

Payment Services

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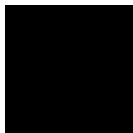
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Chapter 1

Strong Customer Authentication and Common and Secure Methods of Communication



Chapter -3 Application

In these Standards:

1. These Standards are made by the Financial Conduct Authority pursuant to Regulation 106A of the Payment Services Regulations 2017 as amended by the Electronic Money, Payment Services and Payment Systems (Amendment and Transitional Provisions) (EU Exit) Regulations 2018 in order to specify:
 2. These Standards apply to payment service providers authorised or registered in the UK or Gibraltar, including account servicing payment service providers and account information service providers.
 3. These Standards also apply to payment service providers who have temporary permission in accordance with paragraphs 2 and 14 of Schedule 3 of the Payment Services Regulations 2017 and the Electronic Money Regulations 2011 as amended by the Electronic Money, Payment Services and Payment Systems (Amendment and Transitional Provisions) (EU Exit) Regulations 2018.
 4. These Standards also apply to payment service providers who have continued authorisation for a limited purpose in accordance with paragraph 12B of Part 1A and paragraph 26 of Part 3 of the Payment Services Regulations and Electronic Money Regulations as amended by the Financial Services Contracts (Transitional and Saving Provision) (EU Exit) Regulations 2019.
 - (a) the requirements that must be met by strong customer authentication referred to in Regulation 100(1) and (2);
 - (b) the exemption from the application of Regulation 100(1), (2) and (3);
 - (c) the requirements with which security measures have to comply to protect the confidentiality and integrity of payment service users' personalised security credentials;
 - (d) the requirements for common and secure open standards of communication for the purpose of identification, authentication, notification and information, as well as for the implementation of security measures, between account servicing payment service providers, account information service providers, payers, payees and other payment service providers.
2. These Standards apply to payment service providers authorised or registered in the UK or Gibraltar, including account servicing payment service providers and account information service providers.
3. These Standards also apply to payment service providers who have temporary permission in accordance with paragraphs 2 and 14 of Schedule 3 of the Payment Services Regulations 2017 and the Electronic Money Regulations 2011 as amended by the Electronic Money, Payment Services and Payment Systems (Amendment and Transitional Provisions) (EU Exit) Regulations 2018.

4. These Standards also apply to payment service providers who have continued authorisation for a limited purpose in accordance with paragraph 12B of Part 1A and paragraph 26 of Part 3 of the Payment Services Regulations and Electronic Money Regulations as amended by the Financial Services Contracts (Transitional and Saving Provision) (EU Exit) Regulations 2019.

3. These Standards also apply to payment service providers who have temporary permission in accordance with paragraphs 2 and 14 of Schedule 3 of the Payment Services Regulations 2017 and the Electronic Money Regulations 2011 as amended by the Electronic Money, Payment Services and Payment Systems (Amendment and Transitional Provisions) (EU Exit) Regulations 2018.

4. These Standards also apply to payment service providers who have continued authorisation for a limited purpose in accordance with paragraph 12B of Part 1A and paragraph 26 of Part 3 of the Payment Services Regulations and Electronic Money Regulations as amended by the Financial Services Contracts (Transitional and Saving Provision) (EU Exit) Regulations 2019.

4. These Standards also apply to payment service providers who have continued authorisation for a limited purpose in accordance with paragraph 12B of Part 1A and paragraph 26 of Part 3 of the Payment Services Regulations and Electronic Money Regulations as amended by the Financial Services Contracts (Transitional and Saving Provision) (EU Exit) Regulations 2019.



Chapter -2 Definitions

In these Standards:

1. references to the Payment Services Regulations 2017 (SI 2017/752) are references to the Payment Services Regulations as amended by the Electronic Money, Payment Services and Payment Systems (Amendment and Transitional Provisions) (EU Exit) Regulations 2018;

2. where a term is defined in the Payment Services Regulations 2017 (SI 2017/752), that definition shall apply unless the contrary intention appears.

2. where a term is defined in the Payment Services Regulations 2017 (SI 2017/752), that definition shall apply unless the contrary intention appears.

Chapter -1 Guidance

1. Payment services offered electronically should be carried out in a secure manner, adopting technologies able to guarantee the safe authentication of the user and to reduce, to the maximum extent possible, the risk of fraud. The authentication procedure should include, in general, transaction monitoring mechanisms to detect attempts to use a payment service user's personalised security credentials that were lost, stolen, or misappropriated and should also ensure that the payment service user is the legitimate user and therefore is giving consent for the transfer of funds and access to its account information through a normal use of the personalised security credentials. Furthermore, it is necessary to specify the requirements of the strong customer authentication that should be applied each time a payer accesses its payment account online, initiates an electronic payment transaction or carries out any action through a remote channel which may imply a risk of payment fraud or other abuse, by requiring the generation of an authentication code which should be resistant against the risk of being forged in its entirety or by disclosure of any of the elements upon which the code was generated.
2. As fraud methods are constantly changing, the requirements of strong customer authentication should allow for innovation in the technical solutions addressing the emergence of new threats to the security of electronic payments. To ensure that the requirements to be laid down are effectively implemented on a continuous basis, it is also appropriate to require that the security measures for the application of strong customer authentication and its exemptions, the measures to protect confidentiality and integrity of the personalised security credentials, and the measures establishing common and secure open standards of communication are documented, periodically tested, evaluated and audited by auditors with expertise in IT security and payments, and operationally independent. In order to allow the FCA to monitor the quality of the review of these measures, such reviews should be made available to the FCA upon its request.
3. As electronic remote payment transactions are subject to a higher risk of fraud, it is necessary to introduce additional requirements for the strong customer authentication of such transactions, ensuring that the elements dynamically link the transaction to an amount and a payee specified by the payer when initiating the transaction.
4. Dynamic linking is possible through the generation of authentication codes, which are subject to a set of strict security requirements. To remain technologically neutral, a specific technology for the implementation of authentication codes should not be required. Therefore authentication codes should be based on solutions such as generating and validating one-time passwords, digital signatures or other cryptographically underpinned validity assertions using keys or cryptographic material stored in the authentication elements, as long as the security requirements are fulfilled.
5. It is necessary to lay down specific requirements for the situation where the final amount is not known at the moment the payer initiates an electronic remote payment transaction, in order to ensure that the strong customer authentication is specific to the maximum amount that the payer has given consent for as referred to in the Payment Services Regulations 2017 (SI 2017/752).
6. In order to ensure the application of strong customer authentication, it is also necessary to require adequate security features for the elements of strong customer authentication categorised as knowledge (something only the user knows), such as length or complexity, for the elements categorised as possession (something only the user possesses),

such as algorithm specifications, key length and information entropy, and for the devices and software that read elements categorised as inherence (something the user is), such as algorithm specifications, and biometric sensor and template protection features, in particular to mitigate the risk that those elements are uncovered, disclosed to and used by unauthorised parties. It is also necessary to lay down the requirements to ensure that those elements are independent, so that the breach of one does not compromise the reliability of the others, in particular when any of these elements are used through a multi-purpose device, such as a tablet or a mobile phone which can be used both for giving the instruction to make the payment and in the authentication process.

7. The requirements of strong customer authentication apply to payments initiated by the payer, regardless of whether the payer is a natural person or a legal entity.

8. Due to their very nature, payments made through the use of an anonymous payment instrument are not subject to the obligation of strong customer authentication. Where the anonymity of such instruments is lifted on contractual or legislative grounds, payments are subject to the security requirements that follow from the Payment Services Regulations 2017 (SI 2017/752) and this Regulatory Technical Standard.

9. In accordance with the Payment Services Regulations 2017 (SI 2017/752), exemptions to the principle of strong customer authentication have been defined based on the level of risk, amount, recurrence and the payment channel used for the execution of the payment transaction.

10. Actions which imply access to the balance and the recent transactions of a payment account without disclosure of sensitive payment data, recurring payments to the same payees which have been previously set up or confirmed by the payer through the use of strong customer authentication, and payments to and from the same natural or legal person with accounts with the same payment service provider pose a low level of risk, thus allowing payment service providers not to apply strong customer authentication. This leaves aside that in accordance with Regulations 68, 69 and 70 of the Payment Services Regulations 2017 (SI 2017/752), payment initiation service providers, payment service providers issuing card-based payment instruments and account information service providers should only seek and obtain the necessary and essential information from the account servicing payment service provider for the provision of a given payment service with the consent of the payment service user. Such consent can be given individually for each request of information or for each payment to be initiated or, for account information service providers, as a mandate for designated payment accounts and associated payment transactions as established in the contractual agreement with the payment service user.

11. Exemptions for low-value contactless payments at points of sale, which also take into account a maximum number of consecutive transactions or a certain fixed maximum value of consecutive transactions without applying strong customer authentication, allow for the development of user-friendly and low-risk payment services and should therefore be provided for. It is also appropriate to establish an exemption for the case of electronic payment transactions initiated at unattended terminals, where the use of strong customer authentication may not always be easy to apply due to operational reasons (e.g. to avoid queues and potential accidents at toll gates or for other safety or security risks).

12. Similar to the exemption for low-value contactless payments at the point of sale, a proper balance needs to be struck between the interest in enhanced security in remote payments and the needs of user-friendliness and accessibility of payments in the area of e-commerce. In line with those principles, thresholds below which no strong customer authentication needs to be applied should be set in a prudent manner, to cover only online purchases of low value. The thresholds for online purchases should be set more prudently, considering that the fact that the person is not physically present when making the purchase poses a slightly higher security risk.

13. The requirements of strong customer authentication apply to payments initiated by the payer, regardless of whether the payer is a natural person or a legal entity. Many corporate payments are initiated through dedicated processes or protocols which guarantee the high levels of payment security that the Payment Services Regulations 2017 (SI 2017/752) aims to achieve through strong customer authentication. Where the FCA establishes that those payment processes and protocols that are only made available to payers who are not consumers achieve the objectives of the Payment Services Regulations 2017 (SI 2017/752) in terms of security, payment service providers may, in relation to those processes or protocols, be exempted from the strong customer authentication requirements.

14. In the case of real-time transaction risk analysis that categorises a payment transaction as low risk, it is also appropriate to introduce an exemption for the payment service provider that intends not to apply strong customer authentication through the adoption of effective and risk-based requirements which ensure the safety of the payment service user's funds and personal data. Those risk-based requirements should combine the scores of the risk analysis, confirming that no abnormal spending or behavioural pattern of the payer has been identified, taking into account other risk factors including information on the location of the payer and of the payee with monetary thresholds based on fraud rates calculated for remote payments. Where, on the basis of the real-time transaction risk analysis, a payment cannot be qualified as posing a low level of risk, the payment service provider should revert to strong customer authentication. The maximum value of such risk-based exemption should be set in a manner ensuring a very low corresponding fraud rate, also by comparison to the fraud rates of all the payment transactions of the payment service provider, including those authenticated through strong customer authentication, within a certain period of time and on a rolling basis.

15. For the purpose of ensuring an effective enforcement, payment service providers that wish to benefit from the exemptions from strong customer authentication should regularly monitor and make available to the FCA upon its request, for each payment transaction type, the value of fraudulent or unauthorised payment transactions and the observed fraud rates for all their payment transactions, whether authenticated through strong customer authentication or executed under a relevant exemption.

16. The collection of this new historical evidence on the fraud rates of electronic payment transactions will also contribute to an effective review by the FCA of the thresholds for an exemption to strong customer authentication based on a real-time transaction risk analysis. The FCA should review and, if appropriate, update these Standards, including where appropriate the thresholds and fraud rates, with the aim of enhancing the security of remote electronic payments, on a regular basis to take account of innovation and technical developments as well as other relevant matters.

17. Payment service providers that make use of any of the exemptions to be provided for should be allowed at any time to choose to apply strong customer authentication to the actions and to the payment transactions referred to in those provisions.

18. The measures that protect the confidentiality and integrity of personalised security credentials, as well as authentication devices and software, should limit the risks relating to fraud through unauthorised or fraudulent use of payment instruments and unauthorised access to payment accounts. To this end it is necessary to introduce requirements on the secure creation and delivery of the personalised security credentials and their association with the payment service user, and to provide conditions for the renewal and deactivation of those credentials.

19. In order to ensure effective and secure communication between the relevant actors in the context of account information services, payment initiation services and confirmation on the availability of funds, it is necessary to specify the requirements of common and secure open standards of communication to be met by all relevant payment service providers. The Payment Services Regulations 2017 (SI 2017/752) provide for the access and use of payment account information by account information service providers. These Standards therefore do not change the rules of access to accounts other than payment accounts.

20. Each account servicing payment service provider with payment accounts that are accessible online should offer at least one access interface enabling secure communication with account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. The interface should enable the account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments to identify themselves to the account servicing payment service provider. It should also allow account information service providers and payment initiation service providers to rely on the authentication procedures provided by the account servicing payment service provider to the payment service user.

FCA 2021/45 To ensure technology and business model neutrality, the account servicing payment service providers should be free to decide whether to offer an interface that is dedicated to the communication with account information service providers, payment initiation service providers, and payment service providers issuing card-based payment instruments, or to allow, for that communication, the use of the interface for the identification

and communication with the account servicing payment service providers' payment service users.

21. In order to allow account information service providers, payment initiation service providers, and payment service providers issuing card-based payment instruments to develop their technical solutions, the technical specification of the interface should be adequately documented and made publicly available. The effect of Articles 30(3) and (5) is that the account servicing payment service provider should offer a facility enabling the payment service providers to test the technical solutions

at least six months prior to by FCA 2021/45 the date on which the interface will be launched to the market. To ensure the interoperability of different technological communication solutions, the interface should use standards of communication which are developed by international standardisation organisations.

22. The quality of the services provided by account information service providers and payment initiation service providers will depend on the proper functioning of the interfaces put in place or adapted by account servicing payment service providers. It is therefore important that in case of non-compliance of such interfaces with the provisions included in these Standards, measures are taken to guarantee business continuity for the benefit of the users of those services. It is the responsibility of the FCA to ensure that account information service providers and payment initiation service providers are not blocked or obstructed in the provision of their services.

23. Where access to payment accounts is offered by means of a dedicated interface, in order to ensure the right of payment service users to make use of payment initiation service providers and of services enabling access to account information, as provided for in the Payment Services Regulations 2017 (SI 2017/752), it is necessary to require that dedicated interfaces have the same level of availability and performance as the interface available to the payment service user. Account servicing payment service providers should also define transparent key performance indicators and service level targets for the availability and performance of dedicated interfaces that are at least as stringent as those for the interface used for their payment service users. Those interfaces should be tested by the payment service providers who will use them, and should be stress-tested and monitored by the FCA.

24. To ensure that payment service providers who rely on the dedicated interface can continue to provide their services in case of problems of availability or inadequate performance, it is necessary to provide, subject to strict conditions, a fallback mechanism that will allow such providers to use the interface that the account servicing payment service provider maintains for the identification of, and communication with, its own payment service users. Certain account servicing payment service providers will be exempted from having to provide such a fallback mechanism through their customer-facing interfaces where the FCA establishes that the dedicated interfaces comply with specific conditions that ensure unhampered competition. In the event that the exempted dedicated interfaces fail to comply with the required conditions, the granted exemptions shall be revoked by the FCA.

25. In order to allow the FCA to effectively supervise and monitor the implementation and management of the communication interfaces, the account servicing payment service providers should make a summary of the relevant documentation available on their website, and provide, upon request, the FCA with documentation of the solutions in case of emergencies. The account servicing payment service providers should also make publicly available the statistics on the availability and performance of that interface.

26. In order to safeguard the confidentiality and the integrity of data, it is necessary to ensure the security of communication sessions between account servicing payment service providers, account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. It is in particular necessary to require that secure encryption is applied between account information service providers, payment initiation service providers, payment service providers issuing card-based payment instruments and account servicing payment service providers when exchanging data.

27. To improve user confidence and ensure strong customer authentication, account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments shall identify themselves to account servicing payment service providers using a form of identification issued by an independent third party. Where relevant, the use of electronic identification means and trust services as set out in Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July

2014 on electronic identification and trust service for electronic transactions in the internal market, as amended by the Electronic Identification and Trust Services for Electronic Transactions (Amendment etc.) (EU Exit) Regulations 2019 as came into force on IP completion day as defined in the EU (Withdrawal Agreement) Act 2020, should be taken into account, in particular with regard to notified electronic identification schemes.

2. As fraud methods are constantly changing, the requirements of strong customer authentication should allow for innovation in the technical solutions addressing the emergence of new threats to the security of electronic payments. To ensure that the requirements to be laid down are effectively implemented on a continuous basis, it is also appropriate to require that the security measures for the application of strong customer authentication and its exemptions, the measures to protect confidentiality and integrity of the personalised security credentials, and the measures establishing common and secure open standards of communication are documented, periodically tested, evaluated and audited by auditors with expertise in IT security and payments, and operationally independent. In order to allow the FCA to monitor the quality of the review of these measures, such reviews should be made available to the FCA upon its request.

3. As electronic remote payment transactions are subject to a higher risk of fraud, it is necessary to introduce additional requirements for the strong customer authentication of such transactions, ensuring that the elements dynamically link the transaction to an amount and a payee specified by the payer when initiating the transaction.

4. Dynamic linking is possible through the generation of authentication codes, which are subject to a set of strict security requirements. To remain technologically neutral, a specific technology for the implementation of authentication codes should not be required. Therefore authentication codes should be based on solutions such as generating and validating one-time passwords, digital signatures or other cryptographically underpinned validity assertions using keys or cryptographic material stored in the authentication elements, as long as the security requirements are fulfilled.

5. It is necessary to lay down specific requirements for the situation where the final amount is not known at the moment the payer initiates an electronic remote payment transaction, in order to ensure that the strong customer authentication is specific to the maximum amount that the payer has given consent for as referred to in the Payment Services Regulations 2017 (SI 2017/752).

6. In order to ensure the application of strong customer authentication, it is also necessary to require adequate security features for the elements of strong customer authentication categorised as knowledge (something only the user knows), such as length or complexity, for the elements categorised as possession (something only the user possesses), such as algorithm specifications, key length and information entropy, and for the devices and software that read elements categorised as inherence (something the user is), such as algorithm specifications, and biometric sensor and template protection features, in particular to mitigate the risk that those elements are uncovered, disclosed to and used by unauthorised parties. It is also necessary to lay down the requirements to ensure that those elements are independent, so that the breach of one does not compromise the reliability of the others, in particular when any of these elements are used through a multi-purpose device, such as a tablet or a mobile phone which can be used both for giving the instruction to make the payment and in the authentication process.

7. The requirements of strong customer authentication apply to payments initiated by the payer, regardless of whether the payer is a natural person or a legal entity.

8. Due to their very nature, payments made through the use of an anonymous payment instrument are not subject to the obligation of strong customer authentication. Where the anonymity of such instruments is lifted on contractual or legislative grounds, payments are subject to the security requirements that follow from the Payment Services Regulations 2017 (SI 2017/752) and this Regulatory Technical Standard.

9. In accordance with the Payment Services Regulations 2017 (SI 2017/752), exemptions to the principle of strong customer authentication have been defined based on the level of risk, amount, recurrence and the payment channel used for the execution of the payment transaction.

10. Actions which imply access to the balance and the recent transactions of a payment account without disclosure of sensitive payment data, recurring payments to the same payees

which have been previously set up or confirmed by the payer through the use of strong customer authentication, and payments to and from the same natural or legal person with accounts with the same payment service provider pose a low level of risk, thus allowing payment service providers not to apply strong customer authentication. This leaves aside that in accordance with Regulations 68, 69 and 70 of the Payment Services Regulations 2017 (SI 2017/752), payment initiation service providers, payment service providers issuing card-based payment instruments and account information service providers should only seek and obtain the necessary and essential information from the account servicing payment service provider for the provision of a given payment service with the consent of the payment service user. Such consent can be given individually for each request of information or for each payment to be initiated or, for account information service providers, as a mandate for designated payment accounts and associated payment transactions as established in the contractual agreement with the payment service user.

11. Exemptions for low-value contactless payments at points of sale, which also take into account a maximum number of consecutive transactions or a certain fixed maximum value of consecutive transactions without applying strong customer authentication, allow for the development of user-friendly and low-risk payment services and should therefore be provided for. It is also appropriate to establish an exemption for the case of electronic payment transactions initiated at unattended terminals, where the use of strong customer authentication may not always be easy to apply due to operational reasons (e.g. to avoid queues and potential accidents at toll gates or for other safety or security risks).

12. Similar to the exemption for low-value contactless payments at the point of sale, a proper balance needs to be struck between the interest in enhanced security in remote payments and the needs of user-friendliness and accessibility of payments in the area of e-commerce. In line with those principles, thresholds below which no strong customer authentication needs to be applied should be set in a prudent manner, to cover only online purchases of low value. The thresholds for online purchases should be set more prudently, considering that the fact that the person is not physically present when making the purchase poses a slightly higher security risk.

13. The requirements of strong customer authentication apply to payments initiated by the payer, regardless of whether the payer is a natural person or a legal entity. Many corporate payments are initiated through dedicated processes or protocols which guarantee the high levels of payment security that the Payment Services Regulations 2017 (SI 2017/752) aims to achieve through strong customer authentication. Where the FCA establishes that those payment processes and protocols that are only made available to payers who are not consumers achieve the objectives of the Payment Services Regulations 2017 (SI 2017/752) in terms of security, payment service providers may, in relation to those processes or protocols, be exempted from the strong customer authentication requirements.

14. In the case of real-time transaction risk analysis that categorises a payment transaction as low risk, it is also appropriate to introduce an exemption for the payment service provider that intends not to apply strong customer authentication through the adoption of effective and risk-based requirements which ensure the safety of the payment service user's funds and personal data. Those risk-based requirements should combine the scores of the risk analysis, confirming that no abnormal spending or behavioural pattern of the payer has been identified, taking into account other risk factors including information on the location of the payer and of the payee with monetary thresholds based on fraud rates calculated for remote payments. Where, on the basis of the real-time transaction risk analysis, a payment cannot be qualified as posing a low level of risk, the payment service provider should revert to strong customer authentication. The maximum value of such risk-based exemption should be set in a manner ensuring a very low corresponding fraud rate, also by comparison to the fraud rates of all the payment transactions of the payment service provider, including those authenticated through strong customer authentication, within a certain period of time and on a rolling basis.

15. For the purpose of ensuring an effective enforcement, payment service providers that wish to benefit from the exemptions from strong customer authentication should regularly monitor and make available to the FCA upon its request, for each payment transaction type, the value of fraudulent or unauthorised payment transactions and the observed fraud rates for all their payment transactions, whether authenticated through strong customer authentication or executed under a relevant exemption.

16. The collection of this new historical evidence on the fraud rates of electronic payment transactions will also contribute to an effective review by the FCA of the thresholds for an exemption to strong customer authentication based on a real-time transaction risk analysis. The FCA should review and, if appropriate, update these Standards, including where appropriate the thresholds and fraud rates, with the aim of enhancing the security of remote electronic payments, on a regular basis to take account of innovation and technical developments as well as other relevant matters.

17. Payment service providers that make use of any of the exemptions to be provided for should be allowed at any time to choose to apply strong customer authentication to the actions and to the payment transactions referred to in those provisions.

18. The measures that protect the confidentiality and integrity of personalised security credentials, as well as authentication devices and software, should limit the risks relating to fraud through unauthorised or fraudulent use of payment instruments and unauthorised access to payment accounts. To this end it is necessary to introduce requirements on the secure creation and delivery of the personalised security credentials and their association with the payment service user, and to provide conditions for the renewal and deactivation of those credentials.

19. In order to ensure effective and secure communication between the relevant actors in the context of account information services, payment initiation services and confirmation on the availability of funds, it is necessary to specify the requirements of common and secure open standards of communication to be met by all relevant payment service providers. The Payment Services Regulations 2017 (SI 2017/752) provide for the access and use of payment account information by account information service providers. These Standards therefore do not change the rules of access to accounts other than payment accounts.

20. Each account servicing payment service provider with payment accounts that are accessible online should offer at least one access interface enabling secure communication with account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. The interface should enable the account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments to identify themselves to the account servicing payment service provider. It should also allow account information service providers and payment initiation service providers to rely on the authentication procedures provided by the account servicing payment service provider to the payment service user.

FCA 2021/45 To ensure technology and business model neutrality, the account servicing payment service providers should be free to decide whether to offer an interface that is dedicated to the communication with account information service providers, payment initiation service providers, and payment service providers issuing card-based payment instruments, or to allow, for that communication, the use of the interface for the identification and communication with the account servicing payment service providers' payment service users.

21. In order to allow account information service providers, payment initiation service providers, and payment service providers issuing card-based payment instruments to develop their technical solutions, the technical specification of the interface should be adequately documented and made publicly available. The effect of Articles 30(3) and (5) is that the account servicing payment service provider should offer a facility enabling the payment service providers to test the technical solutions

at least six months prior to by FCA 2021/45 the date on which the interface will be launched to the market. To ensure the interoperability of different technological communication solutions, the interface should use standards of communication which are developed by international standardisation organisations.

22. The quality of the services provided by account information service providers and payment initiation service providers will depend on the proper functioning of the interfaces put in place or adapted by account servicing payment service providers. It is therefore important that in case of non-compliance of such interfaces with the provisions included in these Standards, measures are taken to guarantee business continuity for the benefit of the users of those services. It is the responsibility of the FCA to ensure that account information service providers and payment initiation service providers are not blocked or obstructed in the provision of their services.

23. Where access to payment accounts is offered by means of a dedicated interface, in order to ensure the right of payment service users to make use of payment initiation service providers and of services enabling access to account information, as provided for in the Payment Services Regulations 2017 (SI 2017/752), it is necessary to require that dedicated interfaces have the same level of availability and performance as the interface available to the payment service user. Account servicing payment service providers should also define transparent key performance indicators and service level targets for the availability and performance of dedicated interfaces that are at least as stringent as those for the interface used for their payment service users. Those interfaces should be tested by the payment service providers who will use them, and should be stress-tested and monitored by the FCA.

24. To ensure that payment service providers who rely on the dedicated interface can continue to provide their services in case of problems of availability or inadequate performance, it is necessary to provide, subject to strict conditions, a fallback mechanism that will allow such providers to use the interface that the account servicing payment service provider maintains for the identification of, and communication with, its own payment service users. Certain account servicing payment service providers will be exempted from having to provide such a fallback mechanism through their customer-facing interfaces where the FCA establishes that the dedicated interfaces comply with specific conditions that ensure unhampered competition. In the event that the exempted dedicated interfaces fail to comply with the required conditions, the granted exemptions shall be revoked by the FCA.

25. In order to allow the FCA to effectively supervise and monitor the implementation and management of the communication interfaces, the account servicing payment service providers should make a summary of the relevant documentation available on their website, and provide, upon request, the FCA with documentation of the solutions in case of emergencies. The account servicing payment service providers should also make publicly available the statistics on the availability and performance of that interface.

26. In order to safeguard the confidentiality and the integrity of data, it is necessary to ensure the security of communication sessions between account servicing payment service providers, account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. It is in particular necessary to require that secure encryption is applied between account information service providers, payment initiation service providers, payment service providers issuing card-based payment instruments and account servicing payment service providers when exchanging data.

27. To improve user confidence and ensure strong customer authentication, account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments shall identify themselves to account servicing payment service providers using a form of identification issued by an independent third party. Where relevant, the use of electronic identification means and trust services as set out in Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust service for electronic transactions in the internal market, as amended by the Electronic Identification and Trust Services for Electronic Transactions (Amendment etc.) (EU Exit) Regulations 2019 as came into force on IP completion day as defined in the EU (Withdrawal Agreement) Act 2020, should be taken into account, in particular with regard to notified electronic identification schemes.

3. As electronic remote payment transactions are subject to a higher risk of fraud, it is necessary to introduce additional requirements for the strong customer authentication of such transactions, ensuring that the elements dynamically link the transaction to an amount and a payee specified by the payer when initiating the transaction.

4. Dynamic linking is possible through the generation of authentication codes, which are subject to a set of strict security requirements. To remain technologically neutral, a specific technology for the implementation of authentication codes should not be required. Therefore authentication codes should be based on solutions such as generating and validating one-time passwords, digital signatures or other cryptographically underpinned validity assertions using keys or cryptographic material stored in the authentication elements, as long as the security requirements are fulfilled.

5. It is necessary to lay down specific requirements for the situation where the final amount is not known at the moment the payer initiates an electronic remote payment transaction, in

order to ensure that the strong customer authentication is specific to the maximum amount that the payer has given consent for as referred to in the Payment Services Regulations 2017 (SI 2017/752).

6. In order to ensure the application of strong customer authentication, it is also necessary to require adequate security features for the elements of strong customer authentication categorised as knowledge (something only the user knows), such as length or complexity, for the elements categorised as possession (something only the user possesses), such as algorithm specifications, key length and information entropy, and for the devices and software that read elements categorised as inherence (something the user is), such as algorithm specifications, and biometric sensor and template protection features, in particular to mitigate the risk that those elements are uncovered, disclosed to and used by unauthorised parties. It is also necessary to lay down the requirements to ensure that those elements are independent, so that the breach of one does not compromise the reliability of the others, in particular when any of these elements are used through a multi-purpose device, such as a tablet or a mobile phone which can be used both for giving the instruction to make the payment and in the authentication process.

7. The requirements of strong customer authentication apply to payments initiated by the payer, regardless of whether the payer is a natural person or a legal entity.

8. Due to their very nature, payments made through the use of an anonymous payment instrument are not subject to the obligation of strong customer authentication. Where the anonymity of such instruments is lifted on contractual or legislative grounds, payments are subject to the security requirements that follow from the Payment Services Regulations 2017 (SI 2017/752) and this Regulatory Technical Standard.

9. In accordance with the Payment Services Regulations 2017 (SI 2017/752), exemptions to the principle of strong customer authentication have been defined based on the level of risk, amount, recurrence and the payment channel used for the execution of the payment transaction.

10. Actions which imply access to the balance and the recent transactions of a payment account without disclosure of sensitive payment data, recurring payments to the same payees which have been previously set up or confirmed by the payer through the use of strong customer authentication, and payments to and from the same natural or legal person with accounts with the same payment service provider pose a low level of risk, thus allowing payment service providers not to apply strong customer authentication. This leaves aside that in accordance with Regulations 68, 69 and 70 of the Payment Services Regulations 2017 (SI 2017/752), payment initiation service providers, payment service providers issuing card-based payment instruments and account information service providers should only seek and obtain the necessary and essential information from the account servicing payment service provider for the provision of a given payment service with the consent of the payment service user. Such consent can be given individually for each request of information or for each payment to be initiated or, for account information service providers, as a mandate for designated payment accounts and associated payment transactions as established in the contractual agreement with the payment service user.

11. Exemptions for low-value contactless payments at points of sale, which also take into account a maximum number of consecutive transactions or a certain fixed maximum value of consecutive transactions without applying strong customer authentication, allow for the development of user-friendly and low-risk payment services and should therefore be provided for. It is also appropriate to establish an exemption for the case of electronic payment transactions initiated at unattended terminals, where the use of strong customer authentication may not always be easy to apply due to operational reasons (e.g. to avoid queues and potential accidents at toll gates or for other safety or security risks).

12. Similar to the exemption for low-value contactless payments at the point of sale, a proper balance needs to be struck between the interest in enhanced security in remote payments and the needs of user-friendliness and accessibility of payments in the area of e-commerce. In line with those principles, thresholds below which no strong customer authentication needs to be applied should be set in a prudent manner, to cover only online purchases of low value. The thresholds for online purchases should be set more prudently, considering that the fact that the person is not physically present when making the purchase poses a slightly higher security risk.

13. The requirements of strong customer authentication apply to payments initiated by the payer, regardless of whether the payer is a natural person or a legal entity. Many corporate

payments are initiated through dedicated processes or protocols which guarantee the high levels of payment security that the Payment Services Regulations 2017 (SI 2017/752) aims to achieve through strong customer authentication. Where the FCA establishes that those payment processes and protocols that are only made available to payers who are not consumers achieve the objectives of the Payment Services Regulations 2017 (SI 2017/752) in terms of security, payment service providers may, in relation to those processes or protocols, be exempted from the strong customer authentication requirements.

14. In the case of real-time transaction risk analysis that categorises a payment transaction as low risk, it is also appropriate to introduce an exemption for the payment service provider that intends not to apply strong customer authentication through the adoption of effective and risk-based requirements which ensure the safety of the payment service user's funds and personal data. Those risk-based requirements should combine the scores of the risk analysis, confirming that no abnormal spending or behavioural pattern of the payer has been identified, taking into account other risk factors including information on the location of the payer and of the payee with monetary thresholds based on fraud rates calculated for remote payments. Where, on the basis of the real-time transaction risk analysis, a payment cannot be qualified as posing a low level of risk, the payment service provider should revert to strong customer authentication. The maximum value of such risk-based exemption should be set in a manner ensuring a very low corresponding fraud rate, also by comparison to the fraud rates of all the payment transactions of the payment service provider, including those authenticated through strong customer authentication, within a certain period of time and on a rolling basis.

15. For the purpose of ensuring an effective enforcement, payment service providers that wish to benefit from the exemptions from strong customer authentication should regularly monitor and make available to the FCA upon its request, for each payment transaction type, the value of fraudulent or unauthorised payment transactions and the observed fraud rates for all their payment transactions, whether authenticated through strong customer authentication or executed under a relevant exemption.

16. The collection of this new historical evidence on the fraud rates of electronic payment transactions will also contribute to an effective review by the FCA of the thresholds for an exemption to strong customer authentication based on a real-time transaction risk analysis. The FCA should review and, if appropriate, update these Standards, including where appropriate the thresholds and fraud rates, with the aim of enhancing the security of remote electronic payments, on a regular basis to take account of innovation and technical developments as well as other relevant matters.

17. Payment service providers that make use of any of the exemptions to be provided for should be allowed at any time to choose to apply strong customer authentication to the actions and to the payment transactions referred to in those provisions.

18. The measures that protect the confidentiality and integrity of personalised security credentials, as well as authentication devices and software, should limit the risks relating to fraud through unauthorised or fraudulent use of payment instruments and unauthorised access to payment accounts. To this end it is necessary to introduce requirements on the secure creation and delivery of the personalised security credentials and their association with the payment service user, and to provide conditions for the renewal and deactivation of those credentials.

19. In order to ensure effective and secure communication between the relevant actors in the context of account information services, payment initiation services and confirmation on the availability of funds, it is necessary to specify the requirements of common and secure open standards of communication to be met by all relevant payment service providers. The Payment Services Regulations 2017 (SI 2017/752) provide for the access and use of payment account information by account information service providers. These Standards therefore do not change the rules of access to accounts other than payment accounts.

20. Each account servicing payment service provider with payment accounts that are accessible online should offer at least one access interface enabling secure communication with account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. The interface should enable the account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments to identify themselves to the account servicing payment service provider. It should also allow account information service providers and payment initiation service providers to rely on the authentica-

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21. In order to allow account information service providers, payment initiation service providers, and payment service providers issuing card-based payment instruments to develop their technical solutions, the technical specification of the interface should be adequately documented and made publicly available. The effect of Articles 30(3) and (5) is that the account servicing payment service provider should offer a facility enabling the payment service providers to test the technical solutions

at least six months prior to by FCA 2021/45 the date on which the interface will be launched to the market. To ensure the interoperability of different technological communication solutions, the interface should use standards of communication which are developed by international standardisation organisations.

22. The quality of the services provided by account information service providers and payment initiation service providers will depend on the proper functioning of the interfaces put in place or adapted by account servicing payment service providers. It is therefore important that in case of non-compliance of such interfaces with the provisions included in these Standards, measures are taken to guarantee business continuity for the benefit of the users of those services. It is the responsibility of the FCA to ensure that account information service providers and payment initiation service providers are not blocked or obstructed in the provision of their services.

23. Where access to payment accounts is offered by means of a dedicated interface, in order to ensure the right of payment service users to make use of payment initiation service providers and of services enabling access to account information, as provided for in the Payment Services Regulations 2017 (SI 2017/752), it is necessary to require that dedicated interfaces have the same level of availability and performance as the interface available to the payment service user. Account servicing payment service providers should also define transparent key performance indicators and service level targets for the availability and performance of dedicated interfaces that are at least as stringent as those for the interface used for their payment service users. Those interfaces should be tested by the payment service providers who will use them, and should be stress-tested and monitored by the FCA.

24. To ensure that payment service providers who rely on the dedicated interface can continue to provide their services in case of problems of availability or inadequate performance, it is necessary to provide, subject to strict conditions, a fallback mechanism that will allow such providers to use the interface that the account servicing payment service provider maintains for the identification of, and communication with, its own payment service users. Certain account servicing payment service providers will be exempted from having to provide such a fallback mechanism through their customer-facing interfaces where the FCA establishes that the dedicated interfaces comply with specific conditions that ensure unhampered competition. In the event that the exempted dedicated interfaces fail to comply with the required conditions, the granted exemptions shall be revoked by the FCA.

25. In order to allow the FCA to effectively supervise and monitor the implementation and management of the communication interfaces, the account servicing payment service providers should make a summary of the relevant documentation available on their website, and provide, upon request, the FCA with documentation of the solutions in case of emergencies. The account servicing payment service providers should also make publicly available the statistics on the availability and performance of that interface.

26. In order to safeguard the confidentiality and the integrity of data, it is necessary to ensure the security of communication sessions between account servicing payment service providers, account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. It is in particular necessary to require that secure encryption is applied between account information service providers, payment initiation service providers, payment service providers issuing card-

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23. Where access to payment accounts is offered by means of a dedicated interface, in order to ensure the right of payment service users to make use of payment initiation service providers and of services enabling access to account information, as provided for in the Payment Services Regulations 2017 (SI 2017/752), it is necessary to require that dedicated interfaces have the same level of availability and performance as the interface available to the payment service user. Account servicing payment service providers should also define transparent key performance indicators and service level targets for the availability and performance of dedicated interfaces that are at least as stringent as those for the interface used for their payment service users. Those interfaces should be tested by the payment service providers who will use them, and should be stress-tested and monitored by the FCA.

24. To ensure that payment service providers who rely on the dedicated interface can continue to provide their services in case of problems of availability or inadequate performance, it is necessary to provide, subject to strict conditions, a fallback mechanism that will allow such providers to use the interface that the account servicing payment service provider maintains for the identification of, and communication with, its own payment service users. Certain account servicing payment service providers will be exempted from having to provide such a fallback mechanism through their customer-facing interfaces where the FCA establishes that the dedicated interfaces comply with specific conditions that ensure unhampered competition. In the event that the exempted dedicated interfaces fail to comply with the required conditions, the granted exemptions shall be revoked by the FCA.

25. In order to allow the FCA to effectively supervise and monitor the implementation and management of the communication interfaces, the account servicing payment service providers should make a summary of the relevant documentation available on their website, and provide, upon request, the FCA with documentation of the solutions in case of emergencies. The account servicing payment service providers should also make publicly available the statistics on the availability and performance of that interface.

26. In order to safeguard the confidentiality and the integrity of data, it is necessary to ensure the security of communication sessions between account servicing payment service providers, account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. It is in particular necessary to require that secure encryption is applied between account information service providers, payment initiation service providers, payment service providers issuing card-based payment instruments and account servicing payment service providers when exchanging data.

27. To improve user confidence and ensure strong customer authentication, account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments shall identify themselves to account servicing payment service providers using a form of identification issued by an independent third party. Where relevant, the use of electronic identification means and trust services as set out in Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust service for electronic transactions in the internal market, as amended by the Electronic Identification and Trust Services for Electronic Transactions (Amendment etc.) (EU Exit) Regulations 2019 as came into force on IP completion day as defined in the EU (Withdrawal Agreement) Act 2020, should be taken into account, in particular with regard to notified electronic identification schemes.

6. In order to ensure the application of strong customer authentication, it is also necessary to require adequate security features for the elements of strong customer authentication categorised as knowledge (something only the user knows), such as length or

complexity, for the elements categorised as possession (something only the user possesses), such as algorithm specifications, key length and information entropy, and for the devices and software that read elements categorised as inherence (something the user is), such as algorithm specifications, and biometric sensor and template protection features, in particular to mitigate the risk that those elements are uncovered, disclosed to and used by unauthorised parties. It is also necessary to lay down the requirements to ensure that those elements are independent, so that the breach of one does not compromise the reliability of the others, in particular when any of these elements are used through a multi-purpose device, such as a tablet or a mobile phone which can be used both for giving the instruction to make the payment and in the authentication process.

7. The requirements of strong customer authentication apply to payments initiated by the payer, regardless of whether the payer is a natural person or a legal entity.

8. Due to their very nature, payments made through the use of an anonymous payment instrument are not subject to the obligation of strong customer authentication. Where the anonymity of such instruments is lifted on contractual or legislative grounds, payments are subject to the security requirements that follow from the Payment Services Regulations 2017 (SI 2017/752) and this Regulatory Technical Standard.

9. In accordance with the Payment Services Regulations 2017 (SI 2017/752), exemptions to the principle of strong customer authentication have been defined based on the level of risk, amount, recurrence and the payment channel used for the execution of the payment transaction.

10. Actions which imply access to the balance and the recent transactions of a payment account without disclosure of sensitive payment data, recurring payments to the same payees which have been previously set up or confirmed by the payer through the use of strong customer authentication, and payments to and from the same natural or legal person with accounts with the same payment service provider pose a low level of risk, thus allowing payment service providers not to apply strong customer authentication. This leaves aside that in accordance with Regulations 68, 69 and 70 of the Payment Services Regulations 2017 (SI 2017/752), payment initiation service providers, payment service providers issuing card-based payment instruments and account information service providers should only seek and obtain the necessary and essential information from the account servicing payment service provider for the provision of a given payment service with the consent of the payment service user. Such consent can be given individually for each request of information or for each payment to be initiated or, for account information service providers, as a mandate for designated payment accounts and associated payment transactions as established in the contractual agreement with the payment service user.

11. Exemptions for low-value contactless payments at points of sale, which also take into account a maximum number of consecutive transactions or a certain fixed maximum value of consecutive transactions without applying strong customer authentication, allow for the development of user-friendly and low-risk payment services and should therefore be provided for. It is also appropriate to establish an exemption for the case of electronic payment transactions initiated at unattended terminals, where the use of strong customer authentication may not always be easy to apply due to operational reasons (e.g. to avoid queues and potential accidents at toll gates or for other safety or security risks).

12. Similar to the exemption for low-value contactless payments at the point of sale, a proper balance needs to be struck between the interest in enhanced security in remote payments and the needs of user-friendliness and accessibility of payments in the area of e-commerce. In line with those principles, thresholds below which no strong customer authentication needs to be applied should be set in a prudent manner, to cover only online purchases of low value. The thresholds for online purchases should be set more prudently, considering that the fact that the person is not physically present when making the purchase poses a slightly higher security risk.

13. The requirements of strong customer authentication apply to payments initiated by the payer, regardless of whether the payer is a natural person or a legal entity. Many corporate payments are initiated through dedicated processes or protocols which guarantee the high levels of payment security that the Payment Services Regulations 2017 (SI 2017/752) aims to achieve through strong customer authentication. Where the FCA establishes that those payment processes and protocols that are only made available to payers who are not consumers achieve the objectives of the Payment Services Regulations 2017 (SI 2017/752)

in terms of security, payment service providers may, in relation to those processes or protocols, be exempted from the strong customer authentication requirements.

14. In the case of real-time transaction risk analysis that categorises a payment transaction as low risk, it is also appropriate to introduce an exemption for the payment service provider that intends not to apply strong customer authentication through the adoption of effective and risk-based requirements which ensure the safety of the payment service user's funds and personal data. Those risk-based requirements should combine the scores of the risk analysis, confirming that no abnormal spending or behavioural pattern of the payer has been identified, taking into account other risk factors including information on the location of the payer and of the payee with monetary thresholds based on fraud rates calculated for remote payments. Where, on the basis of the real-time transaction risk analysis, a payment cannot be qualified as posing a low level of risk, the payment service provider should revert to strong customer authentication. The maximum value of such risk-based exemption should be set in a manner ensuring a very low corresponding fraud rate, also by comparison to the fraud rates of all the payment transactions of the payment service provider, including those authenticated through strong customer authentication, within a certain period of time and on a rolling basis.

15. For the purpose of ensuring an effective enforcement, payment service providers that wish to benefit from the exemptions from strong customer authentication should regularly monitor and make available to the FCA upon its request, for each payment transaction type, the value of fraudulent or unauthorised payment transactions and the observed fraud rates for all their payment transactions, whether authenticated through strong customer authentication or executed under a relevant exemption.

16. The collection of this new historical evidence on the fraud rates of electronic payment transactions will also contribute to an effective review by the FCA of the thresholds for an exemption to strong customer authentication based on a real-time transaction risk analysis. The FCA should review and, if appropriate, update these Standards, including where appropriate the thresholds and fraud rates, with the aim of enhancing the security of remote electronic payments, on a regular basis to take account of innovation and technical developments as well as other relevant matters.

17. Payment service providers that make use of any of the exemptions to be provided for should be allowed at any time to choose to apply strong customer authentication to the actions and to the payment transactions referred to in those provisions.

18. The measures that protect the confidentiality and integrity of personalised security credentials, as well as authentication devices and software, should limit the risks relating to fraud through unauthorised or fraudulent use of payment instruments and unauthorised access to payment accounts. To this end it is necessary to introduce requirements on the secure creation and delivery of the personalised security credentials and their association with the payment service user, and to provide conditions for the renewal and deactivation of those credentials.

19. In order to ensure effective and secure communication between the relevant actors in the context of account information services, payment initiation services and confirmation on the availability of funds, it is necessary to specify the requirements of common and secure open standards of communication to be met by all relevant payment service providers. The Payment Services Regulations 2017 (SI 2017/752) provide for the access and use of payment account information by account information service providers. These Standards therefore do not change the rules of access to accounts other than payment accounts.

20. Each account servicing payment service provider with payment accounts that are accessible online should offer at least one access interface enabling secure communication with account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. The interface should enable the account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments to identify themselves to the account servicing payment service provider. It should also allow account information service providers and payment initiation service providers to rely on the authentication procedures provided by the account servicing payment service provider to the payment service user.

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21. In order to allow account information service providers, payment initiation service providers, and payment service providers issuing card-based payment instruments to develop their technical solutions, the technical specification of the interface should be adequately documented and made publicly available. The effect of Articles 30(3) and (5) is that the account servicing payment service provider should offer a facility enabling the payment service providers to test the technical solutions

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23. Where access to payment accounts is offered by means of a dedicated interface, in order to ensure the right of payment service users to make use of payment initiation service providers and of services enabling access to account information, as provided for in the Payment Services Regulations 2017 (SI 2017/752), it is necessary to require that dedicated interfaces have the same level of availability and performance as the interface available to the payment service user. Account servicing payment service providers should also define transparent key performance indicators and service level targets for the availability and performance of dedicated interfaces that are at least as stringent as those for the interface used for their payment service users. Those interfaces should be tested by the payment service providers who will use them, and should be stress-tested and monitored by the FCA.

24. To ensure that payment service providers who rely on the dedicated interface can continue to provide their services in case of problems of availability or inadequate performance, it is necessary to provide, subject to strict conditions, a fallback mechanism that will allow such providers to use the interface that the account servicing payment service provider maintains for the identification of, and communication with, its own payment service users. Certain account servicing payment service providers will be exempted from having to provide such a fallback mechanism through their customer-facing interfaces where the FCA establishes that the dedicated interfaces comply with specific conditions that ensure unhampered competition. In the event that the exempted dedicated interfaces fail to comply with the required conditions, the granted exemptions shall be revoked by the FCA.

25. In order to allow the FCA to effectively supervise and monitor the implementation and management of the communication interfaces, the account servicing payment service providers should make a summary of the relevant documentation available on their website, and provide, upon request, the FCA with documentation of the solutions in case of emergencies. The account servicing payment service providers should also make publicly available the statistics on the availability and performance of that interface.

26. In order to safeguard the confidentiality and the integrity of data, it is necessary to ensure the security of communication sessions between account servicing payment service providers, account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. It is in particular necessary to require that secure encryption is applied between account information service providers, payment initiation service providers, payment service providers issuing card-based payment instruments and account servicing payment service providers when exchanging data.

27. To improve user confidence and ensure strong customer authentication, account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments shall identify themselves to account servicing payment service providers using a form of identification issued by an independent third party. Where relevant, the use of electronic identification means and trust services as set out in Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust service for electronic transactions in the internal market, as amended by the Electronic Identification and Trust Services for Electronic Transactions (Amendment etc.) (EU Exit) Regulations 2019 as came into force on IP completion

day as defined in the EU (Withdrawal Agreement) Act 2020, should be taken into account, in particular with regard to notified electronic identification schemes.

9. In accordance with the Payment Services Regulations 2017 (SI 2017/752), exemptions to the principle of strong customer authentication have been defined based on the level of risk, amount, recurrence and the payment channel used for the execution of the payment transaction.

10. Actions which imply access to the balance and the recent transactions of a payment account without disclosure of sensitive payment data, recurring payments to the same payees which have been previously set up or confirmed by the payer through the use of strong customer authentication, and payments to and from the same natural or legal person with accounts with the same payment service provider pose a low level of risk, thus allowing payment service providers not to apply strong customer authentication. This leaves aside that in accordance with Regulations 68, 69 and 70 of the Payment Services Regulations 2017 (SI 2017/752), payment initiation service providers, payment service providers issuing card-based payment instruments and account information service providers should only seek and obtain the necessary and essential information from the account servicing payment service provider for the provision of a given payment service with the consent of the payment service user. Such consent can be given individually for each request of information or for each payment to be initiated or, for account information service providers, as a mandate for designated payment accounts and associated payment transactions as established in the contractual agreement with the payment service user.

11. Exemptions for low-value contactless payments at points of sale, which also take into account a maximum number of consecutive transactions or a certain fixed maximum value of consecutive transactions without applying strong customer authentication, allow for the development of user-friendly and low-risk payment services and should therefore be provided for. It is also appropriate to establish an exemption for the case of electronic payment transactions initiated at unattended terminals, where the use of strong customer authentication may not always be easy to apply due to operational reasons (e.g. to avoid queues and potential accidents at toll gates or for other safety or security risks).

12. Similar to the exemption for low-value contactless payments at the point of sale, a proper balance needs to be struck between the interest in enhanced security in remote payments and the needs of user-friendliness and accessibility of payments in the area of e-commerce. In line with those principles, thresholds below which no strong customer authentication needs to be applied should be set in a prudent manner, to cover only online purchases of low value. The thresholds for online purchases should be set more prudently, considering that the fact that the person is not physically present when making the purchase poses a slightly higher security risk.

13. The requirements of strong customer authentication apply to payments initiated by the payer, regardless of whether the payer is a natural person or a legal entity. Many corporate payments are initiated through dedicated processes or protocols which guarantee the high levels of payment security that the Payment Services Regulations 2017 (SI 2017/752) aims to achieve through strong customer authentication. Where the FCA establishes that those payment processes and protocols that are only made available to payers who are not consumers achieve the objectives of the Payment Services Regulations 2017 (SI 2017/752) in terms of security, payment service providers may, in relation to those processes or protocols, be exempted from the strong customer authentication requirements.

14. In the case of real-time transaction risk analysis that categorises a payment transaction as low risk, it is also appropriate to introduce an exemption for the payment service provider that intends not to apply strong customer authentication through the adoption of effective and risk-based requirements which ensure the safety of the payment service user's funds and personal data. Those risk-based requirements should combine the scores of the risk analysis, confirming that no abnormal spending or behavioural pattern of the payer has been identified, taking into account other risk factors including information on the location of the payer and of the payee with monetary thresholds based on fraud rates calculated for remote payments. Where, on the basis of the real-time transaction risk analysis, a payment cannot be qualified as posing a low level of risk, the payment service provider should revert to strong customer authentication. The maximum value of such risk-based exemption should be set in a manner ensuring a very low corresponding fraud rate, also by comparison to the

fraud rates of all the payment transactions of the payment service provider, including those authenticated through strong customer authentication, within a certain period of time and on a rolling basis.

15. For the purpose of ensuring an effective enforcement, payment service providers that wish to benefit from the exemptions from strong customer authentication should regularly monitor and make available to the FCA upon its request, for each payment transaction type, the value of fraudulent or unauthorised payment transactions and the observed fraud rates for all their payment transactions, whether authenticated through strong customer authentication or executed under a relevant exemption.

16. The collection of this new historical evidence on the fraud rates of electronic payment transactions will also contribute to an effective review by the FCA of the thresholds for an exemption to strong customer authentication based on a real-time transaction risk analysis. The FCA should review and, if appropriate, update these Standards, including where appropriate the thresholds and fraud rates, with the aim of enhancing the security of remote electronic payments, on a regular basis to take account of innovation and technical developments as well as other relevant matters.

17. Payment service providers that make use of any of the exemptions to be provided for should be allowed at any time to choose to apply strong customer authentication to the actions and to the payment transactions referred to in those provisions.

18. The measures that protect the confidentiality and integrity of personalised security credentials, as well as authentication devices and software, should limit the risks relating to fraud through unauthorised or fraudulent use of payment instruments and unauthorised access to payment accounts. To this end it is necessary to introduce requirements on the secure creation and delivery of the personalised security credentials and their association with the payment service user, and to provide conditions for the renewal and deactivation of those credentials.

19. In order to ensure effective and secure communication between the relevant actors in the context of account information services, payment initiation services and confirmation on the availability of funds, it is necessary to specify the requirements of common and secure open standards of communication to be met by all relevant payment service providers. The Payment Services Regulations 2017 (SI 2017/752) provide for the access and use of payment account information by account information service providers. These Standards therefore do not change the rules of access to accounts other than payment accounts.

20. Each account servicing payment service provider with payment accounts that are accessible online should offer at least one access interface enabling secure communication with account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. The interface should enable the account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments to identify themselves to the account servicing payment service provider. It should also allow account information service providers and payment initiation service providers to rely on the authentication procedures provided by the account servicing payment service provider to the payment service user.

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21. In order to allow account information service providers, payment initiation service providers, and payment service providers issuing card-based payment instruments to develop their technical solutions, the technical specification of the interface should be adequately documented and made publicly available. The effect of Articles 30(3) and (5) is that the account servicing payment service provider should offer a facility enabling the payment service providers to test the technical solutions

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16. The collection of this new historical evidence on the fraud rates of electronic payment transactions will also contribute to an effective review by the FCA of the thresholds for an exemption to strong customer authentication based on a real-time transaction risk analysis. The FCA should review and, if appropriate, update these Standards, including where appro-

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19. In order to ensure effective and secure communication between the relevant actors in the context of account information services, payment initiation services and confirmation on the availability of funds, it is necessary to specify the requirements of common and secure open standards of communication to be met by all relevant payment service providers. The Payment Services Regulations 2017 (SI 2017/752) provide for the access and use of payment account information by account information service providers. These Standards therefore do not change the rules of access to accounts other than payment accounts.

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12. Similar to the exemption for low-value contactless payments at the point of sale, a proper balance needs to be struck between the interest in enhanced security in remote payments and the needs of user-friendliness and accessibility of payments in the area of e-commerce. In line with those principles, thresholds below which no strong customer authentication needs to be applied should be set in a prudent manner, to cover only online purchases of low value. The thresholds for online purchases should be set more prudently, considering that the fact that the person is not physically present when making the purchase poses a slightly higher security risk.

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14. In the case of real-time transaction risk analysis that categorises a payment transaction as low risk, it is also appropriate to introduce an exemption for the payment service provider that intends not to apply strong customer authentication through the adoption of effective and risk-based requirements which ensure the safety of the payment service user's funds and personal data. Those risk-based requirements should combine the scores of the risk analysis, confirming that no abnormal spending or behavioural pattern of the payer has been identified, taking into account other risk factors including information on the location of the payer and of the payee with monetary thresholds based on fraud rates calculated for remote payments. Where, on the basis of the real-time transaction risk analysis, a payment cannot be qualified as posing a low level of risk, the payment service provider should revert to strong customer authentication. The maximum value of such risk-based exemption should be set in a manner ensuring a very low corresponding fraud rate, also by comparison to the fraud rates of all the payment transactions of the payment service provider, including those authenticated through strong customer authentication, within a certain period of time and on a rolling basis.

15. For the purpose of ensuring an effective enforcement, payment service providers that wish to benefit from the exemptions from strong customer authentication should regularly monitor and make available to the FCA upon its request, for each payment transaction type, the value of fraudulent or unauthorised payment transactions and the observed fraud rates for all their payment transactions, whether authenticated through strong customer authentication or executed under a relevant exemption.

16. The collection of this new historical evidence on the fraud rates of electronic payment transactions will also contribute to an effective review by the FCA of the thresholds for an exemption to strong customer authentication based on a real-time transaction risk analysis. The FCA should review and, if appropriate, update these Standards, including where appropriate the thresholds and fraud rates, with the aim of enhancing the security of remote electronic payments, on a regular basis to take account of innovation and technical developments as well as other relevant matters.

17. Payment service providers that make use of any of the exemptions to be provided for should be allowed at any time to choose to apply strong customer authentication to the actions and to the payment transactions referred to in those provisions.

18. The measures that protect the confidentiality and integrity of personalised security credentials, as well as authentication devices and software, should limit the risks relating to fraud through unauthorised or fraudulent use of payment instruments and unauthorised access to payment accounts. To this end it is necessary to introduce requirements on the secure creation and delivery of the personalised security credentials and their association with the payment service user, and to provide conditions for the renewal and deactivation of those credentials.

19. In order to ensure effective and secure communication between the relevant actors in the context of account information services, payment initiation services and confirmation on the availability of funds, it is necessary to specify the requirements of common and secure open standards of communication to be met by all relevant payment service providers. The Payment Services Regulations 2017 (SI 2017/752) provide for the access and use of payment account information by account information service providers. These Standards therefore do not change the rules of access to accounts other than payment accounts.

20. Each account servicing payment service provider with payment accounts that are accessible online should offer at least one access interface enabling secure communication with account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments. The interface should enable the account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments to identify themselves to the account servicing payment service provider. It should also allow account information service providers and payment initiation service providers to rely on the authentication procedures provided by the account servicing payment service provider to the payment service user.

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21. In order to allow account information service providers, payment initiation service providers, and payment service providers issuing card-based payment instruments to develop their technical solutions, the technical specification of the interface should be adequately documented and made publicly available. The effect of Articles 30(3) and (5) is that the account servicing payment service provider should offer a facility enabling the payment service providers to test the technical solutions

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22. The quality of the services provided by account information service providers and payment initiation service providers will depend on the proper functioning of the interfaces put in place or adapted by account servicing payment service providers. It is therefore important that in case of non-compliance of such interfaces with the provisions included in these Standards, measures are taken to guarantee business continuity for the benefit of the users of those services. It is the responsibility of the FCA to ensure that account information service providers and payment initiation service providers are not blocked or obstructed in the provision of their services.

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face used for their payment service users. Those interfaces should be tested by the payment service providers who will use them, and should be stress-tested and monitored by the FCA. 24. To ensure that payment service providers who rely on the dedicated interface can continue to provide their services in case of problems of availability or inadequate performance, it is necessary to provide, subject to strict conditions, a fallback mechanism that will allow such providers to use the interface that the account servicing payment service provider maintains for the identification of, and communication with, its own payment service users. Certain account servicing payment service providers will be exempted from having to provide such a fallback mechanism through their customer-facing interfaces where the FCA establishes that the dedicated interfaces comply with specific conditions that ensure unhampered competition. In the event that the exempted dedicated interfaces fail to comply with the required conditions, the granted exemptions shall be revoked by the FCA.

25. In order to allow the FCA to effectively supervise and monitor the implementation and management of the communication interfaces, the account servicing payment service providers should make a summary of the relevant documentation available on their website, and provide, upon request, the FCA with documentation of the solutions in case of emergencies. The account servicing payment service providers should also make publicly available the statistics on the availability and performance of that interface.

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17. Payment service providers that make use of any of the exemptions to be provided for should be allowed at any time to choose to apply strong customer authentication to the actions and to the payment transactions referred to in those provisions.

18. The measures that protect the confidentiality and integrity of personalised security credentials, as well as authentication devices and software, should limit the risks relating to fraud through unauthorised or fraudulent use of payment instruments and unauthorised access to payment accounts. To this end it is necessary to introduce requirements on the secure creation and delivery of the personalised security credentials and their association with the payment service user, and to provide conditions for the renewal and deactivation of those credentials.

19. In order to ensure effective and secure communication between the relevant actors in the context of account information services, payment initiation services and confirmation on the availability of funds, it is necessary to specify the requirements of common and secure open standards of communication to be met by all relevant payment service providers. The Payment Services Regulations 2017 (SI 2017/752) provide for the access and use of payment account information by account information service providers. These Standards therefore do not change the rules of access to accounts other than payment accounts.

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21. In order to allow account information service providers, payment initiation service providers, and payment service providers issuing card-based payment instruments to develop their technical solutions, the technical specification of the interface should be adequately documented and made publicly available. The effect of Articles 30(3) and (5) is that the account servicing payment service provider should offer a facility enabling the payment service providers to test the technical solutions

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Chapter 1 General provisions

Article 1 Subject matter

These Standards establish the requirements to be complied with by payment service providers for the purpose of implementing security measures which enable them to do the following:

- (a) apply the procedure of strong customer authentication in accordance with Regulation 100 of the Payment Services Regulations 2017 (SI 2017/752);
- (b) exempt the application of the security requirements of strong customer authentication, subject to specified and limited conditions based on the level of risk, the amount and the recurrence of the payment transaction and of the payment channel used for its execution;
- (c) protect the confidentiality and the integrity of the payment service user's personalised security credentials;
- (d) establish common and secure open standards for the communication between account servicing payment service providers, payment initiation service providers, account information service providers, payers, payees and other payment service providers in relation to the provision and use of payment services in application of Part 7 of the Payment Services Regulations 2017 (SI 2017/752).



Article 2 General authentication requirements

(1) Payment service providers shall have transaction monitoring mechanisms in place that enable them to detect unauthorised or fraudulent payment transactions for the purpose of the implementation of the security measures referred to in points (a) and (b) of Article 1. Those mechanisms shall be based on the analysis of payment transactions taking into account elements which are typical of the payment service user in the circumstances of a normal use of the personalised security credentials.

Those mechanisms shall be based on the analysis of payment transactions taking into account elements which are typical of the payment service user in the circumstances of a normal use of the personalised security credentials.

(2) Payment service providers shall ensure that the transaction monitoring mechanisms take into account, at a minimum, each of the following risk-based factors:

- (a) lists of compromised or stolen authentication elements;
- (b) the amount of each payment transaction;
- (c) known fraud scenarios in the provision of payment services;
- (d) signs of malware infection in any sessions of the authentication procedure;
- (e) in case the access device or the software is provided by the payment service provider, a log of the use of the access device or the software provided to the payment service user and the abnormal use of the access device or the software.

Article 3 Review of the security measures

(1) The implementation of the security measures referred to in Article 1 shall be documented, periodically tested, evaluated and audited in accordance with the applicable legal framework of the payment service provider by auditors with expertise in IT security and payments and operationally independent within or from the payment service provider.

(2) The period between the audits referred to in paragraph 1 shall be determined taking into account the relevant accounting and statutory audit framework applicable to the payment service provider.

However, payment service providers that make use of the exemption referred to in Article 18 shall be subject to an audit of the methodology, the model and the reported fraud rates at a minimum on a yearly basis. The auditor performing this audit shall have expertise in IT security and payments and be operationally independent within or from the payment service provider. During the first year of making use of the exemption under Article 18 and at least every three years thereafter, or more frequently at the FCA's request, this audit shall be carried out by an independent and qualified external auditor.

However, payment service providers that make use of the exemption referred to in Article 18 shall be subject to an audit of the methodology, the model and the reported fraud rates at a minimum on a yearly basis. The auditor performing this audit shall have expertise in IT security and payments and be operationally independent within or from the payment service provider. During the first year of making use of the exemption under Article 18 and at least every three years thereafter, or more frequently at the FCA's request, this audit shall be carried out by an independent and qualified external auditor.

(3) This audit shall present an evaluation and report on the compliance of the payment service provider's security measures with the requirements set out in these Standards. The entire report shall be made available to the FCA upon its request.

The entire report shall be made available to the FCA upon its request.

Chapter 2 Security measures for the application of strong customer authentication

Article 4 Authentication code

(1) Where payment service providers apply strong customer authentication in accordance with Regulation 100 of the Payment Services Regulation 2017 (SI 2017/752), the authentication shall be based on two or more elements which are categorised as knowledge, possession and inherence and shall result in the generation of an authentication code.

The authentication code shall be only accepted once by the payment service provider when the payer uses the authentication code to access its payment account online, to initiate an electronic payment transaction or to carry out any action through a remote channel which may imply a risk of payment fraud or other abuses.

The authentication code shall be only accepted once by the payment service provider when the payer uses the authentication code to access its payment account online, to initiate an electronic payment transaction or to carry out any action through a remote channel which may imply a risk of payment fraud or other abuses.

(2) For the purpose of paragraph 1, payment service providers shall adopt security measures ensuring that each of the following requirements is met:

(a) no information on any of the elements referred to in paragraph 1 can be derived from the disclosure of the authentication code;

(b) it is not possible to generate a new authentication code based on the knowledge of any other authentication code previously generated;

(c) the authentication code cannot be forged.

(3) Payment service providers shall ensure that the authentication by means of generating an authentication code includes each of the following measures:

(a) where the authentication for remote access, remote electronic payments and any other actions through a remote channel which may imply a risk of payment fraud or other abuses has failed to generate an authentication code for the purposes of paragraph 1, it shall not be possible to identify which of the elements referred to in that paragraph was incorrect;

(b) the number of failed authentication attempts that can take place consecutively, after which the actions referred to in Regulation 100(1) of the Payment Services Regulations

2017 (SI 2017/752) shall be temporarily or permanently blocked, shall not exceed five within a given period of time;

(c) the communication sessions are protected against the capture of authentication data transmitted during the authentication and against manipulation by unauthorised parties in accordance with the requirements in Chapter 5.

(d) the maximum time without activity by the payer after being authenticated for accessing its payment account online shall not exceed five minutes.

(4) Where the block referred to in paragraph 3(b) is temporary, the duration of that block and the number of retries shall be established based on the characteristics of the service provided to the payer and all the relevant risks involved, taking into account, at a minimum, the factors referred to in Article 2(2).

The payer shall be alerted before the block is made permanent.

Where the block has been made permanent, a secure procedure shall be established allowing the payer to regain use of the blocked electronic payment instruments.

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Article 5 Dynamic linking

(1) Where payment service providers apply strong customer authentication in accordance with Regulation 100(2) of the Payment Services Regulations 2017 (SI 2017/752), in addition to the requirements of Article 4 of these Standards, they shall also adopt security measures that meet each of the following requirements:

- (a) the payer is made aware of the amount of the payment transaction and of the payee;
- (b) the authentication code generated is specific to the amount of the payment transaction and the payee agreed to by the payer when initiating the transaction;
- (c) the authentication code accepted by the payment service provider corresponds to the original specific amount of the payment transaction and to the identity of the payee agreed to by the payer;
- (d) any change to the amount or the payee results in the invalidation of the authentication code generated.

(2) For the purpose of paragraph 1, payment service providers shall adopt security measures which ensure the confidentiality, authenticity and integrity of each of the following:

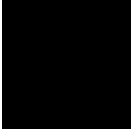
- (a) the amount of the transaction and the payee throughout all of the phases of the authentication;
- (b) the information displayed to the payer throughout all of the phases of the authentication including the generation, transmission and use of the authentication code.

(3) For the purpose of paragraph 1(b) and where payment service providers apply strong customer authentication in accordance with Regulation 100(2) of the Payment Services Regulations 2017 (SI 2017/752) the following requirements for the authentication code shall apply:

- (a) in relation to a card-based payment transaction for which the payer has given consent to the exact amount of the funds to be blocked pursuant to Regulation 78 of the Payment Services Regulations 2017 (SI 2017/752), the authentication code shall

be specific to the amount that the payer has given consent to be blocked and agreed to by the payer when initiating the transaction;

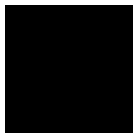
(b) in relation to payment transactions for which the payer has given consent to execute a batch of remote electronic payment transactions to one or several payees, the authentication code shall be specific to the total amount of the batch of payment transactions and to the specified payees.



**Article 6 Requirements of the elements
categorised as knowledge**

(1) Payment service providers shall adopt measures to mitigate the risk that the elements of strong customer authentication categorised as knowledge are uncovered by, or disclosed to, unauthorised parties.


(2) The use by the payer of those elements shall be subject to mitigation measures in order to prevent their disclosure to unauthorised parties.



**Article 7 Requirements of the elements
categorised as possession**

(1) Payment service providers shall adopt measures to mitigate the risk that the elements of strong customer authentication categorised as possession are used by unauthorised parties.

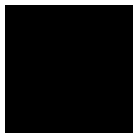
(2) The use by the payer of those elements shall be subject to measures designed to prevent replication of the elements.



**Article 8 Requirements of devices and
software linked to elements categorised as
inherence**

(1) Payment service providers shall adopt measures to mitigate the risk that the authentication elements categorised as inherence and read by access devices and software provided to the payer are uncovered by unauthorised parties. At a minimum, the payment service providers shall ensure that those access devices and software have a very low probability of an unauthorised party being authenticated as the payer.

(2) The use by the payer of those elements shall be subject to measures ensuring that those devices and the software guarantee resistance against unauthorised use of the elements through access to the devices and the software.



Article 9 Independence of the elements

(1) Payment service providers shall ensure that the use of the elements of strong customer authentication referred to in Articles 6, 7 and 8 is subject to measures which ensure that, in terms of technology, algorithms and parameters, the breach of one of the elements does not compromise the reliability of the other elements.

(2) Payment service providers shall adopt security measures, where any of the elements of strong customer authentication or the authentication code itself is used through a multi-purpose device, to mitigate the risk which would result from that multi-purpose device being compromised.

(3) For the purposes of paragraph 2, the mitigating measures shall include each of the following:

(a) the use of separated secure execution environments through the software installed inside the multi-purpose device;

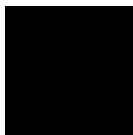
(b) mechanisms to ensure that the software or device has not been altered by the payer or by a third party;

(c) where alterations have taken place, mechanisms to mitigate the consequences thereof.

Chapter 3 Exemptions from strong customer authentication



Article 10 Payment account information



Article 10 Payment account information
accessed directly by a payment service
user

(-1) This Article applies where a payment service user is not using an account information service provider to access payment account information.FCA 2021/45

(1) Payment service providers shall be allowed not to apply strong customer authentication, subject to compliance with the requirements laid down in Article 2 and to paragraph 2 of this Article and, where a payment service user is limited to accessing either or both of the following items online without disclosure of sensitive payment data:

(a) the balance of one or more designated payment accounts;

(b) the payment transactions executed in the last 90 days through one or more designated payment accounts.

(2) For the purpose of paragraph 1, payment service providers shall not be exempted from the application of strong customer authentication where either of the following conditions are met:

(a) the payment service user is accessing online the information specified in paragraph 1 for the first time;

(b) more than 90 days have elapsed since the last time the payment service user accessed online the information specified in paragraph 1(b) and strong customer authentication was applied.

**Article 10A Payment account information
accessed through an account information
service provider**

(1) FCA 2021/45 This Article applies where a payment service user is accessing account information through an account information service provider.

(2) Payment service providers shall be allowed not to apply strong customer authentication, subject to compliance with the requirements laid down in Article 2 and paragraph 3 of this Article, where a payment service user is limited to accessing either or both of the following items without disclosure of sensitive payment data:

(a) the balance of one or more designated payment accounts;

(b) the payment transactions executed in the last 90 days through one or more designated payment accounts.

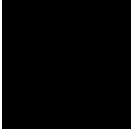
(3) For the purpose of paragraph 2, payment service providers shall not be exempted from the application of strong customer authentication unless strong customer authentication has been applied on at least one previous occasion where the account information service provider accessed the information specified in paragraph 2 on behalf of the payment service user.



Article 11 Contactless payments at point of sale

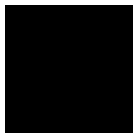
Payment service providers shall be allowed not to apply strong customer authentication, subject to compliance with the requirements laid down in Article 2, where the payer initiates a contactless electronic payment transaction provided that the following conditions are met:

- (a) the individual amount of the contactless electronic payment transaction does not exceed £45 £100FCA 2021/7 ; and
- (b) the cumulative amount of previous contactless electronic payment transactions initiated by means of a payment instrument with a contactless functionality from the date of the last application of strong customer authentication does not exceed £130 £300FCA 2021/7 ; or
- (c) the number of consecutive contactless electronic payment transactions initiated via the payment instrument offering a contactless functionality since the last application of strong customer authentication does not exceed five.



**Article 12 Unattended terminals for
transport fares and parking fees**

Payment service providers shall be allowed not to apply strong customer authentication, subject to compliance with the requirements laid down in Article 2, where the payer initiates an electronic payment transaction at an unattended payment terminal for the purpose of paying a transport fare or a parking fee.



Article 13 Trusted beneficiaries

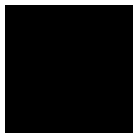
(1) Payment service providers shall apply strong customer authentication where a payer creates or amends a list of trusted beneficiaries through the payer's account servicing payment service provider.

(2) Payment service providers shall be allowed not to apply strong customer authentication, subject to compliance with the general authentication requirements, where the payer initiates a payment transaction and the payee is included in a list of trusted beneficiaries previously created by the payer.

Article 14 Recurring transactions

(1) Payment service providers shall apply strong customer authentication when a payer creates, amends, or initiates for the first time, a series of recurring transactions with the same amount and with the same payee.

(2) Payment service providers shall be allowed not to apply strong customer authentication, subject to compliance with the general authentication requirements, for the initiation of all subsequent payment transactions included in the series of payment transactions referred to in paragraph 1.



**Article 15 Credit transfers between
accounts held by the same natural or legal
person**

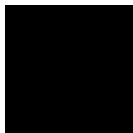
Payment service providers shall be allowed not to apply strong customer authentication, subject to compliance with the requirements laid down in Article 2, where the payer initiates a credit transfer in circumstances where the payer and the payee are the same natural or legal person and both payment accounts are held by the same account servicing payment service provider.



Article 16 Low-value transactions

Payment service providers shall be allowed not to apply strong customer authentication, where the payer initiates a remote electronic payment transaction provided that the following conditions are met:

- (a) the amount of the remote electronic payment transaction does not exceed £25; and
- (b) the cumulative amount of previous remote electronic payment transactions initiated by the payer since the last application of strong customer authentication does not exceed £85; or
- (c) the number of previous remote electronic payment transactions initiated by the payer since the last application of strong customer authentication does not exceed five consecutive individual remote electronic payment transactions.



**Article 17 Secure corporate payment
processes and protocols**

Payment service providers shall be allowed not to apply strong customer authentication, in respect of legal persons initiating electronic payment transactions through the use of dedicated payment processes or protocols that are only made available to payers who are not consumers, where the FCA is satisfied that those processes or protocols guarantee at least equivalent levels of security to those provided for by the Payment Services Regulations 2017 (SI 2017/752).

Article 18 Transaction risk analysis

(1) Payment service providers shall be allowed not to apply strong customer authentication where the payer initiates a remote electronic payment transaction identified by the payment service provider as posing a low level of risk according to the transaction monitoring mechanisms referred to in Article 2 and in paragraph 2(c) of this Article.

(2) An electronic payment transaction referred to in paragraph 1 shall be considered as posing a low level of risk where all the following conditions are met:

(a) the fraud rate for that type of transaction, reported by the payment service provider and calculated in accordance with Article 19, is equivalent to or below the reference fraud rates specified in the table set out in the Appendix for ‘remote electronic card-based payments’ and ‘remote electronic credit transfers’ respectively;

(b) the amount of the transaction does not exceed the relevant Exemption Threshold Value (‘ETV’) specified in the table set out in the Appendix;

(c) payment service providers as a result of performing a real-time risk analysis have not identified any of the following:

(i) abnormal spending or behavioural pattern of the payer;

(ii) unusual information about the payer's device/software access;

(iii) malware infection in any session of the authentication procedure;

(iv) known fraud scenario in the provision of payment services;

(v) abnormal location of the payer;

(vi) high-risk location of the payee.

(3) Payment service providers that intend to exempt electronic remote payment transactions from strong customer authentication on the ground that they pose a low risk shall take into account at a minimum, the following risk-based factors:

The assessment made by a payment service provider shall combine all those risk-based factors into a risk scoring for each individual transaction to determine whether a specific payment should be allowed without strong customer authentication.

- (a) the previous spending patterns of the individual payment service user;
- (b) the payment transaction history of each of the payment service provider's payment service users;
- (c) the location of the payer and of the payee at the time of the payment transaction in cases where the access device or the software is provided by the payment service provider;
- (d) the identification of abnormal payment patterns of the payment service user in relation to the user's payment transaction history.

The assessment made by a payment service provider shall combine all those risk-based factors into a risk scoring for each individual transaction to determine whether a specific payment should be allowed without strong customer authentication.

Article 19 Calculation of fraud rates

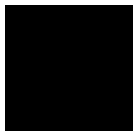
(1) For each type of transaction referred to in the table set out in the Appendix, the payment service provider shall ensure that the overall fraud rates covering both payment transactions authenticated through strong customer authentication and those executed under any of the exemptions referred to in Articles 13 to 18 are equivalent to, or lower than, the reference fraud rate for the same type of payment transaction indicated in the table set out in the Appendix.

The overall fraud rate for each type of transaction shall be calculated as the total value of unauthorised or fraudulent remote transactions, whether the funds have been recovered or not, divided by the total value of all remote transactions for the same type of transactions, whether authenticated with the application of strong customer authentication or executed under any exemption referred to in Articles 13 to 18 on a rolling quarterly basis (90 days).

The overall fraud rate for each type of transaction shall be calculated as the total value of unauthorised or fraudulent remote transactions, whether the funds have been recovered or not, divided by the total value of all remote transactions for the same type of transactions, whether authenticated with the application of strong customer authentication or executed under any exemption referred to in Articles 13 to 18 on a rolling quarterly basis (90 days).

(2) The calculation of the fraud rates and resulting figures shall be assessed by the audit review referred to in Article 3(2), which shall ensure that they are complete and accurate.

(3) The methodology and any model used by the payment service provider to calculate the fraud rates, as well as the fraud rates themselves, shall be adequately documented and made fully available to the FCA, upon its request.



Article 20 Cessation of exemptions based on transaction risk analysis

(1) Payment service providers that make use of the exemption referred to in Article 18 shall immediately report to the FCA where one of their monitored fraud rates, for any type of payment transactions indicated in the table set out in the Appendix exceeds the applicable reference fraud rate and shall provide to the FCA a description of the measures that they intend to adopt to restore compliance of their monitored fraud rate with the applicable reference fraud rates.

(2) Payment service providers shall immediately cease to make use of the exemption referred to in Article 18 for any type of payment transactions indicated in the table set out in the Appendix in the specific exemption threshold range where their monitored fraud rate exceeds for two consecutive quarters the reference fraud rate applicable for that payment instrument or type of payment transaction in that exemption threshold range.

(3) Following the cessation of the exemption referred to in Article 18 in accordance with paragraph 2 of this Article, payment service providers shall not use that exemption again, until their calculated fraud rate equals to, or is below, the reference fraud rates applicable for that type of payment transaction in that exemption threshold range for one quarter.

(4) Where payment service providers intend to make use again of the exemption referred to in Article 18, they shall notify the FCA in a reasonable timeframe and shall before making use again of the exemption, provide evidence of the restoration of compliance of their monitored fraud rate with the applicable reference fraud rate for that exemption threshold range in accordance with paragraph 3 of this Article.



Article 21 Monitoring

(1) In order to make use of the exemptions set out in Articles 10 to 18, payment service providers shall record and monitor the following data for each type of payment transaction, with a breakdown for both remote and non-remote payment transactions, at least on a quarterly basis:

(a) the total value of unauthorised or fraudulent payment transactions in accordance with Regulation 67(2) of the Payment Services Regulations 2017 (SI 2017/752), the total value of all payment transactions and the resulting fraud rate, including a breakdown of payment transactions initiated through strong customer authentication and under each of the exemptions;

(b) the average transaction value, including a breakdown of payment transactions initiated through strong customer authentication and under each of the exemptions;

(c) the number of payment transactions where each of the exemptions was applied and their percentage in respect of the total number of payment transactions.

(2) Payment service providers shall make the results of the monitoring in accordance with paragraph 1 available to the FCA upon its request.

Chapter 4 Confidentiality and integrity of the payment
service users' personalised security credentials

Article 22 General requirements

(1) Payment service providers shall ensure the confidentiality and integrity of the personalised security credentials of the payment service user, including authentication codes, during all phases of the authentication.

(2) For the purpose of paragraph 1, payment service providers shall ensure that each of the following requirements is met:

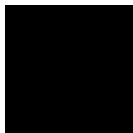
(a) personalised security credentials are masked when displayed and are not readable in their full extent when input by the payment service user during the authentication;

(b) personalised security credentials in data format, as well as cryptographic materials related to the encryption of the personalised security credentials are not stored in plain text;

(c) secret cryptographic material is protected from unauthorised disclosure.

(3) Payment service providers shall fully document the process related to the management of cryptographic material used to encrypt or otherwise render unreadable the personalised security credentials.

(4) Payment service providers shall ensure that the processing and routing of personalised security credentials and of the authentication codes generated in accordance with Chapter 2 take place in secure environments in accordance with strong and widely recognised industry standards.



**Article 23 Creation and transmission of
credentials**

Payment service providers shall ensure that the creation of personalised security credentials is performed in a secure environment.

They shall mitigate the risks of unauthorised use of the personalised security credentials and of the authentication devices and software following their loss, theft or copying before their delivery to the payer.

**Article 24 Association with the payment
service user**

(1) Payment service providers shall ensure that only the payment service user is associated, in a secure manner, with the personalised security credentials, the authentication devices and the software.

(2) For the purpose of paragraph 1, payment service providers shall ensure that each of the following requirements is met:

(a) the association of the payment service user's identity with personalised security credentials, authentication devices and software is carried out in secure environments under the payment service provider's responsibility comprising at least the payment service provider's premises, the internet environment provided by the payment service provider or other similar secure websites used by the payment service provider and its automated teller machine services, and taking into account risks associated with devices and underlying components used during the association process that are not under the responsibility of the payment service provider;

(b) the association by means of a remote channel of the payment service user's identity with the personalised security credentials and with authentication devices or software is performed using strong customer authentication.



Article 25 Delivery of credentials, authentication devices and software

(1) Payment service providers shall ensure that the delivery of personalised security credentials, authentication devices and software to the payment service user is carried out in a secure manner designed to address the risks related to their unauthorised use due to their loss, theft or copying.

(2) For the purpose of paragraph 1, payment service providers shall at least apply each of the following measures:

(a) effective and secure delivery mechanisms ensuring that the personalised security credentials, authentication devices and software are delivered to the legitimate payment service user;

(b) mechanisms that allow the payment service provider to verify the authenticity of the authentication software delivered to the payment services user by means of the internet;

(c) arrangements ensuring that, where the delivery of personalised security credentials is executed outside the premises of the payment service provider or through a remote channel:

(i) no unauthorised party can obtain more than one feature of the personalised security credentials, the authentication devices or software when delivered through the same channel;

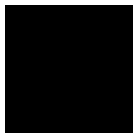
(ii) the delivered personalised security credentials, authentication devices or software require activation before usage;

(d) arrangements ensuring that, in cases where the personalised security credentials, the authentication devices or software have to be activated before their first use, the activation shall take place in a secure environment in accordance with the association procedures referred to in Article 24.



**Article 26 Renewal of personalised security
credentials**

Payment service providers shall ensure that the renewal or re-activation of personalised security credentials adhere to the procedures for the creation, association and delivery of the credentials and of the authentication devices in accordance with Articles 23, 24 and 25.



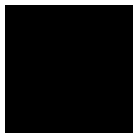
Article 27 Destruction, deactivation and revocation

Payment service providers shall ensure that they have effective processes in place to apply each of the following security measures:

- (a) the secure destruction, deactivation or revocation of the personalised security credentials, authentication devices and software;
- (b) where the payment service provider distributes reusable authentication devices and software, the secure re-use of a device or software is established, documented and implemented before making it available to another payment services user;
- (c) the deactivation or revocation of information related to personalised security credentials stored in the payment service provider's systems and databases and, where relevant, in public repositories.

Chapter 5 Common and secure open standards of communication

Section 1 General requirements for communication



Article 28 Requirements for identification

- (1) Payment service providers shall ensure secure identification when communicating between the payer's device and the payee's acceptance devices for electronic payments, including but not limited to payment terminals.

- (2) Payment service providers shall ensure that the risks of misdirection of communication to unauthorised parties in mobile applications and other payment services users' interfaces offering electronic payment services are effectively mitigated.

Article 29 Traceability

(1) Payment service providers shall have processes in place which ensure that all payment transactions and other interactions with the payment services user, with other payment service providers and with other entities, including merchants, in the context of the provision of the payment service are traceable, ensuring knowledge ex-post of all events relevant to the electronic transaction in all the various stages.

(2) For the purpose of paragraph 1, payment service providers shall ensure that any communication session established with the payment services user, other payment service providers and other entities, including merchants, relies on each of the following:

- (a) a unique identifier of the session;
- (b) security mechanisms for the detailed logging of the transaction, including transaction number, timestamps and all relevant transaction data;
- (c) timestamps which shall be based on a unified time-reference system and which shall be synchronised according to an official time signal.

Section 2 Specific requirements for the common and secure open standards of communication



Article 30 General obligations for access interfaces

(1) Account servicing payment service providers that offer to a payer a payment account that is accessible online shall have in place at least one interface which meets each of the following requirements:

(a) account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments are able to identify themselves towards the account servicing payment service provider;

(b) account information service providers are able to communicate securely to request and receive information on one or more designated payment accounts and associated payment transactions;

(c) payment initiation service providers are able to communicate securely to initiate a payment order from the payer's payment account and receive all information on the initiation of the payment transaction and all information accessible to the account servicing payment service providers regarding the execution of the payment transaction.

(2) For the purposes of authentication of the payment service user, the interface referred to in paragraph 1 shall allow account information service providers and payment initiation service providers to rely on all the authentication procedures provided by the account servicing payment service provider to the payment service user.

The interface shall at least meet all of the following requirements:

The interface shall at least meet all of the following requirements:

(a) a payment initiation service provider or an account information service provider shall be able to instruct the account servicing payment service provider to start the authentication based on the consent of the payment service user;

(b) communication sessions between the account servicing payment service provider, the account information service provider, the payment initiation service provider and any payment service user concerned shall be established and maintained throughout the authentication;

(c) the integrity and confidentiality of the personalised security credentials and of authentication codes transmitted by or through the payment initiation service provider or the account information service provider shall be ensured.

(3) Account servicing payment service providers shall ensure that their interfaces follow standards of communication which are issued by international standardisation organisations.

Account servicing payment service providers shall also ensure that the technical specification of any of the interfaces is documented specifying a set of routines, protocols, and tools needed by payment initiation service providers, account information service providers and payment service providers issuing card-based payment instruments for allowing their software and applications to interoperate with the systems of the account servicing payment service providers.

Account servicing payment service providers shall at a minimum, and no less than six months before the target date for later than the date of FCA 2021/45 the market launch of the access interface, make the documentation available, at no charge, upon request by authorised payment initiation service providers, account information service providers and payment service providers issuing card-based payment instruments or payment service providers that have applied to the FCA or the Gibraltar Financial Services Commission for the relevant authorisation, and shall make a summary of the documentation publicly available on their website.

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Account servicing payment service providers shall at a minimum, and no less than six months before the target date for later than the date of FCA 2021/45 the market launch of the access interface, make the documentation available, at no charge, upon request by authorised payment initiation service providers, account information service providers and payment service providers issuing card-based payment instruments or payment service providers that have applied to the FCA or the Gibraltar Financial Services Commission for the relevant authorisation, and shall make a summary of the documentation publicly available on their website.

(4) In addition to paragraph 3, account servicing payment service providers shall ensure that, except for emergency situations, any change to the technical specification of their interface is made available to authorised payment initiation service providers, account information service providers and payment service providers issuing card-based payment instruments, or payment service providers that have applied to the FCA or the Gibraltar Financial Services Commission for the relevant authorisation, in advance as soon as possible and not less than three months before the change is implemented.

Payment service providers shall document emergency situations where changes were implemented and make the documentation available to the FCA on request.

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(5) Account servicing payment service providers shall make available a testing facility, including support, for connection and functional testing to enable authorised payment initiation service providers, payment service providers issuing card-based payment instruments and account information service providers, or payment service providers that have applied for the relevant authorisation, to test their software and applications used for offering a payment service to users. This testing facility should be made available no later than six months before the target date for the date FCA 2021/45 of the market launch of the access interface.

However, no sensitive information shall be shared through the testing facility.

However, no sensitive information shall be shared through the testing facility.

(6) The FCA shall ensure that account servicing payment service providers comply at all times with the obligations included in these Standards in relation to the interface(s) that they put in place. In the event that an account servicing payment services provider fails to comply with the requirements for interfaces laid down in these Standards, the FCA shall ensure that the provision of payment initiation services and account information services is not prevented or disrupted to the extent that the respective providers of such services comply with the conditions defined under Article 33(5).

Article 31 Access interface options

Account servicing payment service providers shall establish the interface(s) referred to in Article 30 by means of a dedicated interface or by allowing the use by the payment service providers referred to in Article 30(1) of the interfaces used for authentication and communication with the account servicing payment service provider's payment services users.

(1) Subject to paragraph 2 of this Article, account servicing payment service providers shall establish the interface(s) referred to in Article 30 by means of a dedicated interface or by allowing the use by the payment service providers referred to in Article 30(1) of the interfaces used for authentication and communication with the account servicing payment service provider's payment services users.FCA 2021/45

(2) Account servicing payment service providers specified in paragraph 3 of this Article shall establish the interface(s) referred to in Article 30 by means of a dedicated interface in respect of all payment accounts that fall within one or more of the following descriptions:FCA 2021/45

(a) a payment account as defined in regulation 2(1) of the Payment Accounts Regulations 2015 (SI 2015/2038);FCA 2021/45

(b) an account operated for an SME that would be the type of account described in paragraph 2(a) of this Article if it were operated for a consumer; andFCA 2021/45

(c) a credit card account operated for a consumer or an SME.FCA 2021/45

(3) An account servicing payment service provider is specified for the purposes of paragraph 2 of this Article if it is not:FCA 2021/45

(a) a small payment institution;FCA 2021/45

(b) a small electronic money institution as defined in regulation 2(1) of the Electronic Money Regulations 2011 (SI 2011/99); orFCA 2021/45

(c) deemed to be authorised under paragraph 1, 12B, 14(2)(a)(i) or 24(4)(a)(i) of Schedule 3 of the Electronic Money, Payment Services and Payment Systems (Amendment and Transitional Provisions) (EU Exit) Regulations 2018 or regulation 8, 11, 28 or 34 of the EEA Passport Rights (Amendment, etc., and Transitional Provisions) (EU Exit) Regulations 2018.FCA 2021/45

(4) For the purposes of this Article:FCA 2021/45

(a) consumer means a consumer as defined in regulation 2(1) of the Payment Accounts Regulations 2015 (SI 2015/2038); and FCA 2021/45

(b) SME means an enterprise as defined in Article 1 and Article 2(1) of the Annex to the Recommendation 2003/361/EC of 6th May 2003 concerning the definition of micro, small and medium-sized enterprises.FCA 2021/45

Article 32 Obligations for a dedicated interface

(1) Subject to compliance with Article 30 and 31, account servicing payment service providers that have put in place a dedicated interface shall ensure that the dedicated interface offers at all times the same level of availability and performance, including support, as the interfaces made available to the payment service user for directly accessing its payment account online.

(2) Account servicing payment service providers that have put in place a dedicated interface shall define transparent key performance indicators and service level targets, at least as stringent as those set for the interface used by their payment service users both in terms of availability and of data provided in accordance with Article 36. Those interfaces, indicators and targets shall be monitored by the FCA and stress-tested.

(3) Account servicing payment service providers that have put in place a dedicated interface shall ensure that this interface does not create obstacles to the provision of payment initiation and account information services. Such obstacles may include, among others, preventing the use by payment service providers referred to in Article 30(1) of the credentials issued by account servicing payment service providers to their customers, imposing redirection to the account servicing payment service provider's authentication or other functions, requiring additional authorisations and registrations in addition to those provided for in Regulations 4 and 6 of the Payment Services Regulations 2017 (SI 2017/752) or Articles 11, 14 and 15 of Directive (EU) 2015/2366 as they are implemented in Gibraltar, or requiring additional checks of the consent given by payment service users to providers of payment initiation and account information services.

(4) For the purpose of paragraphs 1 and 2, account servicing payment service providers shall monitor the availability and performance of the dedicated interface. Account servicing payment service providers shall publish on their website quarterly statistics on the availability and performance of the dedicated interface and of the interface used by its payment service users.

Article 33 Contingency measures for a dedicated interface

(1) Account servicing payment service providers shall include, in the design of the dedicated interface, a strategy and plans for contingency measures for the event that the interface does not perform in compliance with Article 32, that there is unplanned unavailability of the interface and that there is a systems breakdown. Unplanned unavailability or a systems breakdown may be presumed to have arisen when five consecutive requests for access to information for the provision of payment initiation services or account information services are not replied to within 30 seconds.

(2) Contingency measures shall include communication plans to inform payment service providers making use of the dedicated interface of measures to restore the system and a description of the immediately available alternative options payment service providers may have during this time.

(3) Both the account servicing payment service provider and the payment service providers referred to in Article 30(1) shall report problems with dedicated interfaces as described in paragraph 1 to the FCA without delay.

(4) As part of a contingency mechanism, payment service providers referred to in Article 30(1) shall be allowed to make use of the interfaces made available to the payment service users for the authentication and communication with their account servicing payment service provider, until the dedicated interface is restored to the level of availability and performance provided for in Article 32.

(5) For this purpose, and from no later than six months after the date of the market launch of the interface, FCA 2021/45 account servicing payment service providers shall ensure that the payment service providers referred to in Article 30(1) can be identified and can rely on the authentication procedures provided by the account servicing payment service provider to the payment service user. Where the payment service providers referred to in Article 30(1) make use of the interface referred to in paragraph 4 they shall:

(a) take the necessary measures to ensure that they do not access, store or process data for purposes other than for the provision of the service as requested by the payment service user;

(b) continue to comply with the obligations following from Regulations 69(3) and 70(3) of the Payment Services Regulations 2017 (SI 2017/752) respectively;

(c) log the data that are accessed through the interface operated by the account servicing payment service provider for its payment service users, and provide, upon request and without undue delay, the log files to the FCA;

(d) duly justify to the FCA, upon request and without undue delay, the use of the interface made available to the payment service users for directly accessing its payment account online;

(e) inform the account servicing payment service provider accordingly.

(6) The Subject to paragraph 6A of this Article, the FCA 2021/45 FCA will exempt account servicing payment service providers that have opted for a dedicated interface from the obligation to set up the contingency mechanism described under paragraph 4 where the dedicated interface meets all of the following conditions:

(a) it complies with all the obligations for dedicated interfaces as set out in Article 32;

(b) it has been designed and tested in accordance with Article 30(5) to the satisfaction of the payment service providers referred to therein;

(c) it has been widely used for at least three months by payment service providers to offer account information services, payment initiation services and to provide confirmation on the availability of funds for card-based payments;

(d) any problem related to the dedicated interface has been resolved without undue delay.

(6A) FCA 2021/45 An account servicing payment service provider to whom this paragraph applies is deemed to have been exempted by the FCA under paragraph 6 of this Article if, at 11pm on 31 December 2020, it was exempted from the obligation to set up a contingency mechanism by its home state competent authority under Article 33(6) of Commission Delegated Regulation (EU) 2018/389 of 27 November 2017 supplementing Directive (EU) 2015/2366 of the European Parliament and of the Council with regard to regulatory technical standards for strong customer authentication and common and secure open standards of communications.

This paragraph applies to account servicing payment service providers deemed to be authorised under paragraph 1, 12B, 14(2)(a)(i) or 24(4)(a)(i) of Schedule 3 of the Electronic Money, Payment Services and Payment Systems (Amendment and Transitional Provisions) (EU Exit) Regulations 2018 or regulation 8, 11, 28 or 34 of the EEA Passport Rights (Amendment, etc., and Transitional Provisions) (EU Exit) Regulations 2018.

This paragraph applies to account servicing payment service providers deemed to be authorised under paragraph 1, 12B, 14(2)(a)(i) or 24(4)(a)(i) of Schedule 3 of the Electronic Money, Payment Services and Payment Systems (Amendment and Transitional Provisions) (EU Exit) Regulations 2018 or regulation 8, 11, 28 or 34 of the EEA Passport Rights (Amendment, etc., and Transitional Provisions) (EU Exit) Regulations 2018.

(7) The exemption referred to in paragraph 6 (including any deemed exemption under paragraph 6A) FCA 2021/45 will be revoked where the conditions 6(a) and 6(d) are not met by the account servicing payment service providers for more than two consecutive calendar weeks. The FCA will ensure that the account servicing payment service provider

establishes, within the shortest possible time and at the latest within two months, the contingency mechanism referred to in paragraph 4.

Article 34 Certificates

(1) For the purpose of identification, as referred to in Article 30(1)(a), account servicing payment service providers shall accept both of the following electronic means of identification:

account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments shall rely on one of the above means of identification.

(a) qualified certificates for electronic seals as referred to in Article 3(30) of the Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust service for electronic transactions in the internal market, as amended by the Electronic Identification and Trust Services for Electronic Transactions (Amendment etc.) (EU Exit) Regulations 2019 as came into force on IP completion day as defined in the European Union (Withdrawal Agreement) Act 2020, or for website authentication as referred to in Article 3(39) of the same Regulations;

(b) at least one other form of identification issued by an independent third party that is not unduly burdensome for payment service providers to obtain; and

account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments shall rely on one of the above means of identification.

(2) For the purpose of these Standards, referred to in paragraph 1, the registration number as referred to in the official records in accordance with Annex III(c) or Annex IV(c) to Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust service for electronic transactions in the internal market as amended by the Electronic Identification and Trust Services for Electronic Transactions (Amendment etc.) (EU Exit) Regulations 2019 as came into force on IP completion day as defined in the European Union (Withdrawal Agreement) Act 2020 and the registration number referred to in paragraph 8, shall be the authorisation or registration number of the payment service provider issuing card-based payment instruments, the account information service providers and payment initiation service providers, including account servicing payment service providers providing such services, available in the public register of the UK pursuant to regulation 4 of the Payment Services Regulations (SI 2017/752) or section 347 of the Financial Services and Markets Act 2000, or in the case of such payment service providers incorporated and registered or authorised in Gibraltar, their incorporation number available in the Regulated Entities Register of the Gibraltar Financial Services Commission.

(3) For the purposes of these Standards qualified certificates for electronic seals or for website authentication referred to in paragraph 1(a) shall include, in a language customary in the sphere of international finance, additional specific attributes in relation to each of the following:

(a) the role of the payment service provider, which may be one or more of the following:

- (i) account servicing;
- (ii) payment initiation;
- (iii) account information;
- (iv) issuing of card-based payment instruments;

(b) the name of the competent authorities where the payment service provider is registered.

(4) The attributes referred to in paragraph 3 shall not affect the interoperability and recognition of qualified certificates for electronic seals or website authentication.

(5) Where a form of identification under paragraph 1(b) is used, account servicing payment service providers must:

- (a) verify that the payment service provider is authorised or registered to perform the payment services relevant to its activities in a way that does not present an obstacle to the provision of payment initiation and account information services; and
- (b) satisfy itself that the independent third party issuing that form of identification is suitable and has sufficient systems and controls to verify the information contained in the digital certificate referred to in paragraph 8.

(6) Account servicing payment service providers must make public the forms of identification they accept.

(7) Payment service providers relying on a form of identification under paragraph 1(b) must notify the independent third party issuing that form of identification of any changes in identity information or regulatory authorisation in writing before such changes take effect or, where this is not possible, immediately after.

(8) A form of identification accepted under paragraph 1(b) must be a digital certificate that:

- (a) is issued upon identification and verification of the payment service provider's name, company number (if applicable) and its principal place of business;

(b) gives appropriate assurance to account servicing payment service providers in relation to the authenticity of the data and the identity of the payment service provider;

(c) represents the following information:

(i) name of the issuer of the form of identification;

(ii) the name of the payment service provider to whom the certificate is issued; and

(iii) the registration number and competent authority of the payment service provider to whom the certificate is issued; and

(d) is revoked where the payment service provider ceases to be authorised or registered or it would be inconsistent with its authorisation to carry on the relevant payment services.



Article 35 Security of communication session

(1) Account servicing payment service providers, payment service providers issuing card-based payment instruments, account information service providers and payment initiation service providers shall ensure that, when exchanging data by means of the internet, secure encryption is applied between the communicating parties throughout the respective communication session in order to safeguard the confidentiality and the integrity of the data, using strong and widely recognised encryption techniques.

(2) Payment service providers issuing card-based payment instruments, account information service providers and payment initiation service providers shall keep the access sessions offered by account servicing payment service providers as short as possible and they shall actively terminate any such session as soon as the requested action has been completed.

(3) When maintaining parallel network sessions with the account servicing payment service provider, account information service providers and payment initiation service providers shall ensure that those sessions are securely linked to relevant sessions established with the payment service user(s) in order to prevent the possibility that any message or information communicated between them could be misrouted.

(4) Account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments with the account servicing payment service provider shall contain unambiguous references to each of the following items:

(a) the payment service user or users and the corresponding communication session in order to distinguish several requests from the same payment service user or users;

(b) for payment initiation services, the uniquely identified payment transaction initiated;

(c) for confirmation on the availability of funds, the uniquely identified request related to the amount necessary for the execution of the card-based payment transaction.

(5) Account servicing payment service providers, account information service providers, payment initiation service providers and payment service providers issuing card-based payment instruments shall ensure that where they communicate personalised security credentials and authentication codes, these are not readable, directly or indirectly, by any staff at any time.

In case of loss of confidentiality of personalised security credentials under their sphere of competence, those providers shall inform without undue delay the payment services user associated with them and the issuer of the personalised security credentials.

In case of loss of confidentiality of personalised security credentials under their sphere of competence, those providers shall inform without undue delay the payment services user associated with them and the issuer of the personalised security credentials.



Article 36 Data exchanges

(1) Account servicing payment service providers shall comply with each of the following requirements:

(a) they shall provide account information service providers with the same information from designated payment accounts and associated payment transactions made available to the payment service user when directly requesting access to the account information, provided that this information does not include sensitive payment data;

(b) they shall, immediately after receipt of the payment order, provide payment initiation service providers with the same information on the initiation and execution of the payment transaction provided or made available to the payment service user when the transaction is initiated directly by the latter;

(c) they shall, upon request, immediately provide payment service providers with a confirmation in a simple 'yes' or 'no' format, whether the amount necessary for the execution of a payment transaction is available on the payment account of the payer.

(2) In case of an unexpected event or error occurring during the process of identification, authentication, or the exchange of the data elements, the account servicing payment service provider shall send a notification message to the payment initiation service provider or the account information service provider and the payment service provider issuing card-based payment instruments which explains the reason for the unexpected event or error.

Where the account servicing payment service provider offers a dedicated interface in accordance with Article 32, the interface shall provide for notification messages concerning unexpected events or errors to be communicated by any payment service provider that detects the event or error to the other payment service providers participating in the communication session.

Where the account servicing payment service provider offers a dedicated interface in accordance with Article 32, the interface shall provide for notification messages concerning unexpected events or errors to be communicated by any payment service provider that detects the event or error to the other payment service providers participating in the communication session.

(3) Account information service providers shall have in place suitable and effective mechanisms that prevent access to information other than from designated payment accounts and associated payment transactions, in accordance with the user's explicit consent.

(4) Payment initiation service providers shall provide account servicing payment service providers with the same information as requested from the payment service user when initiating the payment transaction directly.

(5) Account information service providers shall be able to access information from designated payment accounts and associated payment transactions held by account servicing payment service providers for the purposes of performing the account information service in either of the following circumstances:

(a) whenever the payment service user is actively requesting such information;

(b) where the payment service user does not actively request such information, no more than four times in a 24-hour period, unless a higher frequency is agreed between the account information service provider and the account servicing payment service provider, with the payment service user's consent.

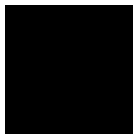
(6) FCA 2021/45 An account information service provider may only access information in the circumstances described in paragraph 5(b) of this Article, if the payment service user has confirmed with the account information service provider within the previous 90 days that the payment service user continues to consent to such access.

Chapter 6 Final provisions



Article 37 Review

The FCA will review by 14 March 2021 the fraud rates referred to in the Appendix to this Regulation as well as the exemptions granted under Article 33(6) in relation to dedicated interfaces.



Appendix

	Reference fraud rate (%) for:	
ETV	Remote electronic card-based payments	Remote electronic credit transfers
£440	0.01	0.005
£220	0.06	0.01
£85	0.13	0.015