



RMS – Software de gestión para flotas de routers 3G y 4G

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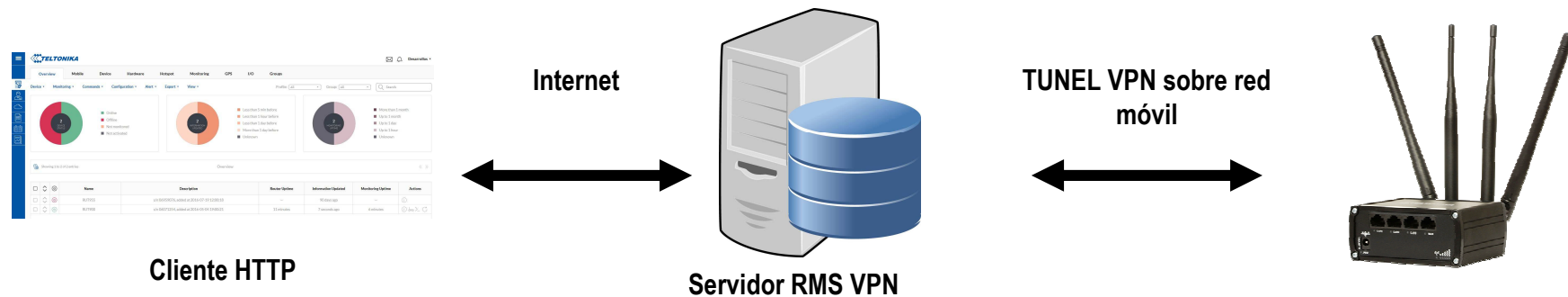


Prestaciones

- Plataforma basada en web
 - no necesita instalación local
 - Adaptable (PC, tablet y smartphone)
- Acceso remoto a los routers incluso con IPs privadas o IPs públicas sin acceso de conexiones entrantes
- Acceso securizado por OpenVPN entre el servidor RMS y los routers
- Monitorización de los routers incluyendo: nivel de señal, datos tx y rx, posición GPS, entradas y salidas digitales,...
- Actualizaciones de firmware a un conjunto de routers a través de una plantilla
- Recolección de eventos y alarmas que pueden notificarse vía email o SMS

Comunicaciones centralizadas y securizadas

- RMS dispone de un servidor VPN de comunicaciones
- De forma periódica los routers establecen una VPN con el servidor RMS y envían un paquete 'heartbeat'
- Una vez abierto el túnel VPN el servidor RMS puede lanzar peticiones periódicas o bajo demanda del usuario
 - Recolección de alarmas y estadísticas
 - Petición de acceso remoto HTTP o Telnet
- Todas las comunicaciones entre cliente y router se establecen de forma segura a través del servidor RMS



Multiplataforma - Multidispositivo

The screenshot displays the Teltonika RMS web interface. The main content area features two donut charts: 'DEVICE STATUS' (2 Online, 2 Offline, 0 Not monitored, 0 Not activated) and 'INFORMATION UPDATED' (2 updates: Less than 5 min before, Less than 1 hour before, Less than 1 day before, More than 1 day before, 0 Unknown). Below the charts is a table of devices:

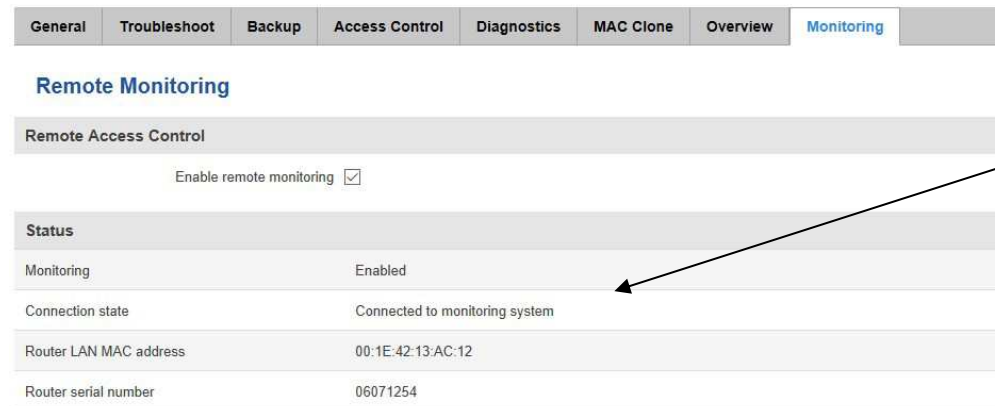
Name	Description	Router Uptime
RUT955	s/n 06959076, added at 2016-07-19 12:00:18	—
RUT900	s/n 06071254, added at 2016-05-04 19:00:21	11 minutes

The right sidebar shows a detailed view for device RUT900, including fields for Description, Group, MAC, Information Updated, and Monitoring Uptime. A mobile interface overlay is visible on the right, showing a search bar and navigation icons.

- Widgets configurables en página principal para customizar su contenido

¿Cómo añadir un router?

- En el router

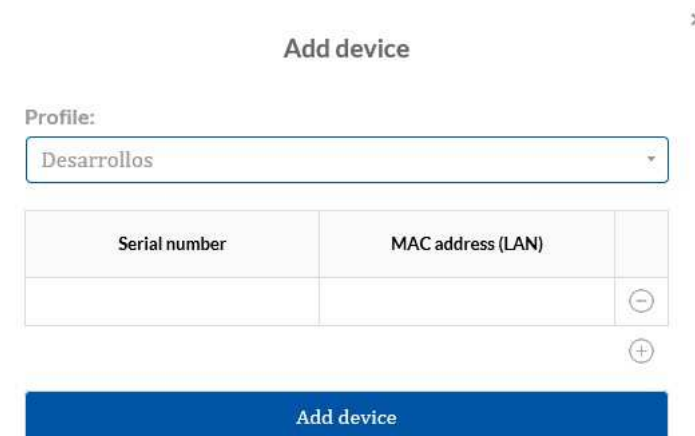


The screenshot shows the router's configuration interface with the 'Monitoring' tab selected. Under 'Remote Monitoring', the 'Enable remote monitoring' checkbox is checked. The 'Status' section shows 'Monitoring' as 'Enabled', 'Connection state' as 'Connected to monitoring system', 'Router LAN MAC address' as '00:1E:42:13:AC:12', and 'Router serial number' as '06071254'.

Remote Monitoring	
Remote Access Control	
Enable remote monitoring <input checked="" type="checkbox"/>	
Status	
Monitoring	Enabled
Connection state	Connected to monitoring system
Router LAN MAC address	00:1E:42:13:AC:12
Router serial number	06071254

Verifica el estado de la conexión con el servidor RMS

- En la plataforma RMS: añadir serial number y dirección MAC LAN



The screenshot shows the 'Add device' form in the RMS platform. It includes a 'Profile' dropdown menu set to 'Desarrollos', a table for entering 'Serial number' and 'MAC address (LAN)', and an 'Add device' button at the bottom.

Add device	
Profile: Desarrollos	
Serial number	MAC address (LAN)
+	
Add device	

Página principal

The screenshot shows the main dashboard of the Teltonika RMS software. It features a navigation menu on the left with icons for various functions. The top navigation bar includes tabs for Overview, Mobile, Device, Hardware, Hotspot, Monitoring, GPS, I/O, and Groups. Below this, there are sub-tabs for Device, Monitoring, Commands, Configuration, Alert, Export, and View. A search bar and filters for Profile and Group are also present.

Three donut charts provide a visual overview of device status and monitoring metrics:

- Device Status:** A donut chart showing 2 devices. The legend includes Online (green), Offline (red), Not monitored (orange), and Not activated (dark grey).
- Information Updated:** A donut chart showing 2 devices. The legend includes Less than 5 min before (dark orange), Less than 1 hour before (orange), Less than 1 day before (light orange), More than 1 day before (very light orange), and Unknown (dark grey).
- Monitoring Uptime:** A donut chart showing 2 devices. The legend includes More than 1 month (dark purple), Up to 1 month (medium purple), Up to 1 day (light purple), Up to 1 hour (very light purple), and Unknown (dark grey).

Below the charts, a table displays the details of the two devices:

	Name	Description	Router Uptime	Information Updated	Monitoring Uptime	Actions
<input type="checkbox"/>	RUT955	s/n 06959076, added at 2016-07-19 12:00:18	—	90 days ago	—	
<input type="checkbox"/>	RUT900	s/n 06071254, added at 2016-05-04 19:00:21	11 minutes	7 seconds ago	6 minutes	

ESTADO DE LOS EQUIPOS

TIEMPO DE ULTIMO VOLCADO ENCENDIDO DE INFORMACIÓN

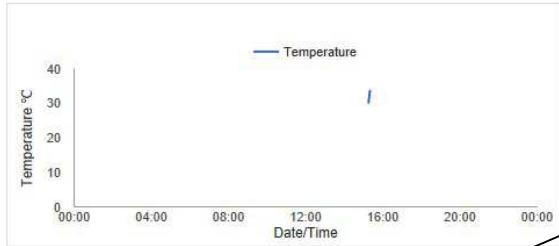
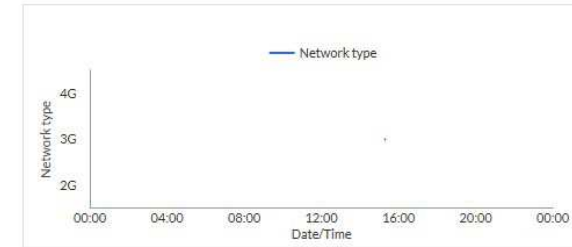
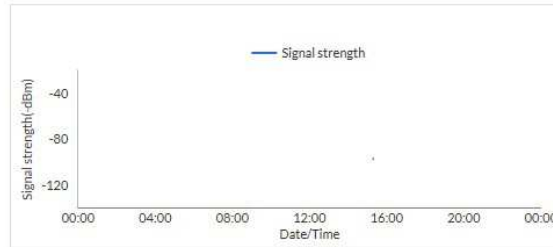
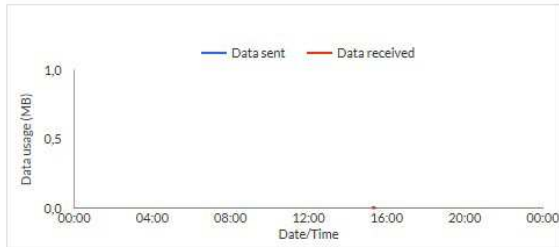
INFO, ACCESO WEB, TELNET Y FORZAR ACTUALIZACION

Información detallada del router

Device details	
Router uptime	20 minutes
Serial / MAC	06071254 / 00:1E:42:13:AC:12
FW version	RUT9XX_R_00.02.240
Product code	RUT9000010Q0
Batch number / HW revision	0003 / 0202

Modem details	
Temperature	39 °C
Model	HE910-D
Manufacturer	Telit
FW version	12.00.023
IMEI	351579056286584

Mobile details SIM1	
Mobile uptime	--
Operator	vodafone ES
Connection type	3G
Signal	-79 dBm
Mobile IP	178.139.174.134



Events	Time
Name of device with MAC: 00:1e:42:14:cc...	1 day ago

Posición basada en GPS o en localización BTS móvi

Alerts	Time
Status change	14 minutes ago
Status change	17 minutes ago
Status change	17 minutes ago
Status change	21 minutes ago
Status change	22 minutes ago

I/O details	
Digital Input / Digital Isolated Input	Open/Low level
Analog Input	0.182 V
OC Output	Inactive (High level)
Relay Output	Inactive (Contacts open)
Information Updated	4 minutes ago

FW update & Configuration download

Update firmware

Settings:

Keep mobile settings

Keep all settings

Do not keep settings

Choose a file...

Submit

Configuration download

Name	MAC	Event
RUT900	00:1E:42:13:AC:12	Download

FOTA (en RMS)


<input type="checkbox"/>	Name	Description	Group	MAC	Serial	FW on server	Config on server	Profile	Status	Authorization
<input type="checkbox"/>	RUT905	s/n 07405471, added at 2017-02-06 19:44:38	PRUEBAS	00:1E:42:14:CC:73	07405471	-	-	Desarrollos	-	
<input type="checkbox"/>	RUT955	s/n 06961057, added at 2017-02-21 10:38:07	None	00:1E:42:14:3C:C9	06961057	-	-	Desarrollos	-	
<input type="checkbox"/>	Router 1	s/n 06984757, added at 2017-05-11 10:35:09	GRUPO 1	00:1E:42:14:36:88	06984757	-	-	Desarrollos	-	
<input type="checkbox"/>	Router 2	s/n 06984759, added at 2017-05-11 14:41:20	GRUPO 1	00:1E:42:14:34:CC	06984759	-	-	Desarrollos	-	
<input type="checkbox"/>	TecFer	s/n 08015446, added at 2017-06-08 11:10:00	GRUPO 1	00:1E:42:15:0D:6A	08015446	-	-	Desarrollos	-	
<input type="checkbox"/>	00:1E:42:19:06...	s/n 09274951, added at 2017-07-17 18:18:22	None	00:1E:42:19:06:1C	09274951	-	-	9habitat	-	
<input type="checkbox"/>	00:1E:42:20:03...	s/n 1000056347, added at 2017-09-04 09:30:01	None	00:1E:42:20:03:50	1000056347	-	-	Desarrollos	-	
<input type="checkbox"/>	RUT230_LAB	s/n 09308998, added at 2017-09-18 17:23:04	None	00:1E:42:19:07:BD	09308998	RUT2XX_R_00.00.191	-	Desarrollos		

- Permite crear un repositorio de versiones FW y ficheros de configuración y asignarlos a diferentes dispositivos para luego entrar al servidor web del router y actualizar manualmente el FW del router a la versión disponible del repositorio
- Acceso protegido mediante username/password tanto en router como en RMS

FOTA (en router)

Server address

User name

Password 


Enable auto check

Auto check mode

WAN wired

Firmware Available On Server

Firmware version	RUT2XX_R_00.00.191
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Firmware Upgrade Settings

Firmware image file

- Debemos configurar username/password para que en la pestaña de FW el router pueda verificar la última versión y descargarla directamente del servidor RMS

Alertas

- Configurables de forma individual para cada router
- Envío por SMS o por email
- En caso de SMS podemos customizar el texto con información del estado del router

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Signal strength
SIM switch
Status change
Mobile data
GPS geofencing

New alert ×

Select parameter:
Signal strength

Event subtype:
-121dBm -113dBm
-113dBm -98dBm
-98dBm -93dBm
-93dBm -75dBm
-75dBm -60dBm
-60dBm -50dBm

Subject:

Message text on Event:
Router name - %rn; Event type - %et; Event text - %ex; Time stamp - %ts;

Time stamp - %ts Router name - %rn
Serial number - %sn WAN MAC address - %wmac
LAN MAC address - %lmac Curren FW version - %fc
Connection state - %cs Operator name - %on
Connection type - %ct Signal strength - %ss
SIM slot in use - %su IMSI - %im
Event type - %et Event text - %ex
FW available on server - %fs LAN IP - %li
Network state - %ns WAN IP address - %wi
New line - %nl

Enable redundancy protection:

SMTP server:

SMTP server port:

Log de alertas

<input type="checkbox"/>	Name	MAC	Event type	Event subtype	Action	Time	Actions
<input type="checkbox"/>	RUT905	00:1e:42:14:cc:73	Status change	Came online	sendEmail	2017-02-07 17:10:18	ⓘ ⌂ >
<input type="checkbox"/>	RUT905	00:1e:42:14:cc:73	Status change	Gone offline	sendEmail	2017-02-07 17:07:23	ⓘ ⌂ >
<input type="checkbox"/>	RUT905	00:1e:42:14:cc:73	Status change	Came online	sendEmail	2017-02-07 17:06:46	ⓘ ⌂ >
<input type="checkbox"/>	RUT905	00:1e:42:14:cc:73	Status change	Gone offline	sendEmail	2017-02-07 17:03:35	ⓘ ⌂ >
<input type="checkbox"/>	RUT905	00:1e:42:14:cc:73	Status change	Came online	sendEmail	2017-02-07 17:01:59	ⓘ ⌂ >
<input type="checkbox"/>	RUT905	00:1e:42:14:cc:73	Status change	Gone offline	sendEmail	2017-02-07 16:59:49	ⓘ ⌂ >
<input type="checkbox"/>	RUT905	00:1e:42:14:cc:73	Status change	Came online	sendEmail	2017-02-07 16:59:15	ⓘ ⌂ >
<input type="checkbox"/>	RUT905	00:1e:42:14:cc:73	Status change	Gone offline	sendEmail	2017-02-07 16:57:30	ⓘ ⌂ >
<input type="checkbox"/>	RUT905	00:1e:42:14:cc:73	Status change	Came online	sendEmail	2017-02-07 16:56:57	ⓘ ⌂ >
<input type="checkbox"/>	RUT905	00:1e:42:14:cc:73	Status change	Gone offline	sendEmail	2017-02-07 16:55:21	ⓘ ⌂ >

NOMBRE DEL
DISPOSITIVO

DIRECCIÓN MAC DEL
DISPOSITIVO

TIPO DE EVENTO

TIPO DE SUBEVENTO (SUS VALORES
DEPENDEN DEL TIPO DE EVENTO)

ACCION
DESENCADENADA
ANTE EL EVENTO

FECHA Y HORA DEL
EVENTO

ACCESOS AL
ROUTER

Frecuencia de actualización de datos

- Permite configurar los datos a enviar al servidor RMS y su frecuencia
- Ofrece una estimación del consumo de datos requerido

Parameters update period
Applies for all devices in profile

Dynamic parameters

5 Minutes

Static parameters

15 Days

Hotspot parameters

GPS parameters

Input/Output parameters

5 Minutes

Heartbeat configuration
Applies for all devices in profile

Offline device detection timeout:

15 Seconds

Estimated data usage

Total Monthly data usage per device:	50.61 MB
Monthly dynamic data usage per device:	14.83 MB
Monthly static data usage per device:	2.93 KB
Monthly hotspot data usage per device:	0 B
Monthly heartbeat data usage per device:	26.7 MB
Monthly GPS data usage per device:	0 B
Monthly Input/Output data usage per device:	9.08 MB

Eventos

ID	Event type	Event	MAC	IP	Profile	User	Date
190929	System	Successful login	–	90.77.80.38	Desarrollos	–	2017-02-08 14:00:53
190801	System	Successful login	–	90.163.42.120	Desarrollos	–	2017-02-07 19:48:59
190800	System	Unsuccessful login	–	90.163.42.120	Desarrollos	–	2017-02-07 19:48:54
190799	System	Unsuccessful login	–	90.163.42.120	Desarrollos	–	2017-02-07 19:48:48
190773	System	Successful login	–	90.77.80.38	Desarrollos	–	2017-02-07 17:09:11
190753	Device	Monitoring configuration edited	00:1e:42:14:cc:73	–	Desarrollos	–	2017-02-07 15:15:26
190752	Device	Monitoring configuration edited	00:1e:42:14:40:e6	–	Desarrollos	–	2017-02-07 15:15:26
190751	Device	Monitoring configuration edited	00:1e:42:13:ac:12	–	Desarrollos	–	2017-02-07 15:15:26
190750	Device	Monitoring configuration edited	00:1e:42:14:cc:73	–	Desarrollos	–	2017-02-07 15:10:46
190749	System	Successful login	–	90.77.80.38	Desarrollos	–	2017-02-07 15:06:04

Usuarios

<input type="checkbox"/>	Username	Name	Email	Role	Profile	Created By Profile	Created By User	Registered
<input type="checkbox"/>	Desarrollos	–	jrsalvador@davant...	Administrator	Desarrollos	–	–	2016-05-03 16:21:32
<input type="checkbox"/>	operador	–	jrsalvador@davant...	End client	Desarrollos	Desarrollos	Desarrollos	2017-02-07 15:02:19