



Prudential Regulation Authority - SS 2/21

Google Workspace Mapping

This document is designed to help regulated firms supervised by the Prudential Regulatory Authority (“**regulated entity**”) to consider [SS2/21 Outsourcing and third party risk management](#) (the “**framework**”) in the context of Google Workspace and the Google Cloud Financial Services Contract.

We focus on the following requirements of the framework: Chapter 6 - Outsourcing agreements, Chapter 7 - Data Security, Chapter 8 - Access, audit and information rights, Chapter 9 - Sub-outsourcing and Chapter 10 - Business continuity and exit plans. For each paragraph, we provide commentary to help you understand how you can address the requirements using the Google Cloud services and the Google Cloud Financial Services Contract.

#	Framework reference	Google Cloud commentary	Google Cloud Financial Services Contract reference
6.	Outsourcing agreements		
1.	6.1 In line with Article 31(3) of MODR (banks) and 274(3)(c) of the Solvency II Delegated Regulation (insurers), all outsourcing arrangements must be set out in a written agreement.	The Google Cloud Financial Services Contract is the written contract between the parties.	N/A
2.	6.2 Where there is a master service agreement that allows firms to add or remove certain services, each outsourced service should be appropriately documented, although not necessarily in a separate agreement.	The Google Workspace services are described on our services summary page. You decide which services to use, how to use them and for what purpose. Therefore, you decide the scope of the arrangement.	Definitions
3.	6.3 Firms should ensure that written agreements for non-material outsourcing arrangements include appropriate contractual safeguards to manage and monitor relevant risks. Moreover, regardless of materiality, firms should ensure that outsourcing agreements do not impede or limit the PRA’s ability to effectively supervise the firm or outsourced activity, function, or service.	<p><u>Managing and monitoring risk</u></p> <p>The SLAs provide measurable performance standards and remedies for the services and are available on our Google Workspace Service Level Agreement page.</p> <p>For more information on how you can monitor Google’s performance of the Services (including the SLAs), refer to Row 13.</p> <p><u>Supervision</u></p> <p>Google recognizes that regulated entities must be able to audit our services effectively. Google grants audit, access and information rights to regulated entities, supervisory authorities and both their appointees. Nothing in our contract is intended to limit or impede an regulated entity’s or the supervisory authority’s ability to audit our services effectively.</p>	<p>Services</p> <p>Enabling Customer Compliance</p>
4.	Material outsourcing agreements		
5.	6.4 Written agreements for material outsourcing should set out at least:		
6.	<ul style="list-style-type: none"> a clear description of the outsourced function, including the type of support services to be provided; 	<p>The Google Workspace services are described on our services summary page.</p> <p>The support services are described on our technical support services guidelines page.</p>	<p>Definitions</p> <p>Technical Support</p>
7.	<ul style="list-style-type: none"> the start date, next renewal date, end date, and notice periods regarding termination for the service provider and the firm; 	Refer to your Google Cloud Financial Services Contract.	Term and Termination
8.	<ul style="list-style-type: none"> the governing law of the agreement; 	Refer to your Google Cloud Financial Services Contract.	Governing Law
9.	<ul style="list-style-type: none"> the parties’ financial obligations; 	Refer to your Google Cloud Financial Services Contract.	Payment Terms
10.	<ul style="list-style-type: none"> whether the sub-outsourcing of a material function or part thereof is permitted and, if so, under which conditions; 	Refer to the Rows 104 to 127 on Chapter 9 (Sub-outsourcing).	N/A



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11.	<ul style="list-style-type: none"> the location(s), ie regions or countries, where the material function or service will be provided, and/or where relevant data will be kept, processed, or transferred, including the possible storage location, and a requirement for the service provider to give reasonable notice to the firm in advance if it proposes to change said location(s); 	Refer to Rows 43 to 49 on Chapter 7 (Data Security; Data Location)	N/A
12.	<ul style="list-style-type: none"> provisions regarding the accessibility, availability, integrity, confidentiality, privacy, and safety of relevant data (see Chapter 7); 	Refer to the Rows 51 to 67 on Chapter 7 (Data security)	N/A
13.	<ul style="list-style-type: none"> the right of the firm to monitor the service provider's performance on an ongoing basis (this may be by reference to KPIs); 	<p>You can monitor Google's performance of the Services (including the SLAs) on an ongoing basis using the functionality of the Services.</p> <p>For example:</p> <ul style="list-style-type: none"> The Status Dashboard provides status information on the Services. Admin Console Reports allow you to examine potential security risks, measure user collaboration, track who signs in and when, analyze administrator activity, and much more. Access Transparency is a feature that enables you to review logs of actions taken by Google personnel regarding your user content. Log entries include: the affected resource, the time of action, the reason for the action (e.g. the case number associated with the support request); and data about who is acting on data (e.g. the Google personnel's location). 	Ongoing Performance Monitoring
14.	<ul style="list-style-type: none"> the agreed service levels, which should include qualitative and quantitative performance criteria and allow for timely monitoring, so that appropriate corrective action can be taken if these service levels are not met; 	<p>The SLAs are available on our Google Workspace Service Level Agreement page.</p> <p>If Google's performance of the Services does not meet the Google Workspace Service Level Agreement regulated entities may claim service credits.</p>	Services
15.	<ul style="list-style-type: none"> the reporting obligations of the service provider to the firm, including a requirement to notify the firm of any development that may have a material or adverse impact on the service provider's ability to effectively perform the material function in line with the agreed service levels and in compliance with applicable laws and regulatory requirements; 	Google will make information about developments that materially impact Google's ability to perform the Services in accordance with the SLAs available to you. More information is available on our Status Dashboard page.	Significant Developments



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		In addition, Google will notify you of data incidents promptly and without undue delay. More information on Google's data incident response process is available in our whitepaper .	Data Incidents (Cloud Data Processing Addendum)
16.	<ul style="list-style-type: none"> whether the service provider should take out mandatory insurance against certain risks and, if applicable, the level of insurance cover requested; 	Google will maintain insurance cover against a number of identified risks.	Insurance
17.	<ul style="list-style-type: none"> the requirements for both parties to implement and test business contingency plans. For the firm, these should take account of their impact tolerances for important business services. Where appropriate, both parties should commit to take reasonable steps to support the testing of such plans; 	<p>Google will implement a business continuity plan for the Services, review and test it at least annually and ensure it remains current with industry standards.</p> <p>More information on the reliability of the Services is available on our Google Cloud Help page.</p>	Business Continuity and Disaster Recovery
18.	<ul style="list-style-type: none"> provisions to ensure that data owned by the firm can be accessed promptly in the case of the insolvency, resolution, or discontinuation of business operations of the service provider; 	<p>You retain all intellectual property rights in your data.</p> <p>Google will enable you to access and export your data throughout the duration of our contract. Refer to Row 25.</p> <p>Neither of these commitments are disapplied on Google's insolvency. Nor does Google have the right to terminate for Google's own insolvency - although you can elect to terminate. In the unlikely event of Google's insolvency, you can refer to these commitments when dealing with the appointed insolvency practitioner.</p>	<p>Intellectual Property</p> <p>Data Export (Cloud Data Processing Addendum)</p> <p>Term and Termination</p>
19.	<ul style="list-style-type: none"> the obligation of the service provider to co-operate with the PRA and the Bank, as resolution authority, including persons appointed to act on their behalf (see Chapter 8, including the section on the Bank's and PRA's information gathering and investigatory powers); 	Google will cooperate with supervisory authorities, resolution authorities and their appointees exercising their audit, information and access rights.	Enabling Customer Compliance
20.	<ul style="list-style-type: none"> for banks, a clear reference to the Bank's resolution powers, especially under sections 48Z and 70C-D of the Banking Act 2009 (implementing Articles 68 and 71 of Directive 2014/59/EU (BRRD)), and in particular, a description of the 'substantive obligations' of the written agreement in the sense of Article 68 of that Directive); 	Google recognizes that regulated entities and any resolution entity must be able to carry on business during resolution. To provide support through resolution, Google commits to continue providing the Services during resolution as required by the BRRD.	Support through Resolution
21.	<ul style="list-style-type: none"> the rights of firms and the PRA to inspect and audit the service provider with regard to the material outsourced function (see Chapter 8); 	Refer to the Rows 68 to 103 on Chapter 8 (Access, audit and information rights)	N/A
22.	<ul style="list-style-type: none"> if relevant: 		
23.	<ul style="list-style-type: none"> o appropriate and proportionate information security related objectives and measures, including requirements such as minimum ICT security requirements, specifications of firms' data lifecycles, and any 	<p>This is addressed in the Cloud Data Processing Addendum where Google makes commitments to protect your data, including regarding security.</p> <p>For more information refer to the Rows 51 to 67 on Chapter 7 (Data security)</p>	Data Security; Security Measures (Cloud Data Processing Addendum)



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	requirements regarding to data security (see Chapter 7), network security, and security monitoring processes; and		
24.	<ul style="list-style-type: none"> operational and security incident handling procedures, including escalation and reporting; and 	Google will notify you of data incidents promptly and without undue delay. More information on Google's data incident response process is available in our Data incident response whitepaper .	Data Incidents (Cloud Data Processing Addendum)
25.	<ul style="list-style-type: none"> termination rights and exit strategies covering both stressed and non-stressed scenarios, as specified in Chapter 10. As in the case of business contingency plans, both parties should commit to take reasonable steps to support the testing of firms' termination plans. Firms may elect to limit contractual termination rights to situations such as: 	<p>Google will enable you to access and export your data throughout the duration of our contract and the transition term. More information is available on our Google Account help page.</p> <p>In addition, Data Export is a feature that makes it easy to export and download a copy of your data securely from our Services.</p> <p>For more information on transferring data on exit, refer to Row 135 to 150.</p>	Data Export (Cloud Data Processing Addendum)
26.	<ul style="list-style-type: none"> material breaches of law, regulation, or contractual provisions; 	<p>Regulated entities may terminate our contract with advance notice for Google's material breach after a cure period.</p> <p>In addition, regulated entities can elect to terminate our contract for convenience with advance notice, including if necessary to comply with law</p>	<p>Term and Termination</p> <p>Termination for Convenience</p>
27.	<ul style="list-style-type: none"> those that create risks beyond their tolerance; or 	Refer to Row 26.	N/A
28.	<ul style="list-style-type: none"> those that are not adequately notified and remediated in a timely manner. 	Refer to Row 26.	N/A
29.	6.5 If an outsourced service provider in a material outsourcing arrangement is unable or unwilling to contractually facilitate a firm's compliance with its regulatory obligations and expectations, including those in paragraph 6.4, firms should make the PRA aware of this.	<p>Google recognizes that regulated entities require assistance from Google to enable them to ensure compliance with applicable laws and regulations. We are committed to working with regulated entities in good faith to provide this assistance.</p> <p>In particular, we appreciate that you will need to have confidence that the Google Cloud Financial Services Contract continues to support your compliance requirements. We are committed to working with you throughout our relationship to address the impact of changes in law or regulation.</p>	Enabling Customer Compliance
7 Data security			
30.	7.1 In this chapter, the term 'data' should be interpreted very broadly to include confidential, firm sensitive, and transactional data. It may also cover open source data (e.g. from social media) collected, analysed, and transferred for the purposes of providing financial services as well as the systems used to process, transfer, or store data. The expectations in this chapter apply to material outsourcing arrangements and other third party arrangements that involve the transfer of data with third parties in line with the EBA ICT GL. This chapter	Google commitments to protect your data apply to all data you or your end users provide to Google through the Services under your Google Workspace account.	Definitions



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	should also be interpreted consistently with requirements under data protection law.		
31.	7.2 Where a material outsourcing or third party agreement involves the transfer of or access to data, the PRA expects firms to define, document, and understand their and the service provider's respective responsibilities in respect of that data and take appropriate measures to protect them.	This is addressed in the Cloud Data Processing Addendum where Google makes commitments to protect your data, including regarding security.	Data Security; Security Measures (Cloud Data Processing Addendum)
32.	7.3 Building on General Organisational Requirements 2.4 (banks) and Article 274(e) of the Solvency II Delegated Regulation, where a material outsourcing or third party agreement involves the transfer of data, the PRA expects firms to:		
33.	<ul style="list-style-type: none"> classify relevant data based on their confidentiality and sensitivity; 	This is a customer consideration.	N/A
34.	<ul style="list-style-type: none"> identify potential risks relating to the relevant data and their impact (legal, reputational, etc.); 	This is a customer consideration.	N/A
35.	<ul style="list-style-type: none"> agree an appropriate level of data availability, confidentiality, and integrity; and 	Refer to Row 14 for information about Google's SLAs. Refer to Rows 51 to 67 for information on Google's security practices.	N/A
36.	<ul style="list-style-type: none"> if appropriate, obtain appropriate assurance and documentation from third parties on the provenance or lineage of the data to satisfy themselves that it has been collected and processed in line with applicable legal and regulatory requirements. 	This is a customer consideration.	N/A
37.	7.4 Some risks relating to data that the PRA expects firms to consider include but are not necessarily limited to unauthorised access, loss, unavailability, and theft.	For information on Google's security practices and the tools available to you to protect your data, refer to Row 51.	N/A
38.	Data classification		
39.	7.5 Firms are responsible for classifying their data. While the PRA does not prescribe a specific taxonomy for data classification, it expects firms to implement appropriate, risk-based technical and organisation measures to protect different classes of data (eg confidential, client, personal, sensitive, transaction) when:	This is a customer consideration. For more information on classifying data refer to our Support page .	N/A
40.	<ul style="list-style-type: none"> developing and implementing their outsourcing policy and other relevant policies and strategies in paragraph 4.10 (business continuity, contingency planning, disaster recovery, ICT, information security, operational resilience, OCIR, and risk management); and 	This is a customer consideration.	N/A
41.	<ul style="list-style-type: none"> sharing data with third parties, including but not limited to as part of an outsourcing arrangement. 	For information on how you can monitor and control Google's access to your data, refer to Row 55.	N/A
42.	Data location		



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43.	7.6 As noted in Chapter 10, the PRA recognises the potential benefits for operational resilience of firms using cloud technology to distribute their data and applications across multiple, geographically dispersed availability zones and regions. This approach can strengthen firms' ability to respond and recover from local operational outages faster and more effectively, and enhance their ability to cope with fluctuations in demand.	Google operates multi-zone data centers all over the world, providing resilience in the event of localised or even region-wide environmental or infrastructure events. For more information, refer to our Strengthening operational resilience in financial services by migrating to Google Cloud whitepaper.	N/A
44.	7.7 The PRA also recognises the potential negative consequences of restrictive data localisation requirements on firms' innovation, resilience, and costs. None of the expectations in this SS and in particular this section should be interpreted as explicitly or implicitly favouring restrictive data localisation requirements.	Refer to Row 43.	N/A
45.	7.8 However, the PRA expects firms to adopt a risk-based approach to the location data that allows them to simultaneously leverage the operational resilience advantages of outsourced data being stored in multiple locations and manage relevant risks, which may include:		
46.	<ul style="list-style-type: none"> legal risks stemming from conflicting or less developed relevant legal or regulatory requirements in one or more of the countries where the data may be processed; 	<p>Google provides the same contractual commitments and technical and organizational measures for your data regardless of the country / region where it is located. In particular:</p> <ul style="list-style-type: none"> The same robust security measures apply to all Google facilities, regardless of country / region. Google makes the same commitments about all its subprocessors, regardless of country / region. <p>In addition, Google provides commitments to enable the lawful transfer of personal data to a third country in accordance with European data protection law.</p>	<p>Data Security; Subprocessors (Cloud Data Processing Addendum)</p> <p>Data Transfers (Cloud Data Processing Addendum)</p>
47.	<ul style="list-style-type: none"> challenges to firms', the Bank's, and PRA's ability to access firm data in a timely manner if required (eg as part of their enforcement, resolution, or supervisory functions) due to local law enforcement, legal, or political circumstances; and 	<p>Regulated entities may access their data on the services at any time and may provide their supervisory authority with access. These rights apply regardless of where the data are stored.</p> <p>In addition, Google will fully cooperate with supervisory authorities exercising their audit, information and access rights regardless of the service location.</p>	<p>Regulator Information, Audit and Access Customer Information, Audit and Access</p> <p>Enabling Customer Compliance</p>
48.	<ul style="list-style-type: none"> other potential risks to the availability, security, or confidentiality of data, for instance, high risk of unauthorised access or ICT risks stemming from inadequate data processing equipment. 	For more information on Google's security practices refer to Rows 51 to 67. Google provides the same contractual commitments and technical and organizational measures for your data regardless of the country / region where it is located.	Data Security; Subprocessors (Cloud Data Processing Addendum)
49.	7.9 As part of their due diligence and risk assessment in the pre-outsourcing phase, firms should identify whether their data could be processed in any jurisdictions	To provide you with a fast, reliable, robust and resilient service, Google may store and process your data where Google or its subprocessors maintain facilities.	Data Location (Service Specific Terms)



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	that are outside their risk tolerance and, if so, bring this to the attention of the third party when negotiating the contractual arrangement in order to discuss adequate data protection and risk mitigation measures.	<ul style="list-style-type: none"> Information about the location of Google's facilities is available here. Information about the location of Google's subprocessors' facilities is available here. <p>Google provides you with choices about where to store your data - including a choice to store your data in Europe. Once you choose where to store your data, Google will not store it outside your chosen region(s).</p> <p>You can also choose to use tools provided by Google to enforce data location requirements. For more information, see our Trusting your data with G Suite whitepaper</p>	Data Transfers (Cloud Data Processing Addendum)
50.	Data security		
51.	7.10 The PRA expects firms to implement appropriate measures to protect outsourced data and set them out in their outsourcing policy (see Chapter 4) and, where appropriate, in their written agreements for material outsourcing (see Chapter 6).	<p>This is addressed in the Cloud Data Processing Addendum where Google makes commitments to protect your data, including regarding security.</p> <p>The security of a cloud service consists of two key elements:</p> <p><u>(1) Google's infrastructure</u></p> <p>Google manages the security of our infrastructure. This is the security of the hardware, software, networking and facilities that support the Services.</p> <p>Given the one-to-many nature of our service, Google provides the same robust security for all our customers.</p> <p>Google provides detailed information to customers about our security practices so that customers can understand them and consider them as part of their own risk analysis.</p> <p>More information is available at:</p> <ul style="list-style-type: none"> Our infrastructure security page Our security whitepaper Our cloud-native security whitepaper Our infrastructure security design overview page Our security resources page <p>In addition, you can review Google's SOC 2 report.</p> <p><u>(2) Your data and applications in the cloud</u></p>	Data Security; Security Measures (Cloud Data Processing Addendum)



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		<p>You define the security of your data and applications in the cloud. This refers to the security measures that you choose to implement and operate when you use the Services.</p> <p>(a) <u>Security by default</u></p> <p>Although we want to offer you as much choice as possible when it comes to your data, the security of your data is of paramount importance to Google and we take the following proactive steps to assist you:</p> <ul style="list-style-type: none"> • Encryption at rest. Google encrypts certain data while it is stored at rest on a disk (including solid-state drives) or backup media. Even if an attacker or someone with physical access obtains the storage equipment containing your data, they won't be able to read it because they don't have the necessary encryption keys. • Encryption in transit. Google encrypts all data while it is "in transit"--traveling over the Internet and across the Google network between data centers. Should an attacker intercept such transmissions, they will only be able to capture encrypted data, at one or more network layers when data moves outside physical boundaries not controlled by Google or on behalf of Google. <p>(b) <u>Security products</u></p> <p>In addition to the other tools and practices available to you outside Google, you can choose to use tools provided by Google to enhance and monitor the security of your data. Information on Google's security products is available on our Cloud Security Products page.</p> <p>(c) <u>Security resources</u></p> <p>Google also publishes guidance on:</p> <ul style="list-style-type: none"> • Security best practices • Security use cases 	
52.	7.11 The PRA expects firms to implement robust controls for data-in-transit, data-in-memory, and data-at-rest. Depending on the materiality and risk of the arrangement, these controls may include a range of preventative and detective measures, including but not necessarily limited to:		



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53.	<ul style="list-style-type: none"> configuration management. This is a particularly important measure, as for example, in the context of cloud, misconfiguration of cloud services can be a major cause of data breaches; 	<p>You can choose to use the following tools provided by Google to assist you with configuration management:</p> <ul style="list-style-type: none"> Google Admin Console allows you to add users to your account, turn on the services you want them to use, grant people administrator access, and otherwise manage Google services for your organization. Cloud Identity is a unified identity, access app, and endpoint management (IAM/EMM) platform that helps IT and security teams maximize end-user efficiency and protect your organization's data. Security Center provides actionable security insights for Google Workspace to help protect your organisation. 	N/A
54.	<ul style="list-style-type: none"> encryption and key management; 	<p>Google encrypts customer data at rest and in transit by default. For more information, refer to Row 51.</p> <p>For more information on Google Workspace encryption and key management tools provided by Google, see our Google Workspace encryption whitepaper.</p>	N/A
55.	<ul style="list-style-type: none"> identity and access management, which should include stricter controls for individuals whose role can create a higher risk in the event of unauthorised access, (eg systems administrators). Firms should be particularly vigilant about privileged accounts becoming compromised as a result of phishing attacks and other leaking or theft of credentials in line with paragraph 31 of the EBA ICT GL; 	<p>You can choose to use the following tools provided by Google to assist you with identity and management:</p> <ul style="list-style-type: none"> Cloud Identity and Access Management helps to prevent against unauthorized access by controlling access rights and roles for Google Cloud Platform resources. Resource Manager allows you to programmatically manage Google Cloud Platform container resources (such as Organizations and Projects), that allow you to group and hierarchically organize other Google Cloud Platform resources. 	N/A
56.	<ul style="list-style-type: none"> the ongoing monitoring of 'insider threats', (ie employees at the firm and at the third party who may misuse their legitimate access to firm data for unauthorised purposes maliciously or inadvertently). The term 'employee' should be construed broadly for these purposes and may include contractors, secondees, and sub-outsourced service providers (see Chapter 9); 	<p>Google recognizes that you need visibility into who did what, when, and where for all user activity on our service.</p> <p>Admin Console Reports allow you to examine potential security risks, measure user collaboration, track who signs in and when, analyze administrator activity, and much more. In particular, Cloud Audit Logs help your security teams maintain audit trails in Google Workspace and view detailed information about Admin activity, data access, and system events.</p>	N/A



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57.	<ul style="list-style-type: none"> access and activity logging; 	Refer to Row 56.	N/A
58.	<ul style="list-style-type: none"> incident detection and response; 	<p>In addition to the other tools and practices available to you outside Google, you can choose to use tools provided by Google to enhance and monitor the security of your data. Information on Google's security products is available here.</p> <p>Here are some examples:</p> <ul style="list-style-type: none"> Alert Center provides real-time actionable alerts and security insights about activity in your Google Workspace domain. Cloud Identity is a unified identity, access app, and endpoint management (IAM/EMM) platform that helps IT and security teams maximize end-user efficiency and protect your organization's data. Security Center provides actionable security insights for Google Workspace to help protect your organisation. <p>In addition, Google will notify you of data incidents promptly and without undue delay. More information on Google's data incident response process is available in our Data incident response whitepaper.</p>	Data Incidents (Cloud Data Processing Addendum)
59.	<ul style="list-style-type: none"> loss prevention and recovery; 	<p>Information about how customers can use our Services in their own business contingency planning is available on the Google Cloud Platform Disaster Recovery Planning Guide page.</p> <p>Regulated entities can use Spinbackup as part of their backup routine. Refer to our solutions page for more information about how you can configure Spinbackup Google Workspace backup and restore your Google Workspace data.</p>	N/A
60.	<ul style="list-style-type: none"> data segregation (if using a multi-tenant environment); 	To keep data private and secure, Google logically isolates each customer's data from that of other customers.	N/A
61.	<ul style="list-style-type: none"> operating system, network, and firewall configuration; 	For more information on Google's security infrastructure, refer to Row 51.	N/A
62.	<ul style="list-style-type: none"> staff training; 	Google provides documentation to explain how regulated entities and their employees can use our Google Workspace services. If a regulated entity would like more guided training, Google also provides a variety of courses and certifications .	N/A
63.	<ul style="list-style-type: none"> the ongoing monitoring of the effectiveness of the service provider's controls, including through the exercise of access and audit rights (see Chapter 8); 	Audit reports	



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		<p>Google recognizes that you expect independent verification of our security, privacy and compliance controls. Google undergoes several independent third-party audits on a regular basis to provide this assurance. Google commits to comply with the following key international standards during the term of our contract with you:</p> <ul style="list-style-type: none"> • ISO/IEC 27001:2013 (Information Security Management Systems) • ISO/IEC 27017:2015 (Cloud Security) • ISO/IEC 27018:2014 (Cloud Privacy) • SOC 1 • SOC 2 • SOC 3 <p>You can review Google's current certifications and audit reports at any time. Compliance reports manager provides you with easy, on-demand access to these critical compliance resources.</p> <p><u>Access and audit rights</u></p> <p>Google recognizes that regulated entities must be able to audit our services effectively. Google grants audit, access and information rights to regulated entities, supervisory authorities and both their appointees.</p>	<p>Certifications and Audit Reports</p> <p>Customer Information, Audit and Access Regulator Information, Audit and Access</p>
64.	<ul style="list-style-type: none"> • policies and procedures to detect activities that may impact firms' information security (eg data breaches, incidents, or misuse of access by third parties) and respond to these incidents appropriately (including appropriate mechanisms for investigation and evidence collection after an incident); and 	Refer to Row 58 for information about how Google can support you with incident detection and response.	N/A
65.	<ul style="list-style-type: none"> • procedures for the deletion of firm data from all the locations where the service provider may have stored it following an exit or termination, provided that access to the data by the firm or PRA is no longer required (see Chapters 8 and 10). When deciding when to delete data, firms will need to consider their obligations under data protection law and their potential data retention obligations. 	On termination of the contractual relationship, Google will comply with your instruction to delete Customer Data from Google systems.	Deletion on Termination (Cloud Data Processing Addendum)
66.	7.12 Where data is encrypted, firms should ensure that any encryption keys or other forms of protection are kept secure by the firm or outsourcing provider. The data protected by encryption (although not necessarily the encryption keys themselves) should be provided to the PRA in an accessible format if required, in accordance with Fundamental Rule 7 and other potentially relevant regulatory requirements.	<p>For information on encryption and key management refer to Row 54.</p> <p>Regulated entities may access their data on the services at any time and may provide their supervisory authority with access.</p>	<p>Regulator Information, Audit and Access</p> <p>Customer Information, Audit and Access</p>



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67.	7.13 The ability of service providers to respond to customer-specific data security requests may vary depending on the service being provided. Generally, the more standardised the service, the more difficult it might be for the service provider to accommodate these requests. The PRA's focus is on the overall effectiveness of the service provider's security environment, which should allow firms to meet their regulatory and risk management obligations and be at least as effective as their in-house security environment. As long as service providers can provide assurance that this is the case, the PRA does not have specific expectations around customer-specific requests.	<p>Google manages the security of our infrastructure. This is the security of the hardware, software, networking and facilities that support the Services. Given the one-to-many nature of our service, Google provides the same robust security for all our customers.</p> <p>Customers define the security of your data and applications in the cloud. This refers to the security measures that you choose to implement and operate when you use the Services. In addition to the other tools and practices available to you outside Google, you can choose to use tools provided by Google to enhance and monitor the security of your data. Information on Google's security products is available on our Cloud Security Products page.</p> <p>For more information, refer to Rows 51 to 66.</p>	N/A
8	Access, audit, and information rights		
68.	Bank and PRA information gathering and investigatory powers		
69.	8.1 Independent of the expectations on access, audit, and information rights set out later in this chapter, the Bank and PRA have a range of statutory information-gathering and investigatory powers, some of which may apply directly to outsourced service providers as well as firms. The PRA expects firms to make service providers aware of the powers and requirements as set out in Tables 6 and 7 below, which are not exhaustive. However, failure to do so will not affect their applicability.	Google acknowledges the supervisory authority's range of statutory information-gathering and investigating powers under applicable law.	Enabling Customer Compliance
70.	Non-material outsourcing arrangements		
71.	8.2 The PRA expects firms to adopt a risk-based approach to access, audit, and information rights in respect of non-material outsourcing arrangements. In doing so, they should take into account the arrangement's riskiness and the likelihood of it becoming material in the future (see Chapter 5).	Google recognizes that use of the Services could scale up over time. Regardless of how regulated entities choose to use the Services at the start of our relationship, Google will provide regulated entities and supervisory authorities with audit, access and information rights.	Enabling Customer Compliance
72.	Material outsourcing arrangements		
73.	8.3 Building on Chapter 6, the PRA expects firms to take reasonable steps to ensure that written agreements for material outsourcing arrangements provide firms, firms' auditors, the PRA, the Bank (as a resolution authority), and any other person appointed by firms or the Bank and PRA, with full access and unrestricted rights for audit and information to enable firms to:	Google recognizes that regulated entities must be able to audit our services effectively. Google grants audit, access and information rights to regulated entities, supervisory authorities and both their appointees. Regulated entities can access their data on the service at any time and provide their supervisory authorities with access.	Regulator Information, Audit and Access Customer Information, Audit and Access
74.	<ul style="list-style-type: none"> comply with their legal and regulatory obligations; and 	Refer to Row 73.	N/A
75.	<ul style="list-style-type: none"> monitor the arrangement. 	Refer to Row 73.	N/A
76.	8.4 Access, audit, and information rights in material outsourcing arrangements should include where relevant:		



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77.	<ul style="list-style-type: none"> data, devices, information, systems, and networks used for providing the outsourced service or monitoring its performance. This may include, where appropriate, the service provider's policies, processes, and controls on data ethics, data governance, and data security; 	Google grants audit, access and information rights to regulated entities, supervisory authorities and their appointees. This includes access to Google's premises used to provide the Services to conduct an on-site audit.	Regulator Information, Audit and Access; Customer Information, Audit and Access
78.	<ul style="list-style-type: none"> the results of security penetration testing carried out by the outsourced service provider, or on its behalf, on its applications, data, and systems to 'assess the effectiveness of implemented cyber and internal IT security measures and processes'; 	Google engages a qualified and independent third party to conduct penetration testing of the Services. More information is available here .	N/A
79.	<ul style="list-style-type: none"> company and financial information; and 	Information about Google Cloud's strategies, goals and initiatives as well as our organizational policies and financial condition is available on Alphabet's Investor Relations page.	N/A
80.	<ul style="list-style-type: none"> the service provider's external auditors, personnel, and premises. 	Refer to Row 73. For information on the third-party audit reports that Google provides, refer to Row 90.	N/A
81.	8.5 The PRA considers that it is not sufficient for firms merely to negotiate adequate access, audit, and information rights; these must also be used when appropriate. The purpose of the rights outlined in this chapter is to support firms' identification, assessment management, and mitigation of any identified risks relating to a material outsourcing arrangement. The appropriate exercise of these rights is key to providing the assurance that such an arrangement is being provided as agreed with the outsourced provider and in line with regulatory requirements.	The regulated entity is best placed to decide what audit frequency and scope is right for their organization. Our contract does not limit institutions to a fixed number of audits or a pre-defined scope.	Customer Information, Audit and Access
82.	Pooled audits and third party certificates and reports		
83.	8.6 The PRA expects firms to exercise their access, audit, and information rights in respect of material outsourcing arrangements in an outcomes-focused way, to assess whether the service provider is providing the relevant service effectively and in compliance with the firm's legal and regulatory obligations and expectations, including as regards operational resilience.	This is a customer consideration.	N/A
84.	8.7 Firms may use a range of audit and other information gathering methods, including:		
85.	<ul style="list-style-type: none"> offsite audits, such as certificates and other independent reports supplied by service providers; and 	For information on the independent third-party audit reports that Google provides, refer to Row 90.	N/A
86.	<ul style="list-style-type: none"> onsite audits, either individually or in conjunction with other firms (pooled audits). 	Google grants audit, access and information rights to regulated entities, supervisory authorities and both their appointees. This includes access to Google's premises used to provide the Services to conduct an on-site audit.	Regulator Information, Audit and Access; Customer Information, Audit and Access



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		In addition, Google recognizes the benefits of pooled audits. We would be happy to discuss this with regulated entities. For more information about Google's approach to pooled audits, refer to our 'Earning customer trust through a pandemic: delivering our 2020 CCAG pooled audit' blog post.	
87.	8.8 Firms can choose any appropriate audit method as long as it enables them to meet their legal, regulatory, operational resilience, and risk management obligations. The level of assurance expected will, however, become more onerous depending on proportionality (ie whether the firm is significant (see Chapter 3)) and the materiality of the arrangement (see Chapter 5). For instance, a significant firm that outsources an important business service for which it has set a low impact tolerance should demand a higher level of assurance.	Although we will make a lot of information and options available to help regulated entities review our Services, we recognize that the regulated entity is best placed to decide how to make their audit activities more effective.	N/A
88.	Third party certificates and reports		
89.	8.9 Certificates and reports supplied by service providers may help firms obtain assurance on the effectiveness of the service provider's controls. However, in material outsourcing arrangements, the PRA expects firms to:		
90.	<ul style="list-style-type: none"> assess the adequacy of the information in these certificates and reports, and not assume that their mere existence or provision is sufficient evidence that the service is being provided in accordance with their legal, regulatory, and risk management obligations; and 	<p>Google recognizes that regulated entities need to review our internal controls as part of their risk assessment. To assist, Google undergoes several independent third-party audits on at least an annual basis to provide independent verification of our operations and internal controls. Google commits to comply with the following key international standards during the term of our contract with you:</p> <ul style="list-style-type: none"> ISO/IEC 27001:2013 (Information Security Management Systems) ISO/IEC 27017:2015 (Cloud Security) ISO/IEC 27018:2014 (Cloud Privacy) SOC 1 SOC 2 SOC 3 <p>You can review Google's current certifications and audit reports at any time. Compliance reports manager provides you with easy, on-demand access to these critical compliance resources.</p>	Certifications and Audit Reports
91.	<ul style="list-style-type: none"> ensure that certificates and audit reports meet the expectations in Table 8. 	<p>Scope</p> <p>Google's audit scope covers in scope Services, infrastructure systems, policies and procedures, common processes and personnel. Google is audited on our security and privacy controls covering the relevant certifications and audit reports for the audit scope.</p>	Certifications and Audit Reports



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		<p><u>Content</u></p> <p>As part of Google's routine planning, scoping, and readiness activities, recurring key systems and controls, as well as new systems and controls, are reviewed prior to the audit work commencing.</p> <p>You can review Google's current certifications and audit reports at any time. Compliance reports manager provides you with easy, on-demand access to these critical compliance resources.</p> <p><u>Expertise, qualifications and skills</u></p> <p>Google engages certified and independent third party auditors for each audited framework. Refer to the relevant certification or audit report for information on the certifying or auditing party.</p> <p><u>Process</u></p> <p>Audits include testing of operational effectiveness of key controls in place.</p>	
92.	8.10 In material outsourcing arrangements, the PRA expects firms to retain the contractual rights to:		
93.	<ul style="list-style-type: none"> request additional, appropriate, and proportionate information if such a request is justified from legal, regulatory, or risk management perspectives; and 	<p>To ensure that they remain an effective tool, if a key system or control for a Service is not covered by Google's certifications or audit reports for that service, regulated entities can request an expansion of the scope.</p> <p>In addition, regulated entities always retain their information and access rights.</p>	<p>Certifications and Audit Reports</p> <p>Customer Information, Audit and Access</p>
94.	<ul style="list-style-type: none"> perform onsite audits (individual or pooled) at their discretion. 	<p>Regulated entities always retain the right to conduct an audit. The contract does not contain pre-defined steps before regulated entities can approach Google to exercise their audit, access and information rights. In other words, there is no hierarchy amongst the options for assessing our Services.</p>	Customer Information, Audit and Access
95.	Onsite audits		
96.	8.11 Before an onsite audit, the PRA expects firms, individuals, and organisations acting on their behalf to:		
97.	<ul style="list-style-type: none"> provide reasonable notice to the service provider, unless this is not possible due to a crisis or emergency, or because it would defeat the purpose of the 	<p>Reasonable notice enables Google to deliver an effective audit. For example, we can ensure the relevant Google experts are available and prepared to make the most of your</p>	Arrangements



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	audit. Such notice should include the location and purpose of the visit and the personnel that will participate in the visit;	time. Notice also enables Google to plan the audit so that it does not create undue risk to your environment or that of any other Google customer. Google recognizes that in some cases extended notice is not possible. In these cases we will work with the auditing party to address their needs.	
98.	<ul style="list-style-type: none"> verify that whoever is performing the audit has appropriate expertise, qualifications, and skills; and 	This is a customer consideration.	N/A
99.	<ul style="list-style-type: none"> take care if undertaking an audit of a multi-tenanted environment, (eg a cloud data centre), to avoid or mitigate risks to other clients of the service provider in the course of the audit (eg availability of data, confidentiality, impact on service levels). 	<p>It is extremely important to Google that what we do with one customer should not put any other customers at risk. This applies when you perform an audit. It also applies when any other customer performs an audit.</p> <p>When a regulated entity performs an audit we will work with them to minimize the disruption to our other customers. Just as we will work with another auditing customer to minimize the disruption to the regulated entity. In particular, we will be careful to comply with our security commitments at all times.</p>	Arrangements
100.	8.12 Certain types of onsite audit may create an unmanageable risk for the environment of the provider or its other clients, for example, by impacting service levels or the confidentiality, integrity, and availability of data. In such cases, the firm and the service provider may agree alternative ways to provide an equivalent level of assurance, for instance, through the inclusion of specific controls to be tested in a report or certification. The PRA expects that firms should retain their underlying right to conduct an onsite audit. For material outsourcing arrangements, the PRA would expect the firm to inform their supervisor if alternative means of assurance have been agreed.	Refer to Row 99.	N/A
101.	Pooled audits		
102.	8.13 Pooled audits may be organised by groups of firms sharing one or more service providers or facilitated by the service providers. They may be performed by representatives of the participating firms or specialists appointed on their behalf. Pooled audits can be more efficient and cost effective for firms and less disruptive for service providers running multi-tenanted environments. They can also help spread costs and disseminate best industry practices with regard to audit methods among firms.	Google recognizes the benefits of pooled audits. We would be happy to discuss this with regulated entities. For more information about Google's approach to pooled audits, refer to our 'Earning customer trust through a pandemic: delivering our 2020 CCAG pooled audit' blog post.	N/A
103.	8.14 Where pooled audits lead to common, shared findings, the PRA expects each participating firm to assess what these findings mean for it individually, and whether they require any follow-up on their part.	This is a customer consideration.	N/A
9	Sub-outsourcing		



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104.	9.1 The EBA Outsourcing GL define 'sub-outsourcing' as 'a situation where the service provider under an outsourcing arrangement further transfers an outsourced function to another service provider', which may also include part of an outsourced function. The PRA Rulebook also explicitly acknowledges that a service provider may perform 'a process, a service or an activity which would otherwise be undertaken by the firm itself [...] directly or by sub-outsourcing'. Sub-outsourcing, which is also sometimes referred to as 'chain' outsourcing, can amplify certain risks in material outsourcing, including:	Google recognizes that regulated entities need to consider the risks associated with sub-outsourcing. To ensure regulated entities retain oversight of any sub-outsourcing, Google will comply with clear conditions designed to provide transparency and choice. Refer to Row 116.	Additional Definitions; Google Subcontractors
105.	<ul style="list-style-type: none"> limiting firms' ability to manage the risks of the outsourcing arrangement, in particular, where there are large chains of sub-outsourced service providers spread across multiple jurisdictions; and 	Refer to Row 116.	N/A
106.	<ul style="list-style-type: none"> giving rise to additional or increased dependencies on certain service providers, which the firm may be fully aware of or may not want. 	Refer to Row 116.	N/A
107.	Firms' oversight of sub-outsourcing		
108.	9.3 The PRA expects firms to assess the relevant risks of sub-outsourcing before they enter into an outsourcing agreement. It is important that firms have visibility of the supply chain, and that service providers are encouraged to facilitate this by maintaining up-to-date lists of their sub-outsourced service providers.	Google will provide all the information required in the outsourcing register for each of our subcontractors. In addition Google will provide advance notice of changes to our subcontractors. Refer to Row 116 for more information.	Google Subcontractors
109.	9.4 The PRA expects firms to pay particular attention to the potential impact of large, complex sub-outsourcing chains on their operational resilience, including their ability to remain within impact tolerances during operational disruption. Firms should also consider whether extensive sub-outsourcing could compromise their ability to oversee and monitor an outsourcing arrangement.	Refer to Row 116.	N/A
110.	9.5 Firms should assess whether sub-outsourcing meets the materiality criteria set out in Chapter 5, which includes the potential impact on the firm's operational resilience and the provision of important business services. Firms should only agree to material sub-outsourcing if:	The regulated entity is best placed to decide if a sub-outsourced function meets the materiality criteria. To assist, Google will provide all the information required in the outsourcing register for each of our subcontractors.	N/A
111.	<ul style="list-style-type: none"> the sub-outsourcing will not give rise to undue operational risk for the firm in line with Outsourcing 2.1(1) (banks) and Conditions Governing Business 7.2(2) (insurers); and 	<p>Before engaging a subcontractor, Google will conduct an assessment considering the risks related to the subcontractor and the function to be subcontracted to confirm that the subcontractor is suitable.</p> <p>Google will remain accountable to you for the performance of all subcontracted obligations.</p>	Google Subcontractors
112.	<ul style="list-style-type: none"> sub-outsourced service providers undertake to: 		



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113.	<ul style="list-style-type: none"> o comply with all applicable laws, regulatory requirements, and contractual obligations; and 	Google requires our subcontractors to meet the same high standards that we do. In particular, Google requires our subcontractors to comply with our contract with you and applicable law and regulation.	Google Subcontractors
114.	<ul style="list-style-type: none"> o grant the firm, Bank, and PRA equivalent contractual access, audit, and information rights to those granted to the service provider. 	Sub-outsourcing must not reduce the regulated entity's ability to oversee the service or the supervisory authority's ability to supervise the regulated entity. To preserve this, Google will ensure our subcontractors comply with the information, access and audit rights we provide to regulated entities and supervisory authorities.	Google Subcontractors
115.	9.6 Firms should ensure that the service provider has the ability and capacity on an ongoing basis to appropriately oversee any material sub-outsourcing in line with the firm's relevant policy or policies. This includes establishing that the service provider has in place robust testing, monitoring, and control over its sub-outsourcing.	Google will oversee the performance of all subcontracted obligations and ensure our subcontractors comply with our contract with you.	Google Subcontractors
116.	9.7 If the proposed material sub-outsourcing could have significant adverse effects on a material outsourcing arrangement or would lead to a substantive increase of risk, the firm should exercise its right to object to the material sub-outsourcing and/or terminate the contract.	<p>To enable regulated entities to retain oversight of any subcontracting and provide choices about the services regulated entities use, Google will:</p> <ul style="list-style-type: none"> • provide information about our subcontractors; • provide advance notice of changes to our subcontractors; and • give regulated entities the ability to terminate if they have concerns about a new subcontractor. <p>Google will oversee the performance of all subcontracted obligations and ensure our subcontractors comply with our contract with you (including the audit and access rights).</p>	Google Subcontractors
117.	9.8 There may be situations where the same service provider has a direct contractual relationship with a firm and is also a sub-outsourced service provider to that firm. An example might be a firm that has an agreement with a cloud service provider that provides services to one or more software vendors used by that firm. In those situations, where appropriate, firms may leverage their direct contractual relationship with that service provider to assess its resilience in respect of all the services it relies on that provider for, including as a material sub-outsourced service provider.	This is a customer consideration.	N/A
118.	Written agreement		
119.	9.9 In line with Chapter 6, the PRA expects written agreements for material outsourcing to indicate whether or not material sub-outsourcing is permitted, and if so:		



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120.	<ul style="list-style-type: none"> specify any activities that cannot be sub-outsourced; 	<p>Google recognizes that regulated entities need to consider the risks associated with sub-outsourcing. We also want to provide you and all our customers with the most reliable, robust and resilient service that we can. In some cases there may be clear benefits to working with other trusted organizations e.g. to provide 24/7 support.</p> <p>Although Google will provide you with information about the organizations that we work with, we cannot agree that we will never sub-outsource. Given the one-to-many nature of our service, if we agreed with one customer that we would not sub-outsource, we would potentially be denying all our customers the benefit motivating the sub-outsourcing.</p> <p>To ensure regulated entities retain oversight of any sub-outsourcing, Google will comply with clear conditions designed to provide transparency and choice. See Row 121 below.</p>	Subcontracting
121.	<ul style="list-style-type: none"> establish the conditions to be complied with in the case of permissible sub-outsourcing, including specifying that the service provider is obliged to oversee those services that it has sub-contracted to ensure that all contractual obligations between the service provider and the firm are continuously met; 	<p>To enable regulated entities to retain oversight of any subcontracting and provide choices about the services regulated entities use, Google will:</p> <ul style="list-style-type: none"> provide information about our subcontractors; provide advance notice of changes to our subcontractors; and give regulated entities the ability to terminate if they have concerns about a new subcontractor. <p>Google will oversee the performance of all subcontracted obligations and ensure our subcontractors comply with our contract with you (including the audit and access rights).</p>	Google Subcontractors
122.	<ul style="list-style-type: none"> require the service provider to: 		
123.	<ul style="list-style-type: none"> obtain prior specific or general written authorisation from the firm before transferring data (see Article 28 GDPR); and 	Google will comply with our obligations under the GDPR regarding authorisation for subprocessing.	Processing of Data; Subprocessors (Cloud Data Processing Addendum)
124.	<ul style="list-style-type: none"> inform the firm of any planned sub-outsourcing or material changes, in particular where that might affect the ability of the service provider to meet its responsibilities under the outsourcing agreement. This includes planned significant changes to sub-contractors and to the notification period. Firms should be informed sufficiently early to allow them to at least carry out a risk assessment of the proposed changes and object to them before they come into effect; 	You need enough time from being informed of a subcontractor change to perform a meaningful risk assessment before the change comes into effect. To ensure you have the time you need, Google provides advance notice before we engage a new subcontractor or change the function of an existing subcontractor.	Google Subcontractors
125.	<ul style="list-style-type: none"> ensure that, where appropriate, firms have the right to: 		



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126.	<ul style="list-style-type: none"> o explicitly approve or object to the intended material sub-outsourcing or significant changes thereto; and 	Regulated entities have the choice to terminate our contract if they think that a sub-outsourcing change materially increases their risk. Refer to Row 127. However, given the one-to-many nature of our service, if we agreed that one customer could veto a sub-outsourcing, we would potentially allow a single customer to deny all our customers the benefit motivating the sub-outsourcing.	Google Subcontractors
127.	<ul style="list-style-type: none"> o ensure that the firm has the contractual right to terminate the agreement in the case of specific circumstances, (eg where the sub-outsourcing materially increases the risks for the firm or where the service provider sub-outsources without notifying the firm). 	Regulated entities should have a choice about the parties who provide services to them. To ensure this, regulated entities have the choice to terminate our contract if they think that a subcontractor change materially increases their risk or if they do not receive the agreed notice.	Google Subcontractors
10	Business continuity and exit plans		
128.	10.1 For each material outsourcing arrangement, the PRA expects firms to develop, maintain, and test a:	Google recognizes the importance of business continuity and exit planning. We do our own continuity planning for our services. You can also use our services in your own business continuity and exit planning.	Business Continuity and Disaster Recovery
129.	<ul style="list-style-type: none"> • business continuity plan; and 	Refer to Rows 135 to 150.	N/A
130.	<ul style="list-style-type: none"> • documented exit strategy, which should cover and differentiate between situations where a firm exits an outsourcing agreement: 	Refer to Rows 151 to 164.	N/A
131.	<ul style="list-style-type: none"> o in stressed circumstances, (eg following the failure or insolvency of the service provider (stressed exit)); and 	Refer to Rows 151 to 164.	N/A
132.	<ul style="list-style-type: none"> o through a planned and managed exit due to commercial, performance, or strategic reasons (non-stressed exit). 	Refer to Rows 151 to 164.	N/A
133.	10.2 The PRA's primary focus when it comes to business continuity plans and exit strategies is on the ability of firms to deliver important business services provided or supported by third parties in line with their impact tolerances in the event of disruption. Consequently, notwithstanding the importance of effectively planning for non-stressed exits, the main focus of this chapter is on business continuity and stressed exits.	This is a customer consideration.	N/A
134.	Business continuity		
135.	10.3 Firms should implement and require service providers in material outsourcing arrangements to implement appropriate business continuity plans to anticipate, withstand, respond to, and recover from severe but plausible operational disruption.	Google will implement a business continuity plan for the Services, review and test it at least annually and ensure it remains current with industry standards. Regulated entities can review our plan and testing results.	Business Continuity and Disaster Recovery



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		In addition, information about how customers can use our Services in their own business contingency planning is available in our Disaster Recovery Planning Guide .	
136.	10.4 An important objective of the access, audit, and information rights in Chapter 8 is to enable firms, the PRA, and the Bank to assess the effectiveness of service providers' business continuity plans. In particular, they should be able to assess the extent to which they may enable the delivery of important business services for which a firm relies (wholly or in part) on the service provider, within the firm's impact tolerance in severe but plausible scenarios.	For information on the access, audit and information rights that Google provides, refer to Rows 68 to 81.	N/A
137.	10.5 In material cloud outsourcing arrangements, the PRA expects firms to assess the resilience requirements of the service and data that are being outsourced and, with a risk-based approach, decide on one or more available cloud resiliency options, which may include:	Google recognizes that resilience is a key focus for regulated entities and supervisory authorities. Our Strengthening operational resilience in financial services by migrating to Google Cloud whitepaper discusses the continuing importance of operational resilience to the financial services sector, and the role that a well-executed migration to Google Cloud can play in strengthening it. Information on the reliability of the Services is available on our Google Cloud Help page.	N/A
138.	<ul style="list-style-type: none"> multiple data centres spread across geographical regions; 	Information about the location of Google's facilities and where individual Google Workspace services can be deployed is available on our Global Locations page .	Data Location (Service Specific Terms)
139.	<ul style="list-style-type: none"> multiple active data centres in different availability zones within the same region, which allows the service provider to re-route services if a data centre goes down; 	Refer to Row 138.	N/A
140.	<ul style="list-style-type: none"> a hybrid cloud (ie a combination of on-premises and public cloud data centres); 	Information about how customers can use our Services in their own business contingency planning is available on the Google Cloud Platform Disaster Recovery Planning Guide page and our Strengthening Operational Resilience in Financial Services whitepaper .	N/A
141.	<ul style="list-style-type: none"> multiple or back-up vendors; 	We recognize the importance of continuity for regulated entities and for this reason we are committed to data portability and open-source. Refer to our Engaging in a European dialogue on customer controls and open cloud solutions blog post and our Open Cloud page for more information on how Google's approach to open source can help you address vendor lock-in and concentration risk.	N/A
142.	<ul style="list-style-type: none"> retaining the ability to bring data or applications back on-premises; and/or 	Google will enable you to access and export your data throughout the duration of our contract and the transition term. More information is available on our Google Account help page.	Data Export (Cloud Data Processing Addendum)



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		In addition, Data Export is a feature that makes it easy to export and download a copy of your data securely from our Services.	
143.	<ul style="list-style-type: none"> any other viable approach that can achieve and promote an appropriate level of resiliency. 	Refer to our Strengthening operational resilience in financial services by migrating to Google Cloud whitepaper for information on the role that a well-executed migration to Google Cloud can play in strengthening resilience.	N/A
144.	10.6 There is no hierarchy or one-size-fits-all combination of cloud resiliency options. The optimal option or combination of options will depend on various factors, including but not limited to the:	<p>Foundationally, Google Cloud's infrastructure and operating model is of a scale and robustness that can provide regulated entities a way to increase their resilience in a highly commercial way.</p> <p>Equally important are the Google Cloud products, and our support for hybrid and multi-cloud, that help regulated entities manage various operational risks in a differentiated manner. Refer to Rows 135 to 143 and our Strengthening operational resilience in financial services by migrating to Google Cloud whitepaper for more information.</p>	N/A
145.	<ul style="list-style-type: none"> size and internal organisation and the nature, scope, and complexity of the firm's activities (proportionality); 	Refer to Row 144.	N/A
146.	<ul style="list-style-type: none"> potential impact of the outsourcing arrangement on the provision of important business services by the firm (materiality); and 	Refer to Row 144.	N/A
147.	<ul style="list-style-type: none"> the relative costs and benefits of different options, taking into account the risks that failure or prolonged operational disruption may pose to UK financial stability or the safety and soundness of the firm, and (for insurers) policyholder protection. 	Refer to Row 144.	N/A
148.	10.7 If a significant firm wants to outsource its core banking platform to the cloud, the PRA may expect it to adopt one or more of the most resilient options available to maximise the chances to maintain its resilience in the event of a serious outage. Conversely, if a non-significant firm wishes to do so, then a less resilient but nonetheless robust option or combination of options could be appropriate.	Refer to Row 144.	N/A
149.	10.8 The PRA expects firms to consider the implications of deliberately destructive cyber-attacks when establishing or reviewing data recovery capabilities, either individually or collaboratively.	Refer to Row 144.	N/A
150.	10.9 In line with Fundamental Rule 7, in the event of a disruption or emergency (including at an outsourced or third party service provider), firms should ensure that they have effective crisis communication measures in place. This is so all relevant internal and external stakeholders, including the Bank, PRA, FCA, other	Google will make information about developments that materially impact Google's ability to perform the Services in accordance with the SLAs available to you. More information is available on our Status Dashboard page.	Significant Developments



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#	Framework reference	Google Cloud commentary	Google Cloud Financial Services Contract reference
	international regulators, and, if relevant, the service providers themselves, are informed in a timely and appropriate manner.	In addition, Google will notify you of data incidents promptly and without undue delay. More information on Google's data incident response process is available in our Data incident response whitepaper .	Data Incidents (Cloud Data Processing Addendum)
151.	Stressed exits		
152.	10.10 Firms' exit plans should cover stressed exits and be appropriately documented and tested as far as possible.	<p>Google recognizes that regulated entities must plan for situations where their providers are unable, for any reason, to provide the services contracted.</p> <p>Google is committed to addressing customers' needs for portability and interoperability. We will enable you to access and export your data throughout the duration of our contract and during the post-termination transition term. You can export your data from the Services in a number of industry standard formats. Refer to Row 142 for more information.</p> <p>In addition, Google believes in an open cloud that supports multi-cloud and hybrid cloud approaches. If implemented through the use of open-source based technologies, these approaches can provide customers with the levels of portability, substitutability and survivability, required for robust exit planning. Refer to our Strengthening operational resilience in financial services by migrating to Google Cloud whitepaper for more information.</p>	Data Export (Cloud Data Processing Addendum)
153.	10.11 A key objective of the stressed exit part of exit plans is to provide a last resort risk mitigation strategy in the event of disruption that cannot be managed through other business continuity measures, including those mentioned in the previous section, (eg the insolvency or liquidation of a service provider). ⁴⁶	<p>Google recognizes that regulated entities need sufficient time to exit our services (including to transfer services to another service provider). To help regulated entities achieve this, upon request, Google will continue to provide the services for 12 months beyond the expiry or termination of the contract.</p> <p>You can review Google's financial status and audited financial statements on Alphabet's Investor Relations page.</p>	Transition Term
154.	10.12 The PRA does not prescribe or have a preferred form of exit in stressed scenarios. Its focus is on the outcome of the exit, (i.e. the continued provision by the firm of important business services provided or supported by third parties), rather than the method by which it is achieved.	This is a customer consideration.	N/A
155.	10.13 The PRA does, however, expect firms to identify viable forms of exit in a stressed exit scenario, and give meaningful consideration to those that best safeguard their operational resilience, which may include but not be limited to:		
156.	<ul style="list-style-type: none"> bringing the data, function, or service back in-house/on-premises; 	Refer to Rows 141 and 142.	N/A
157.	<ul style="list-style-type: none"> transferring the data, function, or service to an alternative or back-up service provider; or 	Refer to Rows 141 and 142.	N/A
158.	<ul style="list-style-type: none"> any other viable methods. 	Refer to Rows 141 and 142.	N/A



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159.	10.14 The PRA expects firms to consider the available tools that could help facilitate an orderly stressed exit from a material outsourcing arrangement. Such tools are constantly evolving, in particular in technology outsourcing, including cloud, and may include:		
160.	<ul style="list-style-type: none">new potential service providers;	This is a customer consideration.	N/A
161.	<ul style="list-style-type: none">technology solutions and tools to facilitate the switching and portability of data and applications; and	As part of your contingency planning, you can choose to use Anthos build, deploy and optimize your applications in both cloud and on-premises environments. Anthos provides a platform to develop, secure and manage applications across hybrid and multi-cloud environments. For more information, refer to the IDC Whitepaper on How A Multicloud Strategy Can Help Regulated Organizations Mitigate Risks In Cloud .	N/A
162.	<ul style="list-style-type: none">industry codes and standards.	Google complies with the SWIPO (Switching Cloud Providers and Porting Data) Data Portability Codes of Conduct. For more information refer to our SWIPO Data Portability Code of Conduct page.	N/A
163.	10.15 The PRA recognises that, in an intragroup outsourcing context, firms' exit options might be more limited than in other scenarios. This is particularly true for third-country branches, which are unable to enter into standalone contractual arrangements with third parties. Nevertheless, the PRA expects third-country branches to take reasonable steps to try and identify options, however limited, to maintain their operational resilience.	This is a customer consideration.	N/A
164.	10.16 Firms should also actively consider temporary measures that can help ensure the ongoing provision of important business services following a disruption and/or a stressed exit, even if these are not suitable long-term solutions, (eg contractual or escrow arrangements), allowing for continued use of a service or technology for a transitional period following termination.	This is a customer consideration.	N/A