

2015

wiGroup wiCode Platform Integration Walkthrough



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2 wiCode Platform Technical Architecture





2 wiCode Platform Technical Definitions



wiCode

- A transaction token which is generated by the wiCode Platform and issued by a VSP to the consumer.
- Can take the form of a number, QR code or BIN.

Value Store Provider (VSP)

- Any mobile application or digital entity which houses a store of value.
- Could be a bank account, loyalty wallet voucher, etc.

POS

- Any solution which communicates with the wiCode platform to authorise or query transactions



3 wiCode Platform Supported Transaction Protocols

'Over the counter' transactions

- Customer / mobile app user will generate a wiCode using their wiCode-enabled mobile app.
- Point of sale / cashier will scan or manually enter the wiCode.
- Point of sale will authorise the transaction through the wiCode platform.



'Sit down' transactions

- Point of sale will generate a unique wiGroup QR on the till slip
- Customer / mobile app user will scan the wiGroup QR using their wiCode-enabled mobile app.
- App will process payment through the wiCode Platform
- Point of sale will confirm payments made against the unique QR through the wiCode Platform.







The following walkthrough will detail the point of sale user interface and technical webservice flows required to perform an over the counter transaction, where a customer will present a QR code (app or card) or a mobile voucher number (called a wiCode).







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Table:	100) B/No	INV201				
TOTAL			In your list of a	vailable tender	s, you		٩
	(ì)			will now have an additional tender type called wiCode. All wiCode payment, loyalty and redemption			4
			transactions wi this tender typ	ill be processed e.	l using		3
Cash	E	FT/Cards	wiCode	ESC	0		ENTER







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Table:	100 B/No: INV201						
	Once the wiCode has been scanned, the POS should automatically send the transaction to the wiCode Platform for authorization.						
\odot	'Go' / 'Next' / 'Send' etc.						
	Remember to include all required fields. An example of the transaction request which should be sent to the wiCode platform at this point is displayed next.						
Cash	EFT/Cards wiCode ESC U ENTER						



(Ì)	<soapenv:envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap /envelope/" xmlns:pos="http://posprovider.te.wigroup.com/"> <soapenv:header></soapenv:header> <soapenv:body> <pos:transaction> <request> <apicredentials> <id>POS_20</id> <password>yourpassword/password> </password></apicredentials> <type>PAYMENT</type> <basketamount>1500</basketamount> <cashbackamount>0</cashbackamount> <totalamount>0</totalamount> <totalamount>1500</totalamount> <switchtrxid><<token> <id>1122345</id> <type>WICODE</type> </token> </switchtrxid></request></pos:transaction></soapenv:body></soapenv:envelope 	 <basketid>INV201</basketid> <cashierid>John Smith</cashierid> <posid>POS2</posid> <remotestoreid></remotestoreid> <retailerid></retailerid> <storeid>1050</storeid> <trxid>123456789</trxid> <products> <id>1111</id> <priceperunit>1000</priceperunit> <units>1</units> <id>2222</id> <product> <id>2222</id> <product> </product> </product> </br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></products>	
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Table:	10	wiCode Transaction Result	
TOTAL		Remember, a successful response does not indicate that the total amount has been processed. Some VSPs, such as deal apps, will only process a portion	9
	(ì)	of the requested value. The totalAmountProcessed field will indicate what has been processed.	4
		If loyalty earned is present in the Transaction response, it should be displayed. The blue underlined fields in the example are dynamically populated from the response	3
Cas	sh E		NTER















Transaction 2: successful

100	B/No:	INV201			
	R15.00 -R5.00 -R10.0)) 0	7	8	9
DUE:	R00.0	0	4	5	4
			1	2	3
EFT/C	Cards	wiCode	ESC	0	ENTER
	100 DUE: EFT/C	100 B/No: R15.00 -R5.00 -R10.0 DUE: R00.0	100 B/No: INV201 R15.00 -R5.00 -R10.00 DUE: R00.00 EFT/Cards wiCode	100 B/No: INV201 R15.00 -R5.00 -R10.00 DUE: R00.00 4 1 EFT/Cards wiCode ESC	100 B/No: INV201 R15.00 -R5.00 7 8 DUE: R00.00 4 5 DUE: R00.00 4 5 EFT/Cards wiCode ESC 0



Transaction 2: successful

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Transaction 2: successful

100	B/No:	INV201			
	R15.00 -R5.00 -R10.0)) 0	7	8	9
DUE:	R00.0	0	4	5	4
			1	2	3
EFT/C	Cards	wiCode	ESC	0	ENTER
	100 DUE: EFT/C	100 B/No: R15.00 -R5.00 -R10.0 DUE: R00.0	100 B/No: INV201 R15.00 -R5.00 -R10.00 DUE: R00.00 EFT/Cards wiCode	100 B/No: INV201 R15.00 -R5.00 -R10.00 DUE: R00.00 4 1 EFT/Cards wiCode ESC	100 B/No: INV201 R15.00 -R5.00 7 8 DUE: R00.00 4 5 DUE: R00.00 4 5 EFT/Cards wiCode ESC 0



Transaction 2: successful





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Transaction 1: successful Transaction 2: successful Now that the **real-world** transaction has been completed, <pos:advise> <request> the point of sale should send a <apiCredentials> Transaction Advice to the wiCode <id>TEST</id> <password>0873d391e987982fbbd3</password> platform, finalising the wiCode </apiCredentials> <action>FINALISE</action> transactions. There should be an <originalTrx> <storeTrxDetails> advice sent for each transaction <basketId>12</basketId> performed, using the wiTrxId <cashierId>ADMIN</cashierId> <posId>0011</posId> received in the transaction <storeId>1050</storeId> <trxId>12</trxId> response. In this example, the </storeTrxDetails> <type>PAYMENT</type> POS would send 2 transaction <wiTrxId>3843</wiTrxId> advice requests, as there are two </originalTrx> </request> wiCode transactions that should </pos:advise> be finalized.





The following walkthrough will detail the point of sale user interface and technical webservice flows required to perform a sit down transaction, where a customer will scan a QR printed on the bill to make a payment.

In the following example, two customers order a pizza and a pasta, and make two separate payments against the bill.





















wiCafe							
Staff: Table:	Max 1						
1 Pizza 1 Pasta	R 70.00 R 85.00						
Total	Total R 155.00						
Pay by sca	enning this QR code.						











Once the customers have paid, the waitron will confirm payment at point of sale













Table:	100) B/No	: 1			
TOTAL			In your list of a	vailable tender	s, you	9
		(ì)	will now have an additional tender type called wiCode. All wiCode payment, loyalty and redemption			4
				ill be processec e.	d using	3
Cash	E	FT/Cards	wiCode	ESC	0	ENTER



Т	able:	100	B/No:	INV201	
		For the f been sel using the that was Rememb informat of the <i>tre</i> wiCode	sit down' ected, the e same inf generated per to inclu- cion that wansaction platform a	implementati POS should p formation whi d specifically ude all require vas used to cre <i>history reque</i> at this point is	tion, when the wiCode tender has perform a <i>transaction history request</i> hich was imbedded in the QR code for this table / bill. red fields, and to use the same reate the bill's QR code. An example <i>est</i> which should be sent to the s displayed next.
	Cash	EFT/	Cards	wiCode	



 <soapenv:envelope< li=""> xmlns:soapenv="http://schemas.xmlsoap.ou/envelope/" xmlns:pos="http://posprovider.te.wigroup.oc <soapenv:header></soapenv:header> <soapenv:body></soapenv:body> <pos:transaction></pos:transaction> <request></request> <apicredentials></apicredentials> <id><id>POS_20</id></id> <password>yourpassword/password></password> <type>PAYMENT</type> <basketamount>1500</basketamount> <cashbackamount>0 <tipamount>0</tipamount> <totamount>1500</totamount> <totamount></totamount> <totamount><</totamount></cashbackamount></soapenv:envelope<>	
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Time App	Time	Tip Amount	Total Amount
18:35 Flickpay	18:35	R5.00	R25.00
18:34 MTN Mobile Money Re	18:34	R5.00	R25.00
18:35 Flickpay 18:34 MTN Mobile Money	18:35 18:34	R5.00 R5.00	R25.00 R25.00



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