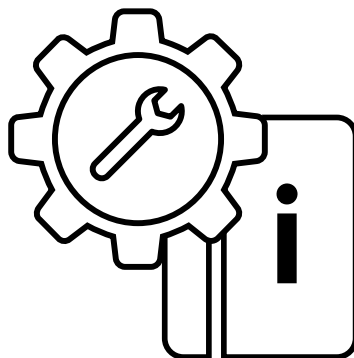


Installation Guide

# **LMC access for LCOS-based devices**



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# Configuration via the LANCOM Management Cloud

In order to configure a LANCOM device via the LANCOM Management Cloud (LMC), it must first be integrated into the LMC.



Integrating the device into the LMC requires the device to be connected to the Internet and able to reach [cloud.lancom.de](https://cloud.lancom.de). If a router that is intended to provide Internet access is to be integrated into the LMC, the first step is to perform a basic configuration and to configure an Internet connection.

There are several different methods of integrating a LANCOM device into the LANCOM Management Cloud:

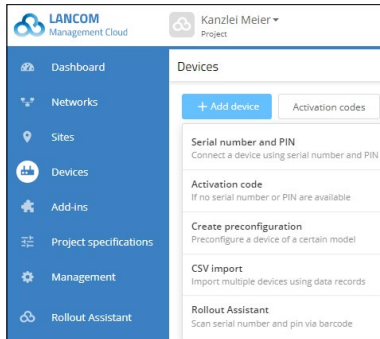
- Integration into the LANCOM Management Cloud by serial number and Cloud PIN
- Integration into the LMC by LMC Rollout Assistant
- Integration into the LANCOM Management Cloud by activation code

## Integration into the LMC by serial number and Cloud PIN

You can easily add your new device to a project in the LANCOM Management Cloud (Public). You will need the serial number of the device and the associated Cloud PIN. You can find the serial number on the bottom of the device or in LANconfig or WEBconfig. The Cloud PIN can be found on the Cloud-ready flyer, supplied with the device.



In the LANCOM Management Cloud, open the **Devices** view and click **Add new device**, then select the desired method, here **Serial number and PIN**.



In the next window, enter the serial number and Cloud PIN of the device. Then confirm with the button **Add new device**.

The screenshot shows the 'Add new device' form. At the top, it says 'Add new device'. Below this is a text block: 'Please enter here the serial number and PIN of your LANCOM device. The serial number is located on the bottom side of the device. The PIN is printed on a sheet which is enclosed with the original box. You can use the printed LAN MAC address of the device on this sheet to identify the correct device if sheet and device have been separated.' There are two input fields: 'Serial number' and 'PIN'. To the right of these fields are two images: the top one shows a device with a red box highlighting the serial number, and the bottom one shows a PIN sheet with a red box highlighting the PIN and a barcode. Below the input fields is a dropdown menu labeled 'Assign a site to use its software-defined configuration on this device.' with 'No site' selected. At the bottom right are 'Cancel' and 'Add device' buttons.

The next time the LANCOM device has contact with the LANCOM Management Cloud (Public), it will be paired automatically.

## Integration into the LMC by LMC Rollout Assistant

The Rollout Assistant is a web application. It uses a device equipped with a camera and Internet access, such as a smartphone, tablet or notebook, to read the serial number and PIN. It offers an extremely easy way to connect the device to the LMC.

To start the Rollout Assistant, just enter the URL [cloud.lancom.de/rollout](https://cloud.lancom.de/rollout) into a browser. The Rollout Assistant opens with this login screen:

The screenshot displays the LANCOM Management Cloud Rollout Assistant interface. The left panel contains the login form with the LANCOM logo, the text 'LANCOM Management Cloud Rollout Assistant', a 'LOGIN' heading, and input fields for 'E-mail' and 'Password'. A 'Login' button is positioned below the password field. At the bottom of the left panel, there is copyright information: '© 2014 - 2020 LANCOM Systems GmbH' and 'RA version 0.1.2', along with language options 'Deutsch', 'English', and 'Imprint'. The right panel features the LANCOM logo and 'Rollout Assistant' header. Below this, it shows the 'Selected project' as 'LMC-Tutorial' with a blue cloud icon. At the bottom of the right panel is a green button with a router icon and the text 'Add new device'.

You select the desired language and login to the LMC using your credentials. On the next page, you select the project that new devices are added to. Do this by tapping the green button and scanning the serial number. The Rollout Assistant may request access to the camera on the device to do this. You scan the serial number either on the underside of the device or alternatively from the barcode on the packaging box. Otherwise, you can enter the serial number manually.

Next, scan the cloud PIN from the information sheet enclosed with the device. Here, too, you have the option of entering the PIN manually. Now you can select one of the locations available in the project, or optionally use **No location** to leave this item open. Bear in mind that the location is an important setting for the configuration by SDN (Software-defined Networking).

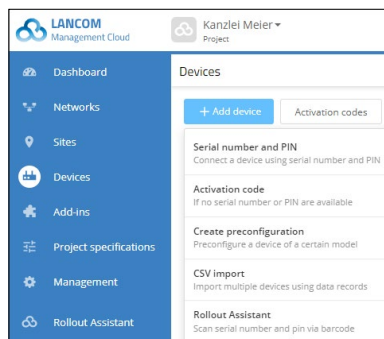
In the next step, you assign various properties to the device. You give the device a name, enter an address, and take a photo of the installation. The address can be determined with the GPS information from your device. In the final step, the information is displayed once again for checking. If you find any errors, simply go back and correct the corresponding entry. Click or tap **add device** to pair the device with the LMC. You will immediately see it in your project and can make other settings if necessary. As soon as you connect the device and it connects with the LMC, it is provisioned with an initial operating configuration based on the SDN settings, and the status changes to "online".

## Integration into the LMC by activation code

This method uses LANconfig and just a few steps to integrate one or more LANCOM devices simultaneously into the LANCOM Management Cloud.

### Create an activation code

In the LANCOM Management Cloud, open the **Devices** view and click **Add new device**, then select the desired method, here **Activation code**.



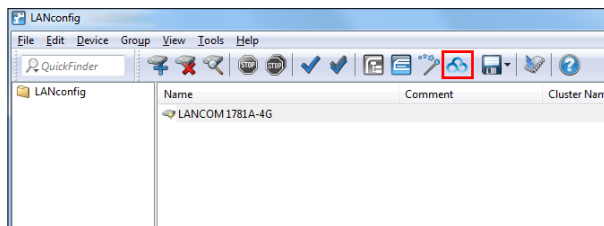
Create an activation code by following the instructions in the dialog. This activation code allows you to integrate the LANCOM device into this project at a later time.



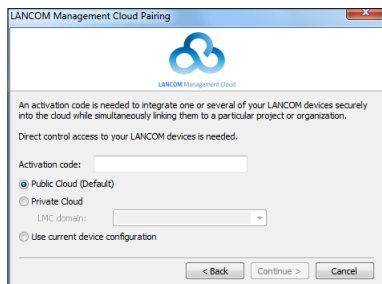
The **Activation code** button displays all of the activation codes for this project in the Devices view.

### Using the activation code

Open LANconfig and select the desired device or devices and click the Cloud icon in the menu bar.



In the dialog window that opens, enter the activation code that you generated previously and click the button **OK**.



If you copied an activation code to the clipboard, it is automatically entered into the field.

Once the device is paired with the LANCOM Management Cloud, it is available in the project for further configuration.



## Zero-touch & auto configuration

A LANCOM device in its factory settings will initially try to contact the LMC. If it succeeds, i.e. the device has Internet access, then the LMC can check whether the device is already assigned to a project. In this case, it rolls out the auto-configuration created by software-defined networking (SDN) to the device.

If the location has an upstream Internet router with an activated DHCP server, a gateway with a dedicated WAN Ethernet port, such as a LANCOM 1900EF, can be connected to this and automatically has access to the LMC. Another possibility here are the xDSL connections from certain providers that provide dial-in without authentication (BNG).

This eliminates the basic configuration and the router immediately receives the correct configuration. What this means is that you do not actually have to carry out any on-site configuration of the access points, switches and (if applicable) the router, i.e. "zero touch" for the administrator.

If necessary, switch off the automatic contact attempts to the LMC in LANconfig or WEBconfig under **Management > LMC**.

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