offense under this subparagraph; and

(B) a fine under this title or imprisonment for not more than 10 years, or both, for any subsequent offense under this subparagraph; and

(2) in any other case—

(A) a fine under this title or imprisonment for not more than 1 year or both, in the case of a first offense under this paragraph; and

(B) a fine under this title or imprisonment for not more than 5 years, or both, in the case of an offense under this subparagraph that occurs after a conviction of another offense under this section.

(c) Exceptions.—Subsection (a) of this section does not apply with respect to conduct authorized—

(1) by the person or entity providing a wire or electronic communications service; [or]

(2) by a user of that service with respect to a communication of or intended for that user . . . .

§ 2702 - Voluntary disclosure of customer communications or records

(a) Prohibitions.—Except as provided in subsection (b) or (c)—

(1) a person or entity providing an electronic communication service to the public shall not knowingly divulge to any person or entity the contents of a communication while in electronic storage by that service; and

(2) a person or entity providing remote computing service to the public [defined in § 2711] shall not knowingly divulge to any person or entity the contents of any communication . . .

(3) a provider of remote computing service or electronic communication service to the public shall not knowingly divulge a record or other information pertaining to a subscriber to or customer of such service (not including the contents of communications covered by paragraph (1) . . .) to any governmental entity.

(b) Exceptions for Disclosure of Communications.—A provider described in subsection (a) may divulge the contents of a communication—

(1) to an addressee or intended recipient of such communication or an agent of such addressee or intended recipient;

(2) as otherwise authorized in [§ 2703 or certain sections of the Wiretap Act];

(3) with the lawful consent of the originator or an addressee or intended recipient of such communication . . . ;

(4) to a person employed or authorized or whose facilities are used to forward such communication to its destination;

(5) as may be necessarily incident to the rendition of the service or to the protection of the rights or property of the provider of that service; . . .

(8) to a governmental entity, if the provider, in good faith, believes that an emergency involving danger of death or serious physical injury to any person requires disclosure without delay of communications relating to the emergency.

(c) Exceptions for Disclosure of Customer Records.—A provider described in subsection (a) may divulge a record or other information pertaining to a subscriber to or customer of such service (not including the contents of communications covered by subsection (a)(1) . . .)—

(1) as otherwise authorized in section 2703;

(2) with the lawful consent of the customer or subscriber;

(3) as may be necessarily incident to the rendition of the service or to the protection of the rights or property of the provider of that service;

(4) to a governmental entity, if the provider, in good faith, believes that an emergency involving danger of death or serious physical injury to any person requires disclosure without delay of information relating to the emergency; . . .

(6) to any person other than a governmental entity.

. . .

§ 2703 - Required disclosure of customer communications or records

(a) Contents of Wire or Electronic Communications in Electronic Storage.—A governmental entity may require the disclosure by a provider of electronic communication service of the contents of a wire or electronic communication, that is in electronic storage in an electronic communications system for one hundred and eighty days or less, only pursuant to a warrant issued using the procedures described in the Federal Rules of Criminal Procedure (or, in the case of a State court, issued using State warrant procedures) by a court of competent jurisdiction. A governmental entity may require the disclosure by a provider of electronic communications services of the contents of a wire or electronic communication that has been in electronic storage in an electronic communications system for more than one hundred and eighty days by the means available under subsection (b) of this section.

(b) Contents of Wire or Electronic Communications in a Remote Computing Service.—

(1) A governmental entity may require a provider of remote computing service to disclose the contents of any wire or electronic communication to which this paragraph is made applicable by paragraph (2) of this subsection—

(A) without required notice to the subscriber or customer, if the governmental entity obtains a warrant issued using the procedures described in the Federal Rules of Criminal Procedure (or, in the case of a State court, issued using State warrant procedures) by a court of competent jurisdiction; or

(B) with prior notice from the governmental entity to the subscriber or customer if the governmental entity—

(i) uses an administrative subpoena authorized by a Federal or State statute or a Federal or State grand jury or trial subpoena; or

(ii) obtains a court order for such disclosure under subsection (d) of this section;

except that delayed notice may be given pursuant to section 2705 of this title.

(2) Paragraph (1) is applicable with respect to any wire or electronic communication that is held or maintained on that service—

(A) on behalf of, and received by means of electronic transmission from . . . a subscriber or customer of such remote computing service; and

(B) solely for the purpose of providing storage or computer processing services to such subscriber or customer, if the provider is not authorized to access the contents of any such communications for purposes of providing any services other than storage or computer processing.

(c) Records Concerning Electronic Communication Service or Remote Computing Service.—

(1) A governmental entity may require a provider of electronic communication service or remote computing service to disclose a record or other information pertaining to a subscriber to or customer of such service (not including the contents of communications) only when the governmental entity—

(A) obtains a warrant issued using the procedures described in the Federal Rules of Criminal Procedure (or, in the case of a State court, issued using State warrant procedures) by a court of competent jurisdiction;

(B) obtains a court order for such disclosure under subsection (d) of this section;

(C) has the consent of the subscriber or customer to such disclosure; [or] . . .

(E) seeks information under paragraph (2).

(2) A provider of electronic communication service or remote computing service shall disclose to a governmental entity the—

(A) name;

(B) address;

(C) local and long distance telephone connection records, or records of session times and durations;

(D) length of service (including start date) and types of service utilized;

(E) telephone or instrument number or other subscriber number or identity, including any temporarily assigned network address; and

(F) means and source of payment for such service (including any credit card or bank account number),

of a subscriber to or customer of such service when the governmental entity uses an administrative subpoena authorized by a Federal or State statute or a Federal or State grand jury or trial subpoena or any means available under paragraph (1).

(3) A governmental entity receiving records or information under this subsection is not required to provide notice to a subscriber or customer.

(d) Requirements for Court Order.—A court order for disclosure under subsection (b) or (c) may be issued by any court that is a court of competent jurisdiction and shall issue only if the governmental entity offers specific and articulable facts showing that there are reasonable grounds to believe that the contents of a wire or electronic communication, or the records or other information sought, are relevant and material to an ongoing criminal investigation. In the case of a State governmental authority, such a court order shall not issue if prohibited by the law of such State. A court issuing an order pursuant to this section, on a motion made promptly by the service provider, may quash or modify such order, if the information or records requested are unusually voluminous in nature or compliance with such order otherwise would cause an undue burden on such provider.

. . .

(f) Requirement To Preserve Evidence.—

(1) In general.—A provider of wire or electronic communication services or a remote computing service, upon the request of a governmental entity, shall take all necessary steps to preserve records and other evidence in its possession pending the issuance of a court order or other process.

(2) Period of retention.—Records referred to in paragraph (1) shall be retained for a period of 90 days, which shall be extended for an additional 90-day period upon a renewed request by the governmental entity. . . .

§ 2711 - Definitions for chapter

As used in this chapter—

(1) the terms defined in section 2510 of this title have, respectively, the definitions given such terms in that section;

(2) the term “remote computing service” means the provision to the public of computer storage or processing services by means of an electronic communications system[.] . . .

Appendix C: Selected Text of the Illinois Biometric Information Privacy Act

Sec. 10. Definitions. In this Act:

"Biometric identifier" means a retina or iris scan, fingerprint, voiceprint, or scan of hand or face geometry. Biometric identifiers do not include writing samples, written signatures, photographs, human biological samples used for valid scientific testing or screening, demographic data, tattoo descriptions, or physical descriptions such as height, weight, hair color, or eye color. Biometric identifiers do not include donated organs, tissues, or parts as defined in the Illinois Anatomical Gift Act or blood or serum stored on behalf of recipients or potential recipients of living or cadaveric transplants and obtained or stored by a federally designated organ procurement agency. Biometric identifiers do not include biological materials regulated under the Genetic Information Privacy Act. Biometric identifiers do not include information captured from a patient in a health care setting or information collected, used, or stored for health care treatment, payment, or operations under the federal Health Insurance Portability and Accountability Act of 1996. Biometric identifiers do not include an X-ray, roentgen process, computed tomography, MRI, PET scan, mammography, or other image or film of the human anatomy used to diagnose, prognose, or treat an illness or other medical condition or to further validate scientific testing or screening.

"Biometric information" means any information, regardless of how it is captured, converted, stored, or shared, based on an individual's biometric identifier used to identify an individual. Biometric information does not include information derived from items or procedures excluded under the definition of biometric identifiers.

"Confidential and sensitive information" means personal information that can be used to uniquely identify an individual or an individual's account or property. Examples of confidential and sensitive information include, but are not limited to, a genetic marker, genetic testing information, a unique identifier number to locate an account or property, an account number, a PIN number, a pass code, a driver's license number, or a social security number.

. . .

Sec. 15. Retention; collection; disclosure; destruction.

(a) A private entity in possession of biometric identifiers or biometric information must develop a written policy, made available to the public, establishing a retention schedule and guidelines for permanently destroying biometric identifiers and biometric information when the initial purpose for collecting or obtaining such identifiers or information has been satisfied or within 3 years of the individual's last interaction with the private entity, whichever occurs first. Absent a valid warrant or subpoena issued by a court of competent jurisdiction, a private entity in possession of biometric identifiers or biometric information must comply with its established retention schedule and destruction guidelines.

(b) No private entity may collect, capture, purchase, receive through trade, or otherwise obtain a person's or a customer's biometric identifier or biometric information, unless it first:

(1) informs the subject or the subject's legally authorized representative in writing that a biometric identifier or biometric information is being collected or stored;

(2) informs the subject or the subject's legally authorized representative in writing of the specific purpose and length of term for which a biometric identifier or biometric information is being collected, stored, and used; and

(3) receives a written release executed by the subject of the biometric identifier or biometric information or the subject's legally authorized representative.

(c) No private entity in possession of a biometric identifier or biometric information may sell, lease, trade, or otherwise profit from a person's or a customer's biometric identifier or biometric information.

(d) No private entity in possession of a biometric identifier or biometric information may disclose, redisclose, or otherwise disseminate a person's or a customer's biometric identifier or biometric information unless:

(1) the subject of the biometric identifier or biometric information or the subject's legally authorized representative consents to the disclosure or redisclosure;

(2) the disclosure or redisclosure completes a financial transaction requested or authorized by the subject of the biometric identifier or the biometric information or the subject's legally authorized representative;

(3) the disclosure or redisclosure is required by State or federal law or municipal ordinance; or

(4) the disclosure is required pursuant to a valid warrant or subpoena issued by a court of competent jurisdiction.

(e) A private entity in possession of a biometric identifier or biometric information shall:

(1) store, transmit, and protect from disclosure all biometric identifiers and biometric information using the reasonable standard of care within the private entity's industry; and

(2) store, transmit, and protect from disclosure all biometric identifiers and biometric information in a manner that is the same as or more protective than the manner in which the private entity stores, transmits, and protects other confidential and sensitive information.

Sec. 20. Right of action.

(a) Any person aggrieved by a violation of this Act shall have a right of action in a State circuit court or as a supplemental claim in federal district court against an offending party. A prevailing party may recover for each violation:

(1) against a private entity that negligently violates a provision of this Act, liquidated damages of $1,000 or actual damages, whichever is greater;

(2) against a private entity that intentionally or recklessly violates a provision of this Act, liquidated damages of $5,000 or actual damages, whichever is greater;

(3) reasonable attorneys' fees and costs, including expert witness fees and other litigation expenses; and

(4) other relief, including an injunction, as the State or federal court may deem appropriate.

(b) For purposes of subsection (b) of Section 15, a private entity that, in more than one instance, collects, captures, purchases, receives through trade, or otherwise obtains the same biometric identifier or biometric information from the same person using the same method of collection in violation of subsection (b) of Section 15 has committed a single violation of subsection (b) of Section 15 for which the aggrieved person is entitled to, at most, one recovery under this Section.

(c) For purposes of subsection (d) of Section 15, a private entity that, in more than one instance, discloses, rediscloses, or otherwise disseminates the same biometric identifier or biometric information from the same person to the same recipient using the same method of collection in violation of subsection (d) of Section 15 has committed a single violation of subsection (d) of Section 15 for which the aggrieved person is entitled to, at most, one recovery under this Section regardless of the number of times the private entity disclosed, redisclosed, or otherwise disseminated the same biometric identifier or biometric information of the same person to the same recipient.