



INSTRUCTIONS FOR ACTIVATING THE DNSSEC SERVICE

Add DS records

1. Log in via your account to the .cy Registry System at www.nic.cy. To activate the DNSSEC service, the user must have the role of either a licensee, administrative or technical contact.

From the Option "**Domain List / My Domains**" select from the active domain names the name in which you want to activate the DNSSEC service as shown below:

S/N	Domain	Application Date	Activation Date	Expiration Date	Roles	Status	Actions
1	www.test1.ac.cy	14/09/2020	21/09/2020	31/12/2024	Role	Active	[Edit] [Delete] [Refresh] [Print] [Help]

2. From the "**Actions**" option, click the **Edit** icon as shown by the red arrow below:

S/N	Domain	Application Date	Activation Date	Expiration Date	Roles	Status	Actions
1	www.test1.ac.cy	14/09/2020	21/09/2020	31/12/2024	Role	Active	[Edit] [Delete] [Refresh] [Print] [Help]

3. The following screen will be displayed:

The screenshot shows a web form titled "Edit test1.ac.cy". It contains three input fields for contact emails: "Administrative Contact Email", "Billing Contact Email", and "Technical Contact Email", all with the value "test@ucy.ac.cy". Below these are two sections: "DNS Servers" and "DNSSEC". At the bottom right, there are "Close" and "Submit" buttons.

4. Click **DNSSEC** and the following window will be displayed to enter the DS records (information provided by the DNS-Hosting Provider, as this company also supports DNSSEC and has already generated the keys for this domain name).

The screenshot shows the "DNSSEC" configuration window. It has a toggle switch for "DnsSec Enabled" which is currently turned off. Below the toggle is a table with the following columns: "Key Tag", "Key Algorithm", "Digest Type", "Digest", and "Actions". There is an "Add DS" button in the top right corner of the table area. At the bottom right, there are "Close" and "Submit" buttons.

5. From the screen above, press to activate **DNSSEC** as shown in the screen below:

This screenshot is identical to the previous one, but the "DnsSec Enabled" toggle switch is now turned on. A red arrow points to the toggle switch.

6. Next, select "**Add DS**". The following DS record information should be entered in the window that appears:

- **Key Tag:** An integer value less than 65536 that identifies the DNSSEC record for this domain name.
- **Key Algorithm:** The cryptographic algorithm that generates the signature.
- **Digest Type:** Identifies the algorithm used to construct the digest of the DNSKEY.
- **Digest:** A cryptographic hash value of the referenced DNSKEY record.

Add DS

Key Tag * i

Key Algorithm * i

Digest Type * i

Digest * i

CONFIRMATION

CLOSE

Example:

DS record for the domain name test1.ac.cy:

DS 1233 8 3

BCE5826D595C4A907CCFE00A69D1B158EAD0EC4BEA11946DBFE448DFC2C8E2EE

According to the above example the above fields will be completed as follows:

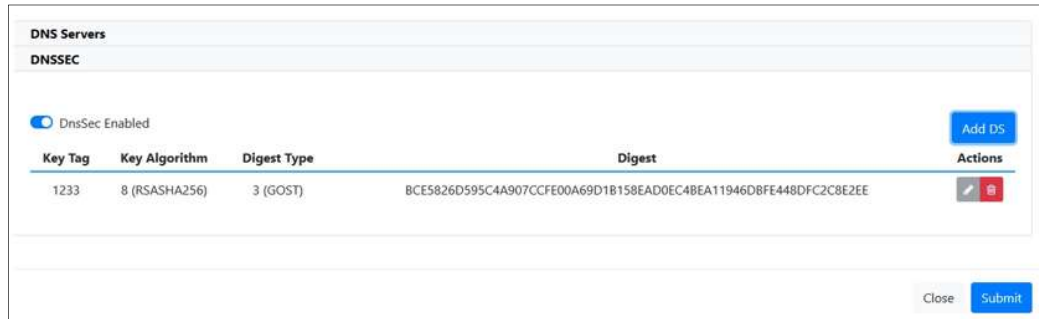
Key Tag: 1233

Key Algorithm: 8

Digest Type: 3

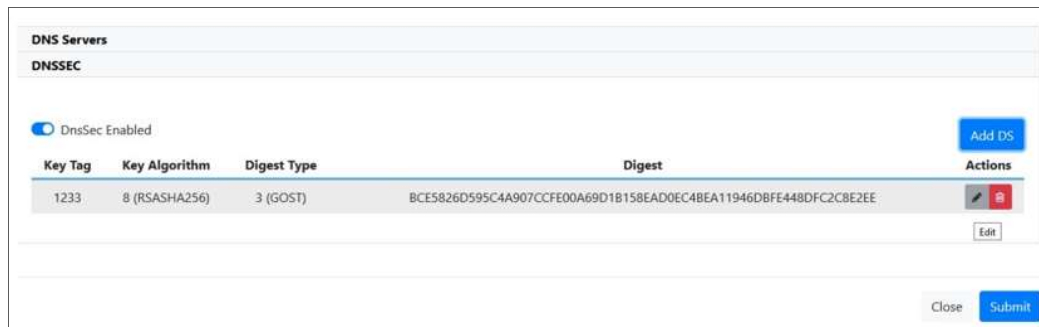
Digest: BCE5826D595C4A907...D1B158EAD0EC4BEA11946DBFE448DFC2C8E2EE

7. Make sure you have entered all the requested information correctly and click **"Confirmation"**.
8. To add two DS recordings, you must select the **"Add DS"** option again and enter the information related to the 2nd record.
9. In case you need to edit the information, you have entered, select **Edit (pencil icon)** and the previous screen will be displayed.
10. After making sure that you have entered the information correctly, click **"Submit"**. The process is completed and the domain name is signed. Please note that the update of the primary server is done every 3 hours.



Change existing DS records

1. In case there is a need to change the DS record and submit new information, follow all the steps from point 1-3 mentioned above.
2. In point 4, after selecting the DNSSEC option, the following screen appears:



3. After selecting the **Edit option (pencil icon)** the following screen is displayed for DS editing. Proceed with the changes you want and then select "**Confirmation**" and "**Submit**" to complete the submission changes.

Add DS

Key Tag * [?](#)

Key Algorithm * [?](#)

Digest Type * [?](#)

Digest * [?](#)

CONFIRMATION

CLOSE

Delete an existing DS key

1. In case you want to delete the existing DS record for a domain name follow all the steps from point 1-3 mentioned above.
2. In point 4 the following screen appears and select "**Delete**".

DNS Servers

DNSSEC

DnsSec Enabled [Add DS](#)

Key Tag	Key Algorithm	Digest Type	Digest	Actions
1233	8 (RSASHA256)	3 (GOST)	BCE5826D595C4A907CCFE00A69D1B158EAD0EC4BEA11946DBFE448DFC2C8E2EE	Delete

[Close](#) [Submit](#)

3. After selecting **Delete** in the next step you will be asked to confirm it as shown below:



4. Selecting "**Confirmation**" deletes the DS record for the specific domain name which will no longer be signed.