**DCMS**

**FUNCTION SPECIFICATION DOCUMENT**

**Version 0.1**

**Shanghai Huateng Software Systems Co., Ltd.**

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# Introduction

This document elaborates the functional flow of DCMS especially on payment process, the interaction between merchants, HSBC DCMS and aggregators for users to have a quick grasp of the system function.

# Basic Specification

## Acronyms, Abbreviations and Terms

DCMS: Digital Collection Management System.

# Process Flow

### Payment Request(Merchant)



Explanation of Workflow:

1. Customers submit payment on merchant’s website.
2. Merchant make payment request to DTP, who will run API message checking, after checking pass, forward the request to DCMS.
3. DCMS make payment request API call to aggregator.
4. Aggregator respond with payment page to merchant’s website, which will be shown to customers to fulfill payment details and finish payment.
5. Once payment is done, aggregator will notify DCMS via API about the payment result, DCMS will forward the payment result to DTP, which will be forwarded back to the corresponding merchant.

### Payment Status Equiry(Merchant)



Explanation of Workflow:

1. If merchant didn’t receive the payment result information, merchant can launch payment status enquiry API call to DTP, who will do rules checking to the API message, if passed, forward payment status checking to DCMS, DCMS will make ‘CheckStatus’ API call to Aggregator.
2. Aggregator will respond the ‘CheckStatus’ with the transaction payment status information, the response message will be forwarded back to merchant.

### Transaction Cancellation (Merchant)



Explanation of Workflow:

1. Merchant can launch void/refund/cancellation API call to cancel or refund a transaction. DTP will do message format checking, if pass, forward the message to DCMS, DCMS will form void/refund/cancellation API message to aggregator.
2. Aggregator will reply the processing result back to DCMS, then the void/refund/cancellation result message is forwarded back to merchant.

### Channel Fee Billing (MQ)



**Illustration:**

1. DCMS sends to HUB ‘Channel fee billing message’ daily to make channel fee charge from merchant account.
2. Acquiring fee is pre-deducted by Aggregator so DCMS will not send HUB acquiring fee information for Indonesia and Thailand Branch.
3. HUB will make charges from merchant account,
   1. if success, end of process.
   2. If failed, manual charge from DCMS need to be triggered to inform HUB to charge again.

### Merchant Account Enquiry (MQ)



**Illustration:**

1. During Merchant Setup or merchant account modification, upon online request by clicking search(Settlement Account), DCMS will send ‘Merchant Account Enquiry’ to HUB using MQ and get merchant account information from HUB to verify the account and ensure inputted account can be operated on.

### Daily Reconciliation& RMS Interface

 **Illustration:**

1. Aggregator sends to DCMS ‘EOD Transaction Details file’ (merchant account settlement details) daily, DCMS will update according to the file.
2. Aggregator pushes payment to HUB daily of the whole settled amount via BATHNET for each merchant, HUB will then send to DCMS ‘CTI Reporting Message’ daily: Merchant account daily settled whole amount.
3. DCMS will run reconciliation of the two amount,
   1. if two amount match, then generate RMS required txt file and send to RMS.
   2. If reconciliation failed, system produce ‘Recon Exception Report’ for bank staff to follow up and send to merchant if the report is subscribed in Merchant Setup.
      1. If EOD transaction details incorrect, Aggregator will need to update the file, manually start ‘aggregator reconciliation job’ to re-capture the updated file and update DCMS data.
      2. If CTI message report incorrect, do manual payment inward setup, once approved.
      3. DCMS will run reconciliation again, if fails, return to 3.2.
      4. If success, go to next step as 3.3.
   3. DCMS generates data file according to RMS requirement and send to RMS.

### Merchant Report Sending



**Illustration:**

1. If merchants subscribed reports through listed channels, DCMS will send the subscription information to UMS as well as any attachment or email content, UMS will execute the sending of the reports according to report subscription setting Merchant Setup.
2. UMS will respond with error message if API message check failed or reply processing successfully if no error.

### AMLO Report File (only for BKH)



**Illustration:**

1. DCMS will send to AMLO daily message file that contains all the transaction details if the transaction settled amount exceeds 700,000THB.

# Page Operation Rule

## Login Information

**Function description:**

* After logged into the system, check the current login country/institution, user can click on right top buttons to switch institution/ log out of system.
* Check To-do-List and click ‘Handle’ to go to the handling page directly.

## System Management

### Country/Institution Setup

**Function description:**

* Display the detail information of the user ID.
* Users can inquiry by multiple criteria.
* The information can be downloaded in CSV format.

### 操作员角色查询 Role Inquiry（\*）

**Function description:**

* Display the user role information.
* Users can inquiry by multiple criteria.
* The information can be downloaded in CSV format.

### 操作员维护日志查询 User Maintenance Log Inquiry（\*）

**Function description:**

* Display all the user ID and role maintenance logs.
* Users can inquiry by multiple criteria.
* Online report export.

### 操作员业务操作日志查询 User Activity Log Inquiry（\*）

**Function description:**

* Display all the transaction level activity logs.
* Users can inquiry by multiple criteria.
* Online report export.

## 系统信息维护 System Management

### 系统参数维护 System Parameter Maintenance（\*）

**Function description:**

* The admin is able to maintain the system parameters in TopBridge.

1. User ID expiration period
2. CSDB file generation time

* All the maintenance will take effect immediately.
* Audit logs will be kept in the database.

### 节假日维护 Holiday Table Maintenance（\*）

**Function description:**

* The admin is able to maintain the holiday table in TopBridge.
* All the maintenance will take effect immediately.
* Audit logs will be kept in the database.

### 节假日维护授权 Holiday Table Maintenance Authorization（\*）

**Function description:**

* The admin is able to authorize the created/updated/deleted holiday.
* The users for input and authorization can’t be the same person.
* Audit logs will be kept in the database.

### 同城行名行号文件导出 SHTC Bank Code File Export

**Function description:**

* Users are able to export the PBOC bank code list in XML and TXT format.
* Audit logs will be kept in the database.

### 同城系统登录 SHTC System Logon

**Function description:**

* Allow the system to send a logon message to PBOC.
* Audit logs will be kept in the database.

### 同城系统退出 SHTC System Logout

**Function description:**

* Allow the system to send a logout message to PBOC.
* Audit logs will be kept in the database.

## System Info Inquiry

### System Parameter Inquiry（\*）

**Function description:**

* Display the system parameters maintained in TopBridge.

### Holiday Table Inquiry（\*）

**Function description:**

* Display the holiday table maintained in TopBridge.

### SHTC System Logon and Logout Info Inquiry

**Function description:**

* Display the logon and logout information of the SHTC system.
* Users can search by dates.

### SHTC System Status Inquiry

**Function description:**

* Display the current status of the SHTC system.

## Business Management

### Business Parameter Maintenance （\*）

**Function description:**

* The admin is able to maintain the email report generation time in TopBridge system.
* The admin is able to maintain the payment to individual parameter (beneficiary name length) in TopBridge system.
* The admin is able to maintain the special characters which will be auto replaced in TopBridge system.
* The admin is able to maintain the transaction ceiling amount for non-STP (GBS payment).
* The updated parameters will take effect immediately. It doesn’t need another user to authorize.
* Audit logs will be kept in the database.

### Bank Name - Bank Code Mapping Maintenance（\*）

**Function description:**

* Users can inquiry/create/update/delete a bank name - bank code mapping relationship.
* A pop-up search box will be provided for SHTC bank code.
* All the changed mapping relationships will not take effect immediately; it needs another user to authorize.
* Audit logs will be kept in the database.

### Bank Name - Bank Code Mapping Maintenance Authorization（\*）

**Function description:**

* Users can authorize changed bank name - bank code mappings.
* The users for input and authorization can’t be the same person.
* Audit logs will be kept in the database.

### Blacklist File Upload（\*）

**Function description:**

* Users are able to upload the blacklist file to TopBridge.
* No authorization is needed after upload.
* Audit logs will be kept in the database.

### Blacklist Info Maintenance（\*）

**Function description:**

* Users are able to enquiry/create/update/delete the blacklist record.
* Authorization is needed after the change of a record.
* Audit logs will be kept in the database.

### Blacklist Info Maintenance Authorization（\*）

**Function description:**

* Users are able to authorize modified blacklist records.
* The users for input and authorization can’t be the same person.
* Audit logs will be kept in the database.

### Payment Purpose Keywords Maintenance（\*）

**Function description:**

* Users are able to enquiry/create/update/delete the keywords for inbound/outbound payments validation.
* Users are able to flag a payment purpose keyword for non-STP. Transactions containing these keywords will go to repair.
* Users are able to flag a payment purpose keyword for monitoring. If an inbound transaction contains a monitoring payment purpose keyword, then the transaction will still STP.
* Authorization is not needed after maintenance.
* Audit logs will be kept in the database.

### Account Info Maintenance （\*）

**Function description:**

* Users are able to maintain (add, update, delete) the BOA client details in the system:
  1. Client account number (8 digits).
  2. Client branch number (4 digits).
  3. Client name in Chinese.
  4. Non-STP flag for inbound transactions.
  5. Non-STP flag for outbound transactions.
  6. Vendor Code Flag.
  7. Virtual Account flag.
* Users are able to configure the email report type (intra-day incremental report or end-of-day cumulative report).
* Authorization is needed after maintenance.
* Audit logs will be kept in the database.

### 账户信息维护授权 Account Info Maintenance Authorization（\*）

**Function description:**

* Users are able to authorize the modified account information.
* The users for input and authorization can’t be the same person.
* Audit logs will be kept in the database.

### 账户邮件地址维护 Account Email Maintenance（\*）

**Function description:**

* Users are able to configure client email addresses that receive the reports.
* Multiple email addresses can be configured for each account.
* Authorization is not needed after maintenance.
* Audit logs will be kept in the database.

### Vendor Code 文件上传Vendor Code File Upload（\*）

**Function description:**

* Users are able to upload the vendor code file to TopBridge for transaction validation.
* Audit logs will be kept in the database.

### Vendor Code维护 Vendor Code Maintenance （\*）

**Function description:**

* Users are able to maintain (add, update and delete) the vendor code information in the system.
* The information stored in TopBridge contains:
  1. BOA account number.
  2. Remitter name in Chinese.
  3. Associated vendor code (may be an English name).
* Authorization is needed after maintenance.
* Audit logs will be kept in the database.
* A search box will be provided for BOA account information inquiry.

### Vendor Code维护授权 Vendor Code Maintenance Authorization（\*）

**Function description:**

* Users are able to authorize all the modified vendor code records.
* The users for input and authorization can’t be the same person.
* Audit logs will be kept in the database.

### 同城系统记账日期手工切换 SHTC EOD Batch

**Function description:**

* Users are able to manually trigger the end-of-day processing in the interface system. The EOD batch includes:
  1. system date switch
  2. reports generation
  3. data backup
  4. data & file housekeeping
* At midnight local time, if the end-of-day batch has not been manually triggered then the system will run the EOD batch automatically.
* Audit logs will be kept in the database.

### 同城手工生成批量报表 SHTC Reports Re-generation

**Function description:**

* If the system fails to generate reports, users can re-trigger the job manually.
* Users can specify a date and run the job.
* Audit logs will be kept in the database.

### AML账号文件上传 AML Account File Upload

**Function description:**

* Users are able to upload the AML file to TopBridge for transaction validation.
* Industry type will be added in this AML file specifically for SHTC system.
* Audit logs will be kept in the database.

### 同城邮件通知参数维护 SHTC Email Notification Parameter Maintenance

* The admin is able to maintain the email notification parameters which include:
  1. Receiving email addresses;
  2. Email notification generation time. 按分行设置不同的参数。
* Audit logs will be kept in the database.

### 同城行号信息维护 Bank Code Maintenance

**Function description:**

* This function is for Beijing/Guangzhou branches.
* Users are able to maintain (add, update, delete) the bank information in the system:
  1. Bank code.
  2. Bank name.
  3. Bank address.
* Authorization is needed after maintenance.
* Audit logs will be kept in the database.

### 同城行号信息维护授权 Bank Code Maintenance Authorization

**Function description:**

* Users can authorize the bank code change.
* The users for input and authorization can’t be the same person.
* Audit logs will be kept in the database.

### 同城行号文件上传SHTC Bank code File Upload

**Function description:**

* Users are able to upload the bank code file to SHTC for transaction validation.
* Audit logs will be kept in the database.

## 业务信息查询 Business Info Inquiry

### 业务参数查询 Business Parameter Inquiry（\*）

**Function description:**

* Display the business parameters maintained in TopBridge system which include:
  1. Email report generation time;
  2. Beneficiary name length for outbound payment check;
  3. Special characters which are not allowed.

### 行名行号映射关系查询 Bank Name - Bank Code Mapping Inquiry（\*）

**Function description:**

* Display the bank name – bank code mapping maintained in TopBridge system.
* Users can inquiry by multiple criteria.

### 黑名单列表查询 Blacklist Inquiry（\*）

**Function description:**

* Display the blacklist information maintained in TopBridge system.

### 来往账报文检查关键字查询 Payment Purpose Keywords Inquiry（\*）

**Function description:**

* Display the payment purpose keywords maintained in TopBridge system.

### 账户信息查询 Account Info Inquiry（\*）

**Function description:**

* Display the BOA account information.

### 账户邮件地址查询 Account Email Inquiry（\*）

**Function description:**

* Display the account email addresses maintained in TopBridge system.

### Vendor Code查询 Vendor Code Inquiry（\*）

**Function description:**

* Display the account vendor code maintained in TopBridge system.

# 录入 Input

## 同城支付类报文录入 SHTC Payment Input

### 同城贷记往账录入 SHTC Outbound Payment Input

**Function Description:**

* This function is only for SH branch.
* If the receiving bank is not a SHTC member, then jump to ‘Outbound Giro Voucher Input’ function.
* If the user chooses e-banking as the business type, TopBridge will first send an account information inquiry to PBOC.If the beneficiary account is valid, the user can input outbound payment message.
* The user can decide whether the transaction needs account posting or not. If yes, the system will check if the remitter account number is valid or not.
* A search box will be provided for BOA account information.
* A search box will be provided for SHTC bank code.
* When the user enters beneficiary account number, historical beneficiary information will be automatically retrieved.
* The system will validate the user’s input.
* Blacklist check will be performed on both remitter name and beneficiary name.
* TopBridge will check if the payment is duplicated on the same day.
* After the user inputs a transaction, the transaction needs to be verified and then authorized.
* Audit logs will be kept in the database.

### 同城贷记往账修改 SHTC Outbound Payment Modification

**Function Description:**

* When a manual outbound payment is rejected during verification or authorization, users can modify the payment details and resubmit. Users can also cancel the payment.
* Users can filter by multiple inquiry conditions
* Other functionalities are the same as *6.1.1 SHTC Outbound Payment Input*.
* After the user modifies or cancels the payment, another user needs to verify the payment.

### 同城贷记退汇支付修改 SHTC Outbound Payment Return Modification

**Function Description:**

* When a manual outbound payment return is rejected during verification, users can choose to modify the payment return and resubmit or cancel it.
* Modified outbound payment return needs to be verified.
* Audit logs will be kept in the database.

### 同城贷记往账Repair Queue录入 SHTC Outbound Payment Repair Queue Input

**Function Description:**

* Allow users to repair the beneficiary bank information and payment purpose.
* Allow users to delete a payment.
* Allow users to switch the transaction type to internal transfer.
* Provide a pop-up search box for the SHTC bank code.
* Users can save the bank name - bank code mapping when doing repair.
* Users need to repair then submit for the following reasons:

1. The beneficiary belongs to the same local branch (internal transfer).
2. No mapping for the beneficiary bank name and the bank code.

* Users can submit directly without repair for the following reasons:

1. The account is flagged for manual check.
2. Duplicate payment.
3. Beneficiary name is too long and causes the ‘Remarks’ field overflow.

* Users can filter the transactions by multiple criteria.
* Another user needs to verify the repaired outbound payment.
* The system will validate the user’s input.
* Audit logs will be kept in the database.

### 同城贷记往账Monitor Queue录入 SHTC Outbound Payment Monitor Queue Input

**Function Description:**

* Allow users to verify transactions by transaction level or batch level.
* Allow users to move a transaction from Monitor Queue to Repair Queue by transaction or by batch.
* Users can filter the transactions by multiple criteria.
* The total number and total amount of selected transactions will be showed on the screen.
* Verified payments need to be authorized before sent out to PBOC.
* Audit logs will be kept in the database.

### 同城贷记来账Repair Queue录入 SHTC Inbound Payment Repair Queue Input

**Function Description:**

* Allow users to repair the beneficiary account and post accounting entry to GBS. (Dr: Clearing, Cr: Client)
* Allow users to suspend the inbound payment. (Dr: Clearing, Cr: Transit)
* Allow users to reject the payment on the same day. (Dr: Clearing, Cr: Clearing)
* Users can filter the transactions by multiple criteria.
* The beneficiary information can be repaired. When the user decides to suspend the transaction, bank account can be chosen as the credit account.
* Provide a pop-up search box for the customer account.
* When the user enters the account that is flagged for virtual account processing, TopBridge will automatically populate the beneficiary information field with the original account number, as supplied in the message from the clearing, and prefixed with ‘/VA’.
* Blacklist check will be performed on both remitter name and beneficiary name.
* Verification is needed before sending transactions to GBS.
* Original details received from PBOC will be stored in the database.
* Audit logs will be kept in the database.

### 同城贷记来账挂账待处理 SHTC Suspended Inbound Payment Process

**Function Description:**

* Users can repair the beneficiary account number and credit the client’s account. (Dr: Transit, Cr: Client)
* Allow users to return the payment. (Dr: Transit, Cr: Clearing)
* Allow users to mark the transaction as completed, no accounting entry will be generated. Users need to manually post the entry in GBS.
* Provide a pop-up search box for the customer account.
* Audit logs will be kept in the database.

### 同城贷记往账停止交易待处理SHTC Stopped Outbound Payment Process

* The interface system will display all the stopped transactions.
* Users have three choices for the stopped transactions:

(1) Release to clearing directly without the response from GBS.

(2) Cancel the payments with reverse accounting entries generated and fed to GBS for posting.

(3) Cancel the payment without reverse accounting entries.

All actions will not take effect until authorized by another user.

* Audit logs will be kept in the database.

### Giro Voucher往账录入 Outbound Giro Voucher Input

**Function Description:**

* This function is for BJ branch、GZ branch、 and SH branch when the receiving bank is not a SHTC member.
* The user can decide whether the transaction needs account posting or not. If yes, the system will check if the remitter account number is valid or not.
* A search box will be provided for BOA account information.
* The receiving bank code is an optional input field.
* When the user enters the beneficiary account number, historical beneficiary information will be automatically retrieved.
* The system will validate the user’s input.
* Blacklist check will be performed on both remitter name and beneficiary name.
* TopBridge will check if the payment is duplicated on the same day.
* After the user inputs a transaction, the transaction needs to be verified and then authorized.
* Audit logs will be kept in the database.

### Giro Voucher往账修改Outbound Giro Voucher Modification

**Function Description:**

* When an outbound Giro voucher is rejected during verification or authorization, users can modify the payment details and resubmit. Users can also cancel the payment.
* Other functionalities are the same asOutbound Giro Voucher Input.
* After the user modifies or cancels the payment, another user needs to verify the payment.

### Giro Voucher来账录入Inbound Giro Voucher Input

**Function Description:**

* Users can manually input an inbound Giro Voucher for SH, BJ and GZ branches.
* The system will check if the beneficiary account number is valid or not.
* A search box will be provided for BOA account information.
* A search box will be provided for SHTC bank code.
* When the user enters the remitter account number, historical remitter information will be automatically retrieved.
* The system will validate the user’s input.
* Blacklist check will be performed on both remitter name and beneficiary name.
* If the account is flagged for virtual account or vendor code, TopBridge will do corresponding processing.
* TopBridge will check if the payment is duplicated on the same day.
* After the user inputs a transaction, the transaction needs to be verified and authorized before sending to GBS.
* Audit logs will be kept in the database.

### Giro Voucher来账修改Inbound Giro Voucher Modification

**Function Description:**

* When a manual inbound Giro voucher is rejected during verification or authorization, users can modify the payment details and resubmit. Users can also cancel the payment.
* Other functionalities are the same asInbound Giro Voucher Input.
* After the user modifies or cancels the payment, another user needs to verify the payment.

## 同城信息类报文录入 SHTC Info Message Input

### 查询报文录入 SHTC Inquiry Message Input

**Function Description:**

* The user can choose an outbound or inbound payment and input an inquiry message.
* Once the user submits the inquiry message, it will be sent out to PBOC immediately.
* Audit logs will be kept in the database.

### 查复报文录入 SHTC Reply Message Input

**Function Description:**

* The system will display all the unprocessed inbound inquiry messages.
* The user can pick out one inquiry message and input the reply message.
* Once the user submits the reply message, it will be sent out to PBOC immediately.
* Audit logs will be kept in the database.

### 自由格式报文录入 SHTC Free Format Message Input

**Function Description:**

* Provide a pop-up search box for the SHTC bank code.
* Once the user submits the free format message, it will be sent out to PBOC immediately.
* Audit logs will be kept in the database.

### 自由格式回执报文录入 SHTC Free Format Reply Message Input

**Function Description:**

* Display all the SHTC inbound free format messages that require reply messages.
* The user can pick out one free format message and input the reply message.
* Once the user submits the free format reply message, it will be sent out to PBOC immediately.
* Audit logs will be kept in the database.

## 其他 Others

### 同城行内转账修改SHTC Internal Transfer Modification

**Function description:**

* When a transfer is rejected during verification, user can modify the transfer details and resubmit. Or user can cancel the transfer.
* Modified transfers need to be verified.
* Audit logs will be kept in the database.

### 同城记账未应答交易停止SHTC Pending Transaction Stop

* The interface system will display all the transactions which are pending for GBS responses.
* Users can stop the pending transactions.
* Once a transaction is stopped, it will not be sent out to PBOC even if the GBS response is received.
* Audit logs will be kept in the database.

# 复核 Verification

## 同城支付类报文复核 SHTC Payment Verification

### 同城贷记往账复核 SHTC Outbound Payment Verification

**Function description:**

* Display all the SHTC outbound payments which need verification, both manual outbound payments and outbound payments from GBS.
* Users can filter by multiple inquiry conditions
* There is a mandatory condition ‘Member flag’ (0- SHTC member (Electronic payment); 1- NOT SHTC member (Giro voucher));
* Users are able to verify the valid payment.

1. If the previous action is input or modification, then the transaction will be waiting for authorization after verification.
2. If the previous action is cancellation, then the transaction status will be set to cancelled. And if the transaction is from GBS, an NAK2 will be sent to GBS.

* Users are able to reject the invalid outbound payment, and then the transaction can be modified or cancelled in SHTC Outbound Payment Modification function.
* Manual payments need verification and authorization from different users. GBS payment doesn’t require double check.
* Total number and total amount of selected transactions will be showed on the screen.
* The users for input and verification can’t be the same person.
* Audit logs will be kept in the database.

### 同城贷记来账授权 SHTC Inbound Payment Authorization

**Function description:**

* Display all the SHTC inbound transactions which have been repaired.
* Users are able to filter by multiple inquiry conditions.
* Users are able to authorize the valid inbound payment.
  1. If the user wants to credit the client account, an accounting entry (Dr: clearing Cr: client) will be sent to GBS.
  2. If it is a suspense, an accounting entry (Dr: clearing Cr: transit) will be sent to GBS. Then transaction can be modified or cancelled in SHTC Suspended Inbound Payment Process function.
* Users are able to reject an invalid inbound payment, and then the transaction will go to the repair queue for manual intervention.
* The users for input and authorization can’t be the same person.
* Audit logs will be kept in the database.

### 同城贷记来账挂账待处理授权 SHTC Suspended Inbound Payment Process Authorization

**Function description:**

* Displays all the SHTC suspended inbound payments which need authorization.
* Users can filter by multiple inquiry conditions.
* Users can authorize valid actions:
  1. If the user decides to credit the client account, an accounting entry (Dr: transit Cr: client) will be sent to GBS.
  2. If the previous action is to set the payment status to complete directly, the transaction will complete without generating the account entry. The user needs to manually enter the accounting entry in GBS.
* Users can reject invalid actions. The transactions can be modified or cancelled in SHTC Suspended Inbound Payment Process function.
* The users for input and authorization can’t be the same person.
* Audit logs will be kept in the database.

### 同城贷记往账停止交易待处理授权 SHTC Stopped Outbound Payment Process Authorization

**Function description:**

* Displays all the SHTC stopped payments which need authorization.
* Users can filter by multiple inquiry conditions.
* Users can authorize valid actions.
* The users for input and authorization can’t be the same person.
* Audit logs will be kept in the database.

### Giro Voucher往账复核 Outbound Giro Voucher Verification

**Function description:**

* Display all outbound Giro Vouchers which need verification.
* Users can filter by multiple inquiry conditions.
* Users are able to verify the valid payment.

1. If the previous action is input or modification, then the transaction will be waiting for authorization after verification.
2. If the previous action is cancellation, then the transaction status will be set to cancelled.

* Users are able to reject the invalid outbound Giro Voucher, and then the transaction can be modified or cancelled in Outbound Giro Voucher Modification function.
* Payments need verification and authorization from different users.
* Total number and total amount of selected transactions will be showed on the screen.
* The users for input and verification can’t be the same person.
* Audit logs will be kept in the database.

### Giro Voucher来账复核 Inbound Giro Voucher Verification

**Function description:**

* Display all SHTC inbound Giro Voucher payments which need verification.
* Users can filter by multiple inquiry conditions.
* Users are able to verify the valid payment.

1. If the previous action is input or modification, then the transaction will be waiting for authorization after verification.
2. If the previous action is cancellation, then the transaction status will be set to cancelled.

* Users are able to reject the invalid inbound Giro Voucher, and then the transaction can be modified or cancelled in Inbound Giro Voucher Modification function.
* Payments need verification and authorization from different users.
* Total number and total amount of selected transactions will be showed on the screen.
* The users for input and verification can’t be the same person.
* Audit logs will be kept in the database.

## 其他复核 Other Verification

### 同城行内转账授权 SHTC Internal Transfer Authorization

**Function description:**

* Display all the internal transfer transactions which have been repaired.
* Users are able to filter by multiple inquiry conditions.
* Users are able to authorize the valid internal payment, and then an accounting entry (Dr: clearing Cr: client) will be sent to GBS.
* Users are able to reject the invalid internal payment, and then the transaction will go to the repair queue for manual intervention.
* The users for input and authorization can’t be the same person.
* Audit logs will be kept in the database.

## 支付类报文授权 Payment Authorization

### 同城往账交易授权 SHTC Outbound Payment Authorization

**Function description:**

* Display all the SHTC outbound payments which need authorization.
* Users can filter by multiple inquiry conditions.
* There is a mandatory condition ‘Member flag’ (0- SHTC member (Electronic payment); 1- NOT SHTC member (Giro voucher));
* Users can authorize at a single or batch level. Batch level authorization is only available for GBS payment.
* If it is a payment from GBS, after authorization, the payment will be sent out to PBOC immediately.
* If it is a manual outbound payment which needs posting accounting entry in GBS, after authorization, an accounting entry will be sent to GBS (Dr: client, Cr: clearing). The payment will be sent to PBOC when TopBridge receives an ACK2 from GBS.
* If it is a manual outbound payment which does not need posting accounting entry in GBS, after authorization, the payment will be sent out to PBOC immediately.
* If it is an payment return, TopBridge needs to judge whether the payment has been suspended already or not.

1. If suspended, the payment will be sent to PBOC and an accounting entry (Dr: transit Cr: clearing) will be sent to GBS after authorization.
2. If not suspended, the payment will be sent to PBOC and another accounting entry (Dr: clearing Cr: clearing) will be sent to GBS after authorization.

* TopBridge will check the user’s ceiling amount when he authorizes the transactions. If the transaction amount exceeds the ceiling amount, the transaction cannot be authorized.
* Audit logs will be kept in the database.
* The users for input, verification and authorization must be different persons.

### 同城往账再发送 SHTC Rejected Outbound Payment Resend

**Function description:**

* Display all the rejected SHTC outbound payments.
* Users can resend or cancel the rejected payments.

1. If the user resends the payment, the payment will be sent to PBOC with no accounting entry posted to GBS. The transaction details can be modified in this function, after modification the transaction needs to be authorized before release.
2. If the user cancels the payment, the payment status will be set to cancelled. If it’s a manual outbound payment which have posted entry in GBS, or an outbound payment from GBS, a NAK2 will be sent back to GBS.

* Audit logs will be kept in the database.

### Giro Voucher往账授权 Outbound Giro Voucher Authorization

**Function description:**

* Display all the outbound Giro Vouchers which need authorization.
* Users can filter by multiple inquiry conditions.
* SHTC will check the user’s ceiling amount when he authorizes the transactions. If the transaction amount exceeds the ceiling amount, the transaction cannot be authorized.
* After authorization, the accounting entry will be sent out to GBS.
* The users for input and authorization must be different persons.
* Audit logs will be kept in the database.

### Giro Voucher来账授权 Inbound Giro Voucher Authorization

**Function description:**

* Display all the inbound Giro Voucher transactions which need authorization.
* Users can filter by multiple inquiry conditions.
* SHTC will check the user’s ceiling amount when he authorizes the transactions. If the transaction amount exceeds the ceiling amount, the transaction cannot be authorized.
* After authorization, the accounting entry will be sent out to GBS.
* The users for input and authorization must be different persons.
* Audit logs will be kept in the database.

# 查询 Inquiry

## 同城支付业务查询 SHTC Payment Inquiry

### 支付往账查询 Outbound Payment Inquiry

**Function description:**

* Display all the outbound transactions.
* Display the transaction status, accounting status and transaction details.
* Display the reject reason.
* Display the user id for input, verification and authorization.
* Display the time when the transaction is entered, verified and authorized.
* Users can filter by multiple inquiry conditions.
* There is a mandatory condition ‘Member flag’ (0- SHTC member (Electronic payment); 1- NOT SHTC member (Giro voucher));
* Users can copy one transaction details to generate a new payment.
* Users can print out the transaction details.

### 支付来账查询 Inbound Payment Inquiry

**Function description:**

* Display all the inbound SHTC transactions.
* Display the transaction status, accounting status and transaction details.
* Display the reject reason.
* Display the return reason.
* Display the user id for input and authorization.
* Display the time when the transaction is entered and authorized.
* Users can filter by multiple inquiry conditions.
* There is a mandatory condition ‘Member flag’ (0- SHTC member (Electronic payment); 1- NOT SHTC member (Giro voucher));
* Users can print out the transaction details.

## 同城信息业务查询 SHTC Info Transaction Inquiry

### 同城查询书查询 SHTC Inquiry Message Inquiry

**Function description:**

* Display all the SHTC inbound & outbound inquiry messages.
* Display the inquiry message details.
* Inquiry message details can be printed.

### 同城查复书查询 SHTC Reply Message Inquiry

**Function description:**

* Display all the SHTC inbound & outbound reply messages.
* Display the reply message details.
* Reply message details can be printed.

### 自由格式报文查询 SHTC Free Format Message Inquiry

**Function description:**

* Display all the SHTC inbound & outbound free format messages.
* Display the free format message details.
* Free format message details can be printed.

### 同城汇总对账查询SHTC Reconciliation Summary Inquiry

**Function description:**

* Display the reconciliation summary report.

### 同城明细对账查询SHTC Reconciliation Details Inquiry

**Function description:**

* Display the reconciliation details.

### 同城资金清算查询SHTC Settlement Inquiry

**Function description:**

* Display the SHTC settlement.

### 同城账户信息变更查询SHTC Account Information Changes Inquiry

**Function description:**

* Display the SHTC Account information changes.

## 其它 Others

### 同城行内转账查询 SHTC Internal Transfer Inquiry

**Function description:**

* Display all the SHTC internal transfers.
* Display the transaction status, accounting status and transaction details.
* Display the user id for input and verification.
* Display the time when the transaction is entered and verified.
* Users can filter by multiple inquiry conditions.
* Users can print the transaction details.

### 同城行号行名查询 SHTC Bank Code Inquiry

**Function description:**

* Display the SHTC bank code information.
* Users can search by multiple criteria.

### 待处理业务查询 Pending Transaction Inquiry

**Function description:**

* Display the summary of all the pending transactions.

### 记账交易明细查询 Accounting Entry Inquiry

**Function description:**

* Display all the accounting entry details.
* Display the accounting status.
* Users can search by multiple criteria.

### 同城来账凭证补打 SHTC Credit Advice Re-Printing

**Function description:**

* Users can re-print the SHTC credit advice.

### 同城来账凭证补打授权 SHTC Credit Advice Re-Printing Authorization

**Function description:**

* Users need to authorize the re-print of the credit advice.

### 同城借记回单打印 SHTC Debit Advice Printing

**Function description:**

* Users can print debit advices for all SHTC debit transactions that the interface system process.

### 同城借记回单重打授权 SHTC Debit Advice Re-Printing Authorization

**Function description:**

* Users need to authorize the re-print of the debit advice.

### Giro Voucher往账打印 Giro Voucher Printing

**Function description:**

* Users can print out the authorized outbound Giro Voucher. If it’s not the first time to print, need another user’s authorization.

### Giro Voucher往账重打授权 Giro Voucher Re-Printing Authorization

**Function description:**

* Users need to authorize the re-print of the Giro Voucher.

# 报表 Reports

## 同城报表 SHTC Reports

### 同城汇总日报表 SHTC Inbound & Outbound Transactions Daily Summary Report

**Function description:**

* Display the daily total number of outbound and inbound SHTC settled transactions.
* Display the daily total amount of outbound and inbound SHTC settled transactions.
* The report can be printed and downloaded as CSV format.

### 同城汇总月报表 SHTC Inbound & Outbound Transactions Monthly Summary Report

**Function description:**

* Display the monthly total number of outbound and inbound SHTC settled transaction.
* Display the monthly total amount of outbound and inbound SHTC settled transaction.
* The report can be printed and downloaded as CSV format.

### 同城汇总季报表 SHTC Inbound & Outbound Transactions Quarterly Summary Report

**Function description:**

* Display the quarterly total number of outbound and inbound SHTC settled transactions.
* Display the quarterly total amount of outbound and inbound SHTC settled transactions.
* The report can be printed and downloaded as CSV format.

### 同城汇总年中报表 SHTC Inbound & Outbound Transactions Mid-of-year Summary Report

**Function description:**

* Display the mid-of-year total number of outbound and inbound SHTC settled transactions.
* Display the mid-of-year total amount of outbound and inbound SHTC settled transactions.
* The report can be printed and downloaded as CSV format.

### 同城汇总年报表 SHTC Inbound & Outbound Transactions Yearly Summary Report

**Function description:**

* Display the yearly total number of outbound and inbound SHTC settled transactions.
* Display the yearly total amount of outbound and inbound SHTC settled transactions.
* The report can be printed and downloaded as CSV format.

### 同城支付来账日报表 SHTC Inbound Transactions Daily Report

**Function description:**

* Display the daily inbound SHTC transactions.
* The report can be printed and downloaded as CSV format.

### 同城来账监控报表 SHTC Inbound Transactions Monitoring Daily Report

**Function description:**

* Display the daily inbound SHTC transactions which hit the monitoring keywords.
* The report can be printed and downloaded as CSV format.

## 其它 Others

### 同城行内转账日报表 SHTC Internal Transfer Report

**Function description:**

* Display the daily internal transfer details.
* The report can be printed and downloaded as CSV format.

### 同城黑名单监控报表 SHTC Blacklist Monitoring Report

**Function description:**

* Display daily SHTC transactions that have failed blacklist validation.
* Display whether the transactions were released or not.
* The report can be printed and downloaded as CSV format.

### 同城当日发往GBS交易失败报表 GBS Process Failure Report

**Function description:**

* Display all daily transactions that have failed generating accounting entry in GBS.
* The report can be printed and downloaded as CSV format.

### 系统操作员登录失败信息日报表 User Logon Failure Report（\*）

**Function description:**

* Display the user logon failure details.
* The report can be printed and downloaded as CSV format.

### 操作员信息维护日志报表 User Info Maintenance History Report（\*）

**Function description:**

* Display the user ID maintenance history in the TopBridge system.
* The report can be printed and downloaded as CSV format.

### 操作员业务操作日志报表 User Activity History Report（\*）

**Function description:**

* Display the user activity history in the TopBridge system.
* The report can be printed and downloaded as CSV format.

# Performance, Capacity & Security

* TopBridge system can be accessed from a variety of physical locations for both operational usage and system support.
* TopBridge system will track and store all of the user and system activities for audit purposes. All actions resulting in a change must be logged in the application's database and attributable to either an approved process ID or individual. This information includes transaction data and must be available in the system for one year and then downloaded to tape.
* The time for the system to process a payment (from arriving in GBS to being released to SHTC clearing & from receiving in SHTC to credit to client accounts with BOA) will be less than 3 minutes when the transaction STP.
* TopBridge system is able to accommodate processing of up to 6000 payments per hour at peak time.
* TopBridge system is able to support processing of up to 2,000,000 transactions per year.
* TopBridge system can be accessed from 8am-7pm on working days.
* TopBridge system is able to support 50 concurrent users.
* HT will provide adequate support for the interface system during normal working hours (8am to 7pm)
* HA will be implemented for TopBridge system.
* All hardware and software changes must be compliant with BOA’s policies. HT will provide detailed information on hardware, software and network design.
* Transmissions of confidential data outside of the Bank's internal network will meet appropriate information security requirements.
* The user interface should be SSO fronted if possible.
* HT will supply all database schemas and any additional information required to access the data in the system database.
* All relevant EIM Baseline and Standard requirements will be met.
* HT will assist BOA on PBOC inspection.
* HT will provide the design details to BOA, and then BOA can review the documents against the Bank's Application Development, Authentication, Confidentiality, Electronic Data and File Transfer Standards.