

SIEM INTEGRATION SERVICE FOR CLOUD-MANAGED R&S®LANCOM UNIFIED FIREWALLS



Robust security management is essential, especially for larger organizations and managed service providers (MSPs). A centralized Security Information and Event Management (SIEM) system helps organizations detect, analyze, and respond to security threats quickly, preventing damage to business operations.

We invite you to enhance your SIEM with our integration service for cloud-managed R&S®LANCOM Unified Firewalls, ensuring comprehensive detection of attacks on your network infrastructure.

Compliance with market-leading SIEM systems

Our solution drastically simplifies integration with popular SIEM systems like Microsoft Azure Sentinel, Splunk, Enginsight, Wazuh, and Logpoint. The R&S®LANCOM Management Cloud (R&S®LMC) collects event logs from all managed Unified Firewalls in a network, providing a single endpoint for SIEM systems to retrieve all logs in standard JSON format. This setup ensures quick visibility of network infrastructure attacks, enabling rapid response to threats such as viruses, malware, and DDoS attacks.

Easy setup with the R&S Networks and Cybersecurity SIEM integration service

Our experienced support team will assist you with an uncomplicated integration process:

- 1. Create a ticket with the R&S Networks and Cybersecurity support team:** Open a support ticket and submit the request for the SIEM integration service.
- 2. R&S Networks and Cybersecurity support contacts you:** Our team prepares the necessary configurations for the Unified Firewalls and the R&S®LANCOM Management Cloud.
- 3. Receive a security token:** After setup, you will receive a security token for secure communication between the R&S®LMC and your SIEM system.
- 4. Rollout of the configuration:** At a time of your choice, you roll out the configuration of your Unified Firewalls via the R&S®LMC and update their firmware if needed.
- 5. Configure the interface in your SIEM:** If required, we provide all the necessary information to retrieve and analyze the logs.

USING SIEM WITH R&S®LANCOM UNIFIED FIREWALLS IN THE R&S®LMC (ONELOG)

In the following we describe, how a SIEM system can be used with R&S®LANCOM Unified Firewalls in the R&S®LMC.

Requirements

- ▶ Your R&S®LANCOM Unified Firewall must be managed by the R&S®LMC
- ▶ The Unified Firewall must be assigned to a site
- ▶ The Unified Firewall must be assigned the role Gateway
- ▶ Access to the R&S®LMC to update and roll out the configuration of the Unified Unified Firewall
- ▶ LCOS FX as of version 10.13 Rel ([download latest version](#))
- ▶ Configured and functional SIEM system

The SIEM implementation in the R&S®LMC has been successfully tested with the following SIEM systems:

- ▶ Microsoft Sentinel
- ▶ Splunk
- ▶ Enginsight
- ▶ Wazuh
- ▶ Logpoint

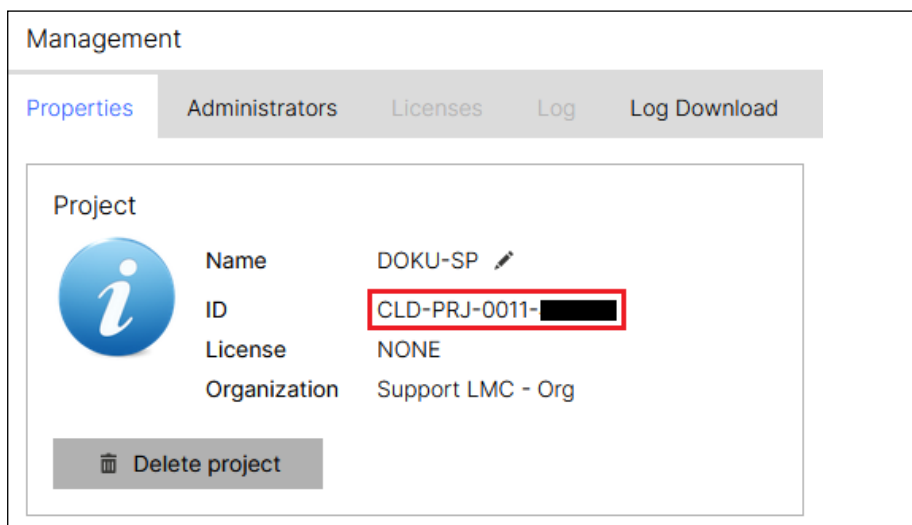
PROCEDURE

1. Activate SIEM support within the R&S® LMC

SIEM support is activated in your R&S® LMC project by Rohde & Schwarz Networks and Cybersecurity at your request.

Send an activation request for SIEM support to R&S Networks and Cybersecurity Support and enclose your Project ID.

You can find the Project ID in the R&S® LMC menu ,Management → Properties'.



2. Provide IDPS messages from the Unified Firewall for the SIEM system

After activating SIEM support the Unified Firewall changes to the state Outdated. Roll out the configuration to the Unified Firewall, so that the IDPS alerts are provided.

As of December 2024 only IDPS alerts are provided. Support for additional logs will be added in future R&S®LMC and LCOS FX versions.

The screenshot shows a web interface for managing devices. At the top, there's a 'Devices' header with a search bar and several action buttons: '+ Add device', 'Activation codes', 'Filter by', 'Scheduled events', 'Create table view', and a red box around a menu icon. Below this is a table with columns: Name, Status, Name, Model, Serial Number, Site, IP Address, Configuration, and Firmware. The first row is highlighted with a red box, and a dropdown menu is open showing options: 'CONFIGURATION & FIRMWARE', 'Configuration roll out', 'Firmware update', 'Apply Add-in', and 'Assign preconfiguration'.

Name	Status	Name	Model	Serial Number	Site	IP Address	Configuration	Firmware
uf	Online	UF-406240814251	vFirewall	406240814251		10.254.18.78	Outdated	10.13.7514 RUB

CONFIGURATION & FIRMWARE

Configuration roll out

Firmware update

Apply Add-in

Assign preconfiguration

Connect to the Unified Firewall via the WEBconfig tunnel in the R&S®LMC and check in the menu ,Monitoring & Statistics → Settings', if the additional column R&S®LMC was rolled out and if the option is active for IDPS Alert.

Settings

Monitoring & Statistics

?

×

✓

Saved version

Event Monitoring in the LMC is enabled. Events of the types marked below with a check mark are transmitted. For events of other types statistics are collected and transmitted. These settings can be changed via the LMC.

i

A higher Mode will always include the lower levels. For example, if "Save Raw Data Locally" is selected, then this will also send the data to an external syslog server and create statistics.

!

Use the setting "Save Raw Data Locally" only for debugging purposes, since it can put the system under heavy load and shorten the life expectancy of the SSD.

Event Type	Mode	LMC
All Event Types <i>i</i>		×
Blocked Inbound Traffic <i>i</i>	Save Raw Data Locally	×
Blocked Forwarded Traffic <i>i</i>	Create Statistics	×
IDPS Alert <i>i</i>	Save Raw Data Locally	✓
Connection Finished <i>i</i>	Create Statistics	×
Malware Alert (Mail) <i>i</i>	Save Raw Data Locally	×
Malware Alert (HTTP and FTP) <i>i</i>	Save Raw Data Locally	×
Spam Alert <i>i</i>	Save Raw Data Locally	×
Web Content Allowed <i>i</i>	Create Statistics	×
Web Content Blocked <i>i</i>	Create Statistics	×
Appfilter Alert <i>i</i>	Create Statistics	×

Reset

Close

3. Generate a SIEM API Secret in the R&S® LMC

In the R&S® LMC go to the menu ,Project specifications → External services → SIEM' and click on ,Create API Secret Key'.

[Project specifications](#) > [External services](#) > SIEM

Security Information and Event Management (SIEM)

A SIEM system (Security Information and Event Management) is a software solution that collects, monitors, and analyzes security-related data from various sources to detect potential threats and incidents. The LANCOM Management Cloud offers an API that allows the retrieval of network logs from network devices for an external SIEM system, enabling the collection and analysis of security-related data.

To get started, first configure log collection in your project. Then, connect your SIEM system to our API and include the API key in the request header for authentication. Further details can be found in our Knowledge Base article and the public Swagger definition of our API.

API Secret	-
Created at	-

[+ Create API Secret Key](#)

Copy the Secret Key and save it in a secure location. Enter the Secret Key in your SIEM system afterwards.

Create API Secret Key ×

Your secure API key for a seamless SIEM integration has been created.

Please keep the key in a safe place, as it will not be possible to request it again. To do this, first copy it to the clipboard.

Afterwards you can use it to connect your SIEM system.

eyJraWQiOiIxliwidHlwIjoieTE1DLUFQSS1LRVlk

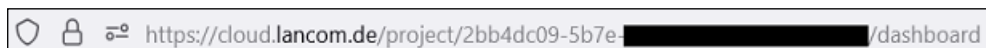
Copy

4. Example commands in the SIEM API

You can find the SIEM API documentation (swagger) under the following [link](#).

In order to be able to use the SIEM API, you need the UUID of your R&S®LMC project as well as the API Secret Key (see step 3).

When you are logged in to your R&S®LMC project, you can find the UUID in the address bar of the browser after project/.



DeviceLogs

With the endpoint DeviceLogs you can read out the device logs for the specified account.

The command must be entered in the following format:

GET /cloud-service-siem/accounts/<UUID of your R&S®LMC project>/logs HTTP/1.1

Host: cloud.lancom.de

Authorization: LMC-API-KEY <API Secret Key (see step 3)>

Example test query (without valid account data or Secret Key)

```
curl --request GET \  
--url https://cloud.lancom.de/cloud-service-siem/accounts/ea96d5d0-01f6-498a-b9ec-629be24eae9e/logs \  
--header ,Authorization: LMC-API-KEY eyJraWQiOiJlxlwldHlwIjoieTE1DLUFQSS1LRVkiLCJhbGciOiJIUzI1NiJ9.3zezFHKzC  
YJICgh-3V1KN0yEe8ITUQEE75DXc-Vv2Dc._93wf35NVk8Q6yt7omWzyohTgW58424tQzRFIPgr111' \  

```

Successful result message

```
{  
  "startOffset": 10,  
  "endOffset": 109,  
  "nextOffset": 110,  
  "count": 100,  
  "deviceLogs": [  
    {  
      "deviceId": "ea96d5d0-01f6-498a-b9ec-629be24eae9e",  
      "accountId": "ea96d5d0-01f6-498a-b9ec-629be24eae9e",  
      "siteId": "ea96d5d0-01f6-498a-b9ec-629be24eae9e",  

```



```

    "messageId": "8bb136e3-0c4e-459e-8cd7-85b8209e2e3b",
    "createdAt": "2022-12-21T13:17:40.78731Z",
    "receivedAt": "2022-12-21T13:17:40.78731Z",
    "rawMessage": "IDPS: Malicious message detected [Classification: ] [Severity: 3] [Signature Id: 5000000] [Action:
allowed] [Source: 10.10.10.20:0] [Destination: 8.8.76.5:0]",
    "severity": "3",
    "additionalProperties": {
      "category": "IDPS",
      "idps_event_type": "alert",
      "signature": "5000000",
      "idps_category": "",
      "source_ip": "10.10.10.20",
      "source_port": "0",
      "destination_ip": "8.8.76.5",
      "destination_port": "0",
      "action": "allowed"
    }
  },
  "_links": {
    "self": "https://cloud.lancom.de/cloud-service-siem/accounts/ea96d5d0-01f6-498a-b9ec-629be24eae9e/
logs?offset=1&limit=100",
    "next": "https://cloud.lancom.de/cloud-service-siem/accounts/ea96d5d0-01f6-498a-b9ec-629be24eae9e/
logs?offset=101&limit=100"
  }
}

```

Offsets

With the endpoint Offsets you can read out the number of the first logfile and the next unread logfile as well as the offset limit for the specified account.

The command must be entered in the following format:

```
GET /cloud-service-siem/accounts/<UUID of your R&S®LMC project>/offsets HTTP/1.1
```

Host: cloud.lancom.de

Authorization: LMC-API-KEY <API Secret Key (see step 3)>

Example test query (without valid account data or Secret Key)

```
curl --request GET \  
--url https://cloud.lancom.de/cloud-service-siem/accounts/30995a43-3705-439a-9c2c-da1331bb5106/offsets \  
--header 'Authorization: LMC-API-KEY eyJraWQiOiIwIDhlwJoiTE1DLUFQSS1LRVkiLCJhbGciOiJIUzI1NiJ9.3zezFHKzC  
YJlCgh-3V1KN0yEe8ITUQEE75DXc-Vv2Dc._93wf35NVk8Q6yt7omWzyohTgW58424tQzRFIP11111' \  

```

Successful result message

```
{  
  "startMinOffset": 0,  
  "nextUnreadOffset": 99,  
  "endMaxOffset": 100  
}
```

Technical prerequisites

- ▶ Your R&S®LANCOM Unified Firewalls (all models) are managed in the R&S®LANCOM Management Cloud (R&S®LMC).
- ▶ Minimum firmware version:
 - ▶ LCOS FX 10.13.6566 (REL) or higher
 - ▶ LCOS FX-I 1.0 or higher
- ▶ The firewalls are assigned to a location and configured as a gateway
- ▶ You have your Cloud ID or UUID at hand
- ▶ You have access to the R&S®LMC to update the firewalls and roll out the configurations.

By integrating cloud-managed Unified Firewalls into your SIEM, you can optimize your security processes and safeguard your IT infrastructure. Our integration service ensures a smooth rollout.

[Get in touch with us today!](#)

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