

Fourth Generation Prepayment Solutions



Prepayment Management and Vending



About the Company

Utilities World is based in Durban, South Africa and is a specialist provider of utility prepayment vending solutions worldwide. Each of our key staff have been involved in the prepayment industry for over fifteen years and have experience throughout Africa, South America, the Caribbean and South East Asia in system design, development, deployment and maintenance, consulting and turnkey project management.

Our philosophy is to keep our solutions as simple to use as possible, while complying with the latest industry standards and norms. Our model is to deploy a single system in a central location with high availability, redundant infrastructure from which a utility operates via a web interface.

This model allows for a low barrier to entry for the utility – there is very little infrastructure investment required and no maintenance and support costs for local server systems. As the interfaces are web based there is no cost to deploy or update, which is performed remotely.

Product Overview

Our offer is based on the Transact[™] vending product. The system is the only commercially available STS Association approved on-line hosted system which complies with all STS specifications and the Eskom XML-Vend specification for on-line vending. Being a native-XML system ensures efficiency as no translation interfaces to third party providers are required and enables third parties to easily and reliably connect and vend. Communication security is provided by mutually authenticated SSL certificates. The system is entirely web-based, with the Management Client being a web page and the Vending Client being a web application, and is able to run on GPRS data connections without compromising the user experience. The system vends to all STS type electricity and more recently water meters, enabled by our technical partnership with Utility Systems Inc., where we have combined our prepayment and vending expertise with their tried and tested Water Management Device (WMD).

In the South African context our servers are hosted by Internet Solutions in their data centre in Umhlanga, Durban, with redundant servers hosted in their Bryanston data centre. IS guarantees 99.9% availability and uptime with redundant power and data connectivity. Users access the system to manage customer data and to vend via any available internet connection, which we can supply, if necessary.

International customers may leverage on our hosted infrastructure; should there be a requirement to deploy locally this may be done, based on our approval of the environment into which the system will be installed.

Efficient Operations

The ability to log into the system and update customer data over any internet connection allows for utility staff to work remotely from the office environment, which is especially useful over holidays and weekends where staff do not have to travel to the office in order to perform emergency customer updates such as meter changes. Further to this Engineering tokens are available from the management system interface and may be printed or SMSed directly to technicians in the field to update meter details.

The system utilises a single database and once updates are performed to a customer's record they are immediately available for vending without having to perform any secondary tasks such as transfers or synchronisation.



Our system has an advantage over its traditional predecessors in that it is maintained and updated centrally. All Management Client updates are made to the web page and Vending Client web application updates are automatically deployed at system start-up to the client. This reduces maintenance costs for the client as there are no costly callouts required to perform these upgrades and updates. In addition the deployment of new vending systems is easily managed by the client IT staff as the only intervention required from Utilities World is the provision of a new SSL certificate for the client.

Tariffs

The implementation of inclining block tariffs (IBT) has been catered for and the change to these tariffs is simple and seamless. Any of the existing prepaid tariffs may be converted to a block tariff at any time. The system is capable of allowing customer tariff change without having to change the meter tariff, allowing for individual or bulk updates (such as indigent status addition and removal) without having to perform meter key changes.

Vending Options

Vending may be from utility managed PC based terminals connected to the back-end system over the internet. The vending web application auto-updates itself from our deployment web-server minimising maintenance requirements. The system uses a standard keyboard and mouse and an optional ISO STS swipe card reader as input devices and prints to an industry standard Epson slip printer, either impact or thermal type. This type of vending is suitable for revenue halls and other high-volume sales points. The application may be installed on existing computers such as utility receipting systems in order to reduce cubicle footprint.



Optionally Utilities World can supply handheld POS terminals. This is ideal for low to medium volume sales points or as a back-up device. The POS connects over the internet via GSM GPRS to the back-end system.





Third Party Channels (RSA Only)

We are connected real-time to EasyPay and Blue Label Technologies and are able to offer third party vending services at all enabled outlets. This includes all Pick n Pay and Shoprite stores, Boxer stores, Spar stores as well as the majority of fuel stations. The use of third party vendors allows customers to purchase at all hours and from multiple points at the likes of the national Pick n Pay outlets, FNB ATM's and on the EasyPay website. Third party sales are settled twice monthly to clients using a simple and transparent remittance and payment process.

Reports

A standard, comprehensive, set of reports is supplied, if however there is a need for additional or customised reports these will be designed and deployed for the client as a part of the implementation process. All reports are updated on-line and are available immediately to the user. All reports may be printed or exported to Excel or PDF directly from the user interface, making distribution of data simple and efficient. In addition reports may be auto-mailed to recipients on a periodic basis. Our standard report set includes but is not limited to:

- Transactions by customer, vending point
- Sales summaries by day and month
- A monthly management summary
- Exception reports showing low and no buying



Sales Data

http://ww	ww.utilitiesworld	I.co.za/Vending/Trar	nsactMS/F	Reports/Report[Display.aspx	?/Transact3	0/Transactio	ons/Transaction	is by Date									
Region:	Sundays Riv	er Valley Municipalit	ty 💌	Show Summ	ary Only?	No												
From Date	e 2012/02/02			To Date		2012/02/0	2											View Report
14 4	1 of 7 🖓	21 4	100%			treat Lenau		0 #									10	
	201100 - 201	10.78	100 /0			No. 1		w 100										
		by Date																
or the peri	iod 2 February 2	012 to 2 February 2	2012															
Ferminal Sal	les Summary			Prepaid Sale			EBSST Issue		Total Sa	ales								
		User Name	Qty	Value	Energy kWh	Qty	Value	Energy kWh	Value	Energy kWh								
Bergsig Offic	e VU02	AFRIKA	34	525.00	713.8	30		1,500.0	525.00	2,213.8								
EASYPAY		ThirdParty	1	50.00	68.2	1		50.0	50.00	118.2								
Spar		Gwen	52	3,825.00	4,686.3	47		2,350.0	3,825.00	7,036.3	4							
Sundays Rive	er Valley	vuyiseka SUSAN	28	2,350.00	2,924.1	26		1,300.0	2,350.00	4,224.1								
Municipality		DUDMIN	1	200.00	261.7	1		50.0	200.00	311.7								
lotal			116	6,950.00	8,654.1	105	3,778.55	5,250.0	6,950.00	13,904.1								
erminal: EA	ASYPAY - 6008800	000439-1																
FranNo	User	Tran Date Time	Tra	an Type	Ac	count No	Custome	r Name	Met	er Number	TI	Amount	VAT	Cost Of Units	Units	Utility		
125361-1	ThirdParty	02-02-2012 06:59	Pre	epaid Sale	00	2063503	GEYER		042082	08498	9	50.00	6.14	43.86	68.2	kWh		
425361-2	ThirdParty	02-02-2012 06:59	EB	SST Issue	00	2063503	GEYER		042082	08498	9	0.00	0.00	0.00	50.0	kWh		
	n da se Di se Malia	y Municipality VU01	(1)11	FF16F 679 (940)							Total	50.00	6.14	43.86	118.2			
franNo	User	Tran Date Time		an Type	Ar	count No	Custome	r Name	Met	er Number	TI	Amount	VAT	Cost Of Units	Units	Utility		
2071-1	SUSAN	02-02-2012 09:07		epaid Sale		2015600	NAIDOO	- Hume	041729		1	200.00	24.56	175.44	261.7	kWh		
2072-1	SUSAN	02-02-2012 11:15	EB	SST Issue	AP	001001480	ELROY		041406	01081	9	0.00	0.00	0.00	50.0	kWh		
											Total	200.00	24.56	175.44	311.7			
		2 - SRVM_OFFICE-SRV																
franNo	User AFRIKA	Tran Date Time 02-02-2012 07:44		an Type		count No	Custome			er Number	TI 9	Amount 10.00	VAT 1.23	Cost Of Units	Units	Utility		
7490-1 7490-2	AFRIKA	02-02-2012 07:44		epaid Sale SST Issue		3995602 3995602	JORDAAN		041380		9	0.00	0.00	8.77	14.0	kWh kWh		
7491-1	AFRIKA	02-02-2012 08:02		epaid Sale		10180300	A & A CA		041563		1	90.00	11.05	78.95	119.8	kWh		
7492-1	AFRIKA	02-02-2012 08:04	Pre	epaid Sale	00	3118800BG	BOESAK		041290	27340	9	5.00	0.61	4.39	7.0	kWh		
7492-2	AFRIKA	02-02-2012 08:04		SST Issue		3118800BG	BOESAK		041290		9	0.00	0.00	0.00	50.0	kWh		
7493-1	AFRIKA	02-02-2012 08:14		epaid Sale		3099700	NDAO/JA		041570		9	15.00	1.84	13.16	20.9	kWh		
7493-2	AFRIKA	02-02-2012 08:14		SST Issue		3099700	NDAO/JA		041570		9	0.00	0.00	0.00	50.0	kWh		
7494-1 7494-2	AFRIKA	02-02-2012 08:32		epaid Sale SST Issue		3108400 3108400	VAN WY		041418		9	5.00	0.61	4.39	7.0	kWh kWh		
7495-1	AFRIKA	02-02-2012 08:32		epaid Sale		3116400	BRANDT		041418		9	10.00	1.23	8.77	14.0	kWh		
7495-2	AFRIKA	02-02-2012 08:45		SST Issue		3116400	BRANDT		041380		9	0.00	0.00	0.00	50.0	kWh		
	AFRIKA	02-02-2012 08:48	Pre	epaid Sale	00	3112700	EFFIE DO	LF	042160	72886	9	20.00	2.46	17.54	27.9	kWh		
7496-1	Pu numos																	

Low Purchase

					Transact3_0/Exceptions/Custor					
Reg	on	Sundays River Valley Mu	inicipality 💌	Period	90					View Re
Pun	h Limit (kWh/k) 200		Include Free Ba	isic Service Issues? Yes					
Peri	od Ending:	2012/02/02		Zone:	AQUAPA	RK 💌				
14	4 1 of	2 > >1 • 1	00% 💌		Prod March 🗸 - 📀	-				
Sur	ndavs Riv	ver Vallev Munici	ipality: Cus	stomer Lo	w Purchase incl F	ree	No purchases or purchases tot	talling less	s than 200kWh	
	sic Servic						for the 90 day perio	d up to 2	February 2012	
rea: 5/No	Account No	Customer Name	Meter No	Open Date	Physical Address 1	Physical Address 2	Last Purch Date	п	Period Units	
1	002000800	T FOURIE	04138005923	2004-09-03				1	0.0	
2	0030015500	WINNAAR	04208208464	2004-05-07	BERGGANS STREET 155	BERGSIG	2012-01-01	9	128.0	
3	001026903	ODURO	04073752455	2004-08-27	29 MIDDLE STREET	KIRKWOOD		1	0.0	
4	002072801	VAN DER MERWE	04106706791	2004-08-27	3 MANDARYN STREET	AQUAPARK		9	0.0	
5	003113300	ANT/JE DAVIDS	04138005592	2004-04-19				9	0.0	
6	DP001014600	NEL	04138005972	2004-12-17	ISABELSTRAAT 4	TOWN		9	0.0	
7	003118000	NELL	04129026516	2004-04-05	17 LOERIE STREET	BERGSIG		9	0.0	
8	002043501	M VAN TONDER	04085438481	2004-09-27				1	0.0	
9	002003302	VILIOEN	04138006749	2004-09-10				9	0.0	
10	001071702	ARISTON GALLANT	04141809923	2004-09-10				9	0.0	
11	003117800	STALMEESTER	04157054182	2004-07-05	16 LORIE STREET	BERGSIG	2012-01-25	9	120.0	
12	001153700	KATIE DOLF	04129027449	2004-04-05			2011-11-09	9	57.0	
13	003994400	ADAMS	04085438630	2004-07-05	44 AREND STREET	BERGSIG		1	0.0	
14	BG136	BRUINTIIES	04138006939	2004-04-19			2012-01-06	9	150.0	
74	002030600	VAN TONDER	04129027191	2004-09-02			2011-09-28	1	0.0	
15		BOOYSEN	04138006871	2004-06-14	AREND STREET 206	BERGSIG		9	0.0	
	003102100			2004-04-19				9	0.0	
15	003102100 003101900	KJ PLAATJIES	04138006764					9	0.0	
15 16		KJ PLAATJIES JG JANSEN	04138006764 04138006798	2004-04-19						
15 16 17	003101900				163 BERGGANS STREET	BERGSIG		9	0.0	
15 16 17 18	003101900 003113900	JG JANSEN	04138006798	2004-04-19	163 BERGGANS STREET	BERGSIG				
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System Architecture



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