

Factsheet on Key-Systems™ Domain PinLock (Stand: 13-09-20)

You can now prevent your valuable domain names from unauthorized or unwanted changes using the Key-Systems Domain PinLock service.

By using the PinLock service you enable a two-way protection against any domain modification such as:

- renewal and transfer mode settings (setDomainRenewalMode / setDomainTransferMode)
- whois changes (modifyDomain)
- nameserver settings (modifyDomain)
- accidental/unauthorized domain deletions (deleteDomain)

Modifications to domain names protected with Domain PinLock can still be accomplished by requesting a one-time token for the domain. The modifications are performed providing the code received via short message service (SMS) to a pre-defined number.

All modifications using the one-time token need to be performed within a 30 minute window after the code was generated (by use of the command RequestDomainPin).

Example of Setting the Domain PinLock for the Domain Name example.com

```
[COMMAND]
command=SetDomainPinLock
domain=example.com
AuthorityNumber=+491726367025
pinlock=1
EOF
```

Upon successful execution:

```
[RESPONSE]
code = 200
description = Command completed successfully; confirmation pending
property[info][0] = Please resend this command with the one-way token
to activate the PinLock service.
property[messageid][0] = <INT>
```

In case the AuthorityNumber is invalid or the format is not supported:

```
[RESPONSE]
code = 549
description = Command failed
property[error][0] = Destination not recognized
```

After this command is issued a one-time token will be sent to the pre-defined phone number. Please note that the AuthorityNumber needs to be provided in international notation such as "+<country code><number without spaces and delimiters>" and needs to consist exclusively of the chars 0-9 and a leading "+".

In order to ensure that the specified number for AuthorityPhone is valid and the phone reachable, the same command needs to be re-issued including the one-time token sent to the mobile device:

<pre>[COMMAND] command=SetDomainPinLock domain=example.com AuthorityNumber=+491726367025 token=ABCD12345 pinlock=1 EOF</pre>
<pre>[RESPONSE] code = 200 description = Command completed successfully</pre>

To enable the Domain PinLock function the second call (including the one-time token) must be exactly the same as the originating call. Modifications to the AuthorityNumber or domain name would trigger an abuse warning. To disable the Domain PinLock function the same sequence must be used with the parameter "pinlock=0" instead of "pinlock=1".

After the execution of the above displayed command sequence all further modifications using the modifyDomain command must contain an additional token for the modification to be executed. Modifications without a valid token would result in responses like this:

<pre>[COMMAND] command=ModifyDomain domain=example.com admincontact0= P-ABC123 ... EOF</pre>
If no token is given in command sequence:
<pre>[RESPONSE] code = 541 description = Invalid attribute value; domain protected by Domain Pin-lock service. One-time token missing</pre>
If a token is given but invalid:
<pre>[RESPONSE] code = 531 description = Authorization failed; domain protected by Domain Pin-Lock service. Invalid token</pre>
If no one-time token has been requested for the domain name to be modified:
<pre>[RESPONSE] code = 531 description = Authorization failed; domain protected by Domain Pin-Lock service. Request token first</pre>

Modification Using a Valid Token Within the 30 Minutes Validity

```
[COMMAND]
command=ModifyDomain
domain=example.com
admincontact0= P-ABC123
token=ABCD12345
...
EOF
```

If no errors are raised due to the data given in the modify command:

```
[RESPONSE]
code = 200
description = Command completed successfully
```

In case the modification fails due to erroneous or invalid data (except for the one-time token itself), the one-time token is voided. A new token can be requested immediately.

In order to request a token the following command must be issued:

```
command=RequestDomainPin
domain=example.com
language=[ de | en ] optional, defaults to "en"
EOF
```

Upon success:

```
[RESPONSE]
code = 200
description = Command completed successfully
property[messageid][0] = <INT>
```

If there has been a token requested within the last 30 minutes:

```
[RESPONSE]
code = 541
description = Invalid attribute value; another token is still active; please
wait 00:29:33 more minutes to request a new token
```

If the domain name is not configured for the Domain PinLock:

```
[RESPONSE]
code = 541
description = Invalid attribute value; Domain PinLock service not activ-
ated
```

Tokens are always sent directly to the AuthorityNumber given during the activation of the Domain PinLock. For security reasons a token expires 30 minutes after it was generated. Additionally, subsequent commands to generate a new token within the 30 minutes window will result in the second error message as shown above.

The message sent to the mobile device looks as follows:

language = de Ihr einmaliges Passwort fuer die Modifikation der Domain <DO- MAIN> lautet: <TOKEN>	language = en (<i>default</i>) Your one-time password for the modification of <DOMAIN> is: <TOKEN>
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Messages can be customized; upon request we can provide different language versions.

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RRPproxy™ is a business area of the Key-Systems™ GmbH (www.key-systems.net), which administers more than 3 million domains for more than 70,000 retail and corporate customers and 1,800 resellers worldwide. The company with more than 70 employees is the second largest ICANN registrar in Europe and one of the 15 largest worldwide – in relation to the number of managed gTLD domain names (Source: webhosting.info). Further business areas of Key-Systems are a domain portal for end customers (domaindiscount24™) as well as the corporate domain portal BrandShelter™, the TIER III SKYWAY DataCenter, a service for registry operation (KSregistry) and the domainer software DNWorker.