ACKSYS
COMMUNICATIONS & SYSTEMS

APPLICATION NOTE

How to configure WaveManager as an External syslog Server

March 2025

Content

1. Introduction

To configure Acksys router to use a separate server for logging, we obviously need a separate logging server to accomplish this. Hence, you can install an external Syslog server on your machine that allow you to store and capture the router's Syslog. The following sections describe how to configure the router to send its logs to WaveManager as an external syslog server.

2. Requirements

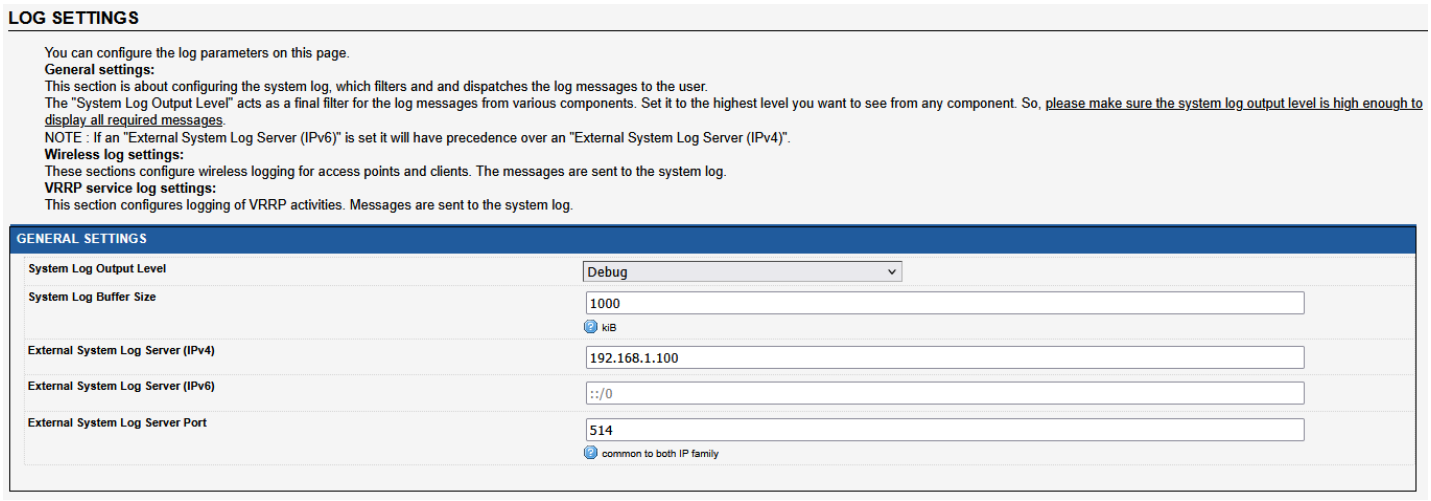
To achieve this note you will need:

- 1x Acksys wireless router
- An external syslog server (WaveManager or Rsyslog server) most of time install on PC in the same LAN network with the router and make sure they are reachable.

3. Configuring the Router

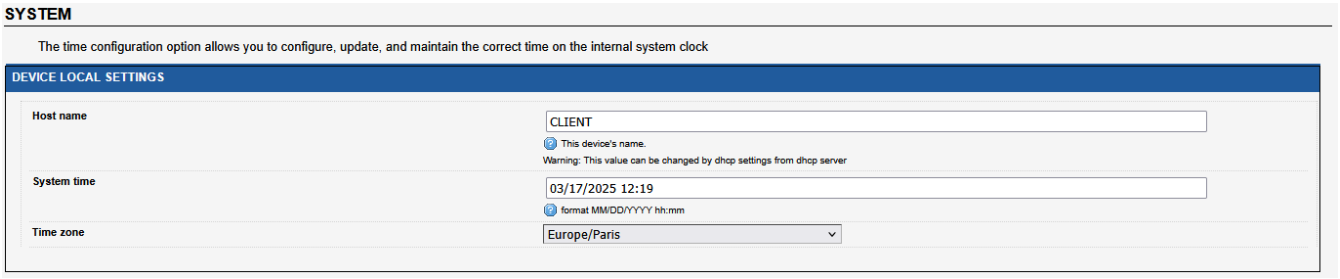
To configure the syslog server, go In the GUI, browse to Tools → Log Settings :

- System Log Output level : Debug
- System log Buffer Size : 1000 (for local logs but can be modified accordantly)
- IP where WaveManager is installed: 192.168.1.100 (IPv4 address of your syslog server)
- External System Log Server Port : 514 (default syslog Listen port)
- Click Save

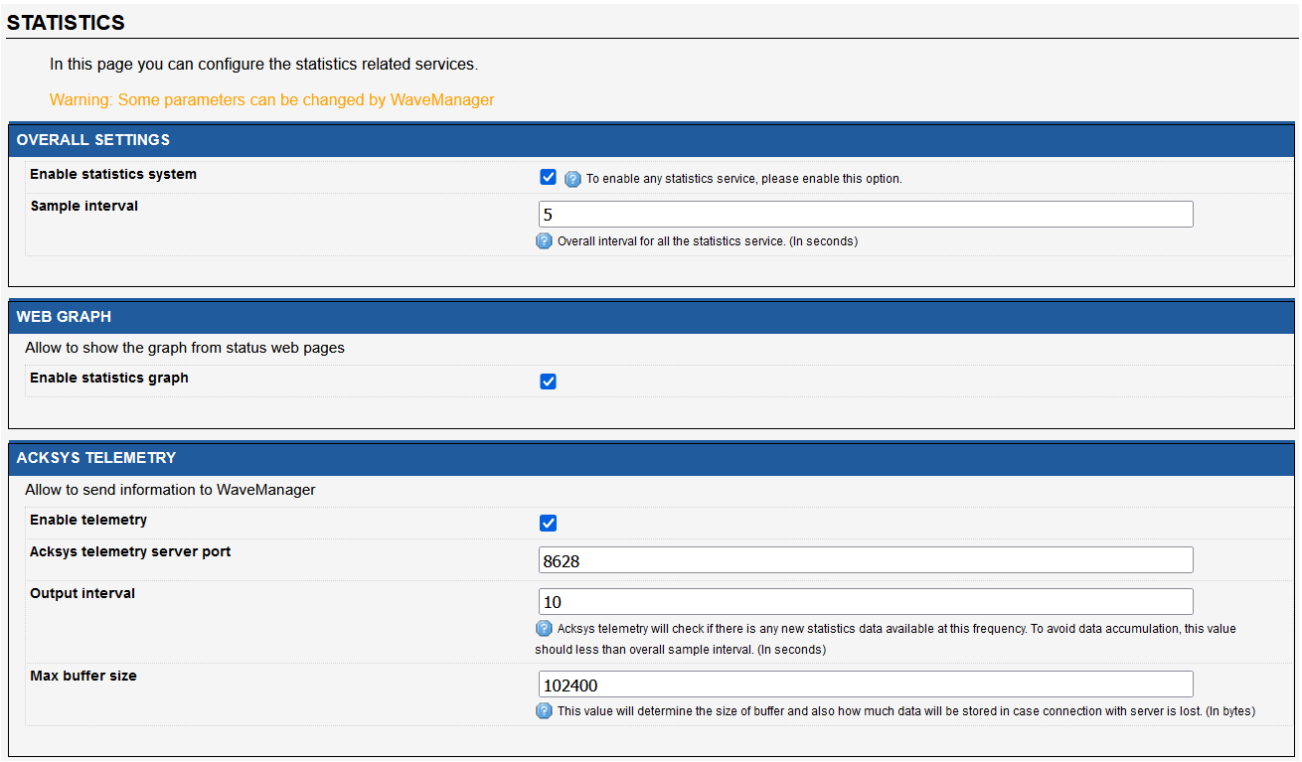


To synchronize router Time with Wavemanager, go In the GU , browse to Tools → System :

- Host Name: Your custom Router Name
- System Time : Set your local Time which must be the time of the device on which WaveManager is installed
- Time Zone: Your custom time zone
- Click Save



To allow the router to send WaveManager, go in submenu router Telemetry Setup → Services →Statitics where you have to specify the periodicity of data transfer relative to the frequency of acquisition as shown on the screenshot:



- Click Save and Apply.

NOTE: if for example there is a data acquisition every 5 seconds and we authorize the data transfer every 2 acquisitions, WaveOS will send the data to WaveManager every 10 seconds. The Output interval parameter defined in the Setup/Statistics page of the products must be, in this case, set to 10; if the value is different, the status of the product changes to Warning state
When you check Enable product telemetry settings, WaveManager will be able to send the telemetry parameters of this page to all online products.

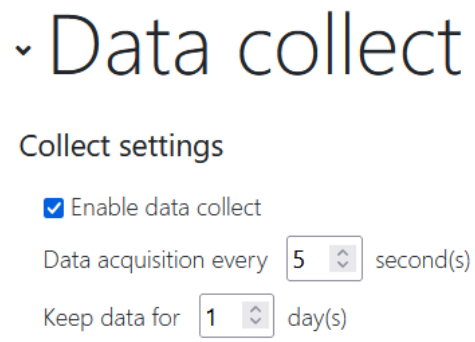
4. Configurating WaveManager

To configure WaveManager to collect data, connect to WaveManager , browse to Settings → Operational → Data Collect

- Collect Settings
  - Enable data Collect

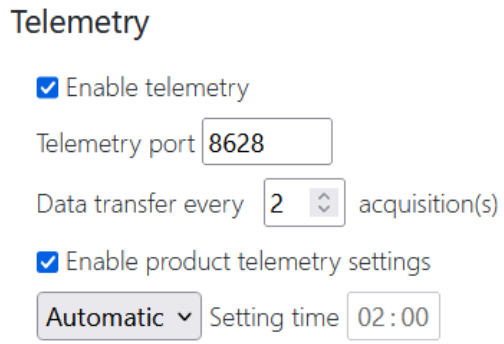
Enable data collect: this option authorizes WaveManager to use the telemetry protocol to obtain information relating to the connected products.

The Telemetry protocol allows WaveOS to spontaneously send historical data to one or several clients (WaveManager).
The acquisition frequency must correspond to the Sample interval parameter defined in the **Setup/Statistics page** of the products. If the value is different, the status of the product changes to Warning state
The time during which the received values are kept is also indicated here. This is useful in particular to control the maximum duration of recording of roaming information, or even the signal level values for the trace of the variations.



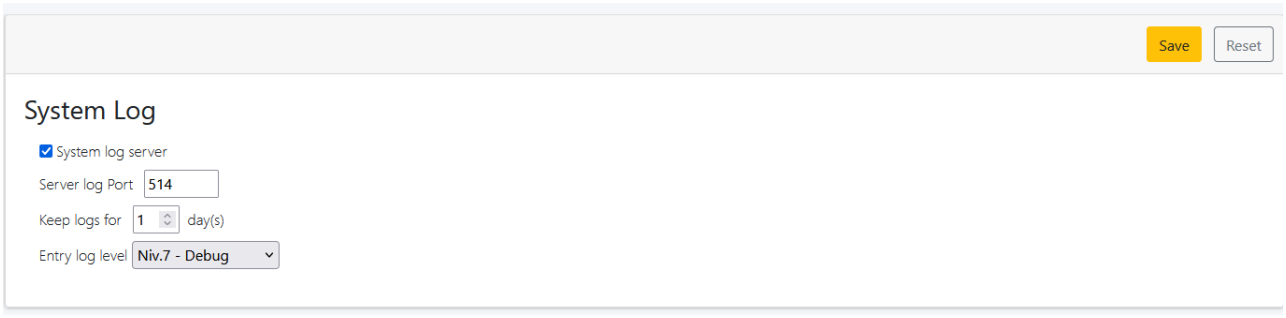
- Telemetry

Here we define the port used by the telemetry protocol. The default value is 8628, and it must correspond to the Acksys telemetry server port parameter programmed in the **Setup→Statistics page of the products**. If the value is different, the status of the product changes to Warning state



To configure WaveManager to collect logs, connect In the WaveManager, browse to Settings → Syslog

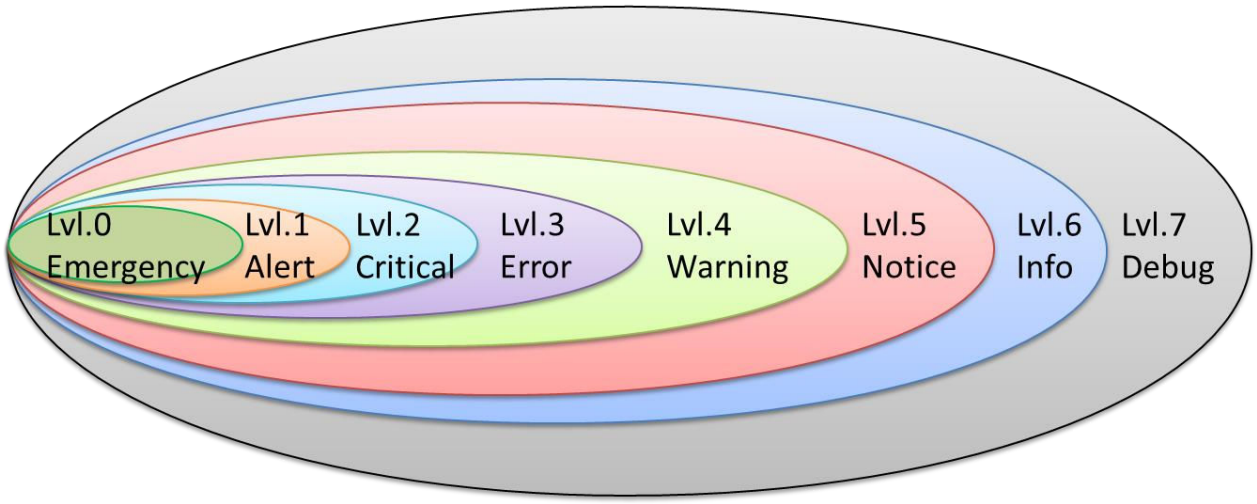
- Syslog Log server
  - Server log Port : 514
  - Keep logs for : 1 day (can be modified)
  - Entry log level



- Save

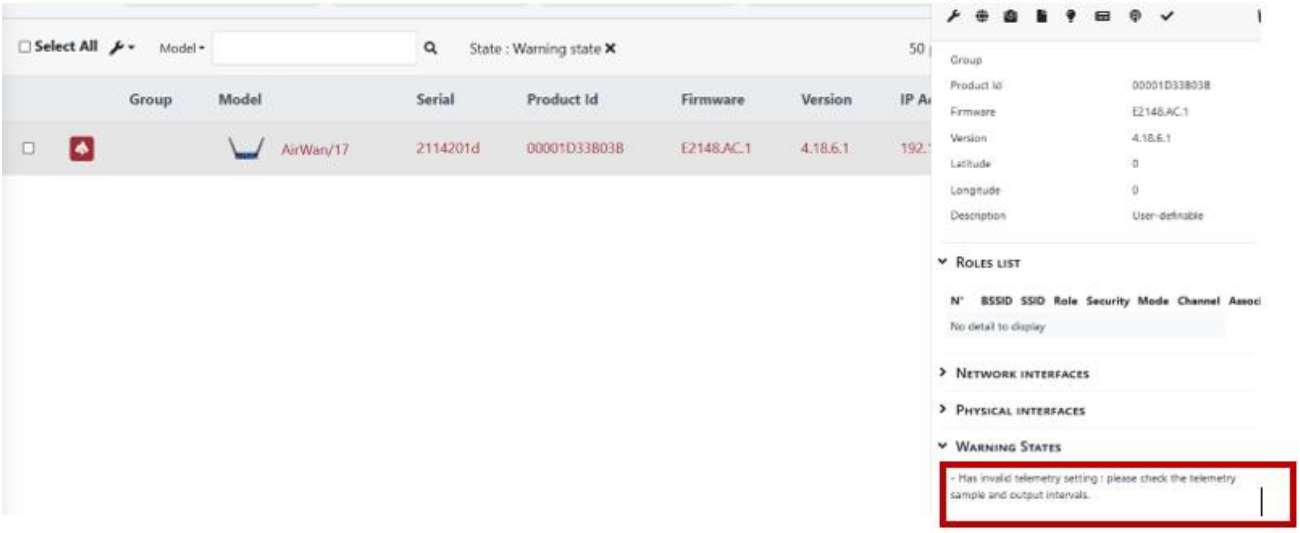
Logs Priority Level

Syslog severity levels are crucial components of system logging that help prioritize and categorize log messages. These levels range from 0 (Emergency) to 7 (Debug), providing a standardized way to assess the importance and urgency of system events. Understanding syslog levels is essential for effective system monitoring, troubleshooting, and maintaining network health

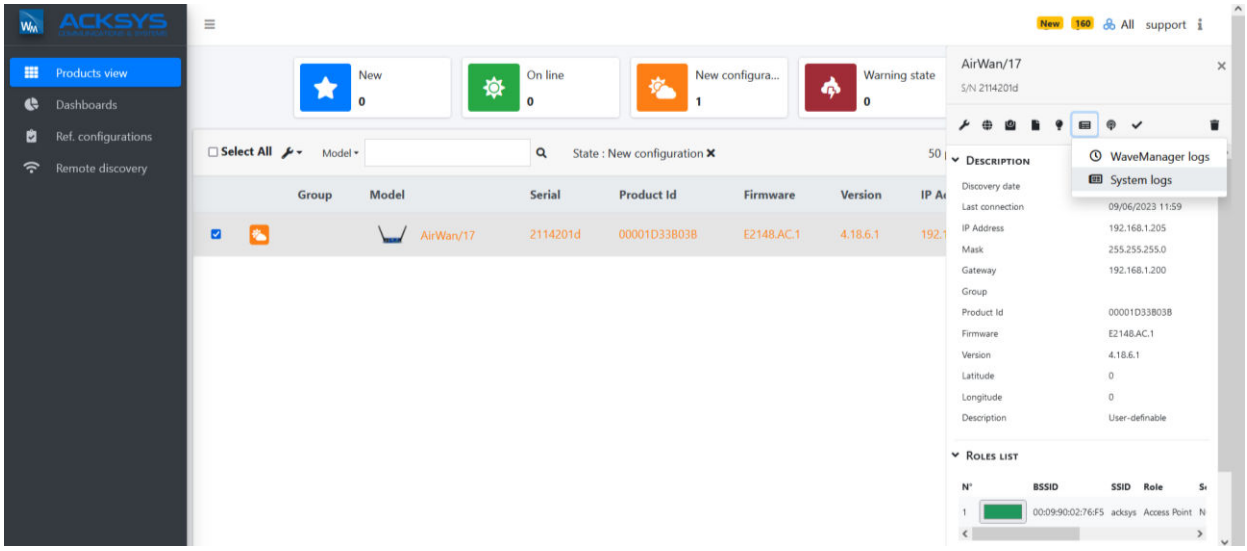


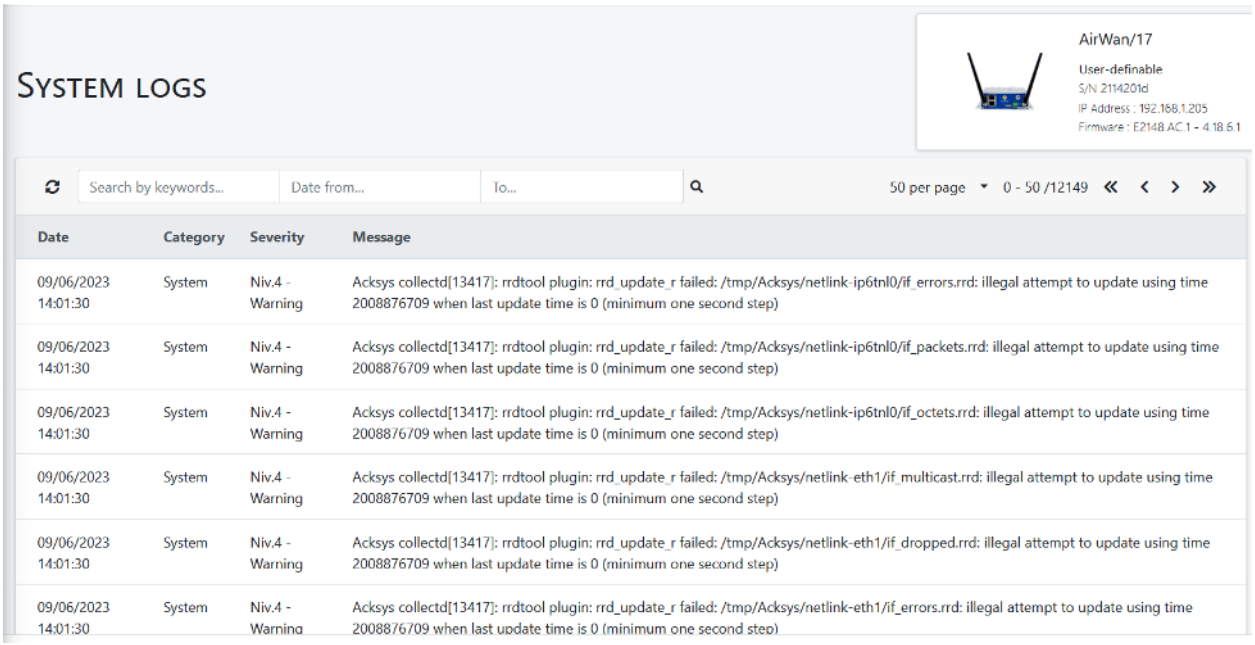
5. Testing

When you check Enable **product telemetry settings**, WaveManager will be able to send the telemetry parameters to all online products.
Please Connect in WaveManager , Product View→ Select your router, click on Log Icone and select System Log to view system log.

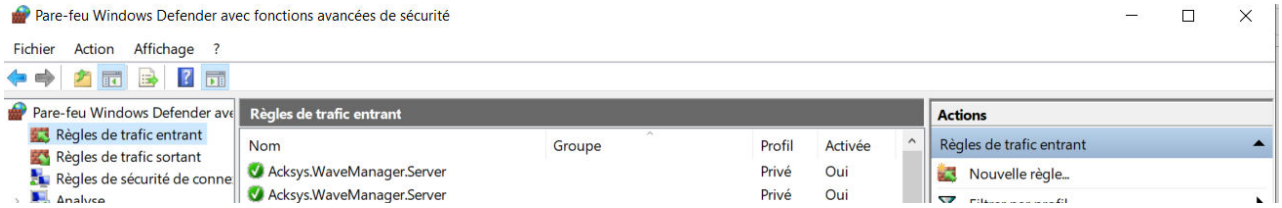


Connect in WaveManager , Product View, Select your router, click on Log Icone and select System Log to view system log.





Allow WaveManager on the computer firewall (where WaveManager is running).



Support : https://support.acksys.fr