



UNION REGISTRY

Establishing an ECAS Access and Register at the Union Registry

IMPRINT

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1 UNION REGISTRY

Emissions trading registries are at the core of the European Emissions Trading Scheme (EU ETS). This is where emission allowances are generated and transferred and evidence is produced that a company complied with its obligations within the EU ETS.

The EU Emissions Trading Scheme has been in place since 2005 and has been extended to include aviation from 2012. The plan was to replace all existing national registries of EU Member States by one registry covering the entire EU, the Union Registry, from 2012.

Accounts are opened and submitted documentation checked by the responsible Member States.

Each Member State has a dedicated area in the Union Registry to administer these accounts.

In the area of the Union Registry administered by Germany, applications for an account must be submitted online. The relevant form can be accessed through the following link:

<https://ets-registry.webgate.ec.europa.eu/euregistry/DE/index.xhtml>

Before you begin filling in the online form, please make sure all data required are at your disposal, as there is no temporary saving option in the online form. Which information these is is different depending on account type applied for. Please look at the relevant documents which are available at the [DEHSt website](#).

One of these data is the authorised representatives' Union Registry user ID (URID). The following pages describe how to proceed to generate a URID.

2 ECAS

The acronym ECAS stands for European Commission Authentication Service. All Union Registry logins are managed by this service. The EU Commission uses the authentication system primarily to give its employees access to internal IT systems.

Authorised representatives must generate their own ECAS login, which requires a valid e-mail address. A mobile phone number must be entered in order to get access to the Union Registry. The chapters below will explain how an ECAS login is created.

Whenever an ECAS-registered user logs in at the Union Registry for the first time, he or she will be directed to the ECAS login page. If the ECAS login has been successful, users will be automatically redirected to the Union Registry.

Existing ECAS users

If users already applied for an account in another member state's area of the Union registry they already have an ECAS login.

The existing login can be used to generate an URID in the German area of the Union registry. In order to do so users need to log into the Union registry as described in chapter 9 and create the URID.

One ECAS account is adequate to create additional URIDs for parts of the registry managed by other member states.

Once they have entered their personal data, they are registered and assigned a URID (Union Registry Identification Number).

The URID is needed for the opening of an account. An account holder applying for the opening of an account in the Union Registry must enter a URID for each of the authorised representatives nominated.

When submitting documentation for opening the account to the Registry Administration of the German Emissions Trading Authority (DEHSt), proof of identity for the authorised representatives must be included. Upon confirmation of the opening of the account by the Registry Administration, an enrolment key is generated, which is sent to the authorised representative nominated. The user must enter the enrolment key on the Union Registry website in order to get access to the newly created account.

The enrolment key is only required for first-time nominations as authorised representatives.

Here is a summary of the first-time registration procedure:

1. Each authorised representative must register with ECAS and provide a mobile phone number.
2. Registration with the Union Registry (separately for each authorised representative)
3. Automatic redirection to ECAS
4. Log into ECAS
5. Automatic redirection to the Union Registry
6. Authorised representatives must enter personal data
7. A user-specific URID is generated for each authorised representative
8. Authorised representatives must confirm their function by entering their URID in the account application.
9. An enrolment key is generated by the Registry Administration and sent to the authorised representatives upon opening the account.
10. Authorised representatives enter their enrolment keys

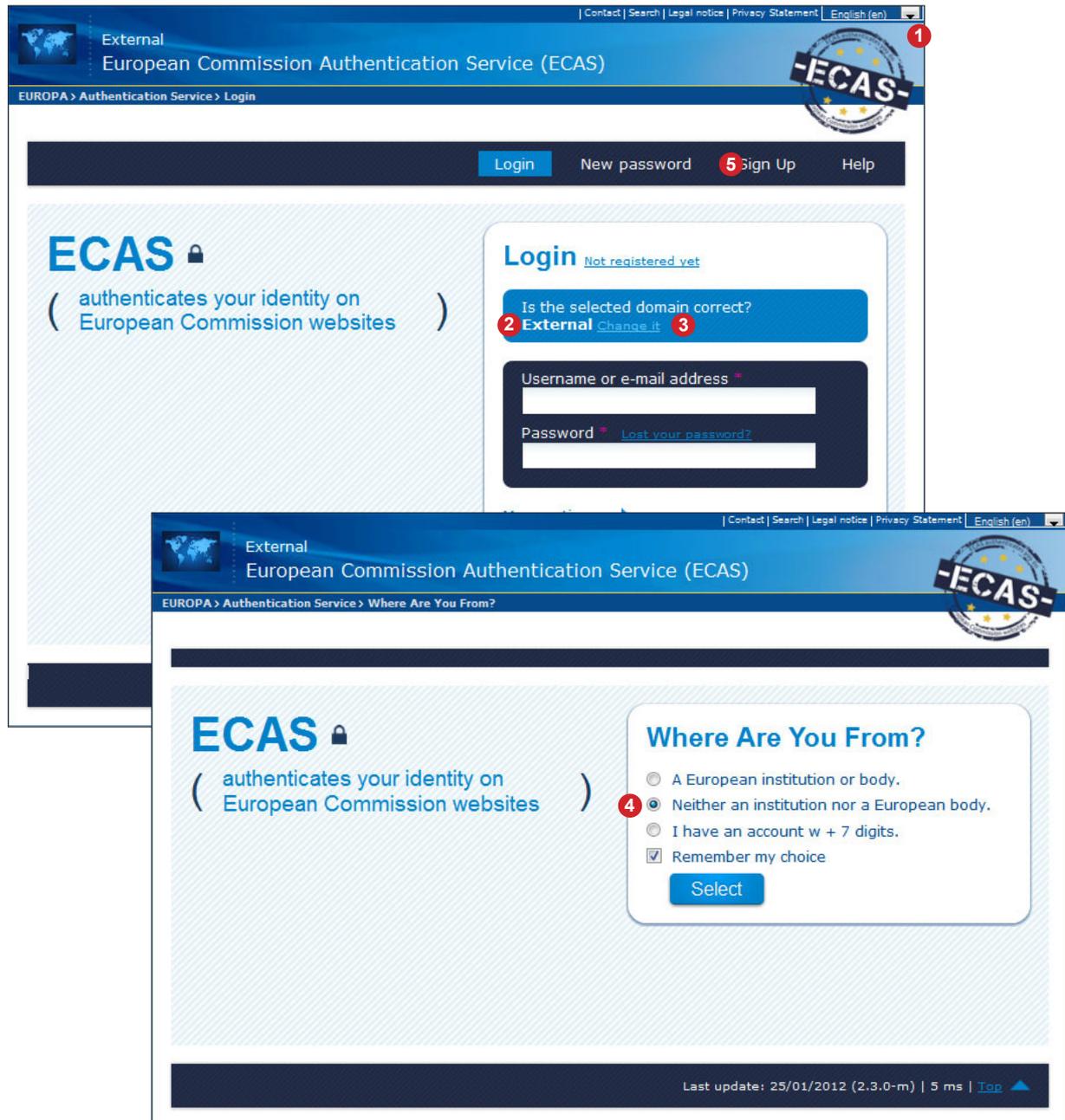
Please note that although several mobile phone numbers can be saved at ECAS, you can only log in using one mobile phone number which has been confirmed by the Union Registry. The Union Registry only allows confirmation of one mobile number. If a confirmed mobile number has been changed, it must be re-confirmed by the DEHSt.

3 REGISTER WITH ECAS

In your browser, activate JavaScript, permit cookies and switch off pop-up blockers. Entering the address <https://webgate.ec.europa.eu/cas/login> will take you to the ECAS login page. Choose your language using the drop-down menu **1**.

Make sure the blue button **2** is set to „External“. Otherwise, use the „Change it“ option **3** which opens a new window (see bottom screenshot below). Authorised representatives of account holders are considered to be external users and should use setting **4** : ‚Neither an institution nor a European body.‘ Click ‚Select‘ to return to the window shown in the top screenshot.

When you register for the first time, you do not have a username or password and should therefore click the „Sign up“ **5** button in the top bar.



Clicking on the „Sign-up“ button in the top menu **1** will take you to the window shown in the screenshot below. You can choose any username in the first line **2**, provided it has not yet been claimed by another ECAS user. In that case, you would be asked to choose a different username. Now enter your first name **3**, last name **4** and e-mail address **5** (to be re-typed for confirmation underneath). The Captcha figure in area **6** shows a sequence of characters that must be entered at **7**. Should the characters be difficult to read, you may either generate another Captcha picture or have your computer read the sequence out to you. Remember to tick the box to acknowledge that you have read the privacy statement **8** and click the „Sign up“ button **9**.

The screenshot shows the ECAS Sign Up page. At the top, there is a navigation bar with links for Contact, Search, Legal notice, Privacy Statement, and a language dropdown set to English (en). Below this is a header with the ECAS logo and the text "External European Commission Authentication Service (ECAS)". A secondary navigation bar contains "Login", "New password", "1 Sign Up", and "Help". The main content area features the ECAS logo and a tagline: "ECAS (authenticates your identity on European Commission websites)". The "Sign Up" section includes a link for "Help for external users" and several input fields: "Choose a username" (2), "First name" (3), "Last name" (4), "E-mail" (5), and "Confirm e-mail". The "E-mail language" is set to "English (en)". A Captcha image (6) displays the characters "TKSH" on a blue background, with a "Try another" link and an "Audio version" link. Below the Captcha is an "Enter the code" field (7). A checkbox (8) for the privacy statement is present, with the text: "Privacy statement: by checking this box, you acknowledge that you have read and understood the privacy statement". At the bottom of the form is a "Sign up" button (9). A footer note indicates "* Required fields". The page footer contains the text "Last update: 21/12/2011 (2.1.3-b) | 7 ms | Top".

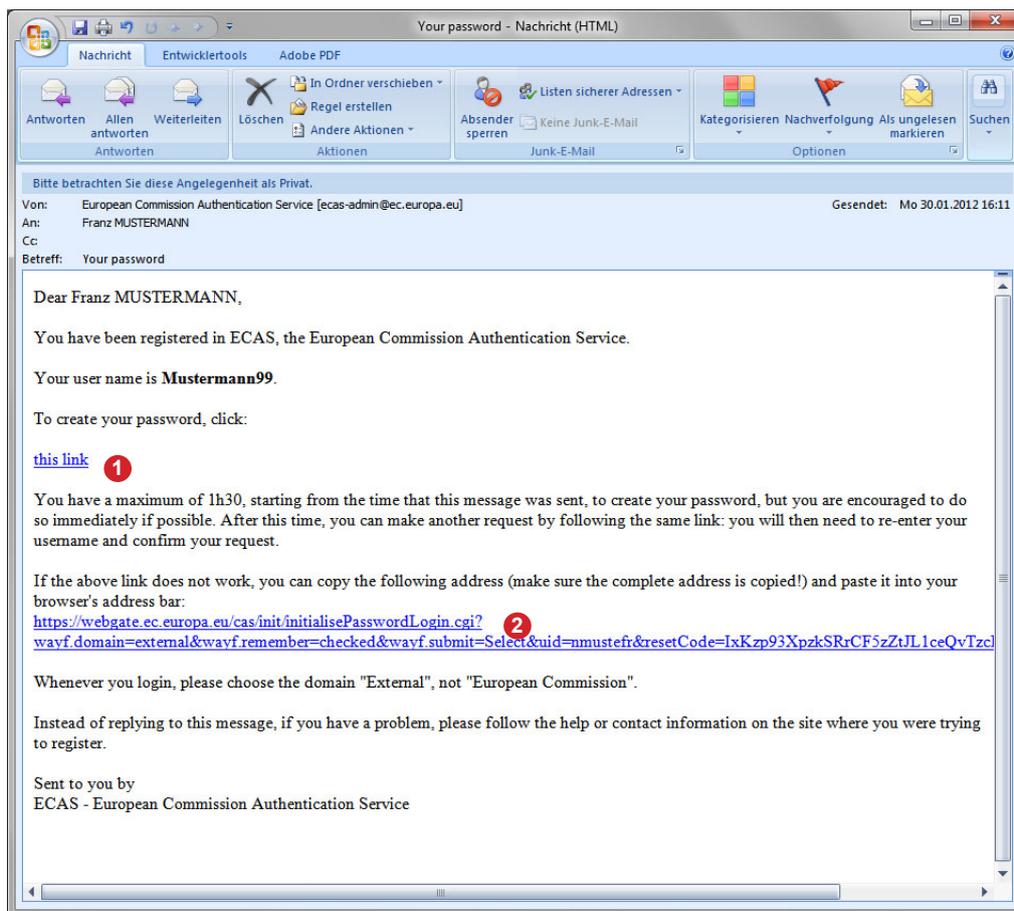
4 CONFIRM E-MAIL AND CHOOSE PASSWORD

Upon clicking the ‚Sign Up‘ button on the previous page, ECAS will send a message to the e-mail address entered and ask you to confirm registration and choose a password for future logins.

The confirmation e-mail from ECAS may take 10 to 20 minutes to arrive in your mailbox. Please note that the link **1** it contains is valid for 1.5 hours only.

We therefore advise you to set aside sufficient time for the entire ECAS registration process so once you receive your confirmation e-mail you can immediately use the link to set your password. You should also enter your mobile phone number straightaway, as described under „7 Enter Mobile Phone Number“ on page 11.

Here is a sample e-mail:



Click on the confirmation link **1** to complete the registration process. In case the link does not work, copy the address line **2** into your browser.

5 CONFIRM ECAS REGISTRATION AND CHOOSE PASSWORD

The link takes you to a page where you are asked to choose your password. Please ensure that the blue field **1** is set to „External“. Otherwise click on ‚Change it‘ to set it to ‚External‘ (see also Chapter „3 Register with ECAS“ on page 6).

Enter either your chosen username or your e-mail address at **2**. Both will be accepted. Then enter your chosen password at **3**. The password must contain at least three of the following character types

- Upper-case characters
- Lower-case characters
- Digits
- Special characters

The password must be at least 10 digits long. The longer the password, the more secure it will be. Please do not use names or words that can be found in dictionaries.

Before clicking the „Login“ button **6**, make sure you go to the „More options“ menu **4** and select ‚View my ECAS account details after logging me in‘ **5**. This gives you the option at the next stage to enter the mobile number that will be required to connect to the Union Registry.

The screenshot shows the ECAS login interface. At the top, there is a navigation bar with links for 'Contact', 'Search', 'Legal notice', 'Privacy Statement', and 'English (en)'. Below this, the page title reads 'External European Commission Authentication Service (ECAS)'. A breadcrumb trail shows 'EUROPA > Authentication Service > Login'. The main content area features a 'Login' button, 'New password', 'Sign Up', and 'Help' links. The 'Login' section includes a dropdown menu for domain selection, currently set to 'External' (annotated with 1). Below this are input fields for 'Username or e-mail address' (annotated with 2) and 'Password' (annotated with 3). A 'More options...' dropdown menu (annotated with 4) is expanded, showing options: 'Remember my username', 'Warn me each time an application asks for my identity', and 'View my ECAS account details after logging me in' (annotated with 5 and checked). A 'Login!' button (annotated with 6) is at the bottom of the form. A footer note states '* Required fields'. The page footer includes 'Last update: 25/01/2012 (2.3.0-b) | 6 ms | Top'.

6 SHOW ACCOUNT DETAILS IN ECAS

When selecting 'View my details...', as described on the previous page, you will see the screen shown below. Otherwise click on **1** 'Account information'. This should give you the option of editing your account details. In particular, you can enter at least one mobile phone number at **2** - indispensable for your registration at the Union Registry.

Please be aware that the Union Registry does not accept identical mobile phone numbers for several authorised representatives of the same account holder.

3 shows the name of the user currently logged in, here the chosen username 'Mustermann99'. ECAS also assigns an additional ECAS username to each user, shown below as 'nmustefr' **4**. This username can also be used to log in, which gives each user a total of three usernames for their ECAS login – the chosen username, the ECAS-assigned username and the e-mail address.

External
European Commission Authentication Service (ECAS)

EUROPA > Authentication Service > Account information

Franz MUSTERMANN (Mustermann99) | External **3**

Logout Change password **1** Account information Help

ECAS (authenticates your identity on European Commission websites)

Account information

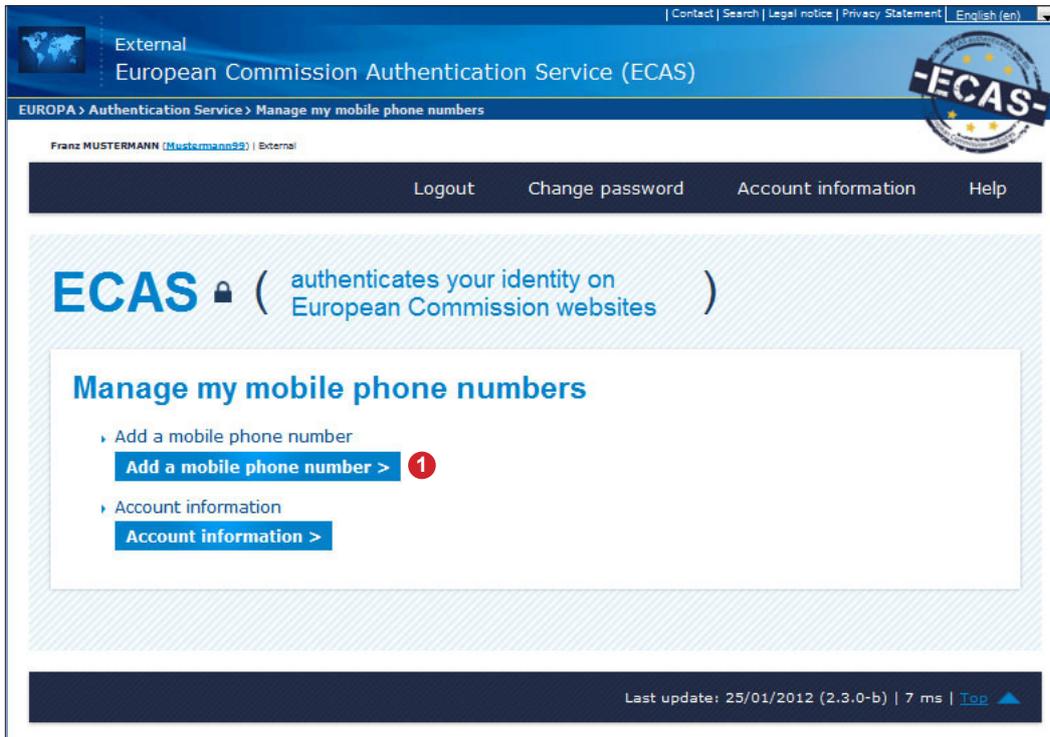
- Modify my personal data
[Modify my personal data >](#)
- Delete your account
[Delete your account >](#)
- Manage my mobile phone numbers
[Manage my mobile phone numbers >](#) **2**
- You can view your open sessions.
[Display my sessions >](#)
- You can link your eID to your ECAS account.
[Link my eID >](#)

My ECAS Account Details

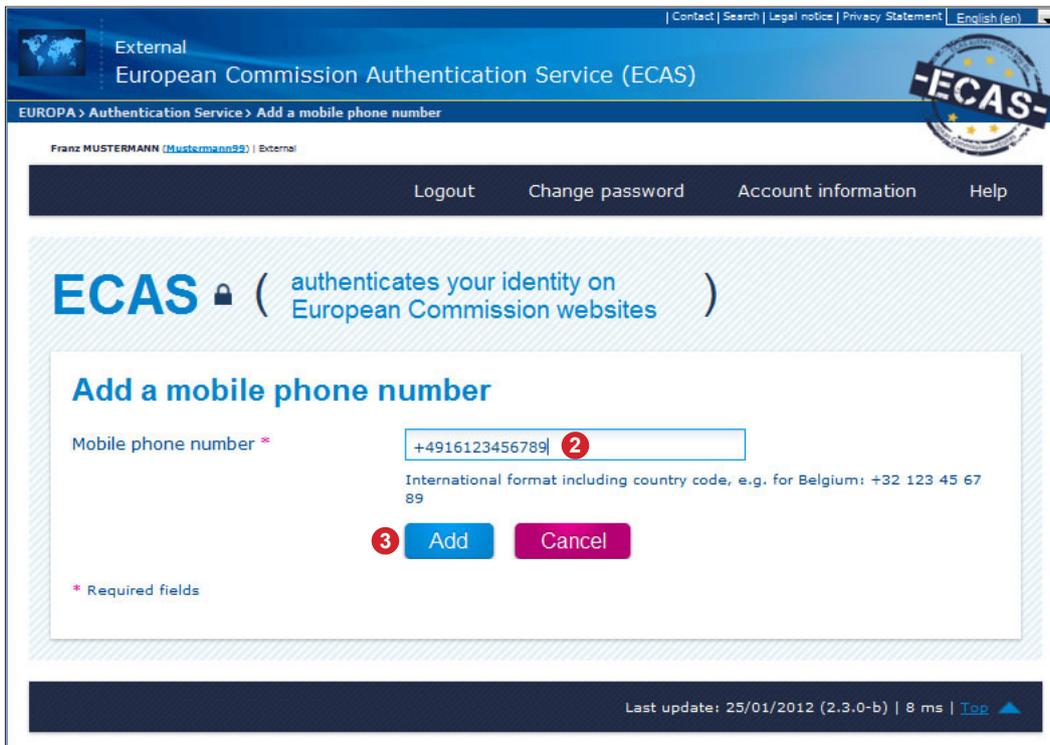
| | |
|---|----------------------------|
| Username | Mustermann99 |
| Domain | External |
| Unique identifier at the Commission (uid) | 4 nmustefr |
| Most recent login | 30/01/2012 16:27 GMT+01:00 |
| Previous login | |
| Account created | 30/01/2012 16:10 GMT+01:00 |
| Name | MUSTERMANN Franz |
| Email preferred language | en |

7 ENTER MOBILE PHONE NUMBER

To enter a mobile phone number, click on ‚Manage my mobile phone numbers‘, as shown under **1** on the previous page. This takes you to the screen shown below.



Click on **1** ‚Add a mobile phone number‘ to enter your mobile phone number with international code (e.g. +49 for Germany) and without the first zero (0), into field **2** on the screen. To finish, click on **3** ‚Add‘ to save the mobile phone number.



8 CONFIRM MOBILE PHONE NUMBER

You will then receive a text message sent to the mobile phone number you entered **1**. It contains a challenge code that must be entered into **2**, as shown on the screenshot below. Click on ‚Add‘ **3** to complete the confirmation process.

The text message reads:

‚Your challenge to authenticate to ECAS is XXXX-YYYY‘.

Once you have entered the character sequence correctly the message below will appear:

The image displays two screenshots of the ECAS (European Commission Authentication Service) web interface. The top screenshot shows the 'Challenge code for adding a mobile phone number, sent by text message' page. The page header includes 'External European Commission Authentication Service (ECAS)' and a navigation menu with 'Logout', 'Change password', 'Account information', and 'Help'. The main content area features the ECAS logo and a message: 'Challenge code for adding a mobile phone number, sent by text message'. Below this, there are instructions: 'Please enter the challenge code that was texted to your mobile phone. It might take up to 15 minutes for the message to reach your mobile phone.' The form includes a 'Mobile phone number' field with a red circled '1' next to the country code '+4916:' and a 'Text message challenge code *' field with a red circled '2' next to the code 'azd9 - 3u7n'. There are 'Add' and 'Cancel' buttons, with a red circled '3' next to the 'Add' button. The bottom screenshot shows the 'The mobile phone number was added successfully' confirmation page. The page header is the same as the top screenshot. The main content area features the ECAS logo and a message: 'The mobile phone number was added successfully. Your mobile phone number (+4916 [redacted]) was added successfully.' Below this, there are two links: 'Manage my mobile phone numbers' with a blue button 'Manage my mobile phone numbers >' and 'Account information' with a blue button 'Account information >'. The footer of the page indicates 'Last update: 25/01/2012 (2.3.0-b) | 1014 ms | Top ▲'.

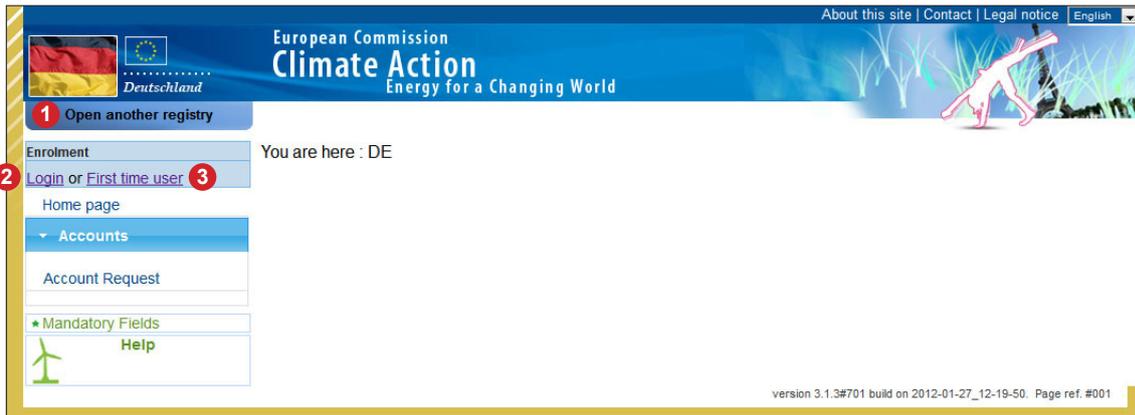
9 FIRST LOGIN AT THE UNION REGISTRY

Now use the following link to access the Union Registry homepage:

<https://ets-registry.webgate.ec.europa.eu/euregistry/DE/index.xhtml>

Make sure you have selected the area of the Union Registry that is administered by Germany. This is indicated by the German flag in the top left-hand corner. If you see a different flag, use the 'Open another registry' button **1** and select 'Germany'.

Even when logging in for the first time, please select 'Login' **2** and not 'First time user' **3**. Clicking on 'Login' **2** will redirect you to ECAS. For the redirection to work properly, you may have to switch off the pop-up blocker in your browser.



10 AUTOMATIC REDIRECTION TO ECAS

Whenever you log into the Union Registry, you will be redirected to ECAS. In the screenshot below, ECAS recognizes the user, as the username is displayed in ❶ and ❷. This is because the user has remained logged in with ECAS (see Chapter „4 Confirm E-Mail and choose Password“ on page 8). Click on link ❶ to complete the login. If link ❶ does not work, try and copy the link from ❷ into the address bar of your browser.

When logging out of the Union Registry, you still remain logged in at ECAS.

Your logout will only be complete once you have also logged out of ECAS via the logout button ❸. Only then will a different user be able to log in at ECAS and the Union Registry from the same computer.

Enter your password at ❹ and the mobile phone number you entered during registration at ❺. International code (e.g. +49) followed by the number without the zero, e.g. +49163123456789. A text message will be sent to this number only if it is the same number that was previously entered. The message contains a sequence of characters to be entered during login (see next page).

Make sure ❻ is set to ‚External‘; otherwise click on ‚Change it‘ before login.

The screenshot shows the ECAS login interface. At the top, there is a navigation bar with links for Contact, Search, Legal notice, Privacy Statement, and English (en). Below this, the page title is 'External European Commission Authentication Service (ECAS)'. The main content area is divided into two columns. The left column contains the ECAS logo and the text '(authenticates your identity on European Commission websites)' and 'CSEUR requires you to authenticate'. The right column contains the login form. The form has a title 'Login Not registered yet' and a dropdown menu for 'Is the selected domain correct?' with 'External' selected and a 'Change it' link. Below this are three input fields: 'Username or e-mail address' with 'Mustermann99', 'Password' with a 'Lost your password?' link, and 'Mobile phone' with a note about international format. A 'Login!' button is at the bottom of the form. A footer at the bottom of the page reads 'Last update: 25/01/2012 (2.3.0-b) | 11 ms | Top'.

❶ Franz MUSTERMANN (Mustermann99) | Sidenav

❷ Logout Change password Account information Help

❸ Logout Change password Account information Help

❹ Username or e-mail address * Mustermann99

❺ Password * Lost your password?

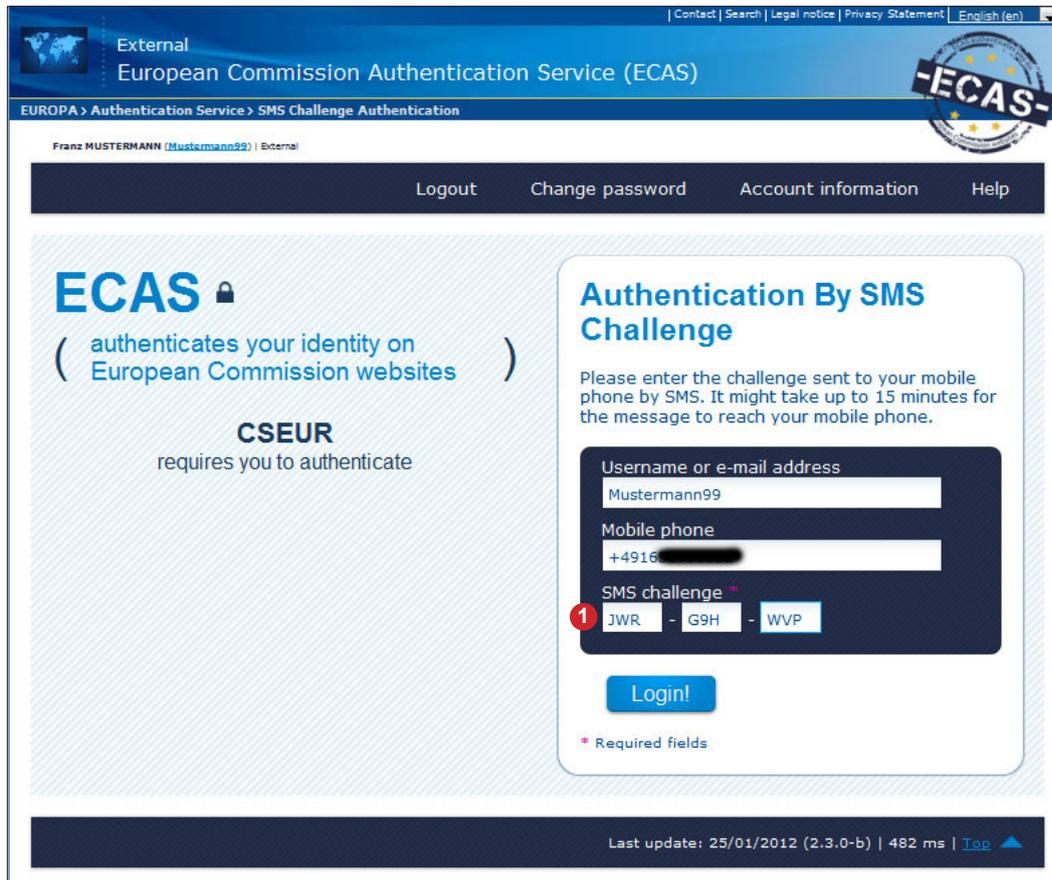
❻ Is the selected domain correct? External Change it

* Required fields

Last update: 25/01/2012 (2.3.0-b) | 11 ms | Top

11 ECAS 2-FACTOR AUTHENTICATION

Whenever you log into the Union Registry, ECAS will send an SMS message to the activated mobile phone number. The message contains a character sequence that must be entered to complete login. With each login, the entire mobile phone number must be re-entered at ECAS. This is a security measure, as ECAS is a publicly accessible site and the registered mobile phone numbers cannot be displayed for obvious reasons. Once the character sequence (challenge) has been entered correctly, the user will be authenticated and redirected to the Union Registry. Enter the SMS challenge at **1** and click on ‚Login‘.



The screenshot shows the ECAS 2-Factor Authentication interface. At the top, there is a navigation bar with links for Contact, Search, Legal notice, Privacy Statement, and English (en). The main header identifies the user as Franz MUSTERMANN (Mustermann99) | External. Below this, there are links for Logout, Change password, Account information, and Help. The main content area is titled 'Authentication By SMS Challenge' and includes a form with the following fields:

- Username or e-mail address: Mustermann99
- Mobile phone: +4916 [redacted]
- SMS challenge: JWR - G9H - WVP (with a red circle and '1' next to the first character 'J')

A 'Login!' button is located below the form. A note states: 'Please enter the challenge sent to your mobile phone by SMS. It might take up to 15 minutes for the message to reach your mobile phone.' A footer note indicates '* Required fields'.

Please note that although several mobile phone numbers can be saved at ECAS, you can only log in using one mobile phone number which has been confirmed by the Union Registry. The Union Registry only allows confirmation of one mobile number. If a confirmed mobile number has been changed, it must be re-confirmed by the DEHSt.

12 ENTER PERSONAL DATA INTO THE UNION REGISTRY

The user has now logged into the Union Registry for the first time. The username is displayed under ①. In order to continue the registration process, please click on ② 'Fill in your personal details'.

The screenshot shows the top navigation bar with the European Commission logo and the text 'Climate Action Energy for a Changing World'. The user is logged in as 'Mustermann99'. A red circle 1 highlights the 'Logout' link. A red circle 2 highlights the 'Fill in your personal details' button in the left sidebar. The sidebar also contains links for 'Home page', 'Accounts', 'Account Request', 'Mandatory Fields', and 'Help'. The main content area shows 'You are here : DE'.

Fill in the relevant fields. Those with a green star are mandatory. The secret question and secret answer are used for authentication in case you contact the Registry Administration by phone.

The screenshot shows the 'Registration' form. The form fields are as follows:

- * First name: Franz
- * Last name: MUSTERMANN
- Title:
- * Date of birth: 09/09/1962
- * Place of birth: München
- * Country of birth: Germany
- * Type of identity document: National ID card
- For 'Other' type of identity document, indicate the type:
- * Identity document identifier: x00301683
- Identity document expiry date: 21/09/2013
- * Preferred language: English
- * Default email address: franz.mustermann1@lwa.de
- * Secret question: Sinn des Lebens?
- * Answer to the secret question: 42

Buttons for 'Cancel' and 'Next' are visible at the bottom of the form.

13 GENERATE A URID

Once you have entered your data and clicked on ‚Submit‘, your URID or Union Registry ID, will be generated. It will be displayed in the message highlighted in green **1** as well as next to your name **2** in the left-hand menu bar **3**.

Make a note of your URID and pass it on to the person who will make the application for the account. At least two URIDs are required for the account application because at least two authorised representatives must be named for each account. For verifier accounts only one authorised representative must be named.

In order to open an account in the German area of the Union Registry, you are allowed only to enter URIDs generated in the German part of the Union Registry. These always begin with ‚DE‘.

The account application can then be generated by clicking on ‚Account Request‘ **5** with or without logging into the Union Registry. The account application must be printed out, signed and sent to the Registry Administration per surface mail or transmitted in PDF format via the VPS to the DEHSt.

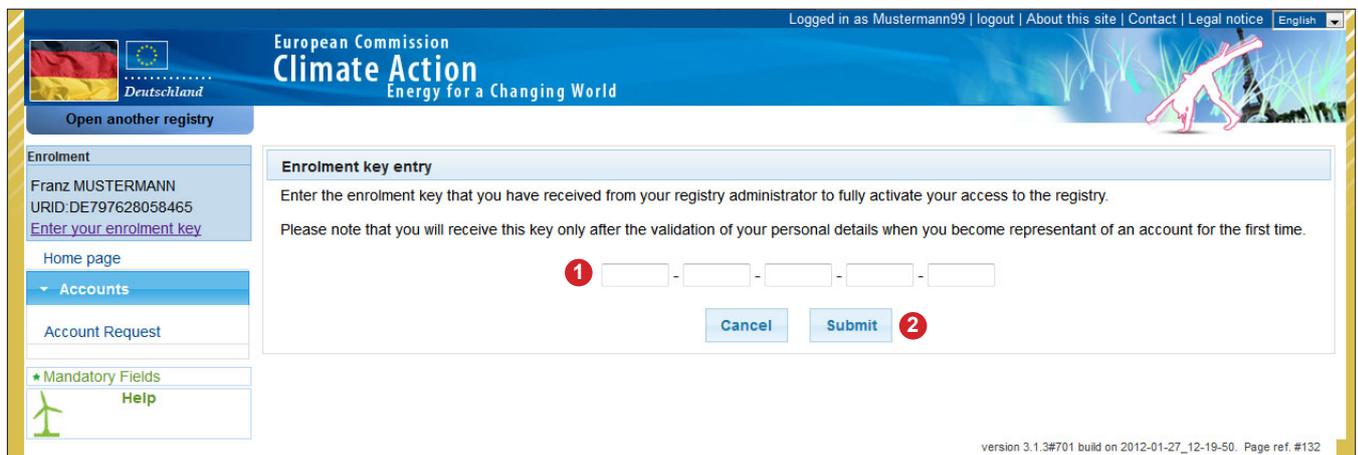
Once the data entered into the online application have been confirmed by the Registry Administration, the account will be opened and an enrolment key generated for the authorised representatives. The enrolment key is sent by surface mail to their addresses entered during enrolment process. Once the enrolment key has been received it can be entered by clicking on ‚Enter your enrolment key‘ **4** link.

The screenshot shows the 'Registration' page of the European Commission Climate Action website. The page header includes the European Commission logo and the text 'Climate Action Energy for a Changing World'. The user is logged in as 'Mustermann99'. The main content area displays a green confirmation message: 'You have now been enrolled. Your unique Registry Identifier is DE797628058465. Please communicate this identifier to your account holder(s) for use in account opening requests.' Below this message, the user's registration details are listed: Name: Franz MUSTERMANN; Place and date of birth: München, Germany on 09/09/1962; Identity document: National ID card, ID x00301683, expiring on 21/09/2013; Default email address: franz.mustermann1@...de; Preferred language: English; Secret question: Sinn des Lebens? 42. The left-hand menu bar contains links for 'Enrolment', 'Home page', 'Accounts', and 'Account Request'. The 'Enrolment' section is expanded, showing the user's name, URID, and a link to 'Enter your enrolment key'. The 'Account Request' link is highlighted with a red circle. The footer of the page indicates the version is 3.1.3#701 build on 2012-01-27_12-19-50, with page ref. #032.

14 ENTER THE ENROLMENT KEY

Once an account has been opened, an enrolment key is generated for each authorised representative and sent out by surface mail to the addresses previously entered. Clicking on the link on the previous page will take you to the page shown on the screenshot below.

Enter the enrolment key at ❶ and click on ‚Submit‘ ❷. You should then be given access to your assigned account.



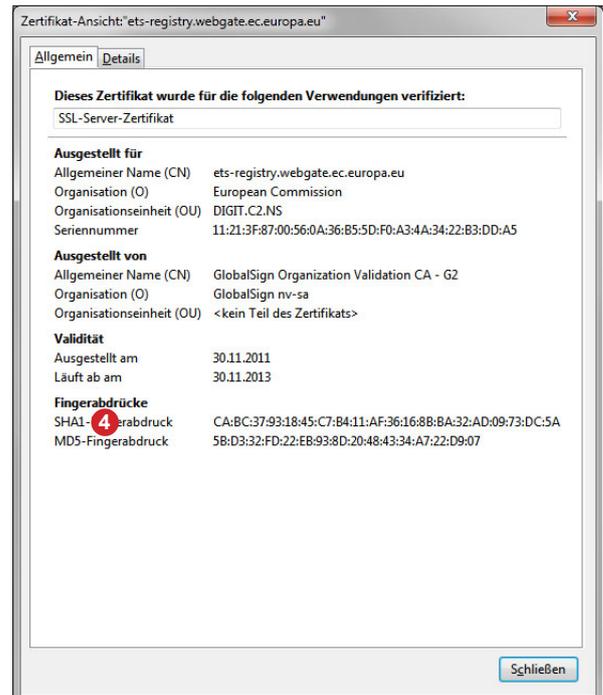
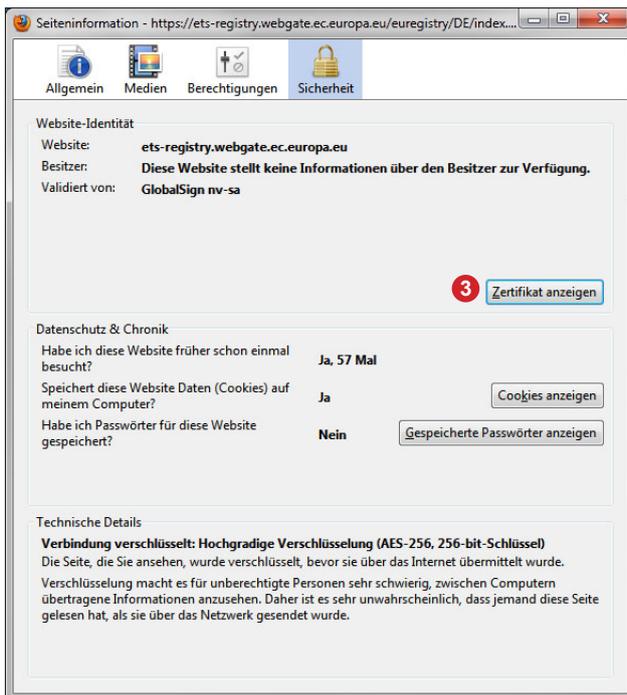
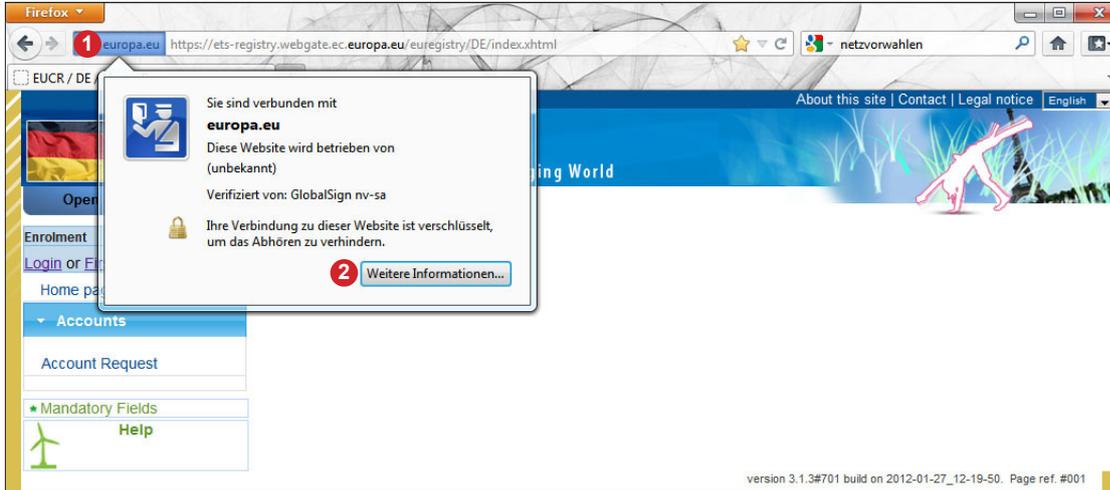
The screenshot shows the 'Enrolment key entry' page on the European Commission Climate Action website. The page header includes the European Commission logo, the text 'Climate Action Energy for a Changing World', and the user's name 'Franz MUSTERMANN' with URID 'DE797628058465'. The main content area contains the following text: 'Enter the enrolment key that you have received from your registry administrator to fully activate your access to the registry. Please note that you will receive this key only after the validation of your personal details when you become representant of an account for the first time.' Below this text is a form with five input fields separated by hyphens, with a red circled '1' next to the first field. To the right of the form are 'Cancel' and 'Submit' buttons, with a red circled '2' next to the 'Submit' button. The left sidebar contains navigation links for 'Enrolment', 'Accounts', and 'Mandatory Fields'. The footer of the page indicates 'version 3.1.3#701 build on 2012-01-27_12-19-50. Page ref. #132'.

15 FURTHER INFORMATION ON ECAS AND THE UNION REGISTRY

- In ECAS, an e-mail address can only occur once.
- The role of the e-mail registered with ECAS is pivotal, as it serves not only as username – as previously mentioned – but also as the address to which the link for modifying the ECAS password is sent.
- An ECAS access cannot be de-activated, but only be deleted. Once the ECAS access has been deleted, the e-mail address can be re-used. If an ECAS access has been deleted, the whole procedure for establishing a new ECAS access must be adhered to, including submitting documentation, generating a URID and entering an enrolment key.
- If an enrolled user un-enrols from the Union Registry, the URID will be deleted, but the ECAS access remains active. In other words, the entire registration process at the Union Registry must be re-initiated. This includes generating a URID, naming authorised representatives, submitting account documentation, confirming the authorisation of the „new“ representatives by the Registry Administration, sending out an enrolment key and entering the enrolment key.
- To use the Union Registry, JavaScript must be activated, cookies permitted and pop-up blockers switched off.
- One single ECAS access is sufficient to generate several URIDs in parts of the Union Registry administered by other Member States. In each of the parts of the Union Registry administered by a Member State, only one URID can be assigned to one ECAS access.
- If a user has an ECAS access, which has not yet been linked to the Registry, the steps from Chapter „5 Confirm ECAS Registration and choose Password“ on page 9 must be followed.
- A confirmation by the DEHSt of a new mobile phone number will be necessary. You will be notified when logging in to the Union Registry. Please then click on „Update my number“ and confirm the change. The Union Registry creates an identifier which you should note down and use for any queries with DEHSt. DEHSt will process the amendment applications submitted as soon as possible. It is not necessary to submit the change in writing or by VPS.

16 CHECK THE AUTHENTICITY OF THE UNION REGISTRY

You can check to which website you are connected by clicking on the favicon **1** in the address bar of your browser. By clicking on ‚further information‘ **2**, you can see how often you have visited the site before. Clicking on ‚Show certificate‘ **3** gives you details on the site certificate. The only absolutely sure way of establishing the authenticity of a certificate is to use an SHA1 fingerprint. The fingerprint must remain exactly as shown on the screenshot **4** until the certificate is renewed.



17 CHECK THE AUTHENTICITY OF ECAS

Since authentication is not carried out by the Union Registry itself, but by a separate service, not only the authenticity of the Union Registry, but also of ECAS must be verified at regular intervals. Just follow the procedure described above for the Union Registry. You can check to which website you are connected by clicking on the favicon **1** in the address bar of your browser. By clicking on ‚further information‘ **2**, you can see how often you have visited the site before. Clicking on ‚Show certificate‘ **3** gives you details on the site certificate. The only absolutely sure way of establishing the authenticity of a certificate is to use an SHA1 fingerprint. The fingerprint must remain exactly as shown on the screenshot **4** until the certificate is renewed.

The screenshot shows a Firefox browser window with the address bar displaying `https://webgate.ec.europa.eu/cas/login`. A security warning popup is visible, indicating the connection is encrypted and verified by GlobalSign nv-sa. The main page is the ECAS login interface, featuring a 'Login' button and a 'Show certificate' button (marked with a red circle 3). Below the browser window, the 'Seiteninformation' (Page Information) window is open, showing website details for `webgate.ec.europa.eu` and a 'Zertifikat anzeigen' (Show Certificate) button (marked with a red circle 3). To the right, the 'Zertifikat-Ansicht' (Certificate View) window is open, displaying the following certificate details:

| Dieses Zertifikat wurde für die folgenden Verwendungen verifiziert: | |
|---|--|
| SSL-Server-Zertifikat | |
| E-Mail-Unterzeichner-Zertifikat | |
| E-Mail-Empfänger-Zertifikat | |

| Ausgestellt für | |
|---------------------------|----------------------------------|
| Allgemeiner Name (CN) | *.ec.europa.eu |
| Organisation (O) | European Commission |
| Organisationseinheit (OU) | Informatic Directorate |
| Seriennummer | 01:00:00:00:00:01:26:FF:60:9E:45 |

| Ausgestellt von | |
|---------------------------|--------------------------|
| Allgemeiner Name (CN) | GlobalSign ServerSign CA |
| Organisation (O) | GlobalSign nv-sa |
| Organisationseinheit (OU) | ServerSign CA |

| Validität | |
|----------------|------------|
| Ausgestellt am | 24.02.2010 |
| Läuft ab am | 15.03.2013 |

| Fingerabdrücke | |
|--------------------|---|
| SHA1-Fingerabdruck | 18:32:59:D8:7C:57:E4:BE:E7:16:43:7A:B8:A4:8E:B7:14:89:9E:B7 |
| MD5-Fingerabdruck | 14:4A:85:80:00:C8:FD:4F:6D:32:16:FA:57:2B:7A:B9 |

The SHA1 fingerprint is highlighted with a red circle 4.

18 GUIDANCE ON HOW TO USE THE UNION REGISTRY SAFELY

Users have a key role to play in keeping the Union Registry safe.

Keeping your IT Equipment and Settings up-to-date

- Many threats from the Internet, from extranets and intranets can be effectively averted by a few straightforward precautions. First of all, your web browser should be configured to protect your data and applications. The Federal Office for Information Security has more information at https://www.bsi.bund.de/EN/TheBSI/thebsi_node.html
- Update your browser, network and operation system software regularly.
- Use antivirus and anti-spyware software and a firewall.
- Use the most recent virus definitions (signatures).
- If you connect to the Internet via a wireless connection, use at least WPA2 encryption, as WPA and WEP encryption is insecure.

E-Mail Precautions

- Do not trust sender addresses in e-mails, as it is very easy to falsify any kind of e-mail address.
- Whenever possible, do not open mails from unknown senders and if you do, do not click on any link contained in such e-mails.
- Never confirm account numbers, passwords or other sensitive data if prompted by e-mail. The DEHSt or the Registry Administration would never ask you to do so for security reasons.
- If necessary, check on suspicious e-mails by phoning the putative sender.

Browsing Precautions

- Never access the Registry login page via a link provided by a third party (either by e-mail or a third-party website). Such a link could take you to an identical-looking website. If you then enter your username and password, your access data are compromised. Bookmark the URL of the Union Registry and always access the login page via your bookmark.
- Never log into the Registry from Internet cafés or other public wireless connections without encryption. Otherwise, all your data entered, such as username and password could be seen by other users.
- For BSI advice on security aspects of wireless communication please visit https://www.bsi-fuer-buerger.de/BSIFB/DE/MobileSicherheit/mobileSicherheit_node.html (in German only).

Precautions in the Union Registry

- Always leave the protected area of a secure website by clicking the ‚Logout‘ button in the open browser window. Closing the browser window before logging out could give other people access to your account. In a next step, log out of ECAS as well.
- Regularly check the security certificate on the websites of the Union Registry (see Chapter „17 Check the Authenticity of the Union Registry“ on page 21) and ECAS (see Chapter „18 Check the Authenticity of ECAS“ on page 22)
- Check if the website is secure. The address in the browser must always begin with „https://“, not with „http://“ when you log in or are in the non-public area of the Registry.
- At ECAS, regularly check the data referring to your last login and the number of aborted logins. This will give you a clue to whether somebody else has been trying to use your username and password or may even have successfully done so.
- Keep your password secret.
- Do not save your ECAS access data (username and password) in the password manager of your browser, in your computer or your mobile phone.

Precautions for a secure TAN Procedure

- Do not use the same device (e.g. a smartphone) for logging in to the Union Registry and receiving the confirmation TAN. The TAN procedure is only secure if different devices, such as a computer and a mobile phone, are used.
- Do not save username and password on the mobile phone you are using for the TAN procedure. If the phone were lost or stolen, the finder or fraudster would find all the information to log in with your ID and carry out transactions.

- Be particularly vigilant when synchronising your mobile phone or smartphone with data on your computer. Malware could infect both devices and compromise the security of the TAN procedure.
- MMS messages are commonly used to spread viruses on mobile phones. Delete MMS messages from unknown senders unopened.
- For more information on the secure use of mobile phones and smartphones please visit <https://www.bsi-fuer-buerger.de/> (in German only).

Cyber Crime

Malware is an umbrella term for hostile, intrusive respectively unrequested malign software.

Phishing is a form of Cyber Crime. By use of seemingly official e-Mails pretending to be sent from a trusted source recipients will be asked to provide their username and password to a seemingly familiar fake website the e-mail links to.

Denial of Service (DoS)-attacks use a multitude of computers to create a number of requests that will overload and ultimately crash a computer system.

Pharming is the redirection to a counterfeit website in order to gain credentials as username and password.

Keylogging means secretly collecting a user's keyboard inputs to gather confidential data.

A Trojan Horse secretly sends confidential data (possibly recorded by a keylogger) via the internet.

At a Man-in-the-Middle-attack an attacker intercepts the connection between two computers impersonating an endpoint in order to receive confidential data. A malware infected Computer can lead to this type of attack.

19 CUSTOMER SERVICE AT THE GERMAN EMISSIONS TRADING AUTHORITY (DEHST)

If you have further queries regarding the Union Registry, please contact our Customer Service. We are available on Mondays to Thursdays from 9:00 to 17:00h CET and on Fridays from 9:00 to 14:00h CET.

Contact:

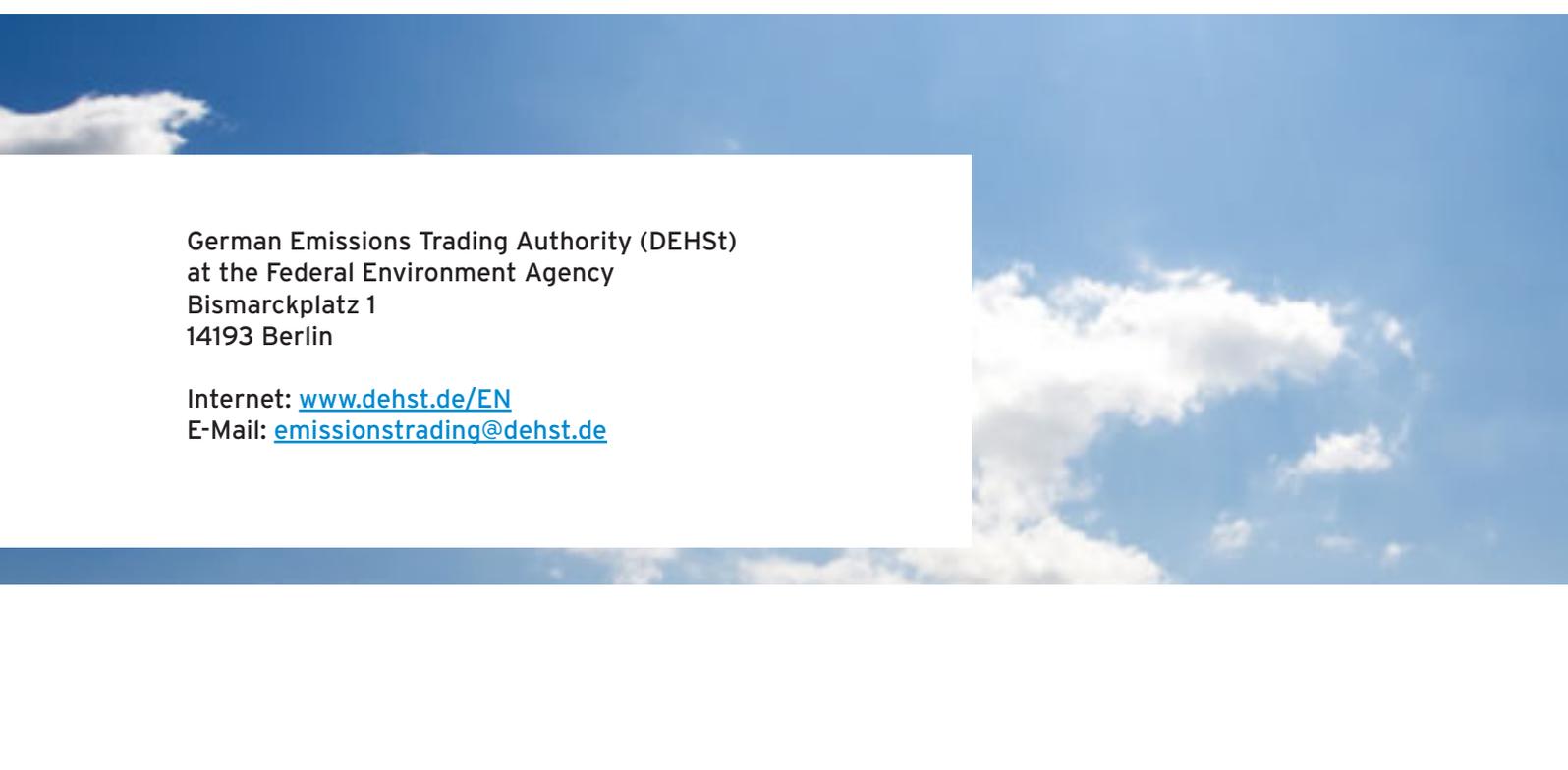
Phone: +49 (0)30 8903-5050

E-Mail: emissionstrading@dehst.de

20 DISCLAIMER

Great care must be taken in dealing with access data, requesting accounts and carrying transactions. If a transaction has been initiated erroneously and cannot be reversed, the individual or individuals who initiated the transaction must negotiate a solution with the recipient. The DEHSt is not liable for any damage or resulting costs due to erroneous instructions or inappropriate use of sensitive access data.

This document has been compiled by the German Emissions Trading Authority (DEHSt) with due diligence for the benefit of users of the German part of the Union Registry. The Union Registry has been developed and is operated by the EU Commission. The DEHSt is not liable for the content of this document, which provides technical support. The document has no effect of prejudging what law applies and does not create any legal rights whatsoever.



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