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TECHNICAL MANAGER KORTEX PSI

KORTEX PSI PRESENTATION

PRODUCTS AND APPLICATIONS

2018 MAY



INNOVATION



SUMMARY

- Presentation of the company KORTEX
- A complete range of cellular routers
- A great number of M2M applications
- Use case
- KORTEX News
- Future developments
- Essential accessories for 2017

PRESENTATION OF KORTEX COMPANY

Products and services for electronic banking,

M2M, connected object

and energy efficiency

- A French company on a human scale.
- KORTEX PSI is a subsidiary of LYRA NETWORK since 2010.
- 1985 - 2018, more than 30 years of experience in the telecom world.
- Integrated R&D: Hardware developments, software and embedded applications.
- Expertise: Telecoms Point of sales, energy, M2M and connected objects.



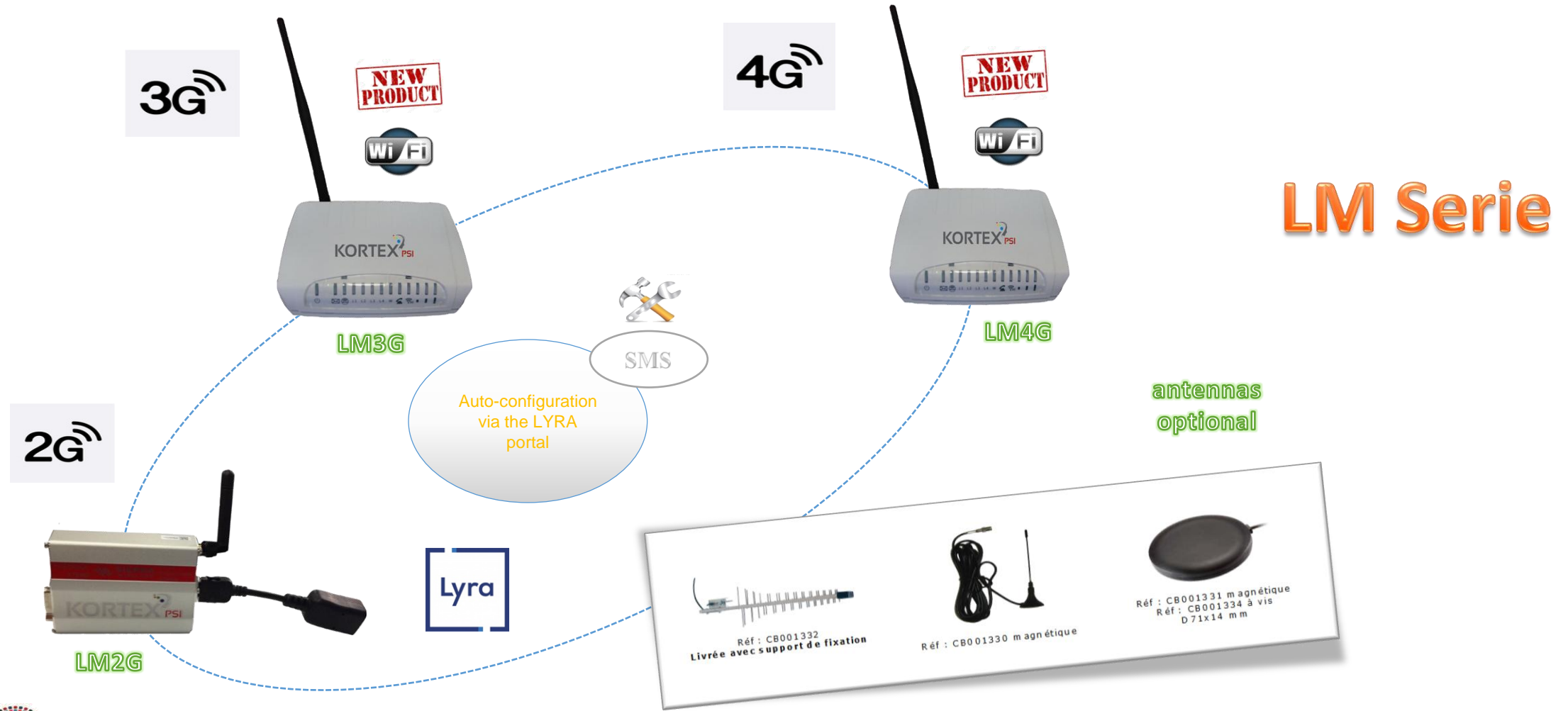
A woman with dark hair, wearing a white button-down shirt, is shown from the waist up, looking upwards and to the right. She appears to be interacting with a futuristic, semi-transparent digital interface. The background is a light blue gradient with faint, abstract shapes and a world map at the bottom right. Overlaid on the right side of the image is a white rectangular box containing a list of use cases, each preceded by a small blue square icon with a white '1' inside. The text is in a dark blue, sans-serif font. At the bottom of the white box, there is a line of text in a lighter blue font.

USE CASE

- Point of sales and CB payments
- Industrial and banking machines
- Charging terminals for electric vehicles
- Energy performance, meter reading
- Energy: management of heating and buildings
- Solar panels, wind farms
- Industries and infrastructures
- Oil, fuel distribution
- PML / PMV dynamic display
- Security / CCTV
- Transport network

A large number of products and business applications, some examples

CELLULAR ROUTERS



Optional DIN rail

OTHER CELLULAR ROUTERS



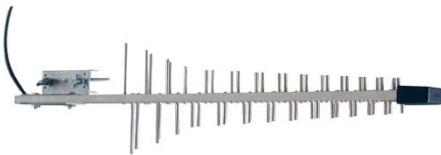
* DIN rail optional

CELLULAR (GPRS-EDGE) AND ANALOG MODEMS



KORTEX ANTENNAS AND ACCESSORIES

KORTEX PSI recommends the use of remote antennas in case of poor coverage, poor reception or fluctuations and instability of 3G / 4G networks at the installation site, these antennas can be used to get a better signal.



Ref: CB001332
Supplied with mounting bracket



Ref: CB001330 magnetic
D47x210 mm



Ref: CB001331 magnetic
Réf : CB001334 to screws
D71x14 mm



* For 4G antennas, please consult us



THE SOLUTION KORTEx / LYRA 2, 3, 4G




The advantages:

- Adapted equipment, configurable from the LYRA portal
- Security (Private APN gprsnac.com or gprsnac.o2.de)
- Billing when activating SIMs
- Creating M2M routes on the portal to an IP address and port
- FTP Proxy, HTTP, SMTP Relay
- WEB 2.0 Portal for SIM management: innovation and performance
- Mutualization of flows by operator: BOUYGUES, SFR, ORANGE, O2




THE LYRA NETWORK 2.0 WEB PORTAL







Gest SIM
Gestion, commande et activation des cartes




Gest IP
Gestion et enregistrement des équipements IP



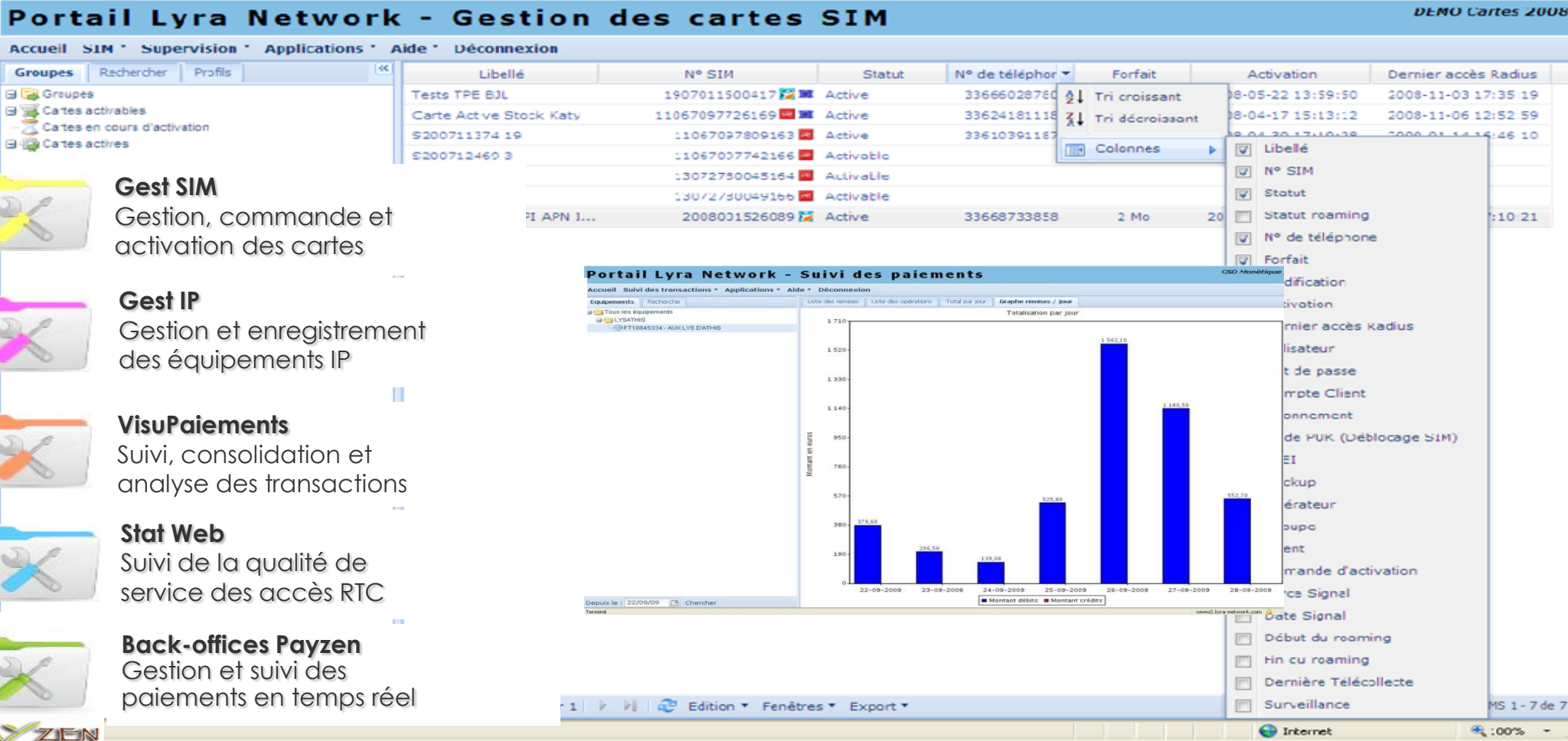
VisuPaiements
Suivi, consolidation et analyse des transactions



Stat Web
Suivi de la qualité de service des accès RTC



Back-offices Payzen
Gestion et suivi des paiements en temps réel



Portail Lyra Network - Gestion des cartes SIM DEMO Cartes 2008

Accueil SIM * Supervision * Applications * Aide * Déconnexion

Groupes Rechercher Profils

- Groupes
- Cartes activables
- Cartes en cours d'activation
- Cartes actives

Libellé	N° SIM	Statut	N° de téléphone	Forfait	Activation	Dernier accès Radius
Tests TPE BJJ	1907011500417	Active	33666028760	Tri croissant	08-05-22 13:59:50	2008-11-03 17:35:19
Carte Active Stock Katy	11067097726169	Active	33624181118	Tri décroissant	08-04-17 15:13:12	2008-11-06 12:52:59
S200711374 19	11067097809163	Active	33610391187	Colonnes	08-04-30 17:10:38	2008-01-14 16:46:10
S200712469 3	11067007742166	Activable				
	13072730045164	Activable				
	13072730049166	Activable				
SI APN 1...	2008001526089	Active	33668733858	2 Mo	20	

Portail Lyra Network - Suivi des paiements CSD Monétique

Accueil Suivi des transactions * Applications * Aide * Déconnexion

Équipements Recherche

Tous les équipements

LYBATHIS

FT10845334 - AUKLYS DATHIS

Graphique retrans / jour

Totalisation par jour

Montant en euros

22-09-2009 23-09-2009 24-09-2009 25-09-2009 26-09-2009 27-09-2009 28-09-2009

Montant débits Montant crédits

375.68 201.55 139.98 575.55 1562.10 1140.50 552.70

Depuis le: 22/09/09 Chercher

Terminé

1 Edition Fenêtres Export

Internet : 00%

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PAYZEN

A GREAT NUMBER OF M2M APPLICATIONS



INDUSTRY



PANNEL DISPLAY



ENERGY



TRAFFIC



ELECTRONIC BANKING



SECURITY



To find on www.kortex-psi.fr



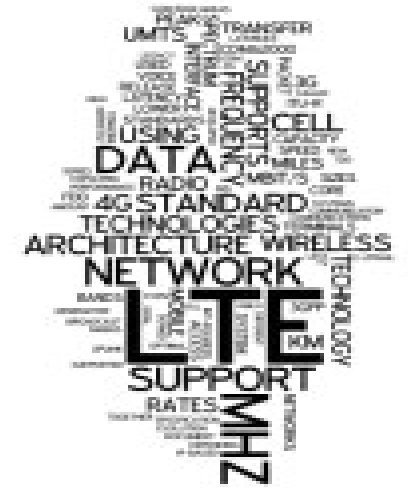
toMachine
& Objets connectés



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KORTEX PSI
by Lyra Network



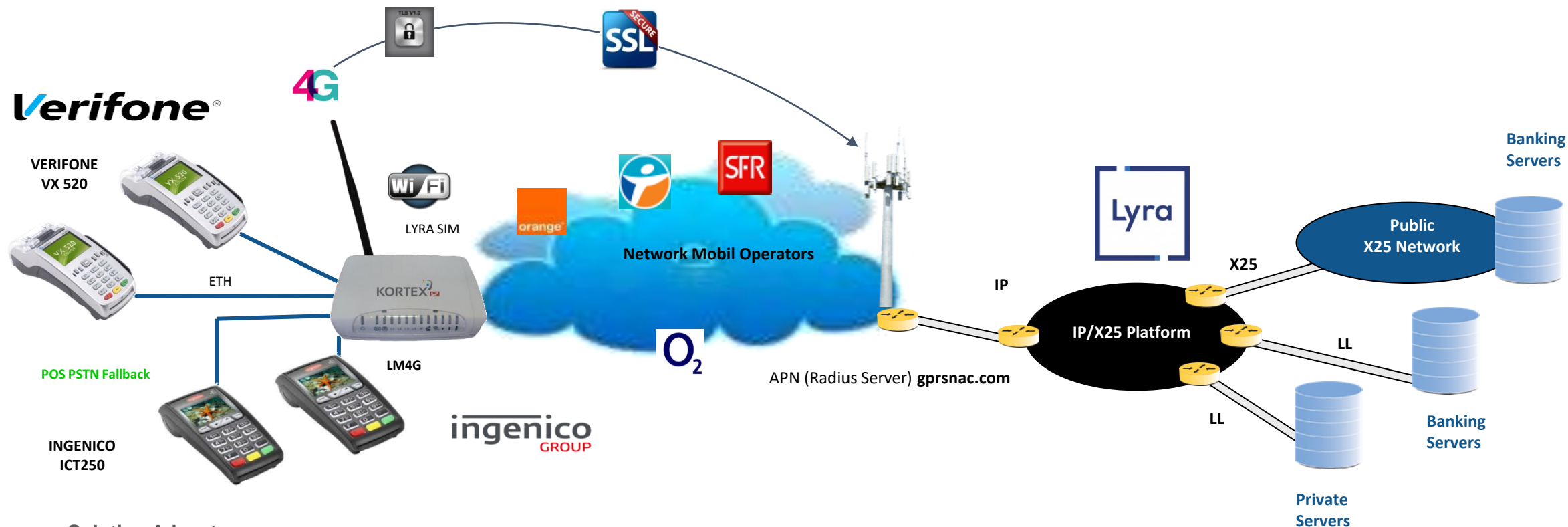
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PRODUCTS FOR ...



toMachine
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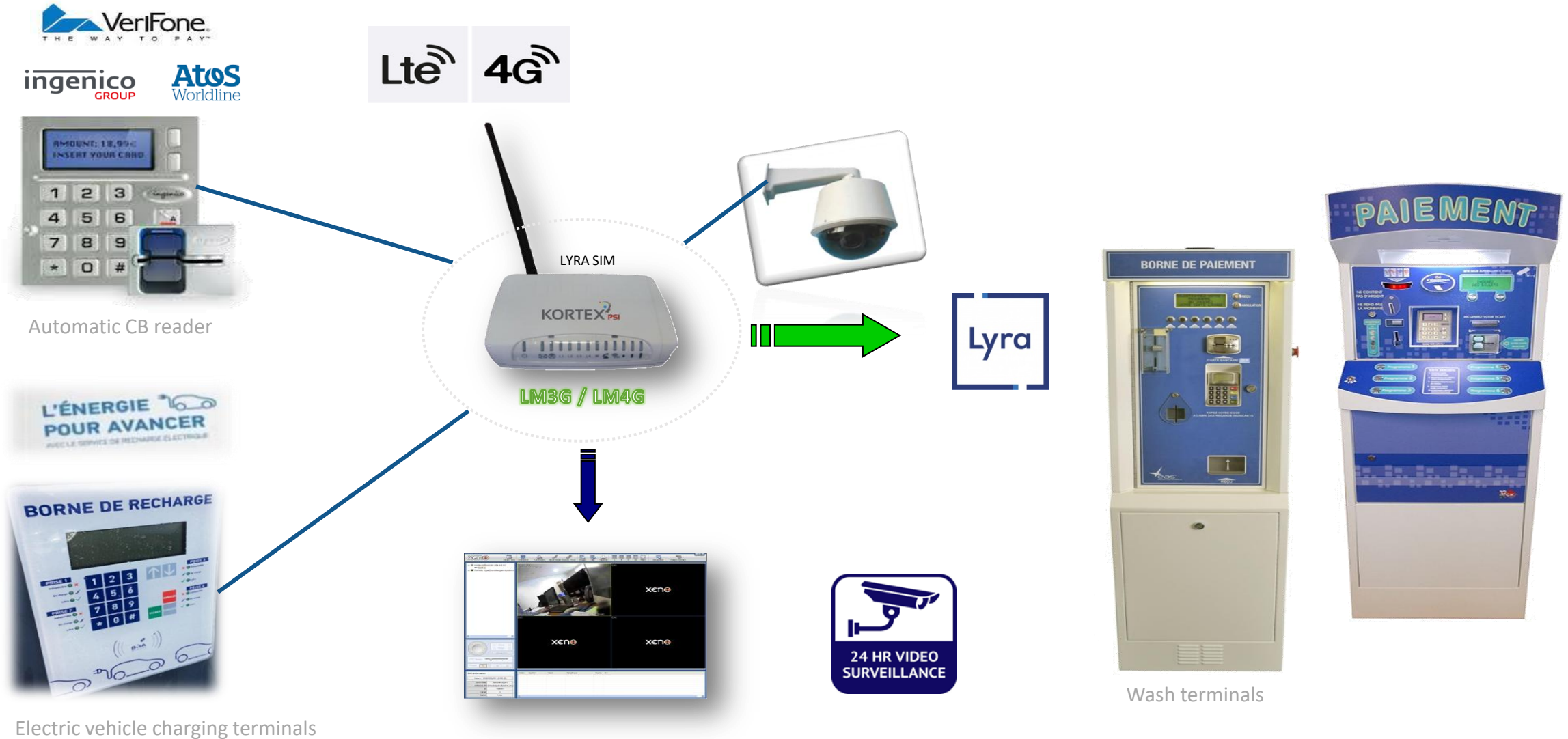
STANDALONE PAYMENT TERMINALS IN 4G & RTC BACKUP



Solution Advantages:

- Vitale[™] Cards & EMV CBs
- 4 Ethernet ports = 4 TPE (possibility to add a Network Switch)
- GPRS / EDGE bi-networks and 3G / 3G + if necessary
- Speed of transactions: equivalent to ADSL (less than 5 seconds)
- 1 single SIM card LYRA = 1 single subscription for several payment terminals
- Secure APN gprsnac.com with management through the portal LYRA
- Security: Encryption with V3 STCA SSL certificate
- QOS Replica RTC on payment terminals (1 shared line)
- WIFI option

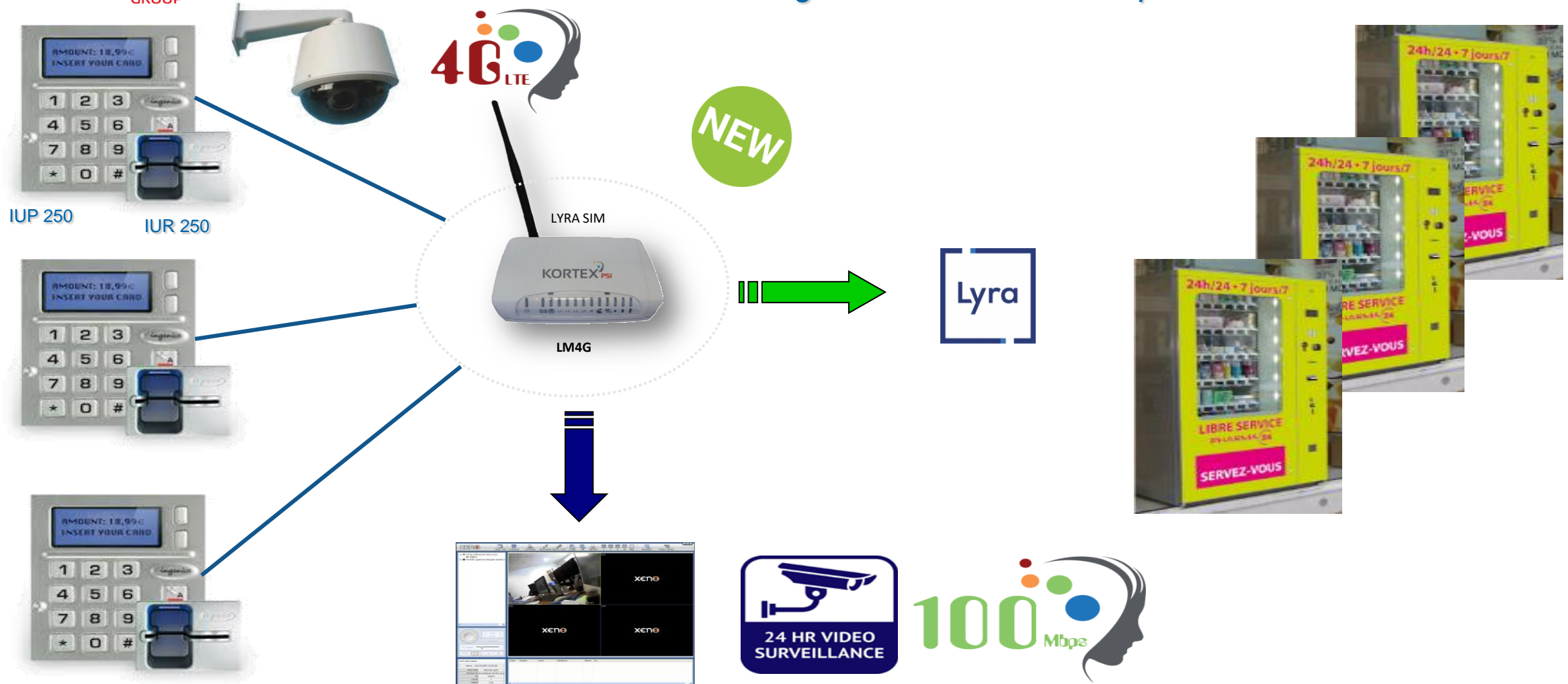
ELECTRICAL AND WASHING TERMINALS



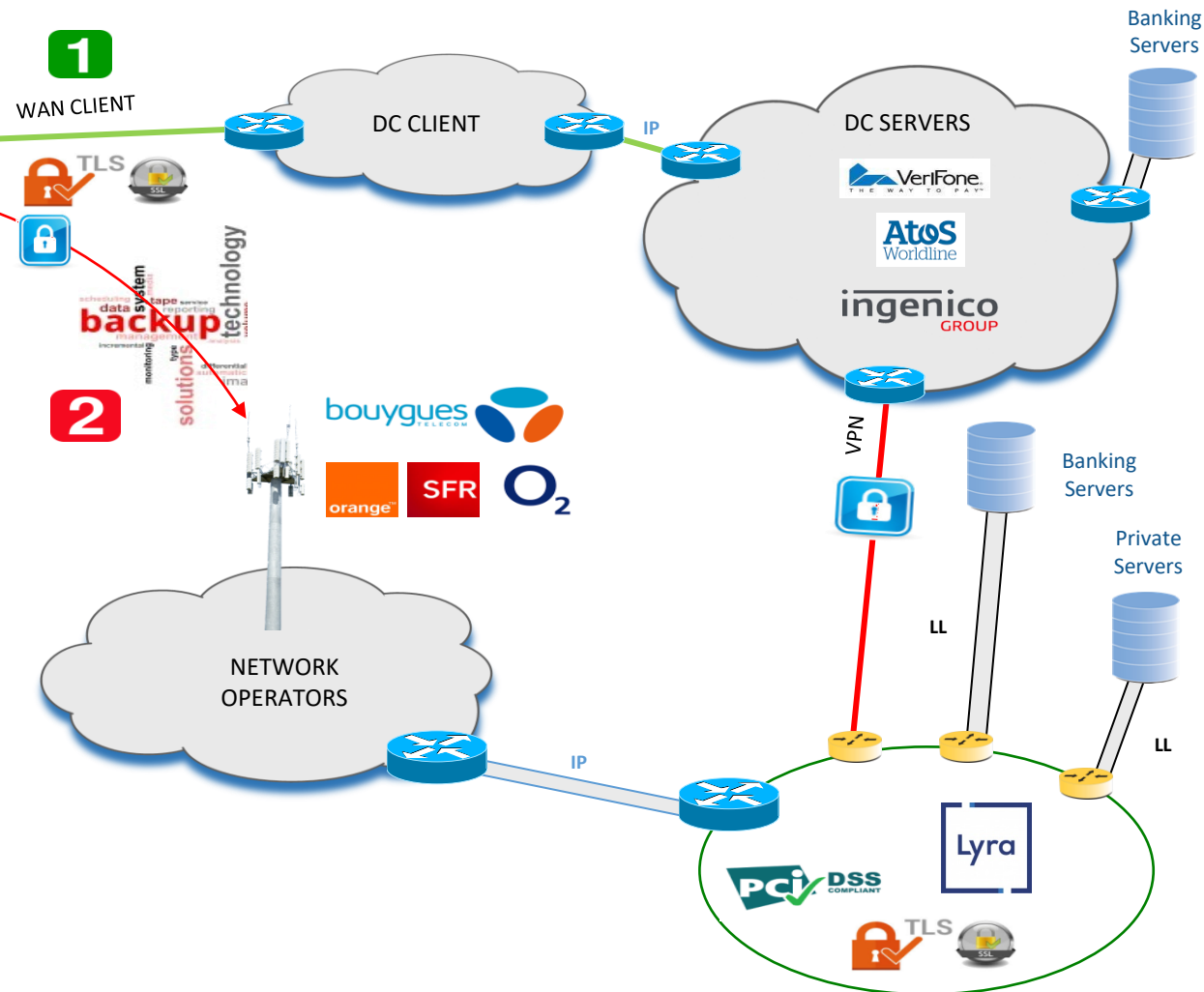
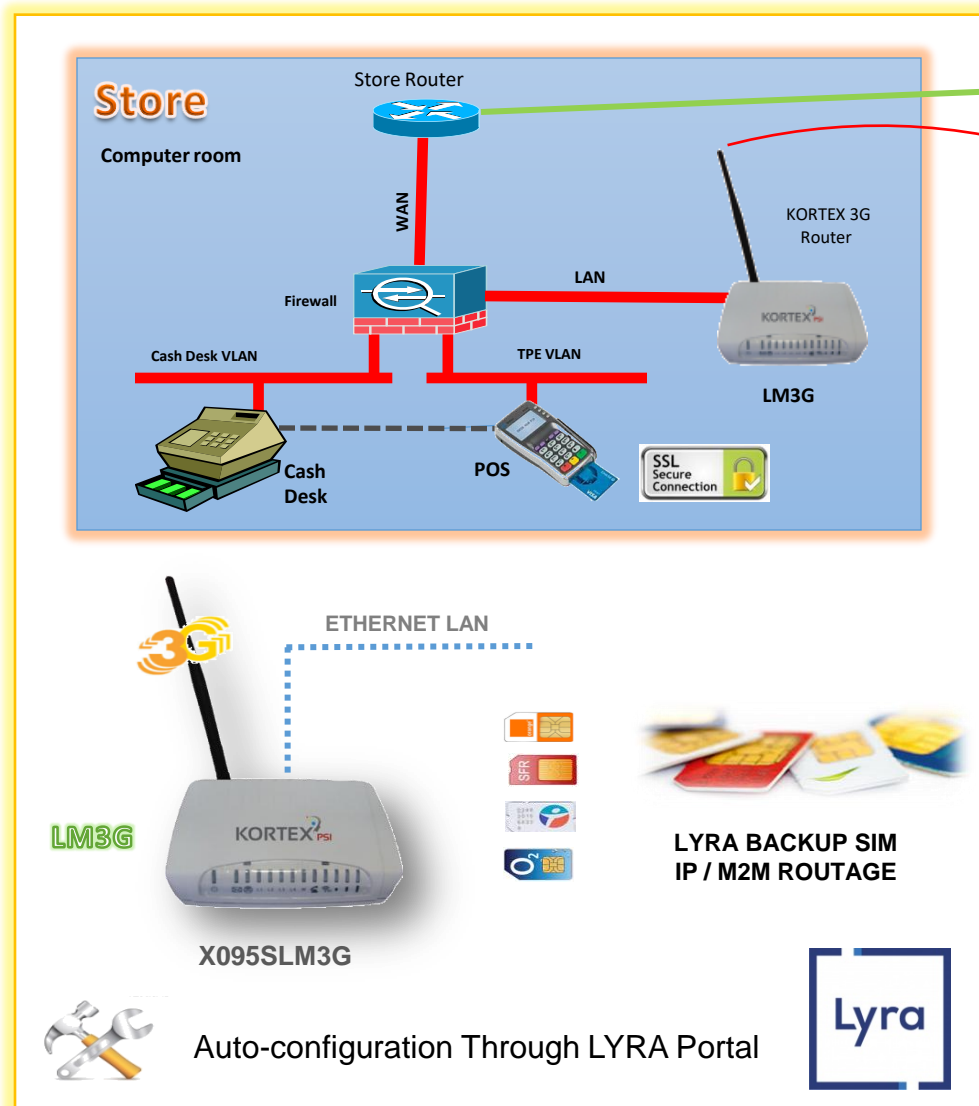
AUTOMATS AND VIDEO SURVEILLANCE IN 4G

ingenico
GROUP

Ingenico iSelf Series Compatible



BACKUP OF CENTRALIZED MONETIC SOLUTIONS



PRODUCTS FOR ...



M 2 M

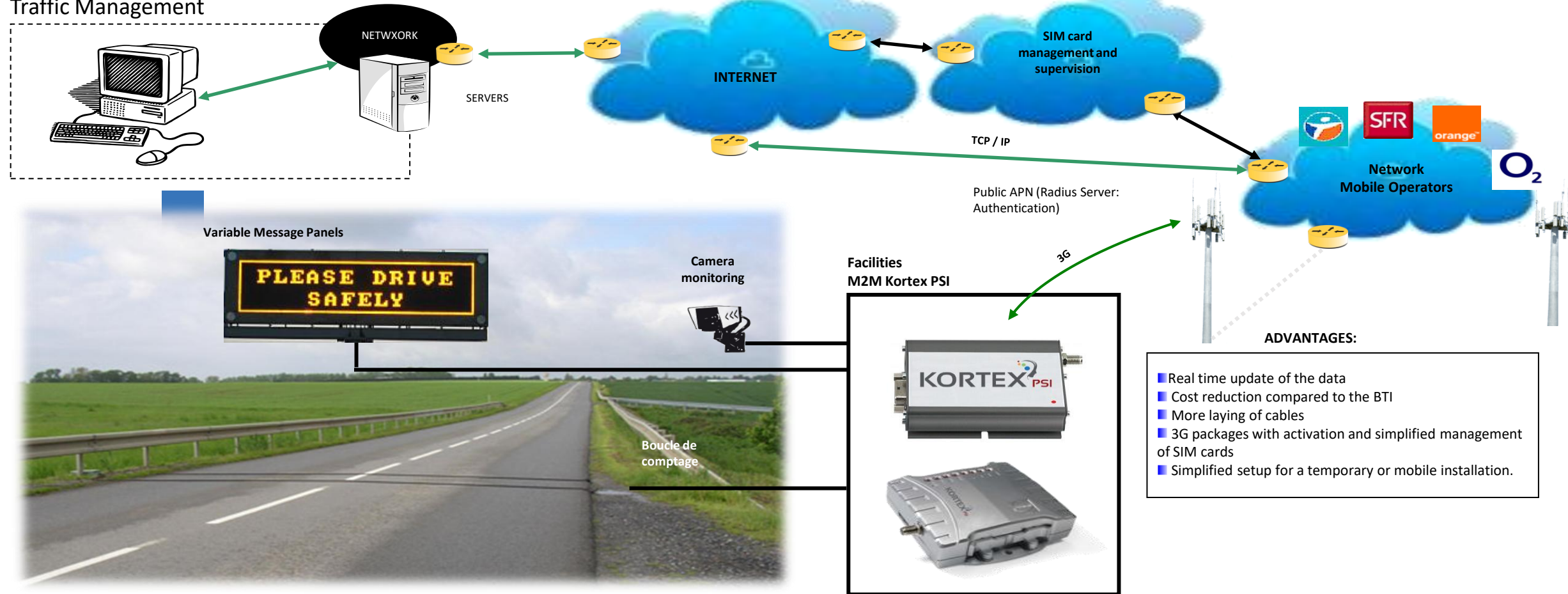


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REMOTE MANAGEMENT OF ROADSIDE EQUIPMENT



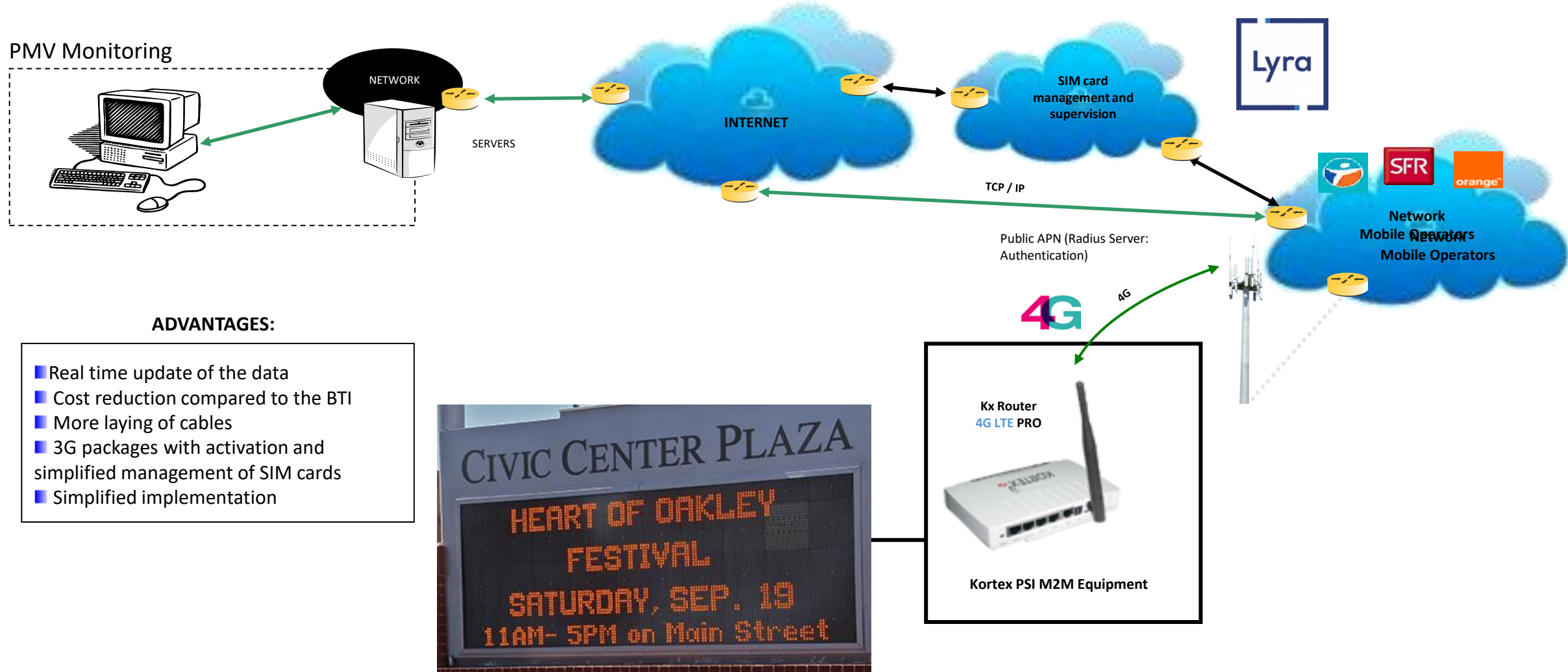
Traffic Management



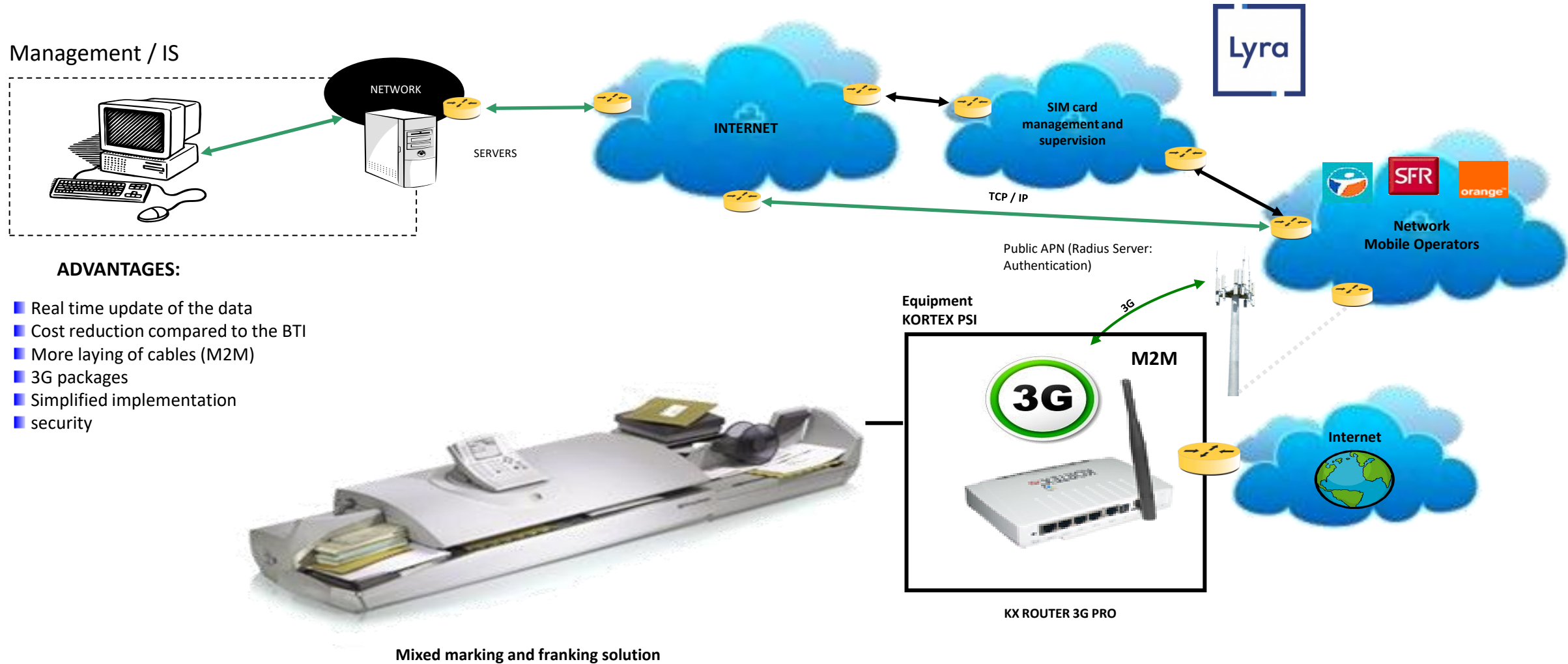
ADVANTAGES:

- Real time update of the data
- Cost reduction compared to the BTI
- More laying of cables
- 3G packages with activation and simplified management of SIM cards
- Simplified setup for a temporary or mobile installation.

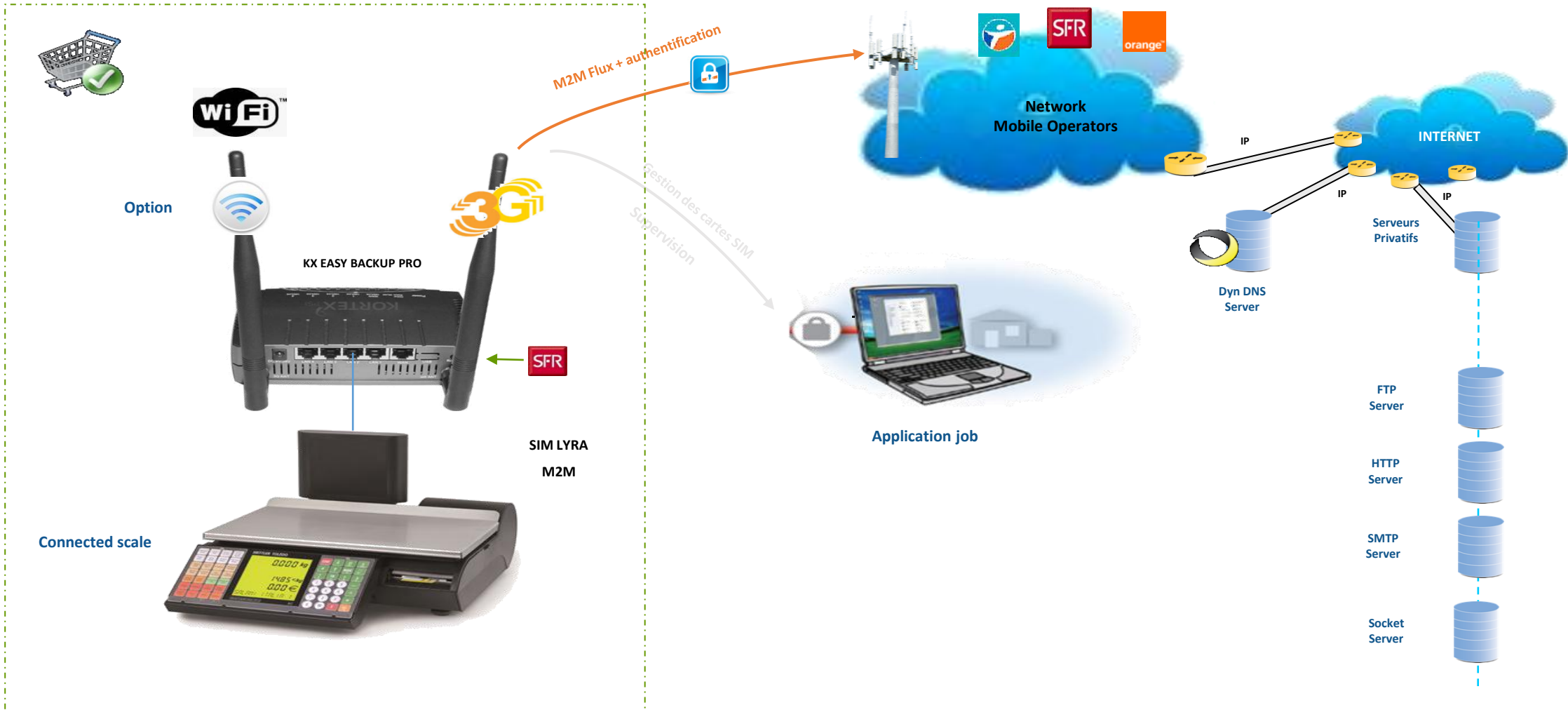
MANAGEMENT OF TOWN HALL PANELS (PMV, PML)



MANAGEMENT OF FRANKING SYSTEMS: M2M



CONNECTED SCALE: 3G TRANSMISSION



PRODUCTS FOR ...



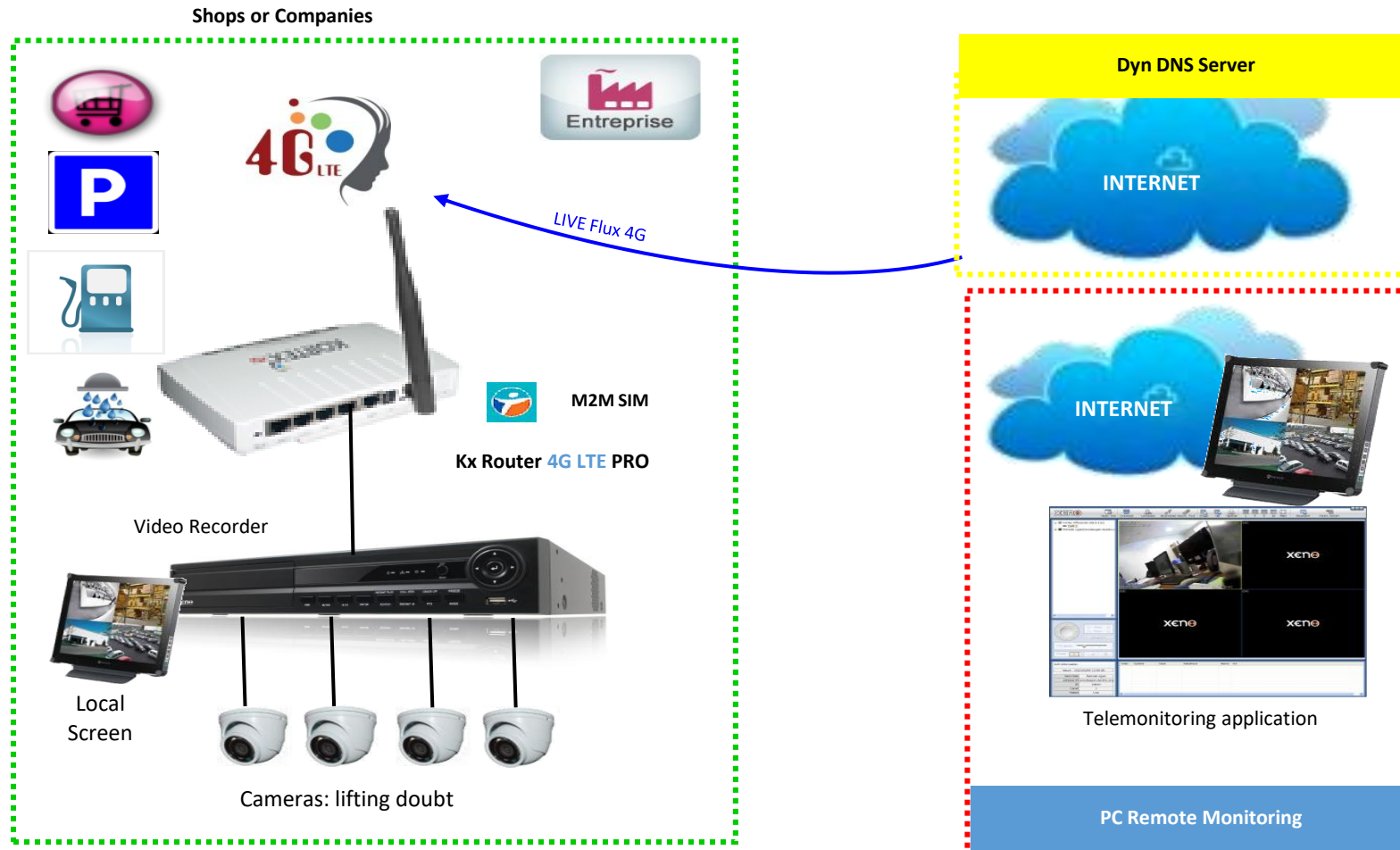
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PRODUCTS FOR ...



4G ROUTER FOR VIDEO DOUBT REMOVAL SYSTEM



* The Kx Router 4G LTE PRO integrates a Dyn DNS client which allows the link between a domain name and the associated IP address, which is updated every 24 hours on 4G networks.

- ☐ towns
- ☐ Commissions
- ☐ shops
- ☐ Building
- ☐ Parking
- ☐ Warehouses ...

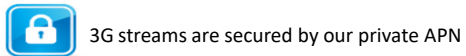


PRODUCTS FOR ...

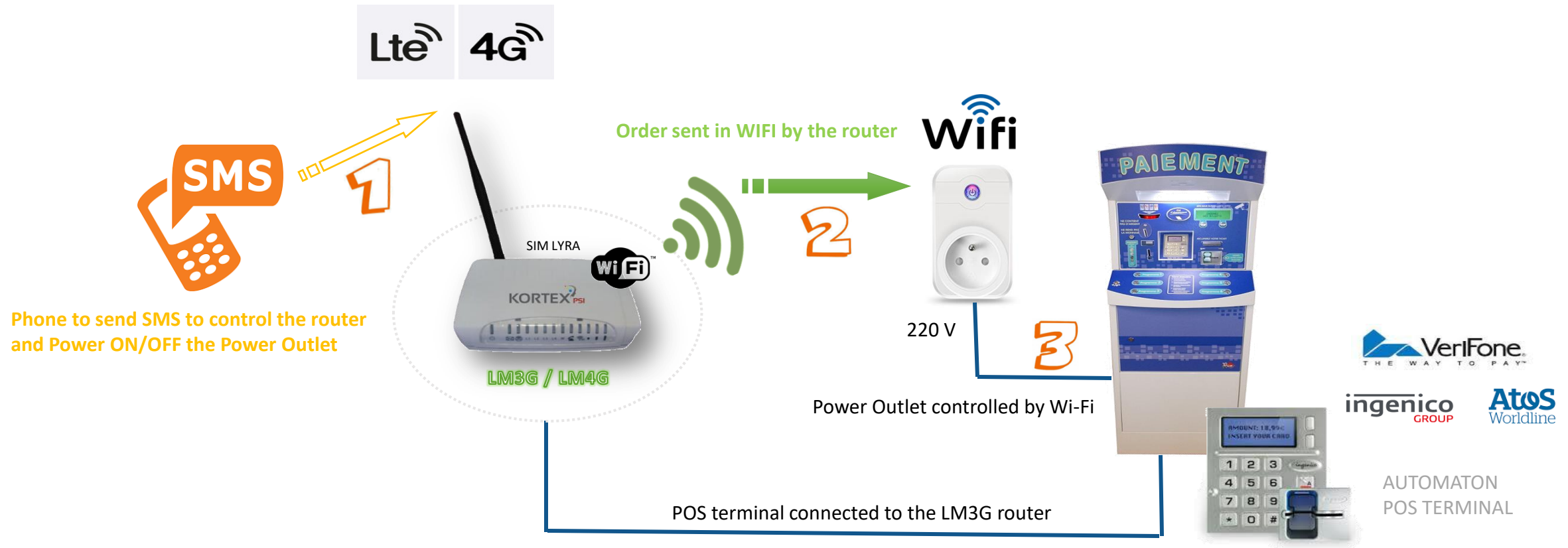


toMachine
& Objets connectés

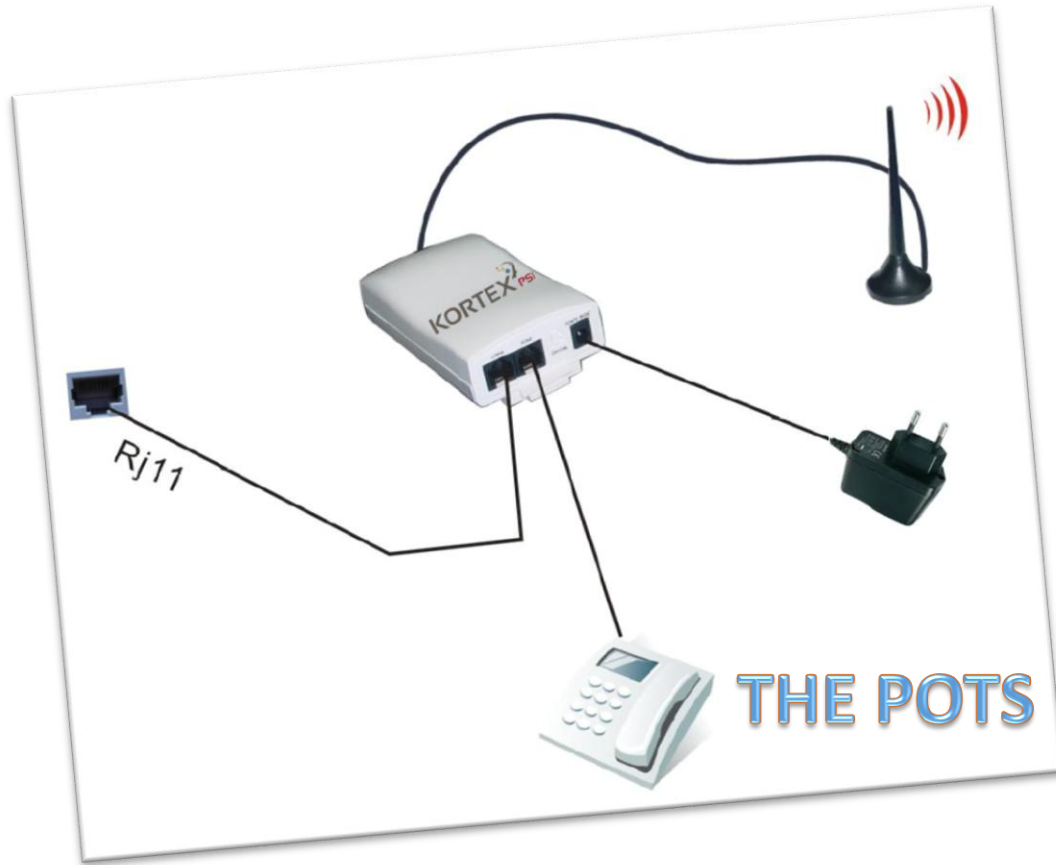
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SWITCHING ON THE PLC CONTROLLED BY SMS



THE END OF THE PSTN: MATURITY 2021, THE POTS



+ AN ALTERNATIVE SOLUTION TO SUSTAIN ITS PSTN INVESTMENTS

- Lifts
- Alarms
- Medical
- Remote meter reading
- Electronic banking

Ensures the migration of your equipment connected to the Switched Telephone Network (PSTN) in GSM or 3G.



BENEFITS OF KORTEx SERVICES AND PRODUCTS



Security: SSL, VPN ...



Choice of connectors: Serial, USB, Ethernet ...



Industrial and robust equipment



Customization by trades and projects



Complete range of accessories



Reactivity of the teams



Own R&D developing embedded software and applications

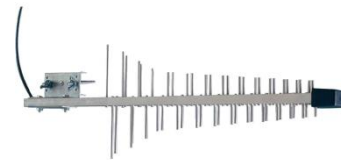


Support and dedicated technical support

ESSENTIAL ACCESSORIES FOR 2018

Some essential accessories from KORTEX PSI

- Sector blocks
- Din-Rail Brackets for Modems and Routers
- Network adapters, series ...
- Standard and custom cables
- Indoor and outdoor antennas for automata.



Ref: CB001332
Supplied with mounting bracket



Ref: CB001330 magnetic
D47x210 mm



Ref: CB001331 magnetic
Ref : CB001334 à vis
D71x14 mm

Magnetic or nut antennas.

#SOME REFERENCES:

FNAC DARTY



Galeries
Lafayette



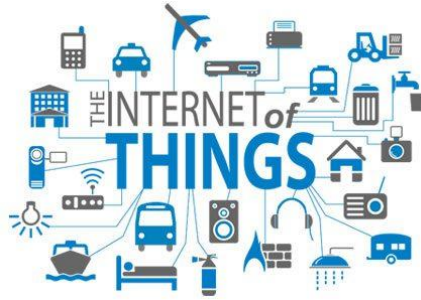
They use it



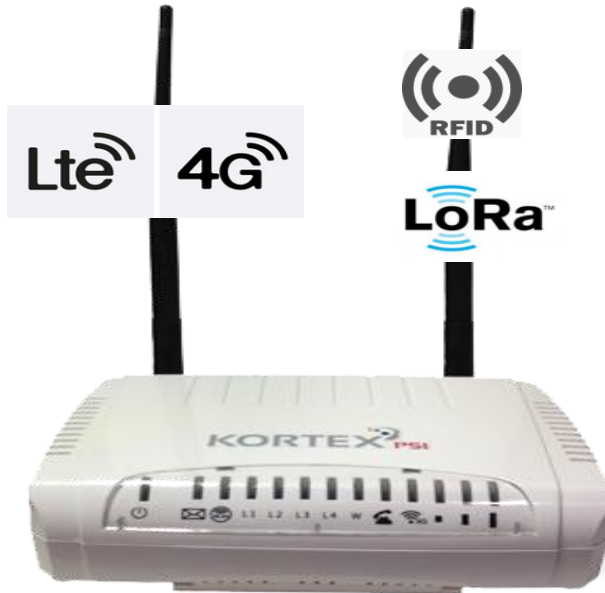
+ BENEFITS OF EMERGENCY WITH LM 3G / 4G

- Equip yourself with a reliable and powerful router (connected in 3G / 4G with ETH / Wi-Fi)
- Save on the cost of the equipment (cheaper than a backup GPRS TPE)
- Manage queues in the event of a network outage
- Reduce the implementation time (configuration from the Lyra portal)
- Ensure continuity of service

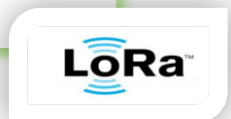
DEVELOPMENTS TO COME



- Identification of containers of chemical substances, drugs.
- Identification of street furniture, public games, ornamental trees for maintenance and monitoring.
- Exchange of business cards during events.
- Body implants.
- Livestock monitoring: food, lactation, weight.



- Smart environment: Fire detection, flood alert, air pollution ...
- Smart Energie: Measurement of gauges, temperatures, reading of water / gas / electricity meters, sensors, management of solar panels ...
- Smart Cities: Parking places, street lighting, garbage, PML / PMV display ...
- Security: Transmission of alarms, leak detection ...
- Industries: Machine control, automatic sensor reading ...
- Agriculture: Irrigation control, animal tracking, ...



THE END

THANKS

