

# LCOS FX 11.2

## Addendum

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**LANCOM**  
SYSTEMS

# Contents

<b>1 Addendum to LCOS FX version 11.2.....</b>	<b>4</b>
<b>2 Changes to objects managed by the LANCOM Management Cloud.....</b>	<b>5</b>
<b>3 Changes in BGP settings.....</b>	<b>6</b>
<b>4 Renaming of “Proxy CAs” .....</b>	<b>7</b>
<b>5 Changes in the SAML settings.....</b>	<b>8</b>
<b>6 Let's Encrypt key type.....</b>	<b>10</b>
<b>7 Change in Reverse Proxy frontend.....</b>	<b>11</b>

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# 1 Addendum to LCOS FX version 11.2

This document describes the changes and enhancements in LCOS FX version 11.2 since the previous version.

## 2 Changes to objects managed by the LANCOM Management Cloud

Objects and settings managed by the LANCOM Management Cloud (LMC) continue to be labeled accordingly. However, compared to the previous functionality, there are now extended options for working with these objects.

Previously, objects managed by the LMC could only be viewed in the web client, but could neither be edited nor used in other configurations. Referencing these objects was not possible. For example, an application filter profile created by the LMC could not be used in a custom desktop connection.

With the new functionality, objects managed by the LMC can still be viewed in the web client and can now also be edited to a limited extent. Only parameters that are not set directly by the LMC can be edited, such as the description or the assigned desktop tag of a desktop object.

In addition, it is now possible to reference objects managed by the LMC and use them in custom configurations. For example, an application filter profile created by the LMC can be used in a custom desktop connection, or a VLAN interface created by the LMC can be referenced in a custom desktop object.

### 3 Changes in BGP settings

As of LCOS FX 11.2, the option **R. Table** (Destination routing table) was added to the individual neighbors in the BGP settings.

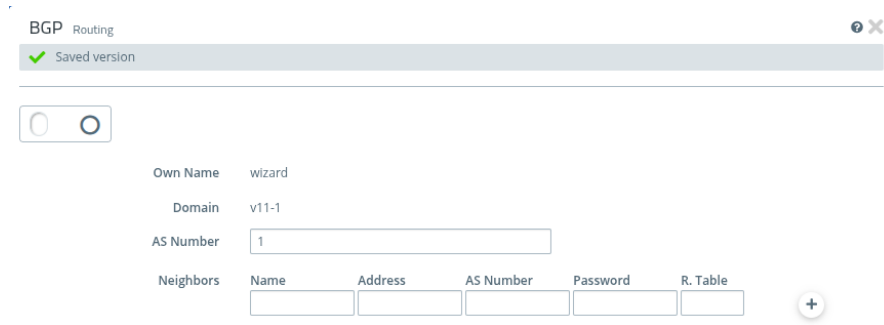


Figure 1: Network > Routing > BGP

Input field	Description
<b>R. Table</b>	Specify the optional destination routing table for the BGP peer. If set to 0 or left empty, the globally configured destination routing table will be used. Other valid values are 254 or the range from 512 to 65535.

## 4 Renaming of "Proxy CAs"

As of LCOS FX 11.2, the menu item  **Certificate Management** > **Proxy CAs** was renamed to **Truststore**.

Since the certification authorities (CAs) managed here are not only relevant for the proxy but also for other parts of the system—such as access to the IdP API used for SAML functions—the old name was no longer appropriate.

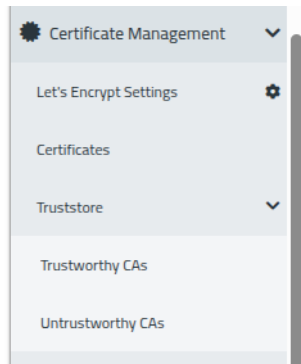


Figure 2:  **Certificate Management** > **Truststore**

## 5 Changes in the SAML settings

As of LCOS FX 11.2, the following changes to the SAML settings have been introduced for both the internal and external portal. New options are now available for using the certificate truststore, selecting an optional IdP certificate (formerly "IdP Certificate (PEM)"), and specifying a base group ID.

In earlier versions, a certificate in PEM format had to be copied or imported into a text field. This procedure has been changed. The desired certificate must now first be imported into the certificate management. The imported certificate can then be selected via **IdP Certificate**. Alternatively, the new option **Use Certificate Truststore** can be enabled. In this case, the server certificate is validated against the system certificate truststore, and no separate certificate needs to be specified.

After updating to LCOS FX 11.2, a certificate previously stored in PEM format is automatically imported into the certificate management and selected, provided the text field contained exactly one certificate. If the PEM data contained multiple certificates, automatic selection is not possible, as only a single certificate can be specified now. Following an update, a message will appear prompting you to complete the configuration (see below).

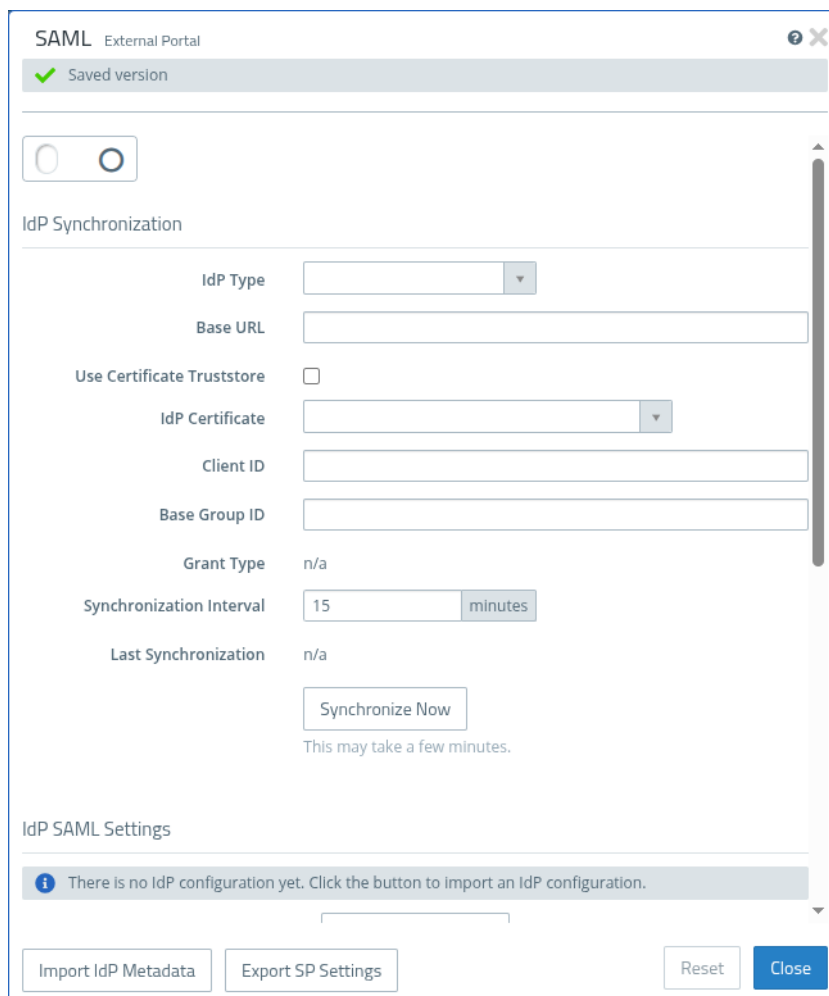


Figure 3: User Authentication > External or Internal Portal > SAML

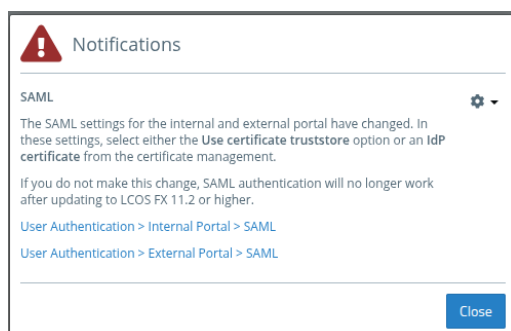
Input field	Description
<b>Use Certificate Truststore</b>	Instead of specifying a certificate under <b>IdP Certificate</b> , this option can be enabled. In this case, the verification of the server certificate is performed against the system certificate truststore. No certificate needs to be specified.
<b>IdP Certificate</b>	Optional. If the connection between the firewall and the IdP uses a certificate that the firewall does not trust, it can be selected here so that a secure connection can be established. This is useful, for example, for self-signed certificates. The certificate must be imported into the certificate management beforehand.  Alternatively, instead of specifying a certificate, the option <b>Use Certificate Truststore</b> can be enabled. In this case, the verification of the server certificate is performed against the system certificate truststore. No certificate needs to be specified.
<b>Base Group ID</b>	Optional. Specify this ID to synchronize only a specific group (and its subgroups). This option can be used to reduce the scope of the IdP synchronization. It is particularly useful when a large number of groups exist and synchronization takes a long time.

### Notifications

A new notification is displayed in the client after upgrades or when restoring a backup if

- > the SAML settings are enabled,
- > no IdP certificate has been selected,
- > and the option **Use Certificate Truststore** is not enabled.

These last two conditions may occur in particular after upgrading to LCOS FX 11.2 or when restoring older backups.



## 6 Let's Encrypt key type

As of LCOS FX 11.2, a new field has been added to the Let's Encrypt settings that allows you to specify the key type used for generating Let's Encrypt certificates. Previously, the default value was RSA with a key length of 2048 bits.

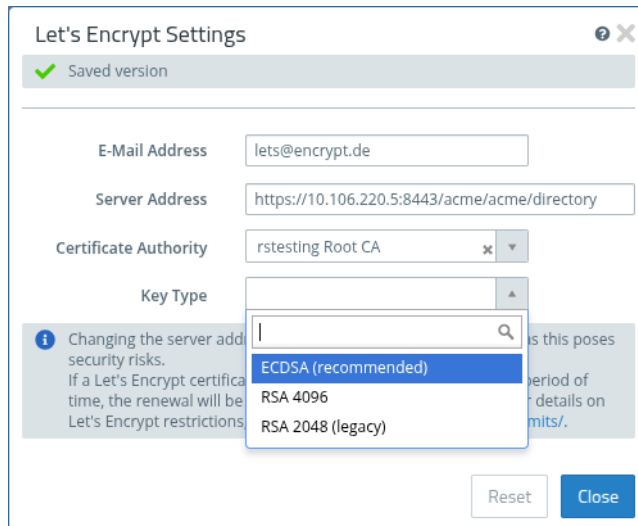



Figure 4: Certificate Management > Let's Encrypt

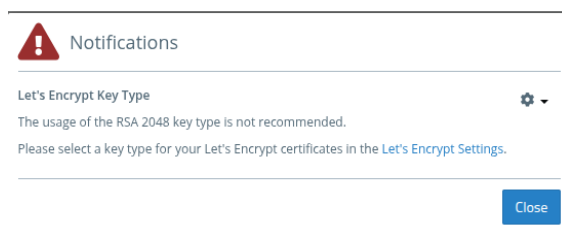
Input field	Description
Key Type	Select the key type to be used for generating the Let's Encrypt certificates. The available options are ECDSA (recommended), RSA 4096, and RSA 2048 (legacy).   When changing the key type, a confirmation prompt will appear. After confirmation, all previously used certificates that do not match the new key type will be immediately renewed with the new type.

### Notifications

After

- > upgrading to LCOS FX 11.2,
- > restoring an older backup, and
- > when using RSA 2048,

a one-time notification is displayed indicating that the use of this key type is not recommended.



## 7 Change in Reverse Proxy frontend

As of LCOS FX 11.2, a new option has been added to the Reverse Proxy frontend settings to prevent repeated password prompts when accessing Outlook through the Reverse Proxy. At the same time, the **Allow "Outlook Anywhere"** option has been removed.

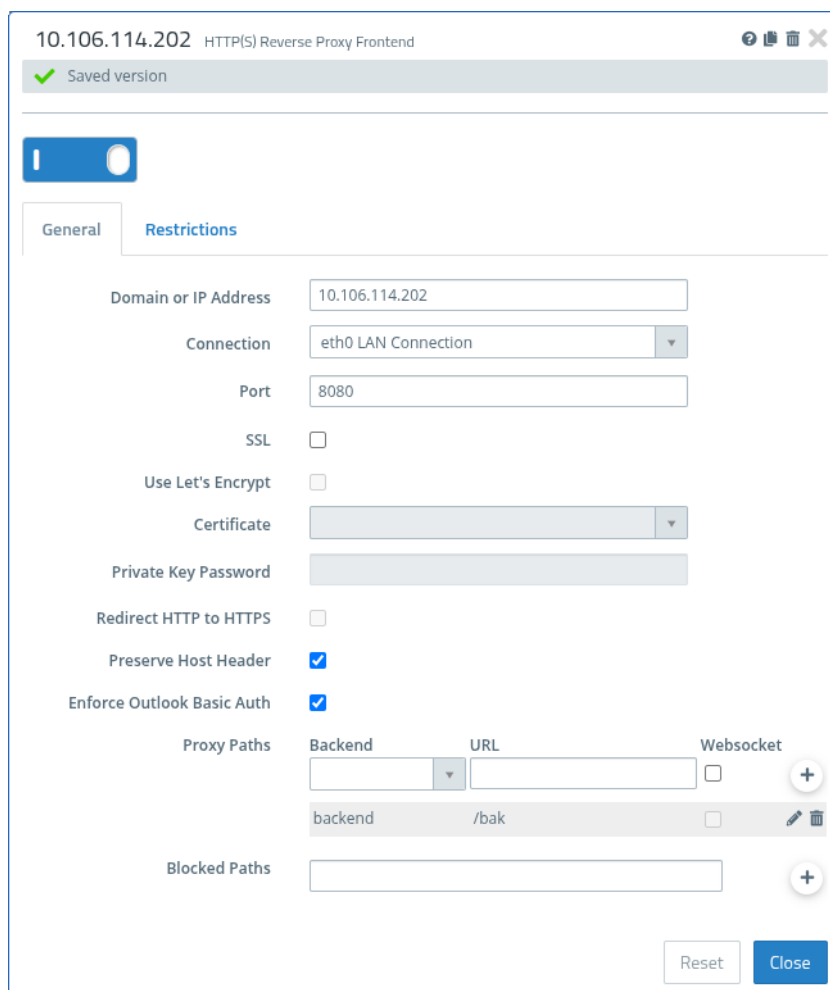


Figure 5: UTM > Reverse Proxy > HTTP(S) Frontends

Input field	Description
<b>Enforce Outlook Basic Auth</b>	Set this option to prevent repeated password prompts when accessing Outlook through the reverse proxy.