



BANK NEGARA MALAYSIA
CENTRAL BANK OF MALAYSIA

Operational Procedures For Foreign Currency Settlement In The Real Time Electronic Transfer Of Funds And Securities System (RENTAS)

Applicable to:

1. Participants of RENTAS

REVISION HISTORY

Version No.	Effective Date	Summary of Changes
1.0	1 Jul 2021	Initial Creation
1.1	4 Jan 2022	Clause 3.2.1 Included SWIFT Alliance Lite2 (SAL2) as additional option for participants to access RENTAS subject to participants complying with BNM Risk Management in Technology (RMiT) Clause 4.2.2. Added institutions licensed under Financial Services Act (FSA)/ Islamic FSA upon designation in RENTAS membership Type 1 Clause 11.10 and 11.11 Updated the clauses to clarify that “free-ride” of extension is not limited to multiple cut-off time extension requests that overlapped with each other. Clause 14.5 Revised the requirement on number of days for participants to renew their ePKI certificate before expiry date Glossary, item 4 and 46 Added definition of “Bridge Institutions” and “PIDM”
1.2	1 Aug 2022	Clause 3.2 Amended Clause 3.2.1 (ii) to update the Department in charge in BNM for consultation purpose Guideline IV – Supplementary Guideline on Co-existence of RENTAS ISO20022 (MX) and ISO15022 (MT) Added new guideline to provide clarity on changes to payment messages resulting from the RENTAS MT-MX co-existence Appendix IX – External User Access Request Form Added RENTAS Portal as the available System/Application in External User Access Request Form Appendix XV – Declaration of Onboarding Readiness for RENTAS ISO20022 Payment Messages Added new appendix for Participants to formally declare their onboarding readiness for MX Appendix XVI – Confirmation of MT-MX Outgoing & incoming Transaction Flow Added new Appendix for Participants to provide the selected option on transaction flow Glossary – Item 37 Added definition of “MX Participants”

1.3	1 Apr 2023	Clause 7.0 Added clause 7.8 and 7.9 to clarify the handling of payments settlement in RENTAS in the event of Unexpected Banking Holiday Clause 27.4 Added new sub-cause 27.4.6 to introduce RENTAS iLINK as new module in RENTAS Portal Clause 28.0 Removed clause 28.1 on RENTAS iLINK user manuals. Guideline IV – Supplementary Guideline on Co-existence of RENTAS ISO20022 (MX) and ISO15022 (MT) Added clause 4.3 and clause 5.2 to manage additional MX information by RENTAS participants during co-existence of MT-MX Appendix IX – External User Access Request Form Updated the form to be applicable for BNM and external use. Removed the Cyber Security Department (CSD) sign off. Glossary Added definition of “Banking Holiday” and “Unexpected Banking Holiday”. Insert word ‘eligible’ in the definition of “Intraday Credit Facility”.
1.4	2 January 2024	Clause 3.2.1 Updated Clause 3.2.1 (ii) to include new platform i.e. SWIFT Alliance Cloud (SAC) and the requirement for participants opting for SAL2 and SAC. Appendix VI – Form C: Confirmation of Access Channel for Foreign Currency Settlement in RENTAS Added SWIFT Alliance Cloud (SAC) as a selectable access channel option for Participants.
1.5	1 July 2024	Clause 3.2.1 Updated Clause 3.2.1 (iii) to remove iLink accessibility via internet. Clause 4.2.2 Updated Type 1 membership table to recognise Bridge Institution as RENTAS member upon designation in accordance with PIDM Act. Clause 6 Updated to reflect the changes of payment message format to MX from MT, while retaining securities messaging format as MT. Clause 7.17 Updated to reflect the changes of MT message format to MX.

Clause 8.5

Updated to reflect the changes of MT message format to MX.

Clause 22.2.1 and 22.2.2

Updated to reflect the changes of MT message format to MX.

Guideline I – Compensation on Inter-bank Failed Settlements

Updated Clause 3.2 to reflect the changes of MT message format to MX.

Guideline II – Guidelines on Handling Invalid Characters in RENTAS

Updated Clause 2.1 and 2.2 to reflect the extended special characters required by MX message format.

Guideline VI – Supplementary Guideline on Co-existence of RENTAS ISO20022 (MX) and ISO15022 (MT)

Removed Guideline VI as RENTAS participants will be on MX message format effective 1 July 2024, and the MX message format have been reflected into the main Clauses.

Appendix I – RENTAS – Contact Details

Removed contacts for CIMB Bank Berhad (previous USD OSI).

Appendix XII – Activation of RENTAS iLINK workstation facility at Bank Negara Malaysia Checklist

Removed USD as the available currency from Foreign Currency settlement service in RENTAS.

Glossary – Item 5, 48 and 49

Updated definition of the following terms:
“Bridge Institutions” and “PIDM”.

Added definition of “PIDM Member Institution”.

1.6 **1 November
2024**

Clause 7.8 and 7.9

Updated to replace “Unexpected Banking Holiday” with “Unexpected Holiday”.

Clause 9.9.2, 9.9.3 and 9.9.4

Updated to replace “Banking Holiday” with “Holiday”.

Appendix II – Fees and Charges for RENTAS MYR Services

Updated Contingency Terminal Charges at BNM premise to include a RENTAS Bank Gateway (RBG) activation fee, and streamlined utilization fee of iLINK or RBG.

Glossary

Updated definition of the following glossary:

- i. Replaced “Unexpected Banking Holiday” with “Unexpected Holiday” and provided definition of the new term.
- ii. Replaced “Banking Holiday” with “Holiday” and provided definition of the new term.
- iii. Updated the definition for the term “Business Day” to specify exclusion of Holiday or Unexpected Holiday
- iv. Updated the illustration in the definition of “Recovery Time Objective (RTO)”

1.7 **29 September
2025**

Clause 1.2

Removed Operational Procedures for Cross-Border Securities Custodian Services (CSCS) in RENTAS due to closure of CSCS.

Clause 2

Updated RENTAS Overview to include NRTS and remove CSCS module.

Clause 3.1

Removed RENTAS Euroclear Link upon termination of CSCS.

Clause 4.2.2

Amended “Foreign Central Banks” to “Central Banks” under type IV membership

Added “RPSO” under Type VI membership

Updated the clause to remove Cross-border Securities section.

Clause 4.5

Updated the clause to remove CSCS.

Clause 11.12

Transfer of clause into the Participation Rules for Payments and Securities Services to standardise all clauses related to breaches/non-compliance to be outlined in the PR

Clause 19

Removed clause due to obsolescence.

Appendix I

Updated contact information for BNM’s Financial Market Infrastructure Department.

Appendix II

Standardised terminology used in the description of items related to non-compliance breaches.

Appendix VI Form A: New Participant and Appendix VI Form B: Existing RENTAS Extends Membership to MYR Settlement Service

Removed CSCS offered in RENTAS from the appendices.

Appendix XIII - Guideline for Registration of New Digital Certificate in RENTAS Portal

Updated the appendices based on the new RENTAS Portal screens.

Appendix XV - Declaration of Onboarding Readiness for ISO20022 Payment Messages and Appendix XVI - Confirmation of MT-MX Outgoing & Incoming Transactions Flow

Removed appendices due to completion of migration from ISO150001 to ISO20022.

1.8 1 September 2026

Appendix III Request for Extension of RENTAS Foreign Currency Settlement Cut-off Time

Change of designation from 'Head' to 'Director'

Appendix IV Incident Report from Participants

Change of designation from 'Head' to 'Director'

Appendix V Request To Re-sequence or Cancel Payment Instruction(s) In Priority Queue

Change of designation from 'Head' to 'Director'

Appendix VI Form A: New Participant

Change of designation from 'Head' to 'Director'

Appendix VI Form B: Existing RENTAS Participant Extends Membership to Foreign Currency Settlement Service

Change of designation from 'Head' to 'Director'

Appendix VI Form C: Confirmation of Access Channel for Foreign Currency Settlement in RENTAS

Change of designation from 'Head' to 'Director'

Appendix VII Contact Person for Daily Operation of RENTAS

Change of designation from 'Head' to 'Director'

Appendix VIII RENTAS – Authorised Signatories List

Change of designation from 'Head' to 'Director'

Appendix XIV Activation of RENTAS iLINK Facility at Bank Negara Malaysia

Change of designation from 'Head' to 'Director'

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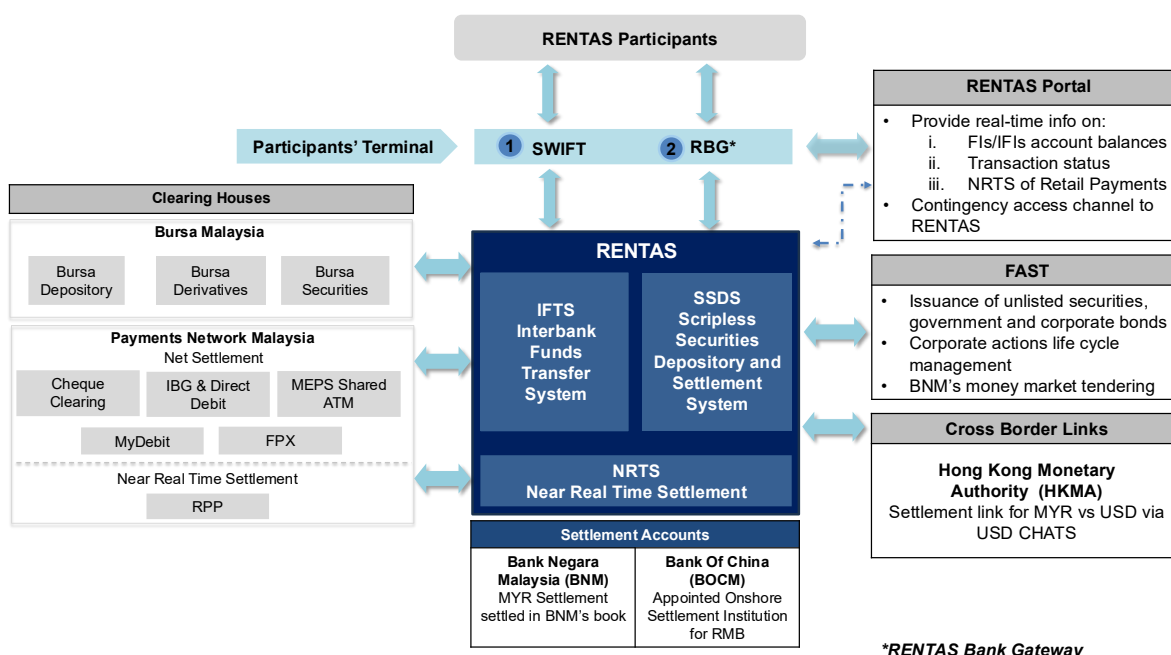
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1 Introduction

- 1.1 The Operational Procedures provides information and procedures that are applicable to Participants using the Real Time Electronic Transfer of Funds and Securities (RENTAS) for Foreign Currency Settlement for interbank fund transfers, clearing houses' transactions and securities trades and corporate actions.
- 1.2 These Operational Procedures shall be read in conjunction with the following documents:
 - i. Participation Rules for Payment and Securities Services;
 - ii. Operational Procedures for MYR Settlement in RENTAS;
 - iii. Operational Procedures for Securities Services;
 - iv. Guidelines on Business Continuity Management for Participants of RENTAS and FAST; and
 - v. Other relevant guidelines, notices, circulars issued by Bank Negara Malaysia (BNM) from time to time.
- 1.3 These Operational Procedures are intended to equip Participants with an operating knowledge of Foreign Currency Settlement in RENTAS and serve as a basis for Participants to develop comprehensive internal procedures.
- 1.4 These Operational Procedures are issued pursuant to the requirements under—
 - i. Section 35 of the Financial Services Act 2013 (FSA); and
 - ii. Section 45 of the Islamic Financial Services Act 2013 (IFSA).
- 1.5 These Operational Procedures come into effect on 1 September 2026.

2 Overview



- 2.1 Participants may initiate payment and securities transactions using the Participant Terminals. Of the 3 types of Participant Terminals, Participants shall use the RENTAS Bank Gateway (RBG) or the SWIFT Access as their primary means of initiating and processing RENTAS transactions¹. RENTAS iLINK is a contingency access channel in the event that RBG or SWIFT Access fails. The Participant Terminals transmit the transactions to the RENTAS Host where the transactions are processed by simultaneously debiting the paying Participant and crediting the receiving Participant's Foreign Currency Settlement Account maintained with BNM or the Participant's Foreign Currency Settlement Accounts maintained with designated Onshore Settlement Institutions (OSI). Upon completion of funds transfer transactions, RENTAS Host will send completion advices to the paying Participants, while the receiving Participants will receive confirmation advices.
- 2.2 The RENTAS Host will process all transactions on an online and real time basis. Participants may also perform online queries on the status of their transactions and account balances via RENTAS iLINK.

¹ Participants with only non-essential transactions, low aggregate transaction value and very low volume may seek exemption from this requirement

3 System Components

3.1 RENTAS Host System (RENTAS Host)

The RENTAS Host consists of the following major modules:

3.1.1 Inter-bank Funds Transfer System (IFTS)

This module receives, validates, queues and processes fund transfer transactions and cash Settlements. It then relays the transactions to the MYR Settlement Account System (MYR SAS) or the Foreign Currency Settlement Account System (MCT SAS), where debit and credit transactions are posted to the Participants' MYR Settlement Account or Foreign Currency Settlement Account respectively.

3.1.2 MYR Settlement Account System (MYR SAS)

This is a real-time accounting module that posts debits and credits to MYR cash accounts across the books of BNM. All Foreign Currency Settlement Accounts are maintained with BNM.

3.1.3 Foreign Currency Transfer Settlement Account System (MCT SAS)

This is a real-time accounting module that posts debits and credits to foreign currency cash accounts across the books of OSIs. All Foreign Currency Settlement Accounts are maintained with OSIs.

3.1.4 Scripless Securities Depository and Settlement System (SSDS)

This module receives, validates, queues and processes securities sales, repos, free-of-payment transfers and pledges. It then simultaneously initiates debit and credit to the Securities Account of the buyer and seller and synchronises securities Settlement with cash Settlement in the IFTS module to achieve Delivery versus Payment (DvP).

3.1.5 Payment vs Payment (PvP) Link to USD CHATS

PvP is a cross border link between the RENTAS system and the USD CHATS system in Hong Kong. This link provides real-time Settlement for foreign exchange (FX) transactions involving US Dollars (USD) and

MYR, whereby USD settlement takes place in USD CHATS, while Foreign Currency Settlement takes place in RENTAS.

3.2 RENTAS Terminals

Participants Terminals

3.2.1 There are 3 RENTAS Terminals that Participants can use to access New RENTAS, namely the RENTAS Bank Gateway, SWIFT Access and RENTAS iLINK. Participants may opt for either the RENTAS Bank Gateway or SWIFT Access as their primary terminal, while RENTAS iLINK may be used for contingency purposes:

(i) RENTAS Bank Gateway (RBG)

Participants use RBG to enter, transmit and receive MYR and foreign currency funds and securities transactions. RBG also provides straight-through processing capabilities to automatically relay transactions from Participants' internal systems to RENTAS Host without the need for data entry or manual intervention at RBG. RBG connects to RENTAS Host via the network described in **Clause 3.3**.

(ii) SWIFT Access

Participants use SWIFT Access to enter, transmit and receive MYR and foreign currency funds and securities transactions. SWIFT Access has three (3) technology platforms, namely SWIFT Alliance Access (SAA), SWIFT Alliance Lite2 (SAL2) and SWIFT Alliance Cloud (SAC). SAA is a system with straight-through processing capabilities installed at the Participants' premises or data centres while SAL2 and SAC are cloud solutions that are hosted offshore by SWIFT. Participants may opt to use SAA, SAL2 or SAC to access RENTAS Host, subject to Participants complying with relevant requirements in the Risk Management in Technology (RMiT) Policy and SWIFT Customer Security Controls Framework (CSCF). As outlined in RMiT, Participants interested in using the SAL2 and SAC are required to undergo consultation sessions with BNM and demonstrate how their usage aligns with RMiT.

Confirmation and approval from BNM must be obtained prior to the adoption of SAL2 and SAC.

SWIFT Access via Cloud Services

For Participants opting to use SAL2 or SAC to access RENTAS Host, the following additional requirements shall be observed:

- (a) Usage of VPN connectivity
 - Participants are required to utilize VPN box connectivity, either through Alliance Connect (On-Premises) or Alliance Connect Virtual, which is hosted on a SWIFT-recommended third-party cloud provider such as Amazon Web Service (AWS), Microsoft Azure, or Google Cloud.
 - On-premises VPN box solution may be used as a connectivity method. However, the cloud-based option of the VPN box is subject to the Key Risks and Control Measures for Cloud Services in RMIT.
 - Physical restrictions must be imposed to ensure secure message transactions, and connectivity are limited to authorized personnel within the corporate network.
- (b) Submission of annual declaration report to BNM for review
 - Participants must submit their declaration report to BNM by 31 January of each year. The annual declaration report shall include:
 - i. The status of SWIFT CSCF attestation,
 - ii. Participants' compliance status against RMIT's guidelines on Key Risks and Control Measures for Cloud Services.
 - iii. A copy of Risk Assessment Report as specified in Appendix 7 of RMIT.
- (c) Outsourcing of key users is not permitted.
 - Participants shall retain the responsibility for managing SWIFT designated key users, including security officers and swift.com administrators within the Participants' organization.

- (d) Ensure Disaster Recovery (DR) availability as per (BCM) Guidelines for RENTAS and FAST. In addition, Participants shall employ two distinct availability zones for the cloud option. This measure is taken to ensure DR remains accessible even when one of the cloud zones experiences downtimes. This requirement covers aspects such as VPN connectivity and straight-through processing. Additionally, Participants shall ensure the two locations are included in the DR set-up.

(iii) **RENTAS iLINK**

RENTAS iLINK is a web-based system that provides real-time information such as cash positions, securities holdings and Settlement status of transactions. RENTAS iLINK also acts as a Participant Terminal that:

- (a) allows initiation of MYR and foreign currency funds and securities transactions; and
- (b) allows initiation of CSCS settlement instructions and custody operation instructions.

Participant shall access RENTAS iLINK via the private network described in Clause 3.3.

3.3 Network

- 3.3.1 Participants using RENTAS iLINK and RBG connect to RENTAS Host via a security private communication network provided by a third party provider determined by the Bank.
- 3.3.2 Participants using SWIFT Access connect to RENTAS Host via SWIFTNet.

3.4 Enterprise Public Key Infrastructure (e-PKI)

- 3.4.1 Enterprise Public Key Infrastructure (e-PKI) provides data authenticity, integrity and non-repudiation features, thus ensuring the security of transactions and information transmitted via RBG and RENTAS iLINK.

4 RENTAS Membership

4.1 This Clause 4.0 shall be read in accordance with the **Membership** section in the Participation Rules for Payments and Securities Services.

4.2 Types of RENTAS membership

4.2.1 RENTAS Membership is open to entities that meet the following criteria:

- (i) Financial Institutions (“FIs”) regulated by BNM and institution under BNM’s purview;
- (ii) Investment banks co-regulated by BNM and the Securities Commission of Malaysia;
- (iii) International Central Securities Depository (ICSD) and National Central Securities Depository (CSD);
- (iv) Central banks / monetary authorities, qualified foreign licensed financial institutions and multi-lateral development banks;
- (v) Qualified domestic entities that provide payment and clearing services (clearing houses);
- (vi) Qualified institutions whose admission will promote the development of the Malaysian financial markets;
- (vii) Licensed FIs regulated by Labuan Financial Services Authority (Labuan FSA).

4.2.2 There are seven (7) types of RENTAS membership as illustrated in the table below:

	Type I	Type II	Type III	Type IV	Type V	Type VI	Type VII
Type of Institution	- Licensed FIs regulated or co-regulated by BNM - Institutions under BNM’s purview - Subsidiary of PIDM upon designation as Bridge Institution in	- Development Financial Institutions - Domestic entities admitted for market development purposes	ICSDs and CSDs	Central Banks	Qualified foreign entities and multi-lateral institutions	- Clearing houses - RPSOs - Qualified local corporates	Licensed FIs regulated by Labuan Financial Services Authority (LFSA)

	Type I	Type II	Type III	Type IV	Type V	Type VI	Type VII
	accordance with PIDM Act.						
For MYR: a) Settlement Services	Access to both Settlement and Securities Accounts	Access to both Settlement and Securities Accounts	Access to Securities Accounts only	Access to Securities Accounts for own holdings only	Access to Securities Accounts for own holdings only	Access to Settlement and Securities Accounts for own holdings only	(Not applicable)
b) Intraday credit facility	Yes	No	No	No	No	No	(Not applicable)
c) Direct Participation	Yes	Yes	Yes	Yes	Yes	Yes	(Not applicable)
For Foreign Currencies: a) Settlement Services	Access to both Settlement and Securities Accounts	Access to both Settlement and Securities Accounts	Access to Securities Account	Access to Securities Account for own holdings only	Access to Securities Account only	Access to Settlement Accounts only	Access to Settlement Account Only
b) Intraday Credit Facility	At the discretion of OSI where the Participants maintain their foreign currency account.						
c) Direct Participation	Yes	Yes	Yes	Yes	Yes	Yes	Yes

4.2.3 Potential participants seeking admission to RENTAS shall fulfil the following requirements:

- (i) Demonstrate financial soundness.
- (ii) Have sufficient liquidity position or credit lines to cover the Participants' maximum expected settlement obligation in RENTAS.
- (iii) Have sufficient expertise and resources to operate RENTAS.
- (iv) Possess sufficient risk management and business continuity planning framework and policies.

4.2.4 Foreign entities with access to only securities accounts in RENTAS shall open a MYR cash account with a Malaysian bank for MYR cash settlement purposes and shall ensure sufficient liquidity at their participating banks, either by maintaining sufficient balances or by obtaining access to credit lines.

4.2.5 Documents that have to be submitted for the participation application shall include:

- (i) The latest three (3) years audited financial statements.
- (ii) Certificate of incorporation.
- (iii) Board resolution approving participation in RENTAS.
- (iv) Memorandum and articles of association.

4.2.6 Participants may be requested to submit documents on an annual basis to provide evidence that they are in compliance with the requirements outlined in **Clause 4.2.3**.

4.2.7 BNM may waive document submissions for entities that are regulated by BNM, or entities under BNM's purview.

4.3 **Admission of New Participant for Foreign Currency Settlement in RENTAS**

4.3.1 RENTAS currently offers Settlement services in MYR and selected foreign currencies

4.3.2 Participants may opt to participate in the Settlement services of any or all of the supported currencies stated in [Appendix XI](#).

4.3.3 The annual RENTAS membership fee is as stated in [Appendix II](#) and is applicable to all RENTAS Participants. Participants are required to pay only a single annual membership fee in MYR even if the Participant participates in the Settlement Services of more than one currency.

4.4 To participate in RENTAS Foreign Currency Settlement, new Participants must complete and submit the following forms:

- i. "Confirmation of Participation" form to BNM as per [Appendix VI](#) (Form A);
- ii. "Confirmation of Access Channel for Foreign Currency Settlement in RENTAS" form as per [Appendix VI](#) (Form C);
- iii. "Contact Person for the Daily Operations of RENTAS" form as per [Appendix VII](#);

- iv. “RENTAS – Authorised Signatories List” form as per [Appendix VIII](#);
and
- v. “External User Access Request Form” in [Appendix IX](#).

In addition, new Participants shall also undertake the following:

- 4.4.1 Open a foreign currency account with the OSI. The OSI will then open a corresponding Foreign Currency Settlement Account for the Participant in RENTAS;
- 4.4.2 Obtain a Bank Identification Code (BIC) by registering with The Society for Worldwide Inter-bank Financial Telecommunication (SWIFT). The BIC will be used as part of a unique identifier code (UIC) for the Participant;
- 4.4.3 Obtain a digit code from BNM. This code is to be used as the UIC for each Participant;
- 4.4.4 Acquire the RENTAS application software for the Participant Terminals (RBG and/or SAA) from authorised vendors. For SAA, the authorised vendor is SWIFT or, if applicable, a solution provider nominated and certified by SWIFT. For RBG, the authorised vendor would be designated by BNM;
- 4.4.5 Deploy the applicable communication network for RBG or SAA as stated in **Clause 3.3**;
- 4.4.6 Deploy the relevant security solutions depending on the type of access channel:
 - (i) For RBG and RENTAS iLINK, e-PKI security module (including HSMs, tokens and certificates) is used;
 - (ii) For SWIFT Access, the security module (including HSMs, tokens and certificates) specified by SWIFT is used.
- 4.4.7 Establish a Business Continuity Plan (BCP) in accordance with the *Guidelines on Business Continuity Management for Participants of RENTAS and FAST*;

- 4.4.8 Establish processes, internal controls and procedures to ensure that operations are carried out with minimal risk to the Participants, counterparties and BNM;
 - 4.4.9 Notify BNM for the activation of access to RENTAS iLINK;
 - 4.4.10 Notify BNM in writing two (2) weeks before the actual implementation date of operations.
 - 4.4.11 Submit the “External User Access Request Form” [Appendix IX](#) to request creation of RENTAS iLINK Administrator ID. This RENTAS iLINK Administrator ID will be able to create IDs and assign access rights for the new Participants’ officers; and
 - 4.4.12 BNM shall open a Securities Account for new Participants once they confirm their participation in Securities Services by submitting the duly-signed “Confirmation of Participation” form stated in **Clause 4.4**.
- 4.5 Existing RENTAS MYR Participants Subscribing to Foreign Currency Settlement Services
- 4.5.1 Existing RENTAS Participants in RENTAS’ MYR Settlement Services who have received approval from BNM to participate in Foreign Currency Settlement Services shall open a foreign currency account with the OSI. The OSI will then open a Foreign Currency Settlement Account for the Participant in RENTAS.
 - 4.5.2 The Participants shall complete and submit the “Confirmation of Participation in Additional Services” form to BNM as per [Appendix VI](#) (Form B), two (2) weeks before the actual implementation date of the Participants’ Foreign Currency Settlement operations.
 - 4.5.3 In addition, the Participants shall undertake the tasks mentioned in **Clauses 4.4 to 4.4.12**.

5 Participants Representation

5.1 RENTAS User Group Committee (RUGC)

5.1.1 To ensure that Participants are kept updated and consulted regarding amendments to the RENTAS system and Operational Procedures, BNM has established the RENTAS User Group Committee (RUGC) which comprise of all the Business units of RENTAS Participants.

5.1.2 The role of the RUGC is to:

- (i) Provide feedback and advice to BNM to guide the business, development, operation and governance of RENTAS.
- (ii) Co-ordinate and implement improvements and changes to RENTAS at their respective organisations.

6 Transaction Types and Message Formats

6.1 RENTAS supports the following transaction types which shall be initiated and transmitted using the corresponding SWIFT ISO 20022 message formats for payments messages and SWIFT ISO 150022 for securities messages:

Transaction Type	Message Format
Fund Transfer Services	
Single Credit Transfer	pacs.008.001.08 – Financial Institution to Financial Institution Credit Transfer pacs.009.001.08 – Financial Institution to Financial Institution Credit Transfer
Single Debit Transfer	pacs.010.001.03 – Financial Institution Direct Debit
Transaction Cancellation Request (send to RENTAS Host)	camt.056.001.08 – Financial Institution to Financial Institution Payment Cancellation Request camt.058.001.06 – Notification to Receive Cancellation Advice

Transaction Type	Message Format
Transaction Processing Status Update	camt.029.001.09 – Resolution of Investigation camt.059.001.06 – Notification to Receive Status Report pacs.002.001.10 – Financial Institution to Financial Institution Payment Status Update
Debit Notification	camt.998.001.03 – Cash Management Proprietary Message
Credit Notification (Advice for return/recover of fund)	camt.087.001.06 – Request to Modify Payment
Notice to Receive	camt.057.001.06 – Notification to Receive
Customer Transfer Tracking	pacs.002.001.10 – Financial Institution to Financial Institution Payment Status Update
Allegement Message	fxtr.008.001.06 – Foreign Exchange Trade Status Notification camt.059.001.06 – Notification to Receive Status Report for Pre-Advice of Fund Allegement
Confirmation of Debit	camt.054.001.08 – Bank to Customer Debit Notification
Confirmation of Credit	camt.054.001.08 – Bank to Customer Credit Notification
Securities Settlement Services	
Securities Transfer Message	MT 540 - Receive Free of Payment MT 541 - Receive Against Payment MT 542 - Deliver Free of Payment MT 543 - Deliver Against Payment
Settlement Allegement Message	MT 578 - Settlement Allegement
Settlement Status and Processing Advice Message	MT 548 - Settlement Status and Processing Advice
Securities Transfer Confirmation Message	MT 544 - Receive Free Confirmation MT 545 - Receive Against Payment Confirmation MT 546 - Deliver Free Confirmation MT 547 - Deliver Against Payment Confirmation

Transaction Type	Message Format
Settlement Reports	
Cash Settlement Reports	camt.052.001.08 – Bank to Customer Account Report camt.053.001.08 – Bank to Customer Account Report camt.060.001.05 – Account Reporting Request
Securities Settlement Reports	MT 549 - Request for Statement Advice MT 535 - Statement Holding MT 536 - Statement of Transactions
Corporate Action Settlement	
Corporate Action	MT 564 - Corporate Action Notification MT 566 - Corporate Action Confirmation MT 567 - Corporate Action Status and Processing Advice MT 568 - Corporate Action Narrative
Free Format Message	
Free Format Message	camt.998.001.03 – Cash Management Proprietary Message

7 Foreign Currency Settlement

i. Foreign Currency Settlement Business Hours

- 7.1 The Business hours for Foreign Currency Settlement in RENTAS is from 8.30 am to 6.00 pm on all Business days.
- 7.2 The detailed schedules for Foreign Currency Settlement activities in RENTAS are as provided in the table below:

Scheduled Hours	Actions
8.30am	Foreign Currency Settlement Service opening time PvP Settlement Start Time in RENTAS
By 11:00am	Cut-off time for all repayment maturities and forward-dated Foreign Currency transactions (including PvP and DvP Settlement)

Scheduled Hours	Actions
3:30pm	Cut-off warning message for transmitting offshore payment instructions to the OSI (only Renminbi)
4.00pm	Cut-off time for transmitting offshore payment instructions to the OSI ²
5:00pm	Foreign Currency Settlement Cut-off warning PvP Settlement Cut-off warning
5.30pm	Foreign Currency Settlement Cut-off time for RMB PvP Settlement Cut-off time for RMB
6.00pm	Foreign Currency Settlement Cut-off time for USD PvP Settlement Cut-off time for USD

7.3 BNM may amend the Foreign Currency Settlement Business hours in **Clause 7.2**, if circumstances warrant such a change, either temporarily or permanently.

7.4 Participants are strongly advised to observe the cut-off times for payments and settlements as delays may affect the liquidity of counterparties that are expecting these payments. In the event of unavoidable delays, the paying Participants shall communicate directly with the receiving Participants on the delay.

7.5 To avoid possible transaction congestion during peak hours and the risk of failed Settlement, Participants are encouraged to transmit their messages as early as possible.

7.6 Availability of Funds for Beneficiary

7.6.1 All paying Participants shall transmit payment instructions to RENTAS Host within 30 minutes of receiving an instruction from the paying customers except for transactions that fail regulatory, sanction or money laundering screening.

7.6.2 All receiving Participants shall make funds available to the beneficiary customers within 30 minutes upon completion of the final validation (by

² Offshore payment instructions refers to foreign currency payments by a Participant to counterparties outside Malaysia who are not RENTAS participants. Such transactions involve sweeping out funds from the OSI to an offshore correspondent bank. Currently the service is only available for RMB.

paying participants), except for transactions that fail regulatory, sanction or money laundering screening.

7.7 Forward Dated Transactions

7.7.1 Participants may key-in via their Participant Terminals same day value and forward-dated foreign currency transaction as follows:

- (i) IFTS: Forward-dated for up to one (1) calendar year; and
- (ii) SSDS: Forward-dated for up to one (1) calendar year.

7.8 If the value date of a transaction falls on an Unexpected Holiday, RENTAS Host shall process such transactions on next Business Day.

7.9 Although RENTAS Host automatically adjusts the value date of transactions to the next Business Day in the event of an Unexpected Holiday, the proceeds of the transactions remain unchanged. BNM will not perform any adjustments to the proceeds arising from the deferred Settlement due to Unexpected Holidays.

ii. Foreign Currency Settlement Accounts

7.10 All RENTAS Foreign Currency Settlement Accounts are maintained with designated OSIs. Hence, RENTAS transactions are settled across the books of the OSI. The settlement asset is a claim on the OSI. All Securities Accounts are maintained with BNM.

7.11 At the beginning of each Business day, the OSI will provide the opening balance in the Participants' Foreign Currency Settlement Accounts to BNM.

7.12 During RENTAS Business hours, Participants shall transmit all transactions for their Foreign Currency Settlement Accounts via RENTAS.

7.13 At RENTAS Foreign Currency Settlement Cut-off, RENTAS will transmit the closing balances of each Participant's Foreign Currency Settlement Account accompanied by a list of all transactions to the OSI to update the Participant's account at the OSI.

- 7.14 Throughout the RENTAS Business hours, Participants are able to view their Foreign Currency Settlement Account balances, transaction status and Securities Account balances in real-time via RENTAS iLINK.
- 7.15 After RENTAS Foreign Currency Settlement Cut-off, Participants are able to print their closing account balances, daily transaction activities and other end-of-day reports via RENTAS iLINK.
- 7.16 After RENTAS Foreign Currency Settlement Cut-off, RENTAS shall transmit closing balances to OSI.
- 7.17 The OSI will provide Participants with an end-of-day account statement directly via RBG or SWIFT in camt.053.001.08 message. The account statement is provided only on Business days when there are transaction activities.
- 7.18 Forward-dated transactions transmitted to RENTAS after the RENTAS Foreign Currency Settlement Cut-off will be stored for settlement until the value date of the transaction.

ii. **Settlement Finality**

- 7.19 All RENTAS payments are final and irrevocable after the paying Participant submits the payment to RENTAS Host, and the payment has met all conditions necessary to execute the final transfer of funds across the books of OSIs. The conditions for final settlement across the books of OSIs are as follows:
 - 7.19.1 Paying Participant has sufficient liquidity to cover the payment;
 - 7.19.2 Paying Participant is in good standing, whereby its membership status is not suspended or terminated;
 - 7.19.3 Value date of payment is a Business day;
 - 7.19.4 Receiving participant is in good standing, whereby its membership status is not terminated;
 - 7.19.5 Payment submission time is within the Foreign Currency Settlement Business Hours specified in **Clause 7.2**;

- 7.19.6 The Payment Message content and remittance information meets the requirements specified herein.
- 7.20 Once all the above conditions are met, the Paying Participant's account is debited, and receiving Participant's account is credited on a final and irrevocable basis.
- 7.21 All RENTAS SSDS sales and repos are final and irrevocable after:
- 7.21.1 the seller transmits a Deliver versus Payment message (MT543) and the buyer transmits a Receive versus Payment message (MT541) to RENTAS Host;
 - 7.21.2 the MT543 and MT541 messages are matched; and
 - 7.21.3 the transaction has met all conditions necessary to execute the final transfer of funds across the books of OSIs from the buyer to seller's Settlement Accounts, simultaneously against the transfer of securities from the seller to the buyer's Securities Accounts. The conditions for final settlement across the books of OSIs are as follows:
 - (i) Buyer has sufficient liquidity to cover the securities purchase;
 - (ii) Seller has sufficient securities to deliver;
 - (iii) Both buyer and seller are in good standing, whereby its membership status is not suspended or terminated; Value date of payment is a Business day;
 - (iv) Securities transacted is valid, transferable and has not matured;
 - (v) Transaction submission time is within the Foreign Currency Settlement Business Hours specified in **Clause 7.2**;
 - (vi) The transaction message content and remittance information meets the requirements specified herein.
- 7.22 Once all the above conditions are met, the buyer's Settlement Account is debited, seller's Settlement Account is credited, buyer's Securities Account is credited, and the seller's Securities Account is debited on a final and irrevocable basis simultaneously.
- 7.23 All RENTAS SSDS free of payment transfers are final and irrevocable after:

- 7.23.1 the transferee initiates a Receive Free of Payment message (MT540) and the transferor initiates a Deliver Free of Payment message (MT542) to RENTAS Host;
- 7.23.2 the MT540 and MT542 are matched; and
- 7.23.3 the transaction has met all conditions necessary to execute the final transfer of securities from the transferring Participant to the receiving Participant's Securities Account. The conditions for final settlement across the books of OSIs are as follows:
 - (i) Transferring Participant has sufficient securities to deliver;
 - (ii) Both transferring and receiving Participants are in good standing, whereby their membership status are not suspended or terminated;
 - (iii) Value date of payment is a Business day;
 - (iv) Securities transacted are valid, transferable and have not matured.
- 7.24 Once all the above conditions are met, the transferring Participant's Securities Account is debited and the receiving Participant's Securities Account is credited on a final and irrevocable basis. Participants will receive a confirmation message from RENTAS Host for each transaction that is successfully settled. MT544 for MT540, MT545 for MT541, MT546 for MT542 and MT547 for MT543 (Refer to table in **Clause 6.0**).
- 7.25 For USD securities settled on DvP via USD CHATS, the transactions are considered final when:
 - 7.25.1 the US dollar securities is credited into the purchaser's account in RENTAS; and
 - 7.25.2 cash is transferred to the seller via Participants' correspondent bank's account with the USD CHATS settlement bank in Hong Kong.

8 Queue Management

8.1 If Participants do not have sufficient funds or sufficient securities, their transactions will be queued centrally at RENTAS Host on a First-in, First-out (FIFO) basis. There are two (2) types of payment queues, namely the normal queue and priority queue.

8.2 During the Foreign Currency Settlement Cut-off, all unsettled instructions in both the normal and priority queues will be cancelled by RENTAS Host. Participants will be notified accordingly via online reports.

8.3 Normal Queue Management

8.3.1 Through RENTAS iLINK, Participants may manage their Foreign Currency IFTS payment normal queue by:

- (i) Re-ordering their queued transactions; or
- (ii) Cancelling the queued transactions.

8.3.2 Participants may also make online real-time queries on their outgoing and incoming normal payment queues via RENTAS iLINK.

8.4 Priority Queue Management

8.4.1 Only BNM is allowed to re-order or cancel transactions in the priority queue.

8.4.2 Participants shall submit a form (as per [Appendix V](#)) to BNM in order to re-sequence or cancel transactions in the priority queue should the need arise.

8.4.3 Although Participants are not allowed to manage transactions in the priority queue, Participants may make online real-time queries on their outgoing and incoming MYR priority payment queues via RENTAS iLINK.

- 8.5 Participants send cancellation of queued transaction via their Participant Terminals by sending to RENTAS Host the camt.056.001.08 for payment instruction and as specified in **Clause 9.6** for SSDS instruction.

9 Foreign Currency SSDS Processing

9.1 SSDS Initiation and Settlement Deadlines

- 9.1.1 Participants are required to observe the following deadlines to ensure timely and orderly settlement of SSDS transactions:

Value Date	Transaction Initiation Deadlines	Settlement Deadlines
Same Day Value ³	By 4 pm on Transaction Day (T)	By 5 pm on T
Value Tomorrow	By 11 am on T+1	By 3 pm on T+1
Value Spot	By 11 am on T+1	By 3 pm on T+2
Forward Value	By 11 am on T+1	By 3 pm on T+N

- 9.2 Both buyer and seller shall initiate SSDS transactions through either RBG or SWIFT Access using the message formats specified in **Clause 6.0**.
- 9.3 In an SSDS transaction, the buyer shall initiate a Receive versus Payment message (MT541) while the seller initiates a Deliver versus Payment message (MT543). DVP Settlement will take place when these two messages are matched, the buyer has sufficient cash balances to pay the seller, and the seller has sufficient securities to deliver to the buyer.
- 9.4 To reduce Settlement failures arising from minor discrepancies between the purchase proceeds entered by the buyer in the MT541 message and the sale proceeds entered by the seller in the MT543 message, RENTAS Host will accept a tolerance limit of 5 currency units⁴. The tolerance range will be calculated based on seller's proceeds (+/- 5 currency units from the proceeds entered by the seller). If the proceeds entered by the buyer are within the tolerance limit, RENTAS Host will deem the buyer's MT541 and seller's MT543

³ Exemption on instruction deadline for Participants whose clients are Non-resident as they are subject to FEA and AMLA

⁴ e.g. MYR 5 or CNY 5 or USD 5

messages as matched and will settle the SSDS transactions based on the proceeds entered by the seller.

- 9.5 In an SSDS transfer transaction, the transferee initiates a Receive Free of Payment message (MT540) while the transferor initiates a Deliver Free of Payment message (MT542). Settlement will take place when these two messages are matched and the transferor has sufficient securities to deliver.
- 9.6 Participants may cancel SSDS transactions that are still pending Settlement as follows:
- 9.6.1 Matched transactions that are pending Settlement due to insufficient cash or securities;
 - 9.6.2 Unmatched transactions; and
 - 9.6.3 Forward-dated transactions with the mutual agreement of both Participants and their counterparties.
- 9.7 Participants may initiate new MT 541 or MT543 and indicate 'CANC' in field 23 and state the previous' original MT541/543 Ref Number of field 20 in field 21 (Related Ref) of the cancellation message.
- 9.8 Participants may cancel Repo transactions only when the first leg has yet to settle due to insufficient repo collateral and/or cash. No cancellation can be initiated after the first leg is settled. SSDS and Repo transactions that are still pending Settlement will be automatically cancelled at Foreign Currency Settlement Cut-off time.
- 9.9 **Processing of Specified and Non-Specified RENTAS Securities**
- 9.9.1 RENTAS Host processes all securities transactions on a real-time basis during Foreign Currency Settlement Business hours. Forward-dated transactions received will be stored in RENTAS Host database and only will be processed on the value date.
 - 9.9.2 If the value date of a payment falls on a Business day that is subsequently declared a Holiday, RENTAS Host shall process such transactions on next Business day.

9.9.3 Although RENTAS Host automatically adjusts the value date of transactions to the next Business Day in the event of a Holiday, the proceeds of the transactions remain unchanged. BNM will not input additional days of accrued interest or other adjustments arising from the deferred Settlement due to a Holiday.

9.9.4 All interest, coupon, dividend and redemption payments will be paid on a Business day. In the event that the interest, coupon, dividend or redemption date falls on a Holiday, the payment of interest, coupon, dividend and redemption proceeds shall follow procedures as stated in **Part IX** (Holiday Convention) of the Operational Procedures for Securities Services.

10 Foreign Currency Corporate Bonds and Sukuk (Non-Specified RENTAS Securities)

10.1 Subject to funds availability, all same-day-value and forward-dated transactions shall be credited to or debited from (if there are sufficient funds) the Foreign Currency Settlement Account of the Participants on the same day or on value date, as the case may be.

10.2 All interest, coupon, dividend and redemption payments will be paid on a Business day. In the event that the interest, coupon, dividend or redemption date falls on a Holiday, the payment of interest, coupon, dividend and redemption proceeds shall follow procedures as stated in **Part IX** (Holiday Convention) of the Operational Procedures for Securities Services.

11 Request for Extension of RENTAS Foreign Currency Settlement Cut-off Time

11.1 Participants are required to observe the RENTAS Foreign Currency Settlement Cut-off schedule at all times to ensure industry-wide operational efficiency.

11.2 However, BNM may consider extending the Foreign Currency Settlement Cut-off time when:

11.2.1 The extension of time is requested by BNM or the OSIs under abnormal circumstances; and

- 11.2.2 The extension of time is necessary to avoid Settlement failures that pose a systemic risk to the system.
- 11.3 Any requests for extension shall be made to BNM via telephone listed in [Appendix I](#) at least fifteen (15) minutes before the scheduled Foreign Currency Settlement Cut-off time followed by:
- 11.3.1 An email confirming the extension request via telephone from the requester to the relevant BNM officer before the extension time; and
- 11.3.2 Key in the request for extension via RENTAS Portal by following and within the time period stated in **Clause 11.4**.
- In making such request, the requesting participant acknowledges and agrees that:
- (a) BNM reserves the right to reject any request not made in accordance with this clause;
- (b) BNM shall not be held liable or responsible for any losses incurred by the requesting Participants arising from any request accepted by BNM under this clause; and
- (c) BNM has the right to publicly disclose all information pertaining to the requesting Participants' cut-off extension request.
- 11.4 For the purpose of **Clause 11.3.2**, requesting Participants shall:
- 11.4.1 Attach the duly completed form (as specified in [Appendix III](#)); and
- 11.4.2 Submit in the RENTAS Portal for the request of extension of Foreign Currency Settlement Cut-off time, within 30 minutes of the verbal request for extension made via telephone in accordance with **Clause 11.3**.
- 11.5 Notwithstanding **Clauses 11.3 and 11.4**, in the interest of operational efficiency, BNM may, at its discretion, act upon verbal requests for extension of Foreign Currency Settlement Cut-off time by the Participants.
- 11.6 Any extension of Foreign Currency Settlement Cut-off time will be notified via RENTAS broadcast messages.
- 11.7 BNM will not grant an extension exceeding two (2) hours except in circumstances where BNM deems the extension necessary to avoid systemic risks to RENTAS.

- 11.8 Participants who have completed all transactions, repaid all outstanding intraday credit and settled all obligations to BNM may close their operations at the scheduled cut-off time even if there is a cut-off extension.
- 11.9 All Participants whose cut-off extension request is granted, will be subjected to a penalty as specified in [Appendix II](#) – Fees and Charges.
- 11.10 Participants may not “free-ride” on another Participant’s cut-off extension request.
- 11.11 In the event of multiple requests of Foreign Currency Settlement Cut-off extension from more than one participant:
- 11.11.1 The first Participant’s penalty is calculated based on the duration from the scheduled Foreign Currency Settlement Cut-off time to the extended cut-off time requested by the first Participant; and
 - 11.11.2 The second Participant’s penalty is calculated based on the duration from the scheduled Foreign Currency Settlement Cut-off time to the extended cut-off time requested by the second Participant.

12 Incident Report (IR)

- 12.1 Once BNM has granted the Participants’ request to extend the Foreign Currency Settlement Cut-off time, Participants are required to submit a complete Incident Report (IR) to BNM via facsimile or email within 24 hours of the initial cut-off extension request. (Please refer to [Appendix IV](#) for the IR template).
- 12.2 Apart from IRs for Foreign Currency Settlement Cut-off extensions, Participants are also required to submit an IR to BNM should there be any incident that materially impacts their RENTAS operations, including major system failures or downtime for more than fifteen (15) minutes, degradation in system performance, security breaches and fraud, delays or disruptions affecting customers, as well as failures to settle obligations.

13 Compensation on Inter-Bank Failed Settlements

- 13.1 Participants are encouraged to resolve any claims for compensation arising from failed Settlements amicably.

- 13.2 Liabilities for failure to make payments may extend beyond the normal loss of interest of profit and may include direct, indirect and consequential losses.
- 13.3 These Operational Procedures do not absolve the paying Participants of any potential claims that may arise from payment errors or failure to make payments.
- 13.4 The Guidelines for Compensation on Inter-bank Failed Settlements (as specified in **Guideline I**) provide a mechanism to compute compensation in situations of Settlement failure or delayed Settlement. The mechanism works on a compensation basis to cover losses. The mechanism is not intended to be punitive as no Participant shall benefit from errors or settlement failure of other Participants.

14 Public Key Infrastructure Security

e-PKI

- 14.1 Participants accessing RENTAS via RBG or RENTAS iLINK shall deploy digital certificates issued by Licensed Certification Authority (CA) to perform the necessary e-PKI functions in RENTAS. Currently, there are two (2) CAs namely Digicert Sdn. Bhd and MSC Trustgate Sdn. Bhd.
- 14.2 These digital certificates can be purchased and registered for individuals or organisations based on the Participants' internal controls and internal procedures.
- 14.3 Participants are encouraged to have certificates from both CAs to avoid reliance on a single CA.
- 14.4 Participants are also required to have a token-based digital certificates for its e-PKI functions to activate the iLINK facility at BNM's premises.
- 14.5 Participants are responsible for monitoring the expiry dates of their respective digital certificates. Participants shall renew the certificates at least 14 calendar days prior to the expiry date of the certificates.

SWIFT Security

- 14.6 Participants accessing RENTAS via SWIFT Access shall adhere to SWIFT's security requirements and specifications issued by SWIFT.

15 RENTAS iLINK Certificate (ID) Registration

- 15.1 iLINK is the backup terminal in the event the main channel is unavailable and hence, it is important that all digital certificates of authorised officers who have access to RENTAS must be registered in RENTAS iLINK. This registration must also be performed upon certificate renewal at the end of the certificate validity period. Procedures on the digital certificates registration in RENTAS iLINK are provided in the iLINK User Guide ([Appendix XIII](#)).
- 15.2 Each Participant's RENTAS iLINK Administrators shall manage all user IDs within their organisation in accordance with the respective Participant's internal IT security policies as well as BNM's guidelines and policies.
- 15.3 Participant's RENTAS iLINK Administrators shall ensure that access is granted on a need basis and access should be reviewed periodically to determine if currently assigned access privileges are appropriate. Participant's RENTAS iLINK Administrators shall promptly revoke User IDs for officers who have resigned, transferred, or whose job functions no longer require access to RENTAS iLINK.
- 15.4 If a Participant's RENTAS iLINK Administrator ID must be removed, the Participant shall promptly make a request to BNM by completing the "External User Access Request Form" in [Appendix IX](#).

16 Digital Certificates

- 16.1 Participants shall liaise directly with the CAs to purchase, renew, suspend or revoke their digital certificates.

17 Authenticity, Confidentiality and Irrevocability of the RENTAS Foreign Currency Settlement Messages

- 17.1 Participants cannot repudiate any transmitted messages or payments that they have digitally signed.
- 17.2 For forward-dated transactions, a digital signature is verified based on the validity of the corresponding digital certificate on the date the transaction is initiated.
- 17.3 If a Participant has revoked a digital certificate, all messages or instructions transmitted by and signed using the digital certificate prior to the revocation shall be deemed valid.
- 17.4 Receiving Participants will receive a cryptographic error notification at their Participant Terminal system when a transaction fails the digital signature verification. The receiving Participant must then investigate the cause of the digital signature verification failure and validate the integrity and authenticity of the affected transaction manually to independently ascertain the legitimacy of the transaction.

18 Billing

- 18.1 This **Clause 18.0** shall be read in accordance with the ***Fees and Charges*** section in the Participation Rules for Payments and Securities Services.
- 18.2 BNM will automatically debit the Participants' Foreign Currency Settlement Accounts for the billed amount on the first Business day of the following month or any time as determined by BNM.
- 18.3 Participants shall check their billing advices and inform BNM of any discrepancies, including erroneous billing within fourteen (14) calendar days of receipt of the billing statements.
- 18.4 Participants may refer to [Appendix II](#) in this Operational Procedures for detailed fees and charges for Foreign Currency Settlement services in RENTAS.

19 Retention

- 19.1 Participants shall retain all Messages, transaction advices, audit trail reports for a period of seven (7) years.

20 Business Continuity Management (BCM)

- 20.1 Participants are required to conduct BCP and DRP exercises by operating using their Participant Terminals at their respective recovery / DR in accordance with the *Guidelines on Business Continuity Management for Participants of RENTAS and FAST*.
- 20.2 Participants that fail to comply with **Clause 21.1** shall be subjected to penalties stipulated in **Appendix I** of the *Guidelines on Business Continuity Management for Participants of RENTAS and FAST*.

21 BCM Arrangements in Relation to RENTAS Failure

21.1 Participant Terminal Failure

- 21.1.1 Participant Terminal failure may happen due to system, software, hardware or communication line failure, inadequate or failed internal processes, human errors, power outage or other unanticipated events.
- 21.1.2 In the event of Participant Terminal disruption, Participants are required to assess immediately the severity of the failure. Where appropriate, Participants shall invoke the necessary recovery measures to resume normal operations. Participants are reminded that recovery efforts undertaken to resume normal operations shall be within the system recovery and recovery time objectives (RTO) specified in *Guidelines on Business Continuity Management for Participants of RENTAS and FAST*.
- 21.1.3 Participants are required to inform BNM immediately of any Participant Terminal failure and other disruptions that are affecting their RENTAS system. After the initial notification, Participants are required to update BNM every thirty (30) minutes on their recovery

status and next-action-plan until the Participant Terminal resumes normal operation.

- 21.1.4 Participants shall decide whether to move to its recovering / DR site within sixty (60) minutes of Participant Terminal failure.
- 21.1.5 Should a Participant's primary access channel via RBG or SWIFT Access fail at both its Live Site and DR Site, Participants may use RENTAS iLINK to access RENTAS.
- 21.1.6 Participants that fail to comply with the requirements in **Clause 22.1.2** shall be subjected to penalties stipulated in **Appendix I** of the *Guidelines on Business Continuity Management for Participants of RENTAS and FAST*.

21.2 OSI Unable to Transmit Opening Balances to BNM

- 21.2.1 If an OSI is unable to transmit opening balances for the Participants' Foreign Currency Settlement Account to BNM (via SWIFT camt.053.001.08), the affected OSI shall immediately key in the opening balances via RENTAS iLINK to update the Participants' opening balances.
- 21.2.2 However, if OSI is not able to access iLINK and is not able to transmit camt.053.001.08 to provide opening balances for the Foreign Currency Settlement Account, the OSI shall inform BNM of the failure before 11:00 pm on the night preceding the new Business day.
- 21.2.3 OSI will then be required to perform the following contingency measures via RENTAS iLINK at BNM's premises:
 - (i) OSI is required to mobilize sufficient staff to undertake the contingency operations at BNM's premises.
 - (ii) OSI must seek BNM's approval prior the activation of contingency measures and must arrive at BNM's premises within one (1) hour from the approval time.
 - (iii) OSI to use the file upload function in iLINK to upload the Opening Balance file.

- (iv) OSI is required to bring all relevant documents as stated in [Appendix XII](#), Activation of RENTAS iLINK workstation facility at Bank Negara Malaysia Checklist.

21.3 OSI is Unable to Provide Opening Balances to BNM

- 21.3.1 If an OSI is not able to provide the opening balances for the Foreign Currency Settlement Account, BNM will use the closing balance of the Foreign Currency Settlement Account on the previous Business day as the opening balance for the new Business day.

21.4 BNM is Unable to Provide Closing Balances to OSI

- 21.4.1 BNM will provide the closing balances by fax or e-mail in the event that the system is unable to transmit the closing balances.

22 RENTAS Host Failure at Production Site

- 22.1 To minimise the risk of disruption to the settlement operations of Participants, RENTAS Host runs on fault tolerant technology, which allows the system to continue functioning uninterrupted when individual system components fail. In addition, BNM maintains a RENTAS Host at Recovery Centre that is updated in real-time so that all data and transactions are identical to the RENTAS Live system.
- 22.2 In the unlikely event of RENTAS Host failure at Production Site, BNM shall make use of e-mail, or SMS or BCP call tree to keep Participants updated on the recovery status and action plan every thirty (30) minutes until the RENTAS Host resumes normal operation.
- 22.3 If BNM decides to move its RENTAS Host operations to its Recovery Centre, the activation of the RENTAS Host at the Recovery Centre can be completed within two (2) hours.

23 e-PKI Failure

- 23.1 RENTAS Host is designed to withstand the complete failure of e-PKI. As such, the failure of e-PKI would largely be transparent to Participants. All transactions would remain protected using a backup security solution which provides data authenticity, integrity and non-repudiation features, thus ensuring the security of RENTAS at all times.
- 23.2 To ensure seamless and automatic activation of the backup security solution, Participants shall ensure that the e-PKI configuration at their Participant Terminals is in accordance with BNM's specifications.

24 RENTAS iLINK Activation – Contingency Access Channel

- 24.1 In the event any RENTAS Participant encountered system failure affecting the Participant's RENTAS access channels at Production Site and/or Recovery Centre, RENTAS Participant may request to activate RENTAS iLINK as the contingency access channel.
- 24.2 RENTAS Participants must ensure all applicable settings in RENTAS iLINK such as user's access matrix, user's transaction approval limit, global approval limit and TRN maintenance screens are configured accordingly.
- 24.3 RENTAS Participants are advised to review the settings in RENTAS iLINK periodically to ensure the settings are up-to-date and able to support their latest transactional and operational needs in RENTAS.
- 24.4 RENTAS Participants must send a request to activate RENTAS iLINK to BNM via email at rentas@bnm.gov.my. RENTAS Participants must also update BNM via email to deactivate RENTAS iLINK as soon as RENTAS Participants reverts to normalcy.
- 24.5 If activating RENTAS iLINK from Participant's site is not feasible, Participants may activate RENTAS iLINK at BNM's premises as a last resort. Participants may refer to **Guideline III - Procedures for Activation of RENTAS iLINK** at Bank Negara Malaysia.

25 Testing Procedure

- 25.1 Participants are allowed to use BNM's RENTAS Host test environment, if the need arises.
- 25.2 Any request to use the test environment shall be made by Participants via RENTAS Portal by attaching the form provided in [Appendix X](#) duly signed (by authorised signatories) at least three (3) Business days prior to the scheduled testing.
- 25.3 The value date of the exercise shall default to the current value date, unless the Participant requests a different value date. Requests for a value date other than the current date will only be entertained on a case-by-case basis.
- 25.4 Fees imposed on Participants for use of the test environment is as stated in [Appendix II](#). The fees will be levied based on the number of days of the planned exercise. Participants will not be reimbursed if the planned exercise is not conducted. If a request is made less than three (3) Business days prior to the test, the request will be deemed as an unplanned testing exercise for billing purposes.
- 25.5 Participants are not allowed to use the RENTAS testing environment during weekends, Holidays and after office hours.
- 25.6 BNM may also conduct RENTAS test exercises and reserves the rights to make the testing mandatory for some or all Participants based on the objectives of the test exercise.
- 25.7 In the testing where the test scripts are to be provided by BNM, the test scripts will be made available at least one (1) week before the actual exercise date.

26 RENTAS Portal

- 26.1 RENTAS Portal serves as the main information repository and communication channel between BNM and RENTAS Participants.
- 26.2 The URL for RENTAS Portal is <https://rentasportal.bnm.gov.my>.

26.3 Each Participant is required to register at least two administrators in RENTAS Portal and the administrators are responsible for approving the creation of other users within the relevant Participant's own entity.

26.4 RENTAS Portal provides the following services to Participants:

26.4.1 News - For BNM to broadcast latest updates or developments related to RENTAS operations and testing. For Participants to broadcast on their operational matters to other Participants.

26.4.2 Alerts - To broadcast the three types of alerts; General, Delay of Settlement and Business Contingency Plan. BNM and Participants may use any of the alerts above to notify other Participants.

26.4.3 References – For BNM to post any documents related to RENTAS operations for Participants' reference.

26.4.4 Extension Requests – For Participants to request for extension of MYR or Foreign Currency Settlement Cut-off time.

26.4.5 Test Environment – For Participants to request the use of RENTAS test environment.

26.4.6 RENTAS iLINK - Provides real-time information such as cash positions, securities holdings and Settlement status of transactions. RENTAS iLINK also acts as a Participant Terminal.

27 User Manuals

27.1 User manuals for RENTAS Portal shall be provided by BNM.

28 RENTAS Participants Directory

28.1 Participants shall furnish their latest contact information for business continuity purposes by updating the Member Directory in RENTAS iLINK. An up-to-date contact list is an essential component of BCP.

28.2 Participants shall maintain an updated list of RENTAS Authorised Signatories using the form in [Appendix VIII](#) and submit to BNM immediately upon changes.

29 Customer Service

- 29.1 Participants may contact BNM with regards to any RENTAS issue. The contact details for BNM are available as per [Appendix I](#). The contact information is also available in the Member Directory in RENTAS iLINK.

Guideline I - Compensation on Inter-bank Failed Settlements

1.0 Principle and Scope

- 1.1 In the event of delayed payment or Settlement failures for foreign currency transactions, a mechanism for computing compensation is provided in this Guideline. The mechanism works on a compensation basis to cover losses. The mechanism is not intended to be punitive, as no Participant shall benefit from the errors or Settlement failures of other Participants.
- 1.2 The paying Participant shall compensate the receiving Participants for loss of interest income arising from the errors made by the paying Participant. While it is the responsibility of the paying Participant to make payments, the receiving Participant may also advise the paying Participant if any payments expected are not paid in due time.
- 1.3 Payments are normally made for the following reasons:
 - 1.3.1 From the paying Participant's own account and such payments are made for the credit of the receiving Participant as beneficiary (e.g. Settlement of Foreign Exchange or Money Market transactions);
 - 1.3.2 On behalf of the paying Participant's customer and such payments are made for the credit of the receiving Participant as beneficiary (e.g. overdraft or loan repayment);
 - 1.3.3 From the paying Participant's own account and such payments are made for the credit of the receiving Participant's customer; and
 - 1.3.4 On behalf of the paying Participant's customer and such payments are made for the credit of the receiving Participant's customer.
- 1.4 Foreign Currency Inter-bank failed payments are defined as:
 - 1.4.1 Payments that do not meet the Foreign Currency Settlement Cut-off time for payments and settlements set out in the Foreign Currency Settlement Business hours stated in **Clause 7.2** of this Operational Procedure;
 - 1.4.2 Mis-sent payments; and
 - 1.4.3 Non-payment.

2.0 Compensation on Foreign Currency Inter-bank Failed Payments

Participants shall be guided by the following procedures in regard to the compensation on failed Foreign Currency inter-bank payments:

2.1 Compensation Coverage

2.1.1 If, for any reason, a payment error causes the receiving Participant to breach any of BNM's regulatory requirements, Rules and Operational Procedures, and the receiving Participant is able to show proof that such non-compliance was a direct result of the error from the paying Participant, the compensation shall include the payment of any penalty imposed by BNM over and above the compensation computed based on the prescribed formula under **Clause 2.2** of this Guideline.

2.1.2 Other costs and charges, such as forex cover, cable charges etc. shall be excluded when computing compensation for inter-bank payment errors.

2.2 Compensation Computation Formula

2.2.1 The paying Participant making any request should inform the receiving Participant of the details of the payment to which such request relates and the particulars of the account to which it should be credited.

2.2.2 Late Intra-day Money Market Transaction

2.2.2.1 When payment is not effected within thirty (30) minutes of the transaction, the borrowing Participant / Investee will be entitled to compensation according to the compensation formula below:

$$\frac{\text{Amount of Payment} \times \text{Compensation Rate} \times \text{Day}}{360}$$

where,

Amount of Payment = Amount due for the Settlement
of the foreign currency
transaction

Compensation Rate:

- i. For RMB payment, the compensation rate is the average of each day's overnight rate of the Shanghai Interbank Offered Rate (SHIBOR) published by the National Interbank Funding Center in Shanghai.
- ii. For USD payment, the compensation rate is the average of each day's Federal Funds rate as published by the Federal Reserve Bank of New York. The daily Federal Funds rate for any day on which a published rate is not available shall be deemed to be the same as the immediately preceding published rate.
- iii. For other currencies, the compensation rate will be determined as and when new currencies are added in RENTAS.

Day = Delay will be deemed as one (1) day for
compensation calculation

2.2.2.2 When payment for an Intraday money market transaction has not been effected on value date by the Lending Bank / Investor, the Intraday money market transaction would be deemed as a failed trade and no Settlement will take place. Under such circumstances, the Borrowing Participant / Investee will be entitled to claim compensation according to the following compensation formula:

$$\frac{\text{Amount of Payment} \times \text{Compensation Rate} \times \text{Day}}{360}$$

where,

Amount of payment and compensation rate are as defined in **Clause 2.2.2.1**

Day = Delay will be deemed as one (1) day for compensation calculation

2.2.3 Value Date Adjustment / Use of Funds Compensation Claim Formula

2.2.3.1 For value date adjustment of the payment and the use of funds, the compensation claim will be paid according to the formula in **Clause 2.2.2.2**

- i. For back valuation of a USD payment, if the receiving Participant back values the payment pursuant to the request of the sending Participant, the receiving Participant's claim for compensation will be according to the following formula:

$$\frac{\text{Amount of Payment} \times \text{Compensation Rate} \times \text{No. of Days}}{360} + \text{USD300}$$

- ii. For forward valuation of a USD payment, if the receiving Participant adjusts the payment to a future value date pursuant to the request of the sending Participant, the receiving Participant must, upon receiving a claim for compensation, pay the sending Participant compensation according to the following formula:

$$\frac{\text{Amount of Payment} \times \text{Compensation Rate} \times \text{No. of Days}}{360} - \text{USD300}$$

Day = Number of days Back or Forward Valued

2.2.4 Mis-sent Payment

2.2.4.1 A paying Participant may request the receiving Participant to return funds under the following circumstances:

- i. If the payment has not been sent;
- ii. The payment was directed to a wrong Participant; and

- iii. A duplicate payment / overpayment have been effected.

2.2.4.2 If the paying Participant notifies the receiving Participant of a mis-sent payment, the principal sum shall be returned by the receiving Participant under the following conditions:

- i. The paying Participant shall confirm details of the mis-sent payment by transmitting a SWIFT message, email or any other means of notification to the receiving Participant;
- ii. The paying Participant shall include date and details of the mis-sent payment in the notification;
- iii. The paying Participant shall forward to the receiving Participant copies of the advices or its equivalent, for the mis-sent payment via facsimile, e-mail or any other means;
- iv. The paying Participant shall provide an indemnity to the receiving Participant;
- v. The receiving Participant may return the funds without beneficiary's consent if the sum has not been credited to the beneficiary's account;
- vi. If the sum has been credited, the receiving Participant shall only return if:
 - Both the receiving Participant and the paying Participant are fully satisfied that the beneficiary's account had been credited erroneously; and
 - The funds are still in the beneficiary's account;
- vii. The receiving Participant shall notify the beneficiary on the erroneous credit prior to debiting the account; and
- viii. The refund is executed by initiating a new transaction since the mis-sent transaction settlement is already final and irrevocable.

The receiving Participant making the refund to the paying Participant shall be entitled to an indemnity from the paying Participant. The nature of indemnity is intended to protect

the receiving Participant from any risk, loss or cost as a result of the paying Participant having entertained a request by its customers to “cancel” a prior payment to the account of the receiving Participant’s customers. As such, paying Participant is advised to execute the indemnity only for its own payment errors and to be cautious in executing its customers’ request to recall payments which may be under the guise of mis-sent payments.

2.2.4.3 For wrong payment made, if the Credit Notification (CRN) to recall the fund is received before or at 4:00 pm, the receiving Participants will, on a best effort basis, return the funds by 4.30pm on the same day at no cost to either party. However, if the funds are returned before 4.30pm on the next Business day, the paying Participant is entitled to the use of funds from Day 1 onwards, i.e. the day the CRN was made.

2.2.4.4 If the CRN is received after 4.00pm, the receiving Participant has up to 4.30pm on the next Business day to return the payment at no cost to either party. However, if the funds are not returned by 4.30pm the next Business day, the paying Participant will be entitled to use of funds from Day 2 onwards, i.e. the day following Day 1 (please refer to **Clause 2.2** of this Guideline for the “use of funds” compensation claim formula).

2.2.5 Late Payments / Repayments

2.2.5.1 Funds received after the scheduled Settlement Cut-off time will be considered as next day value. Therefore, the receiving Participant shall be entitled to compensation based on the “Value Date Adjustment” formula as per **Clause 2.2.3** of this Guideline.

2.2.5.2 The receiving Participant need not return the funds in order to claim the compensation.

2.2.6 Unable to Apply Funds Received

- 2.2.6.1 When the receiving Participant receives a payment and is unable to apply the funds due to discrepancies or insufficient details in the payment instruction, the procedure would be as follows:
- i. The receiving Participant shall return the funds to the paying Participant immediately;
 - ii. The paying Participant may, however, request the receiving Participant to hold back the funds pending rectification;
 - iii. The receiving Participant may entertain this request at its discretion and retain the funds provided the paying Participant sends a notification immediately to the receiving Participant with the notation as stated in **Clause 3.0** of this Guideline; and
 - iv. To rectify the payment instructions, the paying Participant must send another notification to the receiving Participant with the notation as stated in **Clause 3.0** of this Guideline.

3.0 Indemnity

- 3.1 In all cases where the receiving Participant returns, rectifies or withholds payments to or to the order of the paying Participant pursuant to the request of the paying Participant under **Clauses 2.2.4.2 and 2.2.6** of this Guideline, the paying Participant shall indemnify the receiving Participant according to the terms set forth in this section.
- 3.2 The indemnity Clause below is automatically binding on the paying Participants regardless whether it is stated or not in the camt.087.001.06 CRN messages.

"We indemnify you pursuant to paragraph 3 of the Guidelines on Compensation on Inter-bank Failed Settlements for returning payment / rectifying payment / withholding payment instructions."

- 3.3 The paying Participant shall return on demand by the receiving Participant, all payment amounts returned or refunded by the receiving Participant pursuant to the request of the paying Participant. The paying Participant shall further indemnify the receiving Participant, its employees and agents against and all claims, liabilities, losses, expenses (including all legal fees and disbursements), suits or damages arising from the breach of this undertaking.
- 3.4 This Indemnity shall apply and be enforceable even if the receiving Participant effects a Settlement or compromise with regard to any claim for losses, damages and expenses without recourse to litigation if the receiving Participant deems fit. The paying Participant shall also pay to the receiving Participant all costs and expenses incurred in enforcing this Indemnity obligation and in taking legal advice in connection with this indemnity (including all legal fees and disbursements).

4.0 Validity of Compensation Claims

- 4.1 A compensation claim is deemed valid only if it is initiated within sixty (60) calendar days from the value date of the transaction.

Guideline II - Guidelines on Handling Invalid Characters in RENTAS

1.0 Introduction

- 1.1 These guidelines are intended to standardise the replacement of invalid special characters in RENTAS.

2.0 Valid Special Characters in RENTAS

- 2.1 The following special characters are the only valid characters to be used in RENTAS

SWIFT Character Set
<i>Alphabetical Characters</i> • A to Z (upper case) • a to z (lower case)
<i>Numeric Characters</i> • 0 to 9
<i>Special Characters</i> • / - ? : () . , ' + SPACE CrLf
<i>Extended Special Characters</i> • !#\$%&*='^`{ } ~ " ; < > @ [\]

- 2.2 Participants shall map and replace other characters that are not valid in RENTAS to question mark symbol "?".

Guideline III - Procedures for Activation of RENTAS iLINK at Bank Negara Malaysia's Premises

1.0 Introduction

- 1.1 BNM offers RENTAS iLINK facility at its premises to ensure that risk arising from the failure Participant's terminal is adequately addressed. This facility is intended as a last resort of a back-up system for affected Participants.

2.0 Location

- 2.1 The location of the RENTAS iLINK facility is as follows:

Bank Negara Malaysia
Financial Market Infrastructure Department
Level 14, Block C
Jalan Dato Onn
50480 Kuala Lumpur

3.0 Activation Procedure

- 3.1 Procedure by Participants

- 3.1.1 Participants shall submit an official request (form as per [Appendix XIV](#)) for the activation of RENTAS iLINK workstation facility signed by the authorised signatories.
- 3.1.2 Participants have two (2) options to input a transaction, either by using the file upload or manual data entry.
- 3.1.3 Participants should reach BNM's premises within one (1) hour from the approval time to activate the RENTAS iLINK workstation facility at BNM's premises.
- 3.1.4 Participants are required to bring all relevant documents as stated in [Appendix XII](#) – Activation of RENTAS iLINK workstation facility at BNM Premises Checklist.

Appendix I RENTAS – Contact Details

BNM's Financial Market Infrastructure Department

(Application of Membership, Opening of Securities Account and Customer Services):

Office Addresses and Contact Details:

	Live	Back-up / Recovery Centre
Address	Bank Negara Malaysia Financial Market Infrastructure Department Level 14, Block C Jalan Dato Onn 50480 Kuala Lumpur	BNM Recovery Centre Lot 1064, Subang Hi-Tech Industrial Park Off Jalan Delima 1/1 40150 Batu Tiga Selangor
Telephone Number	03-2784 9922	03-2784 9922 03-5637 8575 03-5637 8446 03-5637 8227
Fax Number	03-2604 0239	03-5635 7944
E-mail address	rentas@bnm.gov.my	

OSI Contact Details at Bank of China (M)

(Opening of Foreign Settlement Account and Customer Services):

OSI	Name	Phone Number	Email Address
RMB	Yeong Hong Ping	03-2387 8121	Yeong_Hongping@mail.notes.bank-of-china.com
	Yong Fee Yen	03-2387 8139	Yong_Feeyen@mail.notes.bank-of-china.com
	Chang Tuck Choon	03-2387 8154	Chang_Tuckchoon@mail.notes.bank-of-china.com

Appendix II Fees and Charges for Foreign Currency Settlement

No.	Description	Amount (MYR)
1.0	Annual Membership Fee⁵: Type I Licensed financial institutions regulated or co regulated by BNM and Institutions under BNM's purview II Development Financial Institutions and entities admitted for market development purposes III ICSDs and CSDs IV Foreign central banks V Qualified foreign financial institutions and multi-lateral institutions VI Clearing houses VII Qualified local corporates	15,000.00
2.0	Inter-bank Funds Transfer (IFTS) a. Amongst Participants b. For third party	2.50 1.50
3.0	Debit/Credit Notification a. Amongst participants b. For third party	2.00 FOC
4.0	PvP fee	7.00
5.0	Scripless Securities Sale, Free of Payment and House Transfer Transactions (payable by both buyer and seller)	1.00
6.0	Scripless Securities REPO and SBBA Transaction (payable by both buyer and seller)	1.00
7.0	Securities Borrowing and Lending Transaction	2.00
8.0	Central Host Online Enquiry	2.00
9.0	Administrative Message	2.00
10.0	Transaction fee for use of intraday credit (per tranche of RM5 million)	12.00
11.0	Request for report after cut-off time (per page)	50.00
12.0		

Charges for failure to settle intraday credit by the designated system cut-off time*

Note:

RENTAS cut-off extension fees shall be applicable 5,000 per event	
13.0	Charges for the use of participant's contingency terminal at BNM*:

⁵ The annual membership fee is charged by Participant and not by currencies. By default, the MYR charges would be applicable unless the Participant does not participate in the MYR Settlement.

	a. Activation of RBG terminal - per activation	10,000.00
	b. Utilisation charges (RENTAS iLINK and/or RBG):	
	i. First day	1,000.00
	ii. Second day	2,000.00
	iii. Third day	3,000.00
	iv. Every subsequent day	5,000.00
14.0	Late payment charges - Redemption (early / full / partial) or coupon payment*	5,000 per incident
15.0	Use of RENTAS Testing Environment	
	a. Planned	200.00 per day
	b. Unplanned	400.00 per day
16.0	Charges for causing delays to the settlement of clearing positions for eSPICK, MyDebit, RPP, Shared ATM Network (SAN), Interbank GIRO, FPX or Direct Debit clearing positions.* For purposes of determining the number of delays, the incidents of delays would be calculated separately for each type of clearing.	5,000 per incident
17.0	Cut-off extension charges*:	
	a. 1 st request every half hour, or part thereof	5,000.00
	b. 2 nd request onwards within a year ⁶ - every half hour, or part thereof	10,000.00
18.0	Onsite Consultancy Fee - Includes training and other relevant support and services	Minimum 600 per visit and RM300/hour for subsequent beyond 2 hours
19.0	Charges for "General Non-Compliance" as defined in Glossary of Terms*	Up to 5,000

* Penalties collected shall be channelled to the RENTAS and FAST Development Fund

Note:

- a. A Participant who participates in both MYR Settlement and CNY Settlement will pay a single annual membership fee of RM15, 000.00 only, as well as other fees denoted in the MYR column.

⁶ 12 months calendar year

- b. Billing for Participants that are incorporated in Malaysia shall be in MYR. Foreign Participants could opt for:
 - i. billing in the currency of the settlement service in which they are participating; or
 - ii. billing in MYR
- c. All fees (excluding penalties) for CNY and USD settlement in RENTAS as specified above are currently waived. Penalties are not waived.

No.	Description	Amount (EUR)
20.0	SWIFT Messaging Fees a. Non-reporting fees - Participant initiated instruction message (pacs 008, pacs 009, camt 056, camt 087, MT540, MT541, MT542, MT543 etc.). Charged to Participant initiating. b. Reporting fees - SWIFT-generated statement of holdings, listing of transactions, and allegation (MT535, 536, 548, 578, camt 052, camt 053, etc.). Charged to Participant requesting report. Reverse billing would be adopted where all SWIFT messaging fees payable when RENTAS sends messages to Participants would be charged to the receiving Participant. The fees are in accordance with SWIFT pricing and may be revised if SWIFT revises its fees.	As charged by SWIFT

Appendix III Request for Extension of RENTAS Foreign Currency Settlement Cut-off Time

(Please use institution's letterhead)

Date:

To : Director
Financial Market Infrastructure Department
Bank Negara Malaysia
Level 14, Block C
Jalan Dato Onn
50480 Kuala Lumpur

From :
(RENTAS BIC)

Subject : **Request for Extension of Foreign Currency Settlement Cut-off Time**

Kindly extend the Foreign Currency Settlement Cut-off Time

..... from p.m. to p.m.
(ddmmYYYY)

We hereby agree to pay the charges applicable for the extension.

The reason(s) for our request for extension is/are as follows:

.....
.....
.....

Thank you.

.....
(Authorised Signatory)

.....
(Authorised Signatory)

Official Stamp:

For BNM Use Only

Message received by:	
Request	
allowed/disallowed by:	
Time:	
Fees Payable:	

Appendix IV Incident Report from Participants

(Please use institution's letterhead)

Date:

To : Director
Financial Market Infrastructure Department
Bank Negara Malaysia
Level 14, Block C
Jalan Dato Onn
50480 Kuala Lumpur

From :
(RENTAS BIC)

Subject : Incident Report From Participants

Tuan,

Attached herewith the Incident Report for your attention and / or further action:

System Affected	RENTAS
From	
Date of Report	<i>(to send latest one day after the incident)</i>
Date and Time of Incident	
Chronology of Incident	
Causes	
Action Taken	
Preventive Measures	

Information Required:

Total No of Transactions Pending	Total Value of Transactions Pending (in RM)	Amount of Settlement Failure (in RM)	No of Counterparties affected

Name:

Designation:

(Refer to authorised signature list – highest ranking)

Appendix V Request To Re-sequence or Cancel Payment Instruction(s) In Priority Queue

(Please use institution's letterhead)

Date:

To : Director
Financial Market Infrastructure Department
Bank Negara Malaysia
Level 14, Block C
Jalan Dato Onn
50480 Kuala Lumpur

From :
(RENTAS BIC)

Subject : Request to Re-sequence or Cancel Payment Instruction(s) in Priority Queue

Tuan,

Kindly re-sequence / cancel* the following transactions in our Priority today:

<u>Queue No</u>	<u>Currency Code</u>	<u>Amount</u>	<u>TRN</u>	<u>New Queue No.</u>
.....				
.....				
.....				

The reason(s) for our request is / are as follows:

.....
.....

Thank you.

.....
(Authorised Signatory)
Official Stamp:

.....
(Authorised Signatory)

For BNM Use Only

Message received by:	
Request allowed / disallowed by:	
Time:	
Fees Payable:	

Appendix VI Form A: New Participant

(Please use institution's letterhead)

Date:

To: Director
Financial Market Infrastructure Department
Bank Negara Malaysia
Level 14, Block C
Jalan Dato Onn
50480 Kuala Lumpur

From:

(RENTAS BIC)

Subject : Confirmation of Participation

We refer to the application on the above.

1. We confirm our participation in the RENTAS system for (indicate all that are applicable):

- ☐ MYR Payments Services only;
- ☐ Foreign Currency Settlement Services, both payments and securities;
- ☐ Foreign Currency Payment Services only (specify currencies: _____);
- ☐ Foreign Currency Settlement Services, both payments and securities
(specify currencies: _____);
- ☐ Securities Services only. We appoint the following institution as the authorised agent to manage and operate our daily operation for both securities transactions and the corresponding payment transactions in the RENTAS system.

Name of Agent	Currency

2. As the owner of the stipulated account(s) in RENTAS, we hereby agree to abide by all rules, operational procedures and guidelines issued by Bank Negara Malaysia from time to time.
3. We hereby authorise BNM to debit our Foreign Currency Settlement Account maintained at the appointed On-shore Settlement Institution.
4. We hereby authorise BNM to disclose information pertaining to my organisation's debt securities holdings under all custody codes in RENTAS to facility agents for the specific purpose of administering the debt securities.

Yours sincerely,

.....
(Signature of Chief Executive Officer)

Name:

For and on behalf of:

Official stamp:

Appendix VI Form B: Existing RENTAS Participant Extends Membership to Foreign Currency Settlement Service

(Please use institution's letterhead)

Date:

To : Director
Financial Market Infrastructure Department
Bank Negara Malaysia
Level 14, Block C
Jalan Dato Onn
50480 Kuala Lumpur

From :
(RENTAS BIC)

Subject : **Confirmation of Participation in Additional Services**

We refer to the application on the above.

1. We wish to extend our participation in RENTAS to:

- ☐ MYR Payments Services only;
☐ Foreign Currency Settlement Services, both payments and securities;
☐ Foreign Currency Payment Services only (specify currencies:);
☐ Foreign Currency Settlement Services, both payments and securities
(specify currencies:);

- ☐ Securities Services only. We appoint the following institution as the authorised agent to manage and operate our daily operation for both securities transactions and the corresponding payment transactions in the RENTAS system.

Name of Agent	Currency

2. As the owner of the stipulated account(s) in RENTAS, we hereby agree to abide by all rules, operational procedures and guidelines issued by Bank Negara Malaysia from time to time.
3. We hereby authorise BNM to debit our Foreign Currency Settlement Account maintained at the appointed On-shore Settlement Institution.
4. We hereby authorise BNM to disclose information pertaining to my organisation's debt securities holdings under all custody codes in RENTAS to facility agents for the specific purpose of administering the debt securities.

Yours sincerely,

.....
(Authorised Signature and Institution Official Stamp)
Name:
Designation:

Appendix VI Form C: Confirmation of Access Channel for Foreign Currency Settlement in RENTAS

(Please use institution's letterhead)

Date:

To : Director
Financial Market Infrastructure Department
Bank Negara Malaysia
Level 14, Block C
Jalan Dato Onn
50480 Kuala Lumpur

From :

(RENTAS BIC)

Subject : **Confirmation on Access Channel for Foreign Currency Settlement in RENTAS**

With reference to the above, we would like to confirm that the following access channel will be used
by our institution for Foreign Currency Settlement in RENTAS:

- ☐ RENTAS Bank Gateway (RBG)
- ☐ SWIFT Alliance Access (SAA)
- ☐ SWIFT Alliance Lite2 (SAL2)
- ☐ SWIFT Alliance Cloud (SAC)

If more than one access channel is chosen, please specify the primary access channel:

☐ _____
Other Messaging Software via SWIFTNet. Please specify:

Thank you.

Yours sincerely,

.....
(Authorised Signature and Institution Official Stamp)

Name:

Designation:

Appendix VII Contact Person for Daily Operation of RENTAS

(Please use institution's letterhead)

Date:

To : Director
Financial Market Infrastructure Department
Bank Negara Malaysia
Level 14, Block C
Jalan Dato Onn
50480 Kuala Lumpur

From:
(RENTAS BIC)

Subject: Contact Person for the Daily Operation of RENTAS

Tuan,

Please be informed that the following is our contact person of RENTAS system and the details are given as follow:

Institution Name:

Name of the contact person:

Specimen signature of contact person:

Designation:

Department:

Contact address:

Contact telephone number:

Email address:

Yours truly,

(Authorised Signature and Institution Official Stamp)

Name:

Designation:

Appendix VIII RENTAS – Authorised Signatories List

(Please use institution's letterhead)

Date:

To : Director
Financial Market Infrastructure Department
Bank Negara Malaysia
Level 14, Block C
Jalan Dato Onn
50480 Kuala Lumpur

From:
(RENTAS BIC)

.....
(RENTAS Digit Code)

Subject : **RENTAS – Authorised Signatories List**

Tuan,

We submit herewith our Authorised Signatories List for all RENTAS matters referring to the member institution. This list shall take effect on

Name	Designation	Specimen Signature

Yours sincerely,

.....
(Authorised Signature and Institution Official Stamp)

Name:

Designation:

This signatories list must be authorised by the person who has the Power of Attorney (PA) or based on the Board of Directors' resolution.

Appendix IX User Access Request Form

Note: 1. All fields are compulsory

2. Please write legibly & ☒ where applicable

3. Date format: dd/mm/yyyy

Section 1 (to be completed by requestor) ☐ Bank Negara Malaysia user

☐ External user

Name:			
Employee No:			
Identity Card No.:			
Designation/Department:			
Bank / Organisation Name:			
Bank / Organisation Address:			
	City:	Postcode:	
	State:	Country:	
Contact No. :	Email Address:		
Status:	☐ Permanent	☐ Temporary (Date), From:	To:
Request to: ☐ Create ID ☐ Delete/Revoke ID* ☐ Suspend/Disable ID* ☐ Activate/Enable/Unlock ID* ☐ Reset Password* ☐ Modify ID* ☐ Task Assignment* ☐ Token Registration* Subject Key Identifier (SKI) No: _____ *please specify User ID: _____ *modify ID, specify the new profile: _____			
Reason for request:			
System/Application:			
☐ RENTAS Swift ☐ RENTAS PORTAL ☐ ILINK ☐ FAST ☐ eSSDS Others Please specify: _____			
Environment: ☐ UAT ☐ Production			
Signature:		Date:	
Approval (by Participant's Authorised Signatories)			
Request:	☐ Approved ☐ Not Approved (Please indicate in remarks column below) Remarks:		
Name:			
Designation/Department:			
Contact No.:	Email Address:		
Signature:	Date:		

Part A – For Business / System Owner Approval		
Request:	☐ Approved	☐ Not Approved
Signature:		
Name:		
Date:		

Appendix X Request Form for RENTAS Test Environment

1. Requester's Information																																				
Name:	Bank Name:																																			
Date:	Digit Code:																																			
Department:	BIC Code:																																			
Contact No.:	Access Channel: ☐ SAA																																			
E-mail:	☐ RBG																																			
	☐ iLINK																																			
2. Specify date(s) needed (please tick):																																				
Month: ☐ January ☐ February ☐ March ☐ April ☐ May ☐ June ☐ July ☐ August ☐ September ☐ October ☐ November ☐ December	Day: <table border="0"> <tr> <td>☐1</td> <td>☐2</td> <td>☐3</td> <td>☐4</td> <td>☐5</td> </tr> <tr> <td>☐6</td> <td>☐7</td> <td>☐8</td> <td>☐9</td> <td>☐10</td> </tr> <tr> <td>☐11</td> <td>☐12</td> <td>☐13</td> <td>☐14</td> <td>☐15</td> </tr> <tr> <td>☐16</td> <td>☐17</td> <td>☐18</td> <td>☐19</td> <td>☐20</td> </tr> <tr> <td>☐21</td> <td>☐22</td> <td>☐23</td> <td>☐24</td> <td>☐25</td> </tr> <tr> <td>☐26</td> <td>☐27</td> <td>☐28</td> <td>☐29</td> <td>☐30</td> </tr> <tr> <td>☐31</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	☐ 6	☐ 7	☐ 8	☐ 9	☐ 10	☐ 11	☐ 12	☐ 13	☐ 14	☐ 15	☐ 16	☐ 17	☐ 18	☐ 19	☐ 20	☐ 21	☐ 22	☐ 23	☐ 24	☐ 25	☐ 26	☐ 27	☐ 28	☐ 29	☐ 30	☐ 31				
☐ 1	☐ 2	☐ 3	☐ 4	☐ 5																																
☐ 6	☐ 7	☐ 8	☐ 9	☐ 10																																
☐ 11	☐ 12	☐ 13	☐ 14	☐ 15																																
☐ 16	☐ 17	☐ 18	☐ 19	☐ 20																																
☐ 21	☐ 22	☐ 23	☐ 24	☐ 25																																
☐ 26	☐ 27	☐ 28	☐ 29	☐ 30																																
☐ 31																																				
3. Services:																																				
☐ MYR ☐ CNY	☐ PV (On Shore PVP MYR-CNY) ☐ DV ☐ HK (Off Shore PVP MYR-USD)																																			
Remarks: <i>[Test purposes / additional request]</i>																																				
Management Approval (must be an Authorised Signature) Signature: Name: Position: Date: Institution Stamp:																																				
3. For BNM Internal Use Only																																				
Date Received: Approved by: Charge Amount:	Remarks:																																			

Note:

- Participants are required to adhere to Testing Procedure as stipulated in Operational Procedure for MYR Settlement in RENTAS.
- Participants are not allowed to use the RENTAS testing environment during weekends, public Holidays and after office hours.

Appendix XI Supported Foreign Currency

Foreign Currency Settlement supported in RENTAS:

No	Currency	Currency Code	Appointed On-shore Settlement Institution
1	Chinese Renminbi	CNY	Bank of China (Malaysia) Berhad

Appendix XII Activation of RENTAS iLINK workstation facility at Bank Negara Malaysia Checklist

1. Participants shall inform BNM via email regarding the activation.
2. Participants must ensure they bring along the following:
 - 2.1. ePKI tokens as required in **Clause 14.0**
 - 2.2. Source files or documents of the outstanding transactions
3. Participants to login to RENTAS iLINK and upload/key in transactions.

Appendix XIII Guideline for Registration of New Digital Certificate in RENTAS iLINK

1.0 Introduction

- 1.1 This guideline is to provide proper steps for the purpose of registering new digital certificate via RENTAS iLINK.
- 1.2 RENTAS Participants required to have two (2) users to register new digital certificate in RENTAS iLINK. Details are as follows:
 - i. User 1 – To validate and add new certificate for registration. User 1 is required to have function to add new certificate in RENTAS iLINK.
 - ii. User 2 – To approve the registration of new certificate. User 2 is required to have the approval function and active certificate in RENTAS iLINK.

2.0 Steps to Register New Certificate via RENTAS iLINK

- 2.1 Log-in RENTAS iLINK as User 1 and complete the following actions:
 - i. Go to Admin > Certificate Registration Maintenance;
 - ii. Click button 'Add Certificate';
 - iii. At the 'Search By' field, user may select any of the preferable option to search the new certificate. Select the preferable option and provide the details at the key search. Then click button 'Enquiry'. Example as follow:

- iv. Select the certificate and click button 'Add'. Example as follow:

- v. Details of new certificate will be prompted and click the button 'Submit'. Example as follow:

RENTAS Certificate Registration Maintenance - Add

Name: [Redacted]
 Co Reg No/Passport/IC No: [Redacted]
 Email Address: [Redacted]
 Subject Key Identifier: 341eb3cb97ddf1490a686d1e5904e250273153d2
 Issuer Name: C=MY,O=MSC Trustgate.com Sdn. Bhd,CN=Bank Negara Malaysia Class 2 CA-G3
 Start Date (dd/mm/yyyy): 26/03/2025
 Expiry Date (dd/mm/yyyy): 27/03/2027
 Status: [Redacted]
 Action: [Redacted]

Add RENTAS Certificate - RENTAS Certificate Registration Maintenance Request

Remarks: [Redacted]

2.2 Log-in RENTAS iLINK as User 2 and complete the following actions:

- Go to Home > To do List;
- Click button 'Go';
- Details certificate will be prompted on the screen and User 2 to validate the details such as name, IC number, email address, subject key identifier etc. Then click button 'Approve Request';

RENTAS Certificate Registration Maintenance - Approve

Name: [Redacted]
 Co Reg No/Passport/IC No: [Redacted]
 Email Address: [Redacted]
 Subject Key Identifier: 4bc8576250be8707
 Issuer Name: C=MY,O=BNM,OU=Terms of use at http://www.posdigicert.com.my,CN=Bank Negara Malaysia Sub CA G3
 Start Date (dd/mm/yyyy): 06/11/2024
 Expiry Date (dd/mm/yyyy): 06/11/2026
 Status: [Redacted]
 Action: PENDING NEW

Add New Certificate Registration Maintenance Request - Pending Approver

Requested by: [Redacted]
 Request Timestamp: 12-Sep-2025 15:54:30
 History: [12/09/2025 15:54:30] [Redacted] Add New Certificate Registration Maintenance Request
 [12/09/2025 15:54:30] [Redacted] Submit Add New Certificate Registration Maintenance Request / Remarks :
 Remarks: [Redacted]

- User 2 to ensure to run the iLINK Signer.
 Screen will prompt message to remind user to plug-in token and require user to insert the PIN number (password) of the token. Next system will proceed and approve the certificate accordingly. Status of the certificate will display as 'Active'.

Appendix XIV Activation of RENTAS iLINK Facility at Bank Negara Malaysia

(Please use institution's letterhead)

Date:

To : Director
Financial Market Infrastructure Department
Bank Negara Malaysia
Level 14, Block C
Jalan Dato Onn
50480 Kuala Lumpur

From:
(RENTAS BIC)

Subject : **Activation of RENTAS iLINK Facility at Bank Negara Malaysia**

Tuan,

With reference to the above, we would like to request for activation of RENTAS iLINK facility at Bank Negara Malaysia's premises on

.....
(dd/mm/yyyy)

The reason(s) for our request of activation is / are as follows:

.....
.....
.....

Thank you.

.....
(Authorised Signatory)

.....
(Authorised Signatory)

Official Stamp:

For BNM Use Only

Message received by:	
Request allowed/disallowed by:	
Time :	
Fees Payable :	

Note:

Affected Participants must arrive at BNM's premises within one (1) hour after the request of activation has been granted by BNM.

Glossary of Terms

1. **“Allegation”** refers to a message that RENTAS transmits to inform a Participant’s counter-party that a foreign currency securities transaction that the Participant transmitted cannot be matched.
2. **“BNM”** means Bank Negara Malaysia established under the Central Bank of Malaysia Act 2009.
3. **“BNM’s Systems”** refer to all systems and technology employed by BNM for the purpose of facilitating the Payments and Securities Services.
4. **“Bridge Institutions”** refers to a subsidiary of PIDM designated as a bridge institution under paragraph 99(1)(f) of PIDM Act 2011. BIs are incorporated in advance for the purpose of BI implementation. BIs shall remain dormant and will be activated by PIDM in a resolution scenario that requires BI.
5. **“Business Continuity”** means the continued delivery of services and continued operational viability in response to a disruptive event.
6. **“Business Continuity Management (BCM)”** means a holistic management process that identifies risks, threats and vulnerabilities that could impact an organisation’s business operations and which ensures organisational resilience and Business Continuity.
7. **“Business Continuity Plan (BCP)”** refers to a comprehensive documented action plan that outlines the procedures, processes and systems necessary to resume or restore the business operations of a Participant in the event of a disruption.
8. **“Business day”**, unless otherwise specified in these Operational Procedures, means any calendar day from Monday to Friday, excluding a Holiday or Unexpected Holiday observed in the Federal Territory of Kuala Lumpur.
9. **“Business hours”** means the duration of time, from the opening time to the closing time, when BNM provides Payments and Securities Services, which may differ for each of the Payments and Securities Services.
10. **“Clearing”** means the process of exchanging and reconciling payment items that result in the establishment of final positions for Settlement.

11. **“Credit Notification”** refers to a notice sent by Participant to another Participant informing them of impending RENTAS payment.
12. **“Cut-off time”** refers to the stipulated time, fixed by BNM; beyond which the receipt of any item will be deemed to occur at the opening of the next working day.
13. **“Debit Notification”** refers to notification sent by RENTAS to the FA on the coupon or redemption payment date for Debt Securities informing the FA on the total interest or redemption proceeds that the FA has to pay to BNM on behalf of the issuer.
14. **“DFI”** means Development Financial Institutions that are governed under the Development Financial Institutions Act 2002.
15. **“Digital signature”** means the cryptographic process where Messages are signed with the sender’s private key so that the recipient of the Message, by using the public key to decrypt, can accurately determine the authenticity and validity of the Message.
16. **“DvP”** means delivery-versus-payment in which transfer for securities and funds is settled on a trade-by-trade basis, with final transfer of the securities from the seller to the buyer (delivery) occurring at the same time as final transfer of the funds from the buyer to the seller (payment).
17. **“Eligible Securities”** means:
 - a. Specified RENTAS Securities issued by the Government and BNM; and
 - b. Non-specified RENTAS Securities with minimum credit rating of AAA and above.
18. **“Final or Finality”** means irrevocable and unconditional.
19. **“Foreign Currency Settlement Account”** means a cash account maintained by the Participant with OSIs for the purposes of foreign currency Settlement.
20. **“Foreign-Currency Settlement Cut-off”** means the cut-off time of a Business day when the Host System ceases processing foreign currency transactions for value on the same day, including any extension of time for the processing of transactions on that day which BNM may grant under these Participation Rules.

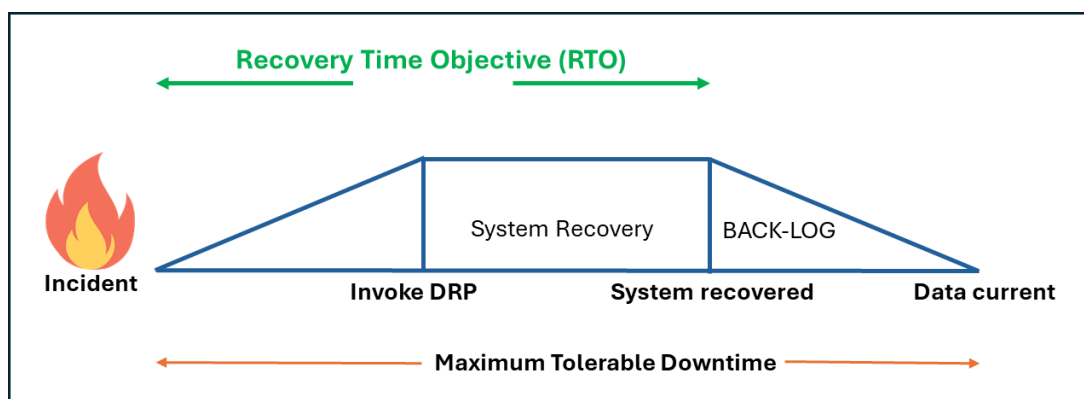
21. **“FSA”** means the Financial Services Act 2013.
22. **“FX”** means foreign exchange transactions.
23. **“General Non-Compliance”** refers to any non-compliance without pre-specified penalty charges in the Participation Rules for Payments and Securities Services, and the Operational Procedures for MYR Settlement in RENTAS, Foreign-Currency Settlement in RENTAS and FAST.
24. **“HKICL”** means Hong Kong Interbank Clearing Limited.
25. **“Host System”** means the Central Host Computer System that provides the Payments and Securities Services which is located at production site and / or back-up site including any other back-up systems / sites.
26. **“Holiday”** refers to:
 - i. Public holiday as provided under or appointed pursuant to section 3, 8 or 9 of the Holidays Act 1951 and observed in the Federal Territory of Kuala Lumpur.
 - ii. Unexpected Holiday.
27. **“Identified Securities”** means Eligible Securities tagged and identified in the Participants’ K account.
28. **“IFSA”** means the Islamic Financial Services Act 2013.
29. **“Intraday credit”** refers to funds extended either by BNM for MYR Settlement or by OSIs for Foreign-Currency Settlement to eligible RENTAS Participants for a period of less than one (1) Business day.
30. **“Intraday credit cut-off”** means the deadline after which Participants will not be able to drawdown on their intraday credit line with BNM.
31. **“Intraday credit cut-off warning”** means the notification provided to Participants thirty (30) minutes prior to the intraday credit cut-off.
32. **“K account”** means collateral account for Scripless Securities in the RENTAS system held with BNM.

33. **“Legal Entity Identifier (LEI)”** is a unique code developed by the International Organisation for Standardization (ISO). It connects to key reference information that enables clear and unique identification of legal entities participating in financial transactions. Each LEI contains information about an entity’s ownership structure. The publicly available LEI data pool can be regarded as a global directory, which greatly enhances transparency in the global marketplace.
34. **“Licensed Financial Institutions”** means commercial banks and investment banks licensed under section 212 (3) of the Financial Services Act 2013 (FSA) and Islamic banking licensed under Section 223 (3) of the Islamic Financial Services Act 2013 (IFSA).
35. **“Live Run”** refers to the process of operating on an actual basis using actual data on IT recovery sites. Where necessary, business operations are shifted to the recovery site in accordance with the Disaster Recovery Plan.
36. **“Maximum Tolerable Downtime (MTD)”** means the timeframe during which a recovery must become effective before an outage compromises the ability of a Participant to achieve its business objectives.
37. **“MCT SAS”**, or Foreign-Currency Transfer Settlement Account System, is a real-time settlement module that effects the transfer of funds through Foreign Currency Settlement Accounts that are maintained with Onshore Settlement Institutions (OSI) appointed by BNM.
38. **“MX Participants”** refers to RENTAS Participants that have onboarded to ISO20022 (MX)
39. **“MYR”** refers to Malaysian Ringgit.
40. **“MYR SAS”**, or MYR Settlement Account System, is a real-time accounting module that posts debits and credits to MYR cash accounts across the books of BNM. All MYR Settlement Accounts are maintained with BNM.
41. **“MYR Settlement Account”** means a cash account maintained by the Participant with BNM for the purposes of MYR Settlement.

- 42. **“NWI”** means the New WAN Infrastructure, a secure private high bandwidth managed by Time Telekom Bhd, which is used to connect BNM’s Systems to all Participants.
- 43. **“OSI”**, or Onshore Settlement Institution, refers to an organisation appointed by BNM to provide Settlement services for a particular foreign currency in RENTAS.
- 44. **“Participant”** means any financial institution or entity who has applied and has been accepted by BNM to participate in Payments and Securities Services and subject to and in consideration of such acceptance the Participant shall observe and comply with the Participation Rules.
- 45. **“Participant Terminals”** refers to all software and hardware installed at the Participants’ premises, or that of its outsourcing service provider, which is linked to the Host Systems for purpose of accessing Payments and Securities Services. For RENTAS, the Participant Terminals would encompass the hardware and software for the Participants’ access channels to the Host System (namely RENTAS Bank Gateway, SWIFT Access and/or RENTAS iLINK);
- 46. **“Payments and Securities Services”** means the payment, Settlement, securities issuance, depository, paying agency and corporate actions processing services offered by BNM to Participants through the RENTAS and FAST systems.
- 47. **“PayNet”** means Payments Network Malaysia Sdn Bhd, a company incorporated under the Companies Act 1965. PayNet is the owner and operator of retail payment systems such as eSPICK, FPX, MyDebit, Interbank GIRO (IBG), IBFT Shared ATM Network and MEPS ATM.
- 48. **“PIDM”** means Perbadanan Insurans Deposit Malaysia (“PIDM”). It is an integrated financial consumer protection authority for depositors and takaful or policy owners, and resolution authority for its member institutions.
- 49. **“PIDM Member Institution”** refers to all commercial banks licensed under the Financial Services Act 2013 and all Islamic banks licensed under the Islamic Financial Services Act 2013, including locally incorporated subsidiaries of

foreign banks operating in Malaysia. Membership in PIDM is compulsory as provided under the PIDM Act.

50. **“Private Key”** means the secret key in a key pair, which is known only to the Participant who generated it. In asymmetric cryptographic systems such as E-PKI, private keys are used to create digital signatures that uniquely identify the Participant.
51. **“Public key”** means the publicly disclosed key in an asymmetric cryptographic key pair that is made known to everyone, and is used to verify the authenticity and validity of Messages.
52. **“PvP”** means Payment-versus-Payment, a mechanism in a foreign exchange Settlement system which ensures that a final transfer of one currency occurs if and only if a final transfer of other currency takes place.
53. **“Queue”** means an arrangement where Settlement transactions are held by the RENTAS System until sufficient balances are available in the paying Participant’s account to fund the Settlement.
54. **“Recovery site”** means a recovery (back-up) site for IT infrastructure, systems and business processes to be recovered and operationally ready to support business functions after an outage.
55. **“Recovery Time Objective (RTO)”** refers to the timeframe required for IT infrastructure, systems, applications, and business processes to be recovered and operationally ready after a disruption. A recovery time objective has the following two components:
 - i. the duration of time from the disruption to the activation of the BCP/DRP; and
 - ii. the duration of time from the activation of the BCP/DRP to the recovery of the business operations.



56. “**RENTAS**” refers to the Real-time Electronic Transfer of Funds and Securities System, is a multi-currency real time gross settlement system for inter-bank funds transfer, a securities settlement system and a scripless securities depository for all unlisted debt instruments.
57. “**RENTAS and FAST Development Fund**” means a fund consisting of penalty charges collected from Participants, which was established and is managed by BNM, and is dispersed for initiatives that are beneficial to a broad segment of Participants.
58. “**RENTAS Bank Gateway**” or RBG refers to RENTAS’ proprietary Participant access channel with Straight-through processing (STP) capabilities, which act as a Participant Terminal.
59. “**RENTAS Host**” means the RENTAS Central Host Computer System located at BNM, including any back-up systems.
60. “**RENTAS opening**” means the time of that Business day from which the Host System is ready and able to process transactions for the Business day.
61. “**Real-time Retail Payments Platform (RPP)**” means the Shared payment infrastructure developed and established by PayNet which facilitates instant payments and collections addressed using easily remembered proxies or by account numbers.
62. “**Securities Account**” means the scripless Securities Account held with BNM and maintained in the RENTAS system.
63. “**Service Provider**” means a person or company engaged by a Participant to provide services in connection with the Payments and Securities Services.

64. **“Settlement”** or **“Settle”** refers to the process of adjusting financial positions of Participants to reflect the amounts due to and from them as a result of the exchange of clearing items, payment transactions and securities transactions. It refers to the final and irrevocable discharge of an obligation of one Participant in favour of another Participant, in central bank money for MYR transactions, or in commercial bank money for foreign currency transactions.
65. **“Specified RENTAS Securities”** refers to Islamic / conventional short term and long term scripless securities issued by the Government, BNM, BNM Sukuk Berhad and any other issuer that may be specified by BNM.
66. **“SSDS”** means Scripless Securities Depository System.
67. **“Straight Through Processing (STP)”** means the online transmission of Messages directly from Participants’ internal systems and complete automated processing of Messages without the need for data entry or manual intervention.
68. **“Suspended”** membership will result in the following:
- a. The Participant can only receive incoming IFTS transactions. Outgoing IFTS transactions will be rejected;
 - b. All SSDS transactions and transfers initiated by or due to the member will also be rejected;
 - c. Incoming funds will not be used to clear Participants' queues;
 - d. Outgoing IFTS queued transactions and SSDS transactions pending due to insufficient securities will be cancelled at RENTAS Cut-off; and
 - e. Future-dated IFTS and SSDS transactions will be retained. Should the Participant’s membership remains “suspended” when the future-dated transaction is due for settlement, any incoming IFTS will be accepted for settlement, while any outgoing IFTS or SSDS transactions will be rejected.
69. **“SWIFT”** refers to Society for Worldwide Interbank Financial Telecommunication.
70. **“SWIFTNet”** refers to the IP network infrastructure provided by SWIFT that facilitate efficient messaging with SWIFT standards between its participants worldwide.

71. **“SWIFT Access”** refers to SWIFT Alliance Access (SAA) or other SWIFT-certified systems as approved by BNM that act as a Participant Terminal.
72. **“Systemic risk”** means the risk that the failure of one Participant to meet its required obligations will cause other Participants to be unable to meet their obligations when due, thereby potentially causing significant liquidity dislocations or credit problems and threatening the stability of the financial markets.
73. **“USD CHATS”** means the US Dollar Clearing House Automated Transfer System, a real-time gross settlement system for USD transactions in Hong Kong operated by HKICL.
74. **“Unexpected Holiday”** refers to a holiday declared at the eleventh hour by the Minister pursuant to:
- i. [section 8] OR [any provision] of the Holidays Act 1951 [which is observed in the Federal Territory of Kuala Lumpur]; where “Minister” means the Minister charged with the responsibility for public and bank holidays; or
 - ii. section 217(1) of the Financial Services Act 2013 or section 228(1) of the Islamic Financial Services Act 2013; where “Minister” means the Minister for the time being charged with the responsibility for finance.