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#### Content

Title: Regulations Governing the Security of Electronic Stored Value Cards

Date: 2009.07.16

## Content: Article 1

These Regulations are enacted pursuant to Paragraph 2, Article 4 of the Act Governing Issuance of Electronic Stored Value Cards.

#### Article 2

Issuers shall establish security measures in accordance with the security requirements and design set forth in these Regulations to ensure the security of the electronic stored value cards so as to protect the interests of consumers.

#### Article 3

The term "security requirements and design" mentioned in the preceding paragraph means the following:

- 1. For card transactions, an issuer shall implement the requirements set forth in these Regulations for the confidentiality, integrity, authentication and non-repeatability of transaction information in accordance with the level of card applications
- 2. For card management, an issuer shall take measures to protect its transaction system and the transaction systems of its contracted merchants and recharge institutions from the threat of unauthorized access or intrusion, and attack, and to effectively uphold the integrity and confidentiality of the transaction system, protect its operational security and maintain high level of availability.
- 3. For terminal equipment and user environment, an issuer shall implement security control and strengthen the security of terminal equipment to protect it from illegal transaction or tampering.
- 4. For the issuance of electronic stored value cards, an issuer shall choose proper type of card based on the level of applications.

#### Article 4

The terms as used in this Act shall have the following meanings:

- 1. "Recharge institution" means a certain institution that provides the card recharge services on behalf of an issuer at its request.
- 2. "Online transaction" means a cardholder using an electronic equipment or communication equipment to instantly connect directly with the issuer or via a contracted merchant or a recharge institution through any type of network to carry out a transaction, which includes instant message transmission between a contracted merchant and the issuer, between a recharge institution and the issuer, and between a recharge institution or a contracted merchant with its terminal equipment.
- 3. The term "type of network" referred to in the preceding subparagraph includes:
- (1) Dedicated network: Using an electronic equipment or communication equipment to carry out message transmission directly via dial-up, leased line or virtual private network (VPN) connection.

- (2) Internet: Using an electronic equipment or communication equipment to carry out message transmission through an Internet service provider.
- (3) Mobile network: Using an electronic equipment or communication equipment to carry out message transmission through a telecommunication service provider.
- 4. "Off-line transaction" means a cardholder of electronic stored value card carrying out transaction at the terminal equipment of a contracted merchant or recharge institution through all kinds of interface without connecting instantly with the issuer.
- 5. The term "kinds of interface" referred to in the preceding subparagraph includes:
- (1) Contact interface: Using magnetic, optical or electronic type of stored value card to carry out message transmission with the terminal equipment of a contracted merchant or recharge institution by means of direct contact.
- (2) Contactless interface: Using an electronic stored value card produced with radio frequency, infrared or other wireless communication technology to carry out message transmission with the terminal equipment of a contracted merchant or recharge institution without direct contact.
- (3) Network and other offline manners: Using an electronic stored value card to carry out message transmission with a remote contracted merchant or recharge institution via a network, communication equipment or other means without connecting instantly with the issuer for authorization.
- 6. Types of transaction:
- (1) "Online purchase transaction" means when a purchase transaction takes place, the authentication of the transaction is carried out by transmitting the related information to the issuer for processing through connection.
- (2) "Offline purchase transaction" means when a purchase transaction takes place, the authentication of the transaction does not require the transmission of related information to the issuer for processing through connection.
- (3) "Online recharge transactions" means when a recharge transaction takes place, the authorization of the transaction is carried out by transmitting the related information to the issuer for processing through connection.
- (4) "Offline recharge transaction" means when a recharge transaction takes place, the authorization of recharge does not require the transmission of related information to the issuer for processing through connection.
- (5) "Clearing and settlement transaction" includes the transmission of batch accounting information between a contracted merchant or recharge institution and its terminal equipment, the batch accounting information between a contracted merchant or recharge institution and the issuer, and offline recharge amount authorization request between a recharge institution and the issuer.

For the different types of transactions to which an electronic stored value card may use for, an issuer shall classify the card's application level (see table below) in accordance with these Regulations in consideration of the nature of product or service and amount of transaction involved.

1. Nature of product or servic

| Nature of | Description

product or   service	
Type 1	To pay for government fees and service   fees of public utilities (as defined   in Article 2 of Act for the   Supervision of Privately Run Public   Utilities), school tuition and fees,   medical expenses, public   transportation services (as defined in   Article 2 of Mass Transportation   Development Act, and gondola, taxi and   public bicycle), and parking, or other   types of services that support   government policy, are offered for   public interest and have been approved   by the Competent Authority.
Type 2	To pay for all kinds of products or services.

## 2. Amount of transaction

Amount of   transaction	Description
	The electronic stored value card can be   used to pay for purchase transaction under   NT\$1,000 only.
	The electronic stored value card is not   limited to paying small-sum transactions.

# 3. Application level

Nature of	product or	Type 1	Type 2
	Small-sum   transaction	  Level 1 	Level 1
tion amount	Unlimited-sum	  Level 1 	

# Article 6

For card transactions, an issuer shall ensure that the electronic stored value cards it issues meet the following security requirements:

1. Online purchase transaction

Type of connection	Dedicat   network	Dedicated network		Internet/   mobile network	
Application level   Protective measure	Level	Level	Level	Level	
Confidentiality	requi-	Not   requi-   red	   A 	A	
Integrity	B1	B1	B2	B2	
Authentic-   Authenticat-   ation   ion of   message or   cardholder	C1   	C2   	C1 	C2	
Non-repeatability	   F	   F	F	   F	

# 2. Off-line purchase transaction

Type of interface		Contact /   contactless		Network and   other offline   means	
Application level     Protective measure		   Level   1	Level   2	   Level   1	Level     2
Confidentiality   			Not   requi-   red	A   	A
   Integrity		   B1	   B2	B2	B2
	Authenticat- ion of stored value card		D2	D2	D2     D2   
 	Authenticat- ion of terminal	   E1   	   E2 	   E2 	E2     E2   
Non-repeata	bility	F	F	F	F

# 3. Online recharge transaction

Type of connection	Contact/	Internet/
	contactless	mobile network

Application level		Level	Level	Level	Level
Protective	measure	1	2	1	2
	1	NT /	   NT /		
Confidentia	.lıty	Not	Not	l A	A
		requi-	requi-		
		red	red		
					-
Integrity		B1	B1	B2	B2
		F1	F0	l Eo	F2
Authentic-	Authenticat-	E1	E2	E2	E2
tion	ion of				
	issuer*				
	l				
Non-repeata	bility	F	F	F	F
		l		l	

(\*: Applicable to electronic stored value cards with authentication and value storage functions only)

4. Off-line recharge transaction

Type of interface		Contact/   contactless		Network and   other offline   means	
Application level     Protective measure		level	level	level	level   2
		requi-	Not   requi-   red	A   A 	A   A 
Integrity		B1	B3	B3	B3
	Authentication of terminal	E1   	E2 	E2 	E2 
Non-repeatability		   F	   F	   F	   F

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Type of connection	Contact /     contactless			
Application level   Protective measure			level	level
, j	requi-	Not   requi-   red		A   

Integrity		   B1	   B1	B2	B2
Authentic-   tion		requi-	Not   requi-   red	C2	C2
Non-repeata	bility	   F	F	F	F

6. Where the transaction information in Subparagraphs 1 ~ 5 above contains personal data as defined in the Computer-Processed Personal Data Protection Act, the issuer shall adopt symmetric or asymmetric cryptographic system to encrypt such personal data to ensure their confidentiality and prevent unauthorized access. The level of cryptographic strength of the cryptographic system shall not be lower than that required for confidentiality set out in Article 7 (A) herein.

#### Article 7

The security design for confidentiality, integrity, authentication, and non-repeatability of transactions mentioned in the preceding articles shall meet the following requirements:

Protective measure		Basic principles of security   design
Confidentiality	A	Employ symmetric or asymmetric cryptographic system to encrypt the full text of message to prevent unauthorized access to the plaintext of message:  1. The symmetric cryptographic system shall adopt one of the algorithms below:  (1) The Triple Data Encryption Algorithm (TDEA), Two Key Triple Data Encryption Algorithm (2TDEA) with 112 key bits, or Three Key Triple Data Encryption Algorithm (3TDEA) with 168 key bits published by the U.S.  National Institute of Standards and Technology (NIST); or  (2) The NIST Advanced Encryption Standard (AES Algorithm) with key size of 128, 192, or 256
		bits.
		2. The asymmetric cryptographic
		system shall adopt one of the
		algorithms below:

		(1) The Rivest, Shamir, and Adleman Encryption Standard (RSA Algorithm) with key size of 1024 or 2048 bits; or (2) The Elliptic Curve Digital Signature Algorithm (ECDSA Algorithm) with 256 bits prime modulus (P-256).
Integrity 	B1	Employ one of the check sum   technologies below to prevent   malicious alteration of message:   1. Longitudinal Redundancy Check   (LRC).   2. Cyclic Redundancy Check   (CRC).   3. Hashing algorithm to generate   a message digest.
	B2	Employ encryption/decryption   technology that can prevent   malicious alteration of message,   using, for example, Message   Authentication Code (MAC) for   symmetric system or Digital   Signature for asymmetric system.   1. The symmetric cryptographic   system shall adopt one of the   algorithms below:   (1) TDEA, 2TDEA with key size of   112 bits or 3TDEA with key   size of 168 bits.   (2) AES Algorithm with key size   of 128, 192, or 256 bits.   2. The asymmetric cryptographic   system shall adopt one of the   algorithms below:   (1) RSA Algorithm with key size   of 1024 or 2048 bits.   (2) ECDSA Algorithm with 256   bits prime modulus (P-256).
		Besides the security requirements set forth for B2, the amount of recharge in the recharge transaction message must be included in the computing of message integrity.
Authenti -   Authenti -	C1	To ensure the accuracy of

cation	cation of   message or   cardholder	cardholder, any of the following methods can be used for authentication of cardholder:  1. User ID + fixed password.  2. Magnetic card + magnetic card password.  3. User ID + one-time password:  One-time password (OTP) is generated using a one-time password generator, short message or other means. OTP is randomly generated and can be used only once.  4. Provide chip-based electronic stored value card with authentication function on the basis of cryptography.
		Employ chip-based electronic stored value card or terminal security module with authentication function to ensure the accuracy of message source, using, for example, Message Authentication Code (MAC) for symmetric system or Digital Signature for asymmetric system.  1. The symmetric cryptographic system shall adopt one of the algorithms below:  (1) TDEA, 2TDEA with key size of 112 bits or 3TDEA with key size of 168 bits.  (2) AES Algorithm with key size of 128, 192, or 256 bits.  2. The asymmetric cryptographic system shall adopt one of the algorithms below:  (1) RSA Algorithm with key size of 1024 or 2048 bits.  (2) ECDSA Algorithm with 256 bits prime modulus (P-256).
	Authenti-   cation of   stored   value card	Employ symmetric or asymmetric cryptographic system to authenticate the electronic stored value card from the terminal equipment to prevent the use of fraudulent electronic

		stored value card.
	D2	Employ symmetric or asymmetric cryptographic system to authenticate the electronic stored value card with the terminal equipment to prevent the use of fraudulent electronic stored value card.  1. The symmetric cryptographic system shall adopt one of the algorithms below:  (1) TDEA, 2TDEA with key size of 112 bits or 3TDEA with key size of 168 bits.  (2) AES Algorithm with key size of 128, 192, or 256 bits.  2. The asymmetric cryptographic system shall adopt one of the algorithms below:  (1) RSA Algorithm with key size of 1024 or 2048 bits.  (2) ECDSA Algorithm with 256 bits prime modulus (P-256).
Authenti- cation of terminal/ issuer	E1   	Employ symmetric or asymmetric cryptographic system to verify the legality of terminal equipment or issuer from the electronic stored value card to prevent unauthorized terminal equipment from processing transactions.
		Employ symmetric or asymmetric cryptographic system to verify the legality of terminal equipment or issuer from the electronic stored value card to prevent unauthorized terminal equipment from processing transactions.  1. The symmetric cryptographic system shall adopt one of the algorithms below:  (1) NIST TDEA, 2TDEA with key size of 112 bits or 3TDEA with key size of 168 bits.  (2) NIST AES Algorithm with key size of 128, 192, or 256

	bits.
	2. The asymmetric
	encryption/decryption system
	shall adopt one of the
	algorithms below:
	(1) RSA Algorithm with key size
	of 1024 or 2048 bits.
	(2) ECDSA Algorithm with 256
	bits prime modulus (P-256).
Non-repeatability	F   Use the mechanism of sequence
	number, date and time, time
	series or cryptographic
	challenge-response protocol to
	prevent using the message of an
	earlier successful transaction
	to complete another transaction.

For card management, an issuer shall adopt the following protective measures:

Protective   measures	Security requirements
Establishing   security   strategies 	1. Establish computer resources access control mechanism and security protection measures.  2. The transactions must be traceable.  3. Monitor illegal transactions.  4. Prevent small contracted merchants from making unwarranted payment deductions.  5. Sound key management.
Enhancing system security	Enhance the security and availability of   the computer systems.
Drafting operations management rules	Draft operations management rules.

## Article 9

The security design to address the security requirements for an issuer with respect to card management as provided in the preceding article shall meet the following criteria:

Security	Security design
requirements	

computer resources	Able to prevent unauthorized access to system resources and minimize the possibility of illegal entry by implementing the following measures and controls:  1. Establish the hardware or software security systems, such as firewall, security software and detection software.  2. Control the number of wrong password entries.  3. Encrypt the password file of computer system.  4. Save the transaction log and audit trail.  5. Design access control, using, for example, password or ID card.  6. Implement login time control.  7. Use VPN for remote access.  8. Tiered management of system resources based on their significance and sensitivity.  9. Enforce the change of preset passwords for application software and network operating systems.  10. Ensure personal data protection when the system provides all kinds of service functions.
     	The transaction log shall contain the following information and be saved in the mainframe of the issuer for future reference:  1. User ID or card number.  2. Amount of transaction.  3. The ID of terminal equipment.  4. Transaction sequence number or transaction date and time.
	The issuer shall monitor illegal transactions.
contracted merchants from making unwarranted payment deductions	A contracted merchant with paid-in capital less than NT\$80,000,000 and annual revenue less than NT\$60,000,000 shall allow cardholders to confirm a transaction by any of the following means, with the exceptions to transactions involving Type 1 products or services:

     	1. Card swiping or card insertion.   2. Input of password.   3. Any other system designs for cardholder to confirm a transaction.
Sound key   management             	Key management shall give the following security considerations:  1. Ensure the quality of keys (prevent the use of weak keys).  2. Ensure that the leak of key content will not occur during the use, storage, transfer or destruction of key.  3. Make duplicate of keys to ensure their usability.  4. Implement proper access control procedure for the upgrade or disposal of key storage equipment or medium to ensure that leakage of keys will not occur.
Enhance the   security and   availability of   the computer   systems	Offsite redundancy and failure prevention measures shall be established, including:  1. Prepare backup mainframe, server, communication equipment, networks, and peripheral equipment.  2. Install virus detection software to scan the network nodes and servers periodically.  3. Install the patches or hotfixes of systems if necessary.  4. Ensure the physical security of servers and network equipment.
Draft operations   management rules 	The internal accountability system and approval procedure of the issuer, contracted merchants and recharge institutions and attribution of responsibility between them and the cardholders shall include:  1. Security policy, standard, procedure or guidelines, including the equipment specifications.  2. Descriptions of security mechanisms and security procedures.  3. Key management measure or rules.  4. Security instructions for cardholders and a complete contract.

For terminal equipment and user environment, an issuer shall adopt the following protective measures:

Protective   measures	Security requirements
Establishing   security   strategies	1. Maintain the physical integrity of terminal and equipment and user environment.   2. Ensure the transaction security of terminal equipment.   3. Establish an effective or real-time blacklist management mechanism.   4. Reduce the probability of accidental trigger of transaction for contactless electronic stored value cards.   5. Design terminal security module for off-line recharge transactions.   6. Install surveillance equipment if Level 1 electronic stored value card is used for off-line transactions at a contracted merchant providing Type 2 products or services.   7. Directions for the development of Internet application systems.
Enhancing the   system   availability	Implement measures to enhance the system   availability.
Drafting   operations   management rules	Draft operations management rules, which should be implemented in internal environment management as well.

### Article 11

The security design to address the security requirements for an issuer with respect to terminal equipment and user environment as provided in the preceding article shall meet the following criteria:

Security	Security design
requirements	
	+
Maintain the	Adopt the following security designs:
physical integrity	y   1. Check periodically the quantity of
of terminal and	relevant devices:
equipment and user	r   (1) Make sure each original facility is
environment	properly numbered.
	(2) Check the onsite facilities and
	devices to see if they are consistent

with the original state. (3) Create a checklist, conduct review regularly and follow up. 2. Make sure to sign a non-disclosure agreement with the terminal equipment supplier, and ask the supplier to create a list of terminal equipment installation and maintenance personnel, and automatically notify the issuer whenever the list is updated. 3. Make sure the personnel of terminal equipment supplier show identification document when they work onsite. Besides the installation and maintenance operations, the terminal equipment supplier shall readily support the issuer's needs to inspect whether a terminal equipment is being tampered with or has a skimmer installed. 4. The issuer shall from time to time dispatch personnel to inspect the terminal equipment installed at the contracted merchants or recharge institutions to see whether the equipment is being improperly tampered with and check whether its software is being altered without authorization. | Ensure the The processing of transactions with transaction terminal equipment shall comply with the security of | following rules: | terminal equipment | 1. For information contained in the electronic stored value card, except for account number, card number, expiration date, transaction sequence number, and other data necessary for verifying whether a transaction occurs, no other data may be stored in the terminal equipment. 2. To ensure the validity of terminal equipment, each terminal equipment shall have a unique ID number. 3. For Level 2 transactions, the security module of the terminal equipment should be individualized (that is, the keys for each terminal equipment are different)

Establish an To effectively prevent the transaction effective or of invalid electronic stored value | real-time cards, an issuer should establish a blacklist blacklist management mechanism. The | blacklist for online transactions shall management be updated in real-time, and the mechanism | blacklist for off-line transactions shall be updated at least daily. Reduce the The terminal equipment should implement probability of the following design to minimize the accidental trigger | probability of accidental trigger when of transaction for the cardholder of a contactless electronic stored value card has no contactless | electronic stored | intention to make a transaction: value cards 1. The sensing distance is kept below 6 cm (inclusive); and 2. A transaction is prompted by sound, light signal or graphic image. Design terminal The terminal equipment for off-line security module recharge transactions should be equipped for off-line with security module and the following recharge designs for recharge transaction: transactions 1. Recharge transactions are individually authorized. 2. The amount per recharge is limited. 3. The cumulative recharge amount is limited (e.g. daily limit). If the limit is reached, request for authorization of additional amount from the issuer can be made through the terminal equipment. 4. The security modules should be properly managed, e.g. implementing the production, issuance, and delivery process, production operation control, and security control of security modules. Install If Level 1 electronic stored value card is used for off-line transactions at a surveillance | equipment or adopt | contracted merchant providing Type 2 other necessary products or services, the issuer shall | measures to reduce | demand that the contracted merchant the incidence of | installs surveillance equipment and faked card keeps recording all the time during the transaction if business hours, or takes other necessary Level 1 electronic | measures to minimize faked card stored value card | transactions.

is used for off-line transactions at a contracted merchant providing Type 2 products or services | Directions for the | If the electronic stored value card development of holders conduct transactions over the Internet Internet using a browser, the network application application system shall have the systems | following designs: 1. The website shall adopt Secure Sockets Layer (SSL) mechanism or encrypt the transmissions in other manners with the level of cryptographic strength not lower than that specified in Article 7 (A) on confidentiality. 2. The check code of terminal equipment for each transaction shall be generated dynamically and randomly, or protected by cryptographic operations. 3. The system should be designed with Graphic One Time Password (GOTP) with masking function or random buttons. 4. The system should have the design of dynamic page presentation or restricting selection by mouse click only to prevent the simulation of SendKey Control. 5. The system should have session control and timeout mechanism. 6. In the case of multi-page design, the system should verify the authenticity of the previous webpage. 7. The client-side component should verify the authenticity of website. 8. The client-side component should have anti-theft mechanism to verify the validity or authenticity of website. 9. The client-side component should have a CodeSign to ensure the integrity of the component. 10. The client-side component should have the implementation of exclusive mode when accessing card. 11. The client-side component should have the design that allows

         	cardholder to confirm a transaction manually.  12. When the system is hacked, the issuer shall immediately shut down the network service to ensure the security of transactions.
Implement measures   to enhance the   system   availability	System availability should be managed   and controlled with the following   measures:   1. Planning network redundancy.   2. Planning redundant circuitry or   uninterruptible power supply (UPS).
Draft operations   management rules       	Draft terminal equipment management rules, including description of equipment specifications and security mechanism, description of security procedures, principles for the security module control operation, blacklist management mechanism, and measures for contract signing with contracted merchants and recharge institutions, and their management.

An issuer shall choose the proper types of electronic stored value card based on the intended application level:

Application level	Applicable types of electronic stored   value card
Level 1	The electronic stored value card must be one of the following types; electronic stored value cards with features in Point 3, 4, or 5 can be used for online transactions only:  1. Smart card with cryptographic operation capability.  2. Memory IC card + fixed password.  3. User ID + one-time password.
	<ul><li>  4. Magnetic strip card + fixed password.</li><li>  5. User ID + fixed password.</li></ul>
Level 2	The electronic stored value card must be one of the following types:  1. Smart card that meets the security requirements set forth in Article 6 herein and has had security certified.  2. User ID + security-certified one-time

	password generator (e.g. OTP Token)	
	(transactions can be carried out	
	online and on real-time basis only.	
1		- 1

The term "security certified" means that as confirmed by the competent authority, the security level has passed the third-party evaluation of an institution recognized by the National Communication Commission of Executive Yuan or the Common Criteria Recognition Arrangement (CCRA) as meeting or on a par with any of the following criteria:

- 1. ISO/IEC15408 Common Criteria v2.3 EAL4+ (augmented by AVA\_VLA.4 and ADV\_IMP.2)
- 2. ISO/IEC15408 Common Criteria v3.1 EAL4+ (augmented by AVA\_VAN.5).
- 3. CNS 15408 EAL4+(augmented by AVA\_VLA.4 and ADV\_IMP.2).
- 4. Other evaluation criteria accepted by the competent authority. Article 13

An issuer shall adopt the following protective measures for the electronic stored value cards it issues:

Protective measures	Security requirements
Establishing security   strategies 	1. Verify the validity of   electronic stored value card.   2. Incorporate specific security   design if user ID + fixed   password are adopted.   3. Personal data stored in the   electronic stored value cards   must be protected.
Drafting operations   management rules	Draft the electronic stored value     card delivery control process.

#### Article 14

The security design to address the security requirements for an issuer with respect to electronic stored value cards it issues as provided in the preceding article shall meet the following criteria:

Security requirements	Security design
	Ensure the validity of electronic stored value card by any of the following means:  1. The card has an independent and unique ID.  2. The card has the function of authentication.
security design if user	Electronic stored value card that   adopts user ID + fixed password   shall have the following security

adopted	designs:
adopted	1. Security design for user ID:
	(1) If the issuer uses the
	explicit data of customers
	(e.g. Uniform Business No., ID
	No., and account number) for
	user ID, a cardholder ID shall
	also be used for identification
	purpose.
	(2) The user ID shall not have
	less than six digits.
	(3) The user ID may not be
	identical English alphabets or
	numbers, or consecutive English
	alphabets or sequential
	numbers.
	(4) If a customer did not change
	the password in one month
	(calendar days) after receiving
	the user ID, the customer may
	not use the same user ID for
	sign-in.
	(5) A customer may log in with the
	password once at a time.
	(6) The use of cardholder ID shall
	at least follow the rules
	below:
	a. The cardholder ID may not be
	the explicit data of customer.
	b. If wrong ID is entered five
	times, the issuer should take
	proper action.
	c. The cardholder ID may not be
	identical to the user ID when
	first established; the same rule
	applies to change of cardholder
	ID.
	2. Security design for password:
	(1) The password shall not be less
	than six digits. If it is used
	in combination with transaction
	password, the password shall
	not be less than four digits.
	(2) Suggest the use of combination
	of English alphabets and
	numerals for password, and
	preferably include upper case
	and lower case English
	alphabets or signs.
	(3) The password may not use

	identical English alphabets or numbers, or consecutive English alphabets or sequential numbers.  (4) The password and user ID may not be identical.  (5) The transaction may not continue if wrong password is entered five times consecutively.  (6) The new password may not be identical to the one just used.  (7) Make change of preset password compulsory during the first-time login.
	If personal data are stored in   electronic stored value cards,   access control or cardholder   verification mechanism shall be   implemented to restrict access.
stored value card	The issuer should properly manage   the life cycle of electronic   stored value cards, including:   1. Drafting electronic stored   value card production, issuance,   and delivery control processes.   2. Implementing control of card   production outsource operation.   3. Implementing physical security   control of electronic stored   value cards.

An issuer shall file quarterly reports on the amount of irregular transactions with the Competent Authority, and submit an improvement plan with the Competent Authority if the cumulative amount (of irregular transactions) for the year exceeds one percent (1%) of its paid-in capital. Article 16

An issuing transaction shall file statistical data on card transactions by the nature of products or services and transaction amount as provided in Article 5 herein with the Competent Authority or an institution designated by the Competent Authority every quarter.

#### Article 17

An issuer shall engage an accountant to audit its status of compliance with these Regulations, and submit the audit report to the Competent Authority for reference in two (2) months after the end of each fiscal year.

#### Article 18

Issuer that are currently issuing electronic stored value cards and have been

approved to engage in electronic stored value card business and banks that are currently engaging in electronic stored value card business shall make adjustment within six (6) months after the promulgation and implementation of these Regulations if they do not comply with the provision of "prevent small contracted merchants from making unwarranted payment deductions" in Article 9 herein.

Article 19

These Regulations are in force from the date of promulgation.

Data Source: Financial Supervisory Commission Laws and Regulations Retrieving System