

(Version 1.0)

[RHEA VENDORS | CHINA CNBx MODELS PAYMENT PROJECT]

PROTOCOL FILE

[PROJECT NUMBER: 19-RETAIL-RHEACNtsdp001]

rheavendors group O

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Company	RHEA VENDORS	RHEA VENDORS CHINA						
Project	CNBx MODELS P.	CNBx MODELS PAYMENT PROJECT						
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Date	Modified	Description	Type	Editor	Version			
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RHEA CNBx PAYMENT PROJECT PROTOCOL

I. **INTRODUCTION**

Server Address

- 1.1 Server IP address: 180.166.211.217
- 1.2 Server port: 6019
- 1.3 Description: The TCP connection timeout is 180 seconds, and the heartbeat package is recommended to be: 30 seconds or 40 seconds.

After the abnormal disconnection, check-in command (or Login Authorization) must be sent before each command can be sent, otherwise the system will force the current device to go offline - the server will automatically disconnect.

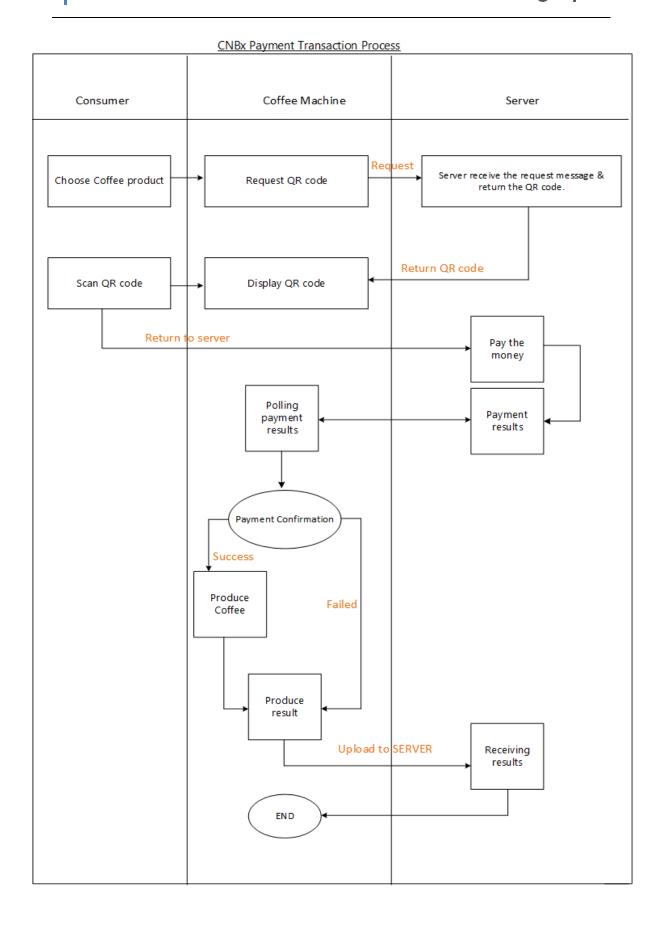
Signature key

2.1 KEY: 1648339973B547DC8DE3D60787079B3D

CNBx Payment Transaction Process

Please see the picture as below:





II. COMMUNICATION PROTOCOL FORMAT

	HEAD	ВО	DY	
Machine Number Command Time			Data	Terminator

4. CNBx Machine Check-in

4.1 Encryption mode: MD5

4.1.1 KEY: 1648339973B547DC8DE3D60787079B3D

4.1.2 Encryption Parameter:

HEAD			BODY				
Machine	Command	Time	Version Key		Terminator		
Number			Number				
C20190001	E11	20191029223010	V1.6	48339973B547DC8DE3D60787079B3D	#		

4.2 Coffee machine check-in request

HEAD			BODY				
Machine	Command	Time	Version Key		Terminator		
Number			Number				
C20190001	E11	20191029223010	V1.6	1D240F5E9DF0BE68B3A53373AB249B69	#		

Example:

C20190001|E11|20191029223010|V1.6|1D240F5E9DF0BE68B3A53373AB249B69#

4.3 Server Return Instruction

	HEAD	BODY		
Machine	Command	Time	Status	Terminator
Number				
C20190001	E11	20191029223012	0	#

4.4 Check-in Result

Normal: 0

Error: 1

Machine not Registered: 2

Machine offline: 3

Example: C20190001|E11|20191106200950|2#



5. Heartbeat Instruction

The heartbeat package is recommended to be sent once every 30 seconds or 40 seconds to ensure normal connection.

	HEAD	BODY		
Machine	Command	Time	Status	Terminator
Number				
C20190001	E12	20191029223010	0	#

Example: C20190001|E12|20191029223010|0#

5.1 Server Response Instruction

	HEAD	BODY		
Machine	Command	Time	Status	Terminator
Number				
C20190001	E12	20191029223012	0	#

Example: C20190001|E12|20191029223012|0#

6. Consumer Selection

6.1 QR Code Request Instruction

	HEAD		BODY			
Machine	Command	Time	Product Name	Product	Price	Terminator
Number				Number		
C20190001	E13	20191029223010	Latte	12	3.5	#
			Macchiato			

Price unit: RMB, Yuan 元

Example: C20190001|E13|20191029223010|Latte Macchiato|12|3.5#

DATE: November 13, 2019



6.2 QR Code Request Response Instruction

HEAD							
Machine Number	Command	Time	Order Number	Countdown (Seconds)	QR Code Address	Payment Method	Terminator
C20190001	E13	20191029223010	20191029224 01366789	60	http://xxx.xxx. xxx.xxx/ qr/code	Wechat* Alipay* Unionpay QR Code	#

Example:

C20190001|E13|20191111201427|C2019000120191111201426584|https://qr. 95516.com/48020000/315419111111111427205299235|Wechat*Alipay*Unionpay |#

6.3 Server Response Instruction

	HEAD	BODY		
Machine	Command	Time	Status	Terminator
Number				
C20190001	E13	20191107083906	EE	#

Example: C20190001|E13|20191107083906|EE|EE#

Note: When the server replies that the returned result is EE, it indicates that the QR code generates an exception.

7. Order Status Inquiry

7.1 Order Status Polling Instruction

	HEAD		BODY		
Machine	Command	Time	Order Number	Terminator	
Number					
C20190001	E14	20191029223010	2019102922401366789	#	

7.2 Request Instruction

Example: C20190001 | E14 | 20191029223010 | C2019000120191111201426584#

7.3 Test Address (Actual test address, TEST ONLY!!!)

http://180.166.211.217:6018/mpos/setOrderState/订单号/订单状态 http://180.166.211.217:6018/mpos/setOrderState/C2019000120191111201426584/3

7.4 Server Return Instruction

HEAD			BODY			
Machine	Command	Time	Order Number	Order Status	Terminator	
Number						
C20190001	E14	20191029223010	2019102922401366789	3	#	

Order Status Description:

Order Initialization: 1

Consumer has Scanned QR Code: 2

Payment Succeeded: 3

7.5 Server Response Instruction

Example:

C20190001|E14|20191111201904|C2019000120191111201426584|3#

8. Order Delivery Status Upload

HEAD			BODY		
Machine	Command	Time	Order Number	Delivery Status	Terminator
Number					
C20190001	E15	20191029223010	2019102922401366789	0	#

Order Upload:

Order Delivery Success: 0

Order Delivery Failed: 1

Order Delivery Timeout: 2

8.1 Request Instruction

Example:

C20190001|E15|20191029223010|C2019000120191111201426584|0#

8.2 Server Return Instruction

HEAD			BODY			
Machine	Command	Time	Order Number	Receiving Status	Terminator	
Number						
C20190001	E15	20191029223010	2019102922401366789	0	#	

Receiving Status:

Success: 0

Failed: 1

8.3 Server Response Instruction

Example:

C20190001|E15|20191111202853|C2019000120191111201426584|0#

Note: When the server returns to receive status 1, the coffee machine needs to save the data until the upload is successful.

END.