



MitID i Praksis

Fra NemID til MitID

Webinar den 18. juni 2020

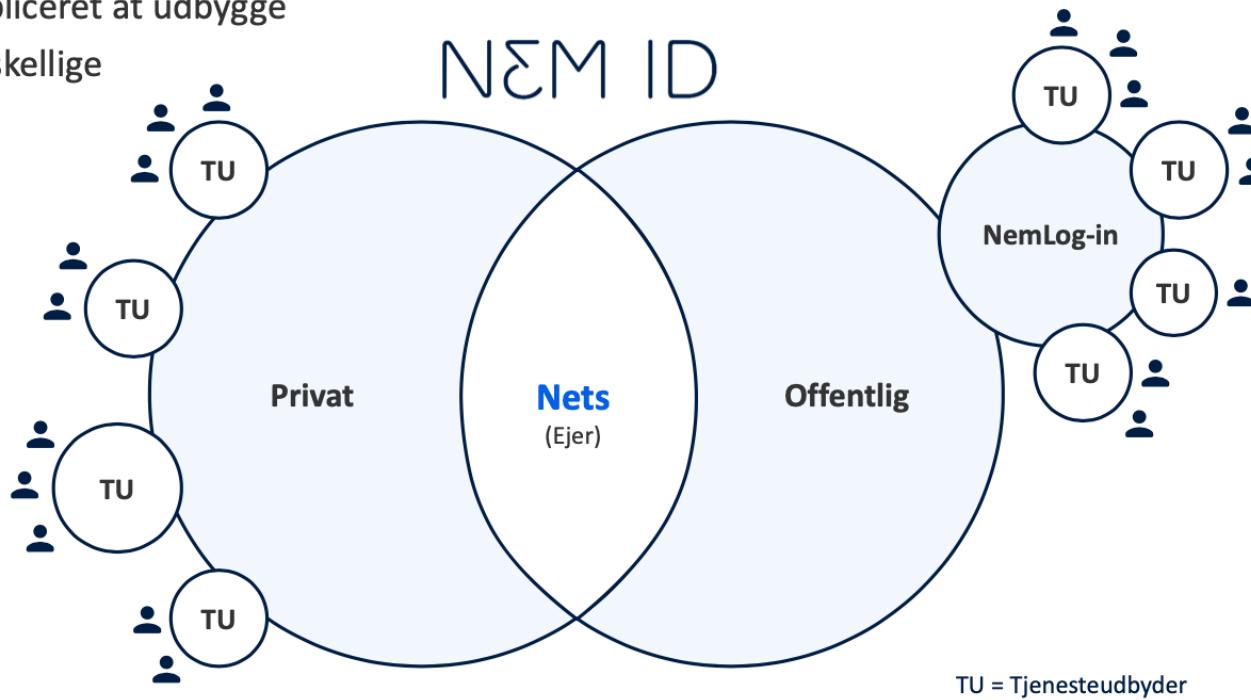


Indhold

- 1 Hvad er MitID?
- 2 MitID broker – hvad og hvorfor?
- 3 Ændringer i brugeroplevelsen
- 4 Ændringer i den tekniske integration
- 5 Signering af tekst og dokumenter
- 6 Criipto gør MitID – og overgangen fra NemID – smidig og fleksibel

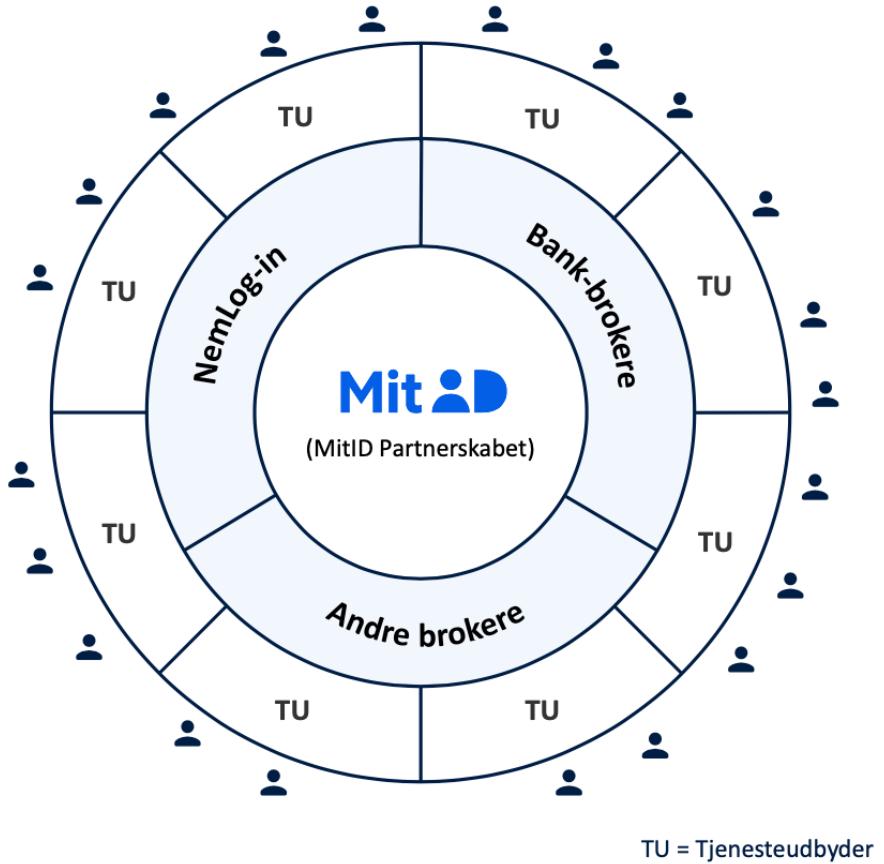
Fra NemID...

- ✓ Fungerer fint, men er ikke fremtidssikret
- ✗ Er dyrt og kompliceret at udbygge
- ✗ Består af to forskellige systemer



... til MitID

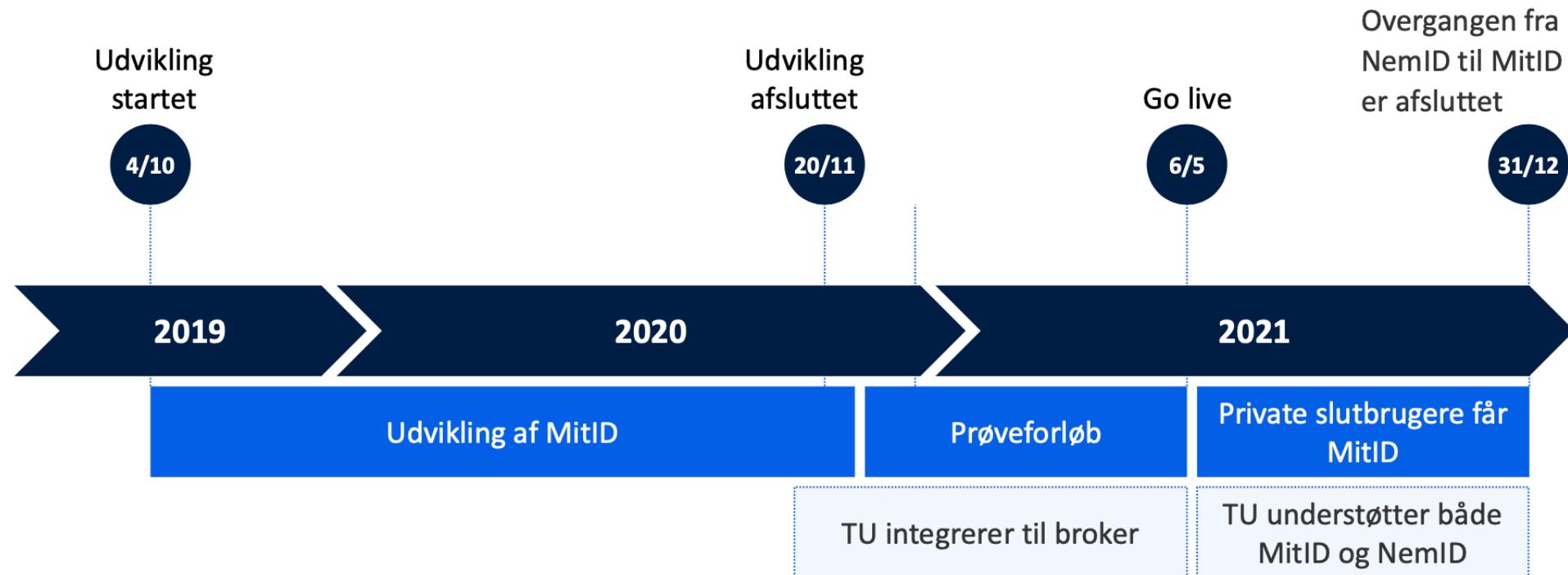
- ✓ Fremtidssikret – fleksibelt og modulært
- ✓ Nemmere at udbygge
- ✓ Ét samlet system



For jer betyder det, at:

- I skal have MitID for fortsat at kunne autentificere jeres private brugere.
- I får adgang til MitID gennem en broker, som I selv vælger.
- Brokerne gør anvendelsen lettere for jer, samtidig med at de varetager vedligeholdelsesopgaven op imod MitID-kernen.

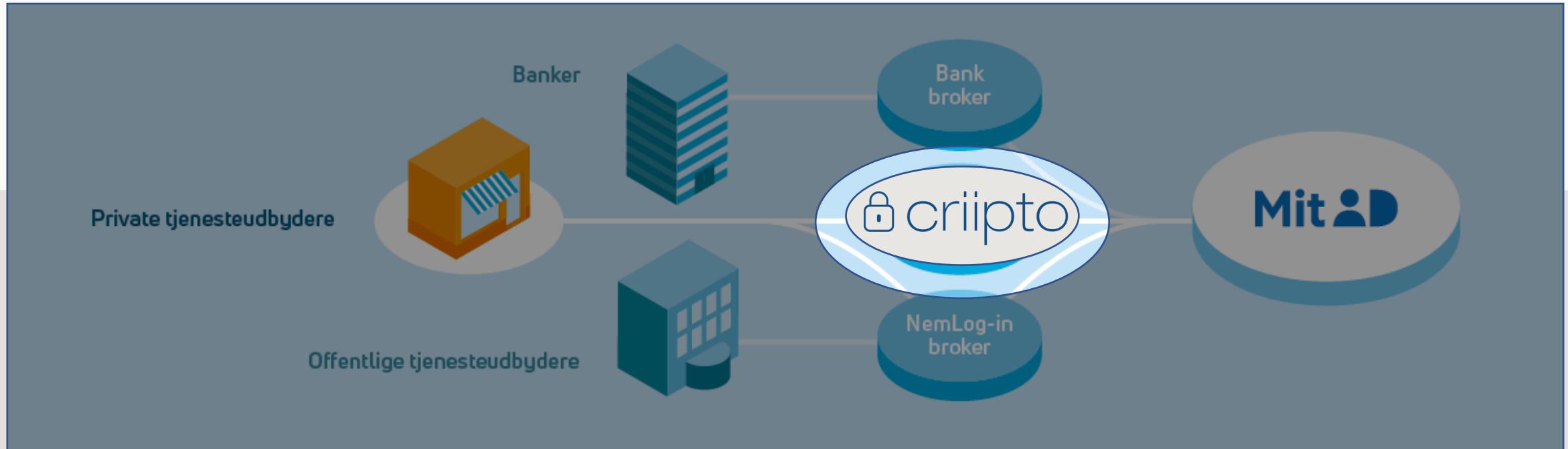
Tidsplan



Indhold

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Teknisk og kommercial adgang til MitID via broker



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NemID i dag

The screenshot shows the Tryg website's main navigation bar with links for 'Forsikringer', 'Forsikringstjek', 'Anmeld skade', 'Kundeservice', and a search bar. Below the navigation, there is a large 'Log ind på Min side' button. A tooltip above this button says 'Klik her, hvis du er erhvervskunde'. An 'iframe' placeholder is present. To the right, there is a section titled 'Alt om dine forsikringer, samlet ét sted' with a bulleted list of services. Further down, there is a note about data collection and a link to 'Læs mere'. At the bottom, there is a 'Brug for hjælp til at logge på Min side' section with a 'Hjælp til log ind' button.

Tryg | O

Forsikringer Forsikringstjek Anmeld skade Kundeservice

Søg

Log ind på Min side

Klik her, hvis du er erhvervskunde

iframe 512.64 x 360.13

NEM ID

Tryg

Bruger-id

Adgangskode [Glemt kode?](#)

Næste

Alt om dine forsikringer, samlet ét sted

- ✓ Se dine forsikringsaftaler, som viser, hvordan din
- ✓ Ret i forsikringer efter dine behov
- ✓ Find dokumenter og betalingsinformation
- ✓ Anmeld ny skade og se dine tidligere skader

På Min side gemmer vi dine oplysninger til statistik og markedsføring. Du kan vælge at slå det fra. [Læs mere](#).

Brug for hjælp til at logge på Min side

Vi har samlet forskellige vejledninger til kendte problemer i forbindelse med at logge på Min side.

Hjælp til log ind

The screenshot shows the same Tryg website layout as the first one, but with a tooltip pointing to the 'Glemt kode?' link in the NemID login form. The tooltip contains the text 'Klik her, hvis du er erhvervskunde' and 'iframe 310.33 x 218'. Below the tooltip, there is a larger version of the NemID login form with fields for 'Bruger-id', 'Adgangskode', and 'Næste', along with a 'Glemt kode?' link.

Tryg | O

PRIVAT

Log ind på Min side

Klik her, hvis du er erhvervskunde

iframe 310.33 x 218

NEM ID

Tryg

Bruger-id

Adgangskode [Glemt kode?](#)

Næste

Alt om dine forsikringer, samlet ét sted

NemID i dag

18+ | Spil med omtanke | Stopspillet.dk | Rofus.nu

Danske Spil ELEFRE SPIL Om os Forhandlere Spil med omtanke Hjælp

Du logger ind på RØD KONTO

Hvad er en RØD KONTO?

Med en RØD KONTO hos Danske Spil kan du spille Lotto, Vikinglotto, Eurojackpot, Keno, Joker, Quick og Alt eller Intet eller oprette et PLUS abonnement udbudt af Danske Lotteri Spil.

Har du problemer med at logge ind? Kontakt vores [Kundecenter](#).

Har du andre problemer med NemID? Find hjælp hos [NemID](#)

NEM ID

Danske Spil

Bruger-id Husk mig

Afgangskode [Glemt kode?](#)

[Næste](#)

Kommer du fra Færøerne? [Log ind](#)

LYN LOTTO

X

Du logger ind på RØD KONTO X

NEM ID

Danske Spil

Bruger-id Husk mig

Afgangskode [Glemt kode?](#)

[Næste](#)

Har du IKKE en RØD KONTO?

Har du ikke en RØD KONTO, oprette dig som kunde hos Danske Lotteri Spil, før du kan logge ind og spille.

[Opret dig her](#)

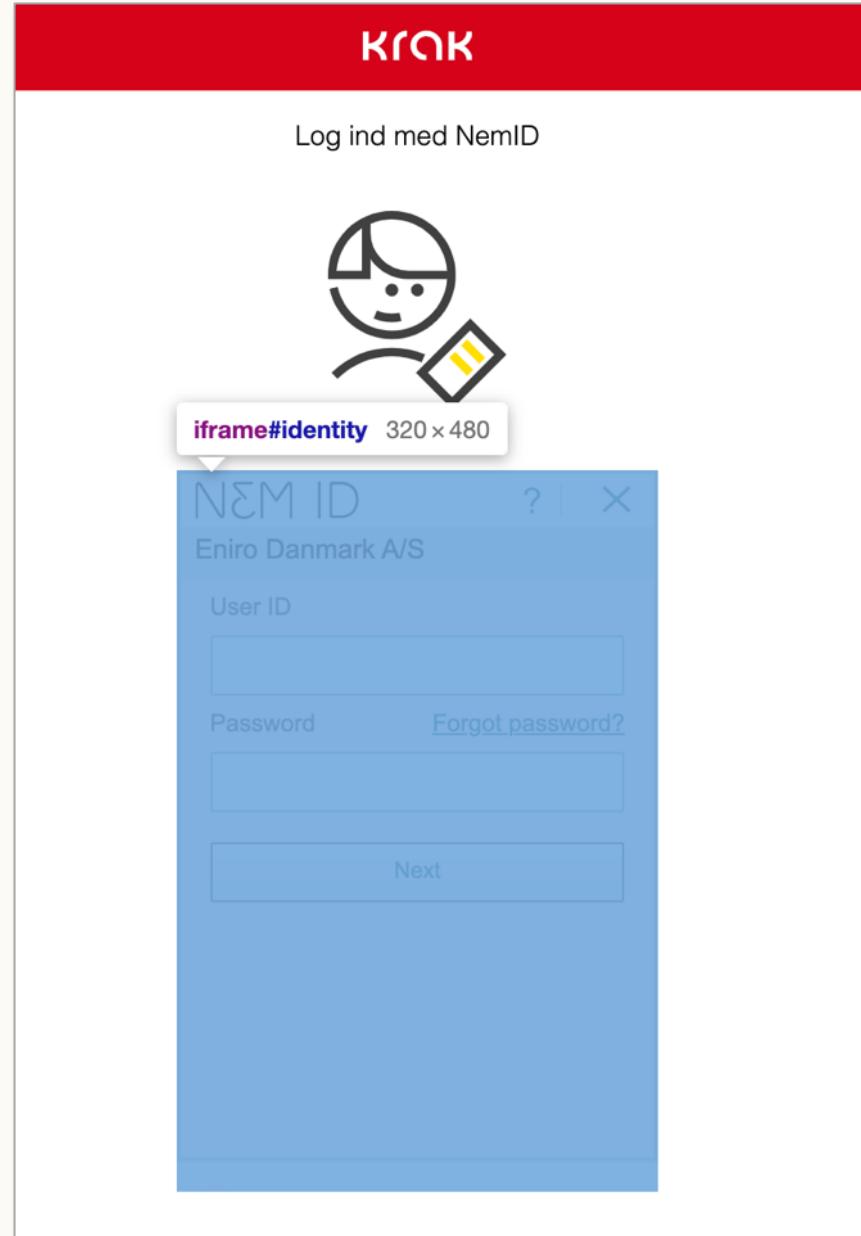
Kommer du fra Færøerne? [Log ind](#)

Har du IKKE en RØD KONTO?

Har du ikke en RØD KONTO, skal du oprette dig som kunde hos Danske Lotteri Spil, før du kan logge ind og spille.

[Opret dig her](#)

NemID i dag





cripto

MitID integreres via en certificeret Broker

Log ind på Min side

Log på <Tjenesteudbyder> **MitID**

BRUGER-ID

FORTSÆT →

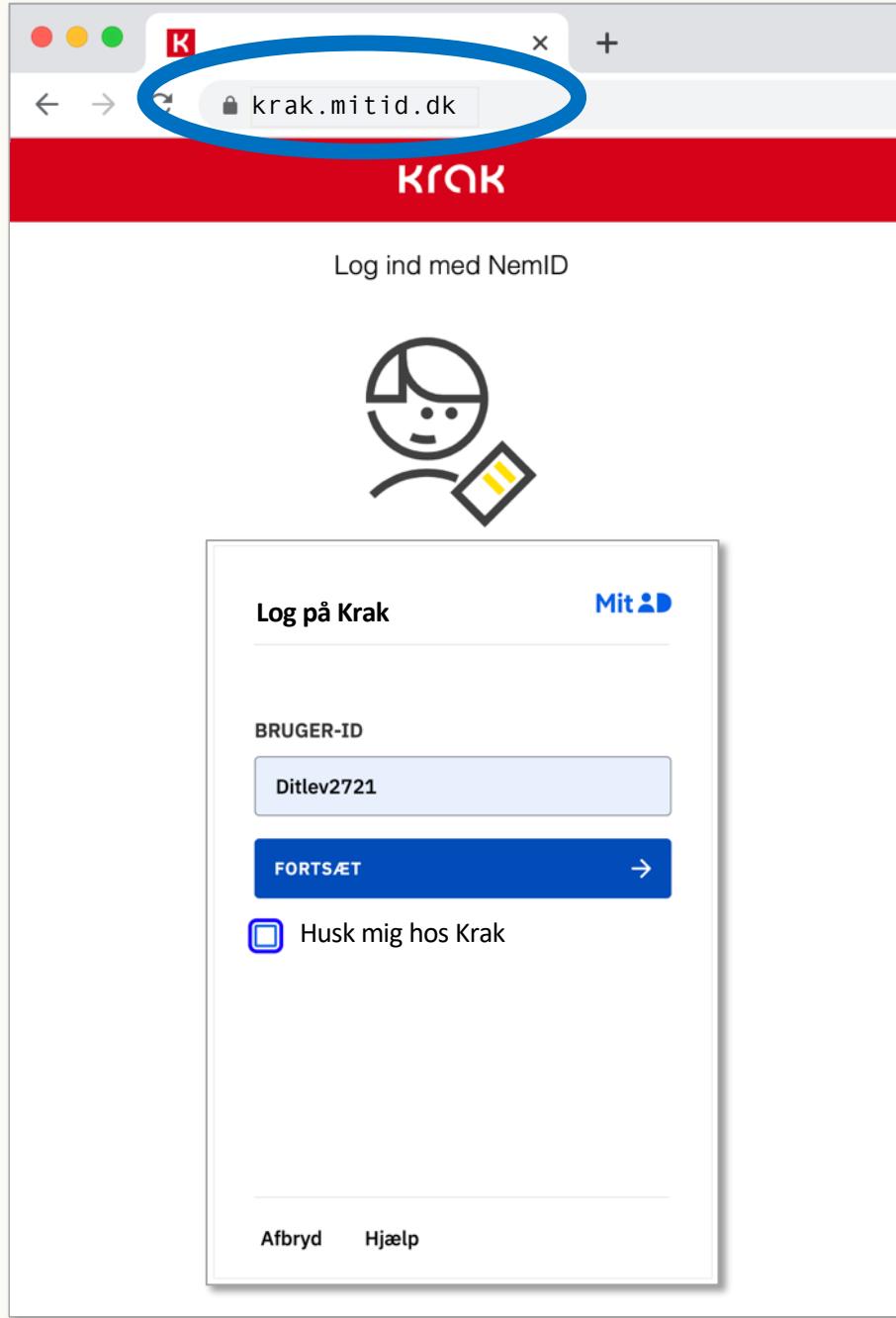
Husk mig hos <Tjenesteudbyder>

Afbryd Hjælp

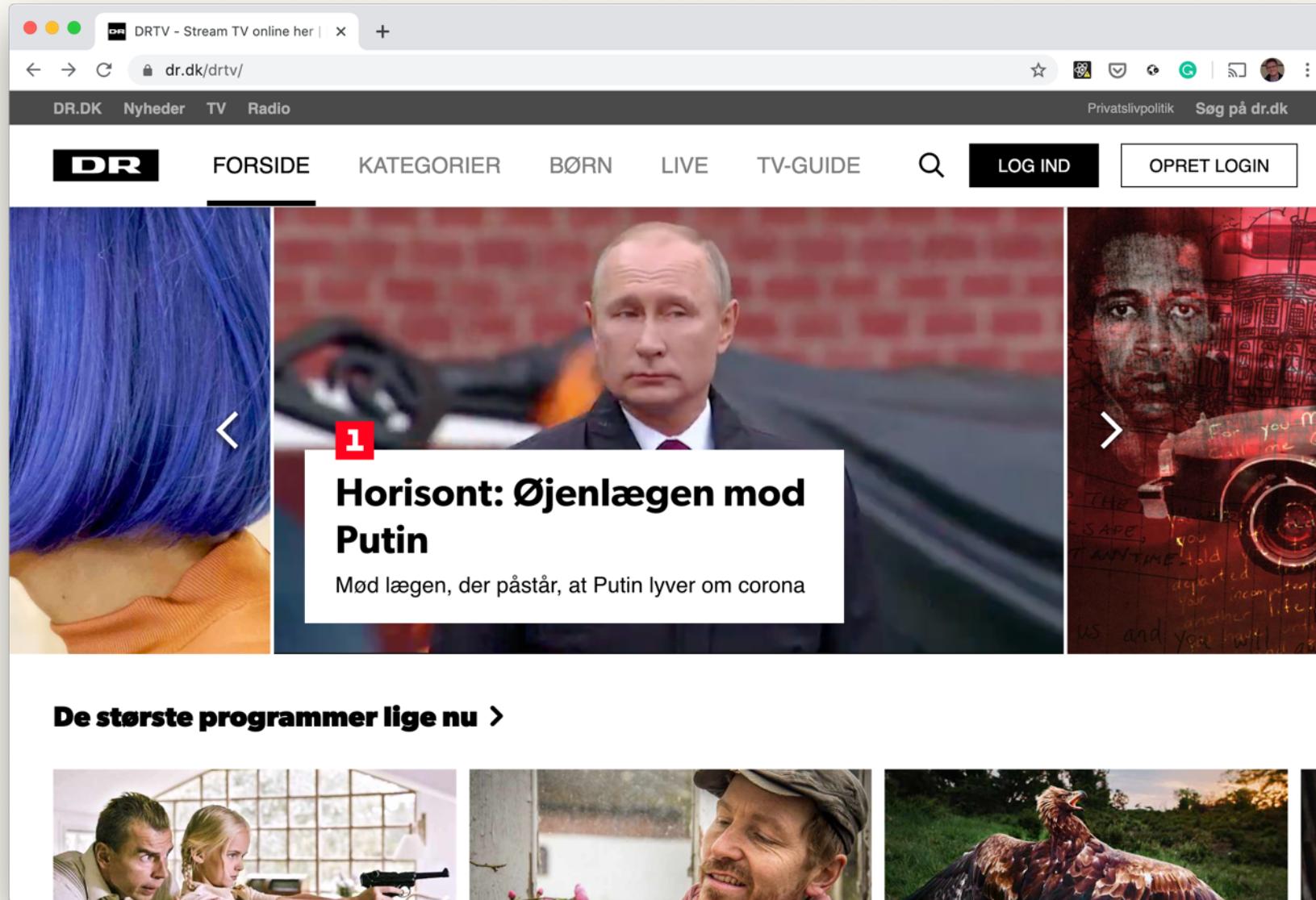
Criipto is a Copenhagen based company aiming to revolutionise how personal data is shared, stored and processed. We believe in online privacy for all and neat and simple solutions.

The sectors we serve: finance, fintech, medical, education, real estate, insurance, accountancy, sharing economy, legal and peer to peer.

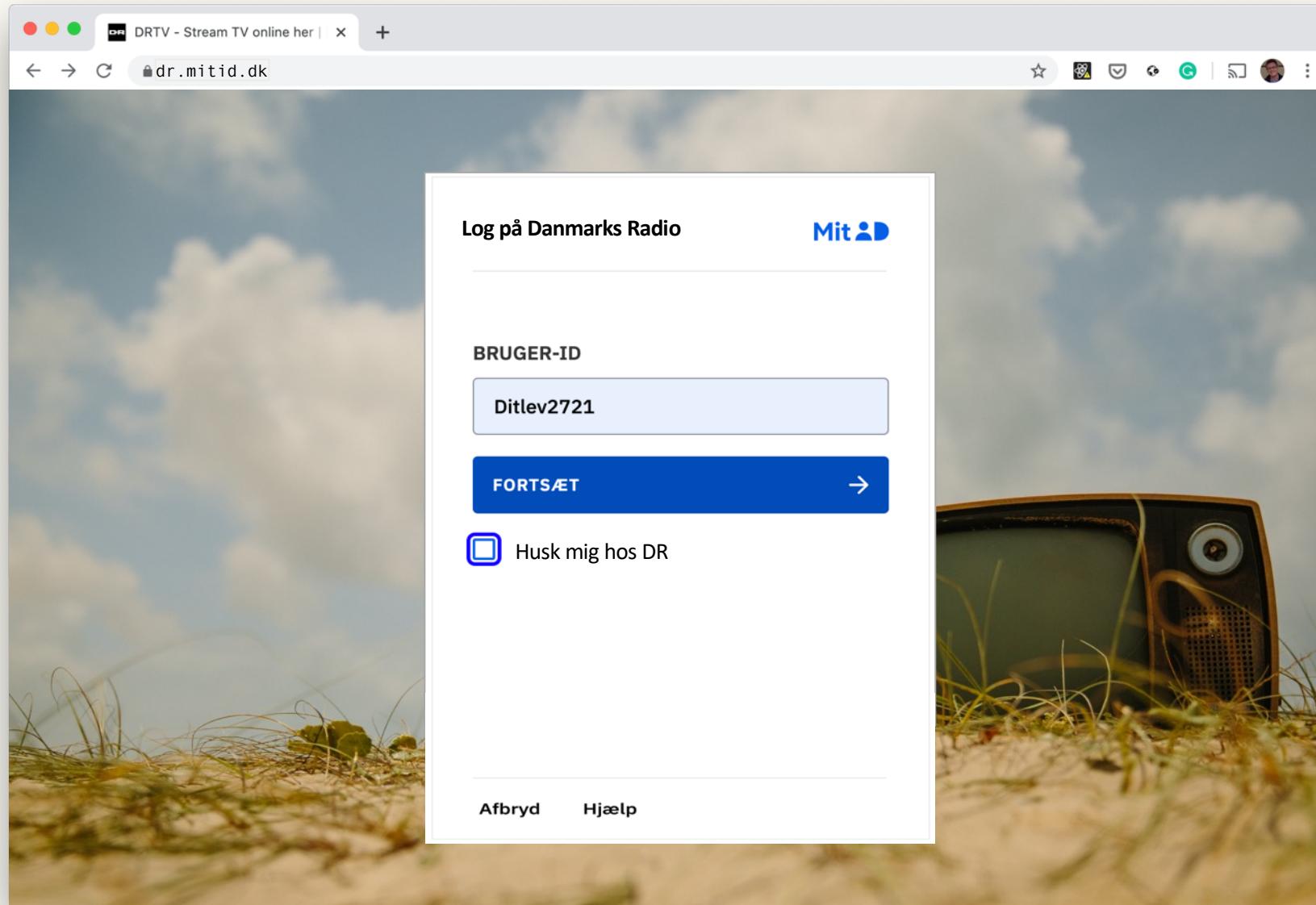
MitID integration
skal gå via
en landing page
leveret af brokeren



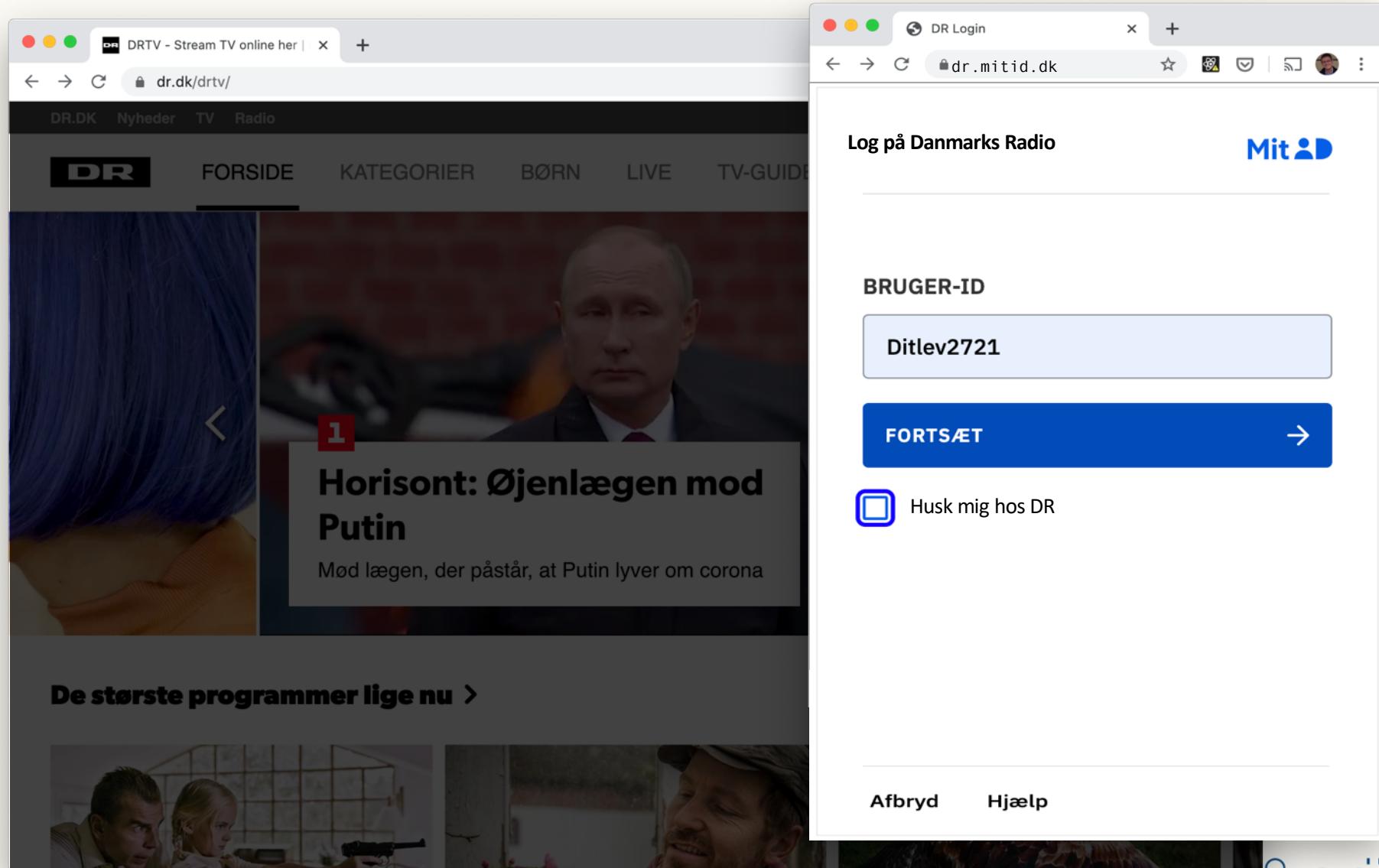
MitID via fuld redirect til broker landing page



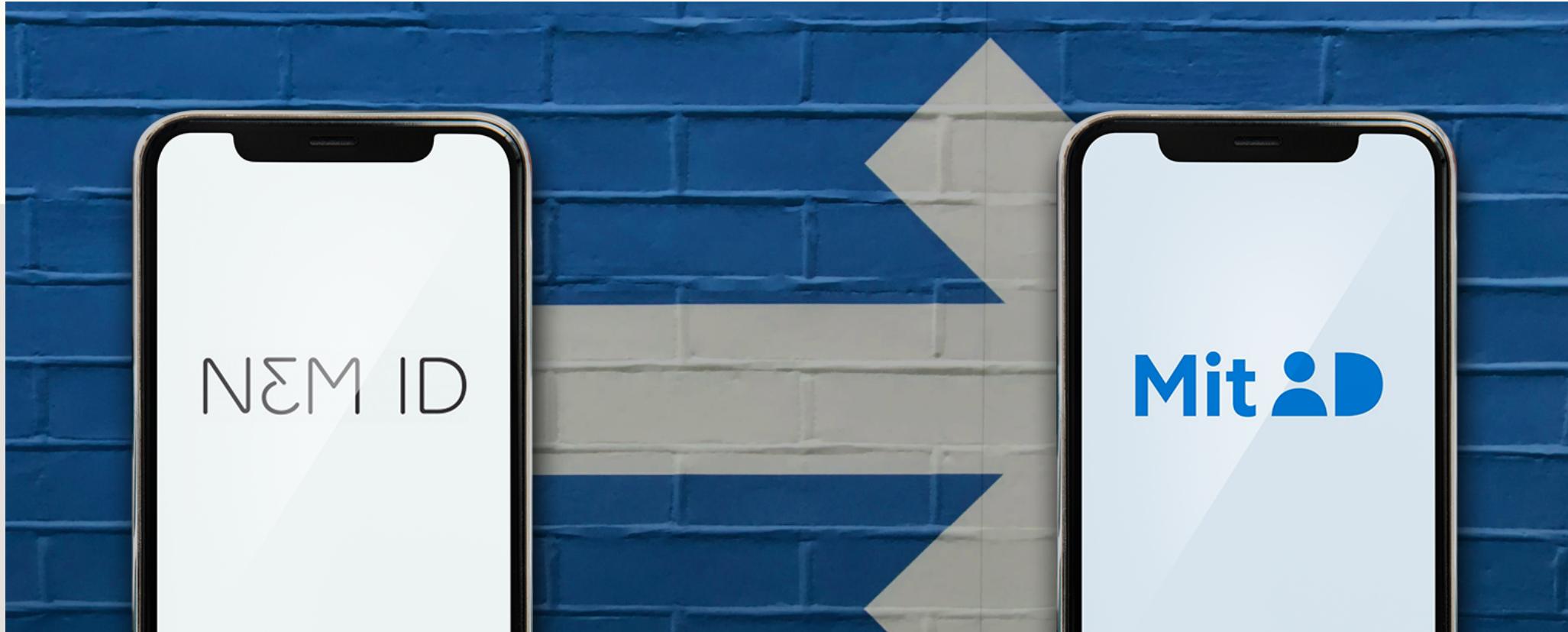
MitID broker landing page – stylet til virksomheden



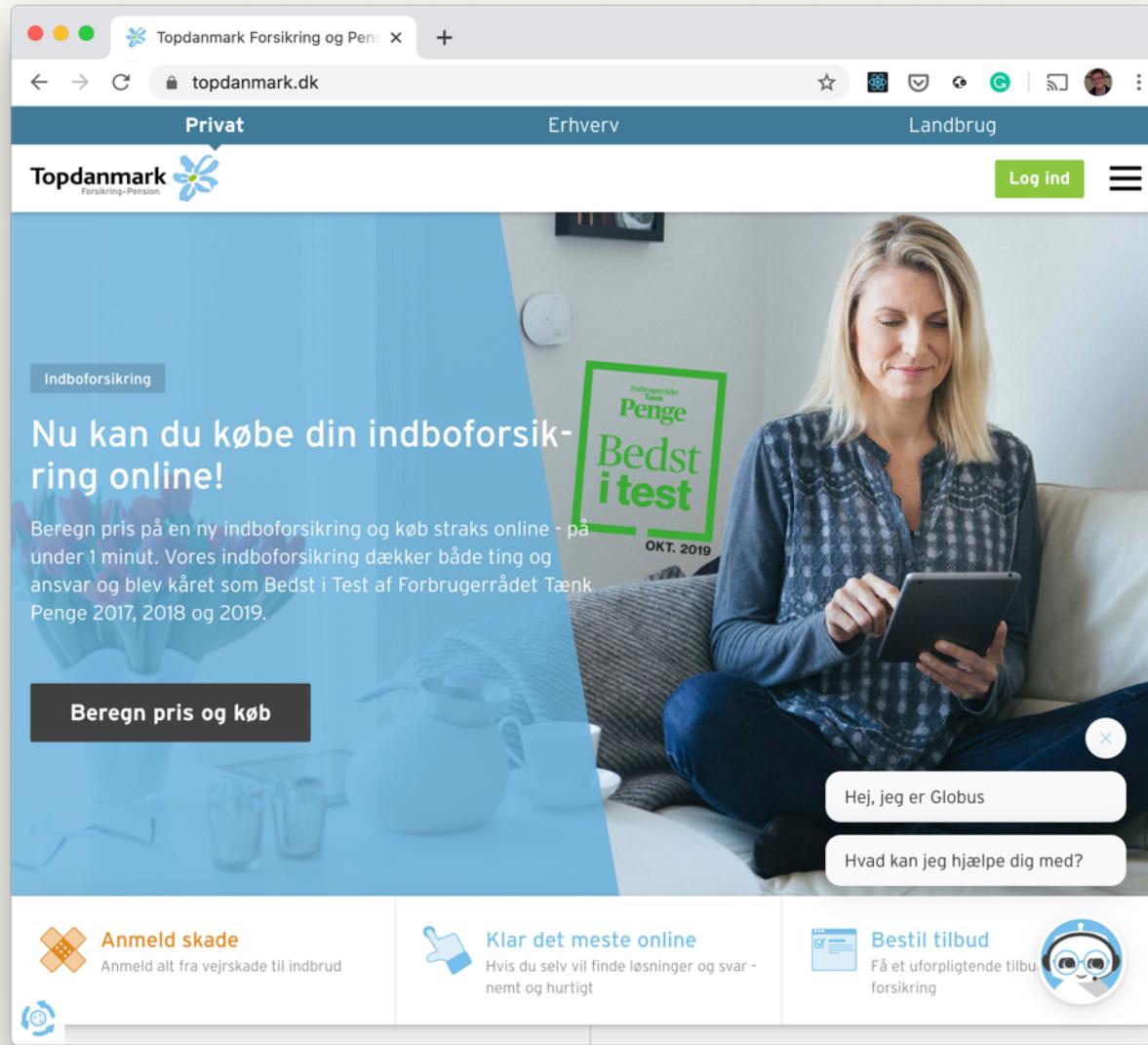
MitID via popup som viser broker landing page



Overgangsperioden fra NemID til MitID



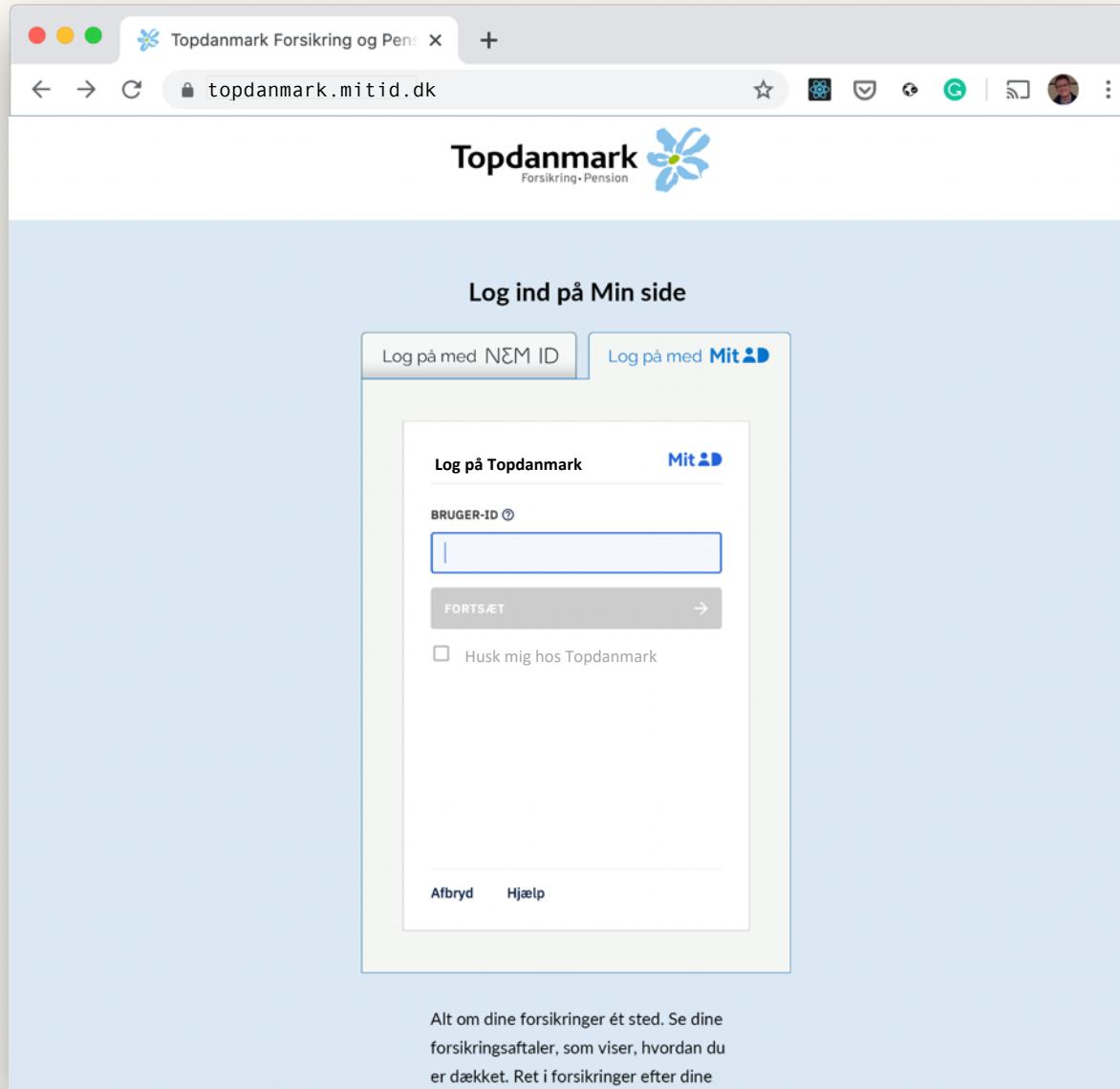
NemID og MitID sammen



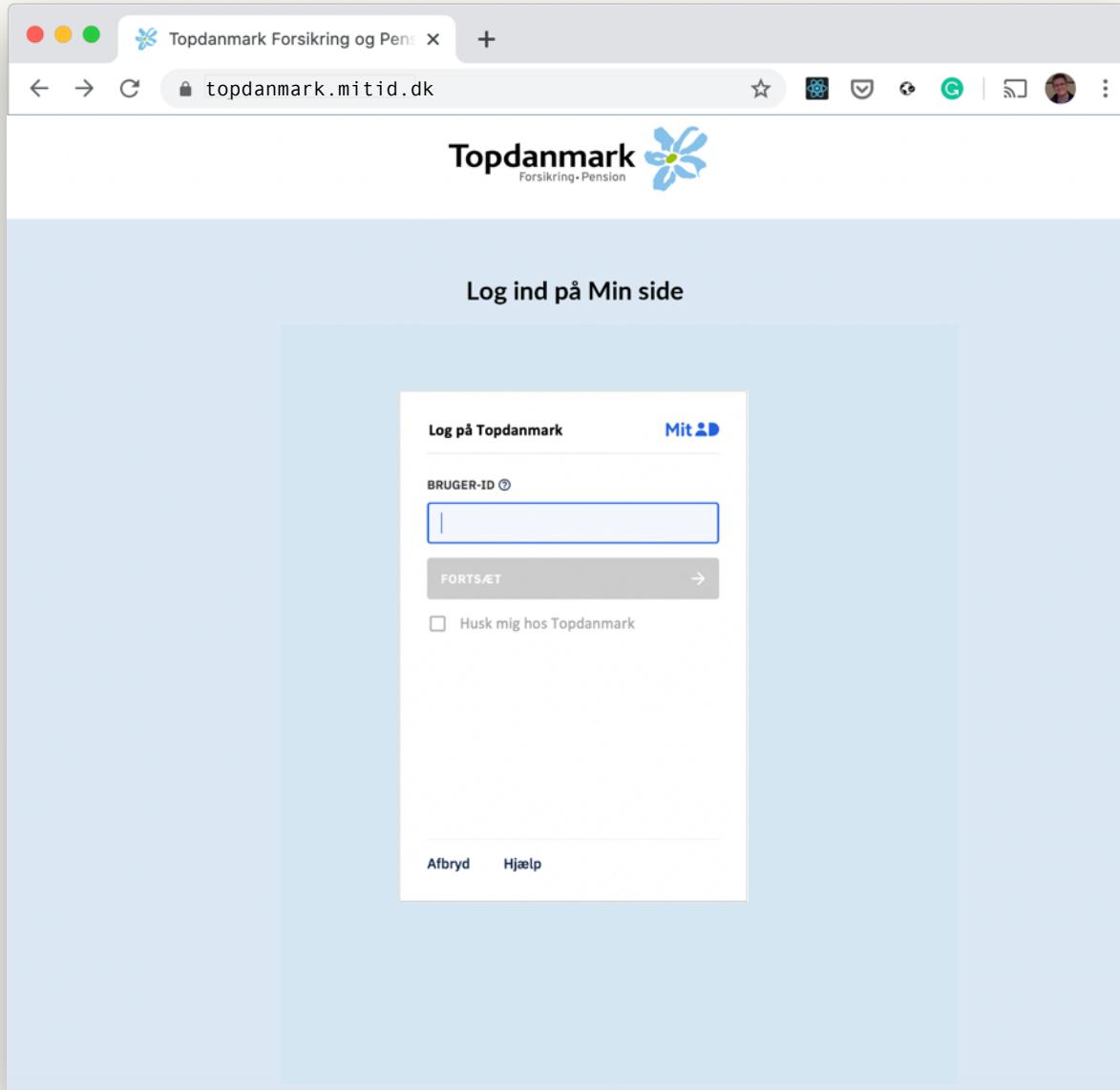
Alternativ 1: Tilføj MitID til eksisterende side

The screenshot shows the 'Log ind i Mit Topdanmark' (Log in to Mit Topdanmark) page. At the top, there are three navigation tabs: 'Privat', 'Erhverv', and 'Landbrug'. Below the tabs, the 'Topdanmark' logo is displayed. The main heading is 'Log ind i Mit Topdanmark'. On the left, there is a 'Log ind med dit NemID' (Log in with your NemID) form and a 'MitID' logo. To the right of the form, the text '- Eller brug MitID' (Or use MitID) is followed by the MitID logo. A callout box titled 'I Mit Topdanmark kan du bl.a.' (In Mit Topdanmark you can do the following) lists three benefits: 'Få overblik over dine forsikringer og din pension' (Get an overview of your insurance and pension), 'Anmelde og se status på skader' (Report and see status of claims), and 'Justere, hvordan du er dækket' (Adjust how you are covered). Below this, a warning message reads: 'Vigtigt: Luk alle vinduer i din browser, når du logger ud. Ellers risikerer du, at andre kan få adgang til dine personlige oplysninger.' (Important: Close all windows in your browser when you log out. Otherwise, you risk that others can gain access to your personal information.). At the bottom, there is a section titled 'Vidste du?' (Did you know?) with a note about logging in with a company NemID.

Alternativ 2: Lad brokeren håndtere skiftet



Efter udfasning af NemID fra 1/1-2022



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Obligatorisk skift til broker - teknik

- 1 Skift til føderet, dvs. uddelegeret, autentifikation (via OpenID Connect)
- 2 Vælg – pr. applikation – mellem redirect eller popup
- 3 Med redirect kan det meste håndteres vha. standard OIDC plugins til både serverapplikationer og SPA'er
- 4 Hvis popup afhænger håndtering af typen af applikation, men non-standard komponenter/kode er nødvendige (som f.eks. det kommende criipto-auth.js)

Server side konfiguration

Initialisér OIDC modulet

```
.AddOpenIdConnect(options => {
    options.ClientId = Configuration["Criipto:ClientId"]; // ClientID from application registration
    options.ClientSecret = Configuration["Criipto:ClientSecret"]; // Client from application registration
    options.Authority = $"https://{{Configuration["Criipto:Domain"]}}/"; // Domain from application registration
    options.ResponseType = "code";

    // The next two settings must match the Callback URLs in Criipto Verify
    options.CallbackPath = new PathString("/callback");
    options.SignedOutCallbackPath = new PathString("/signout");

    // Hook up an event handler to set the acr_value of the authorize request
    // In a real world implementation this is probably a bit more flexible
    options.Events = new OpenIdConnectEvents() {
        OnRedirectToIdentityProvider = context => {
            context.ProtocolMessage.AcrValues = context.Request.Query["loginmethod"];
            return Task.FromResult(0);
        }
    };
});
```

Client side konfiguration og autentifikation

Initialisér forbindelsen til autentifikationsserveren (OIDC)

```
var criipto_auth = new CriiptoAuth({
  domain: 'kurts-flyttefirma.criipto.com',
  clientID: 'urn:kurt:clients:12345',
  desktopStrategy: 'popup',
  mobileStrategy: 'redirect',
  responseMode: 'query' // use 'fragment' for SPA
});
```

Client side konfiguration og autentifikation

Kald autentifikationsserveren (OIDC)

```
criipto_auth.authorize({
  acrValue: 'dk:mitid:personal',
  levelOfAssurance: 'substantial',
  redirectUri: window.location.href
}, function(err, authResult) {
  // this function is called if you use popup mode
  // handle the result
});
```

Client side konfiguration og autentifikation

For en SPA samles identiteten op fra fragmentet

```
// For SPA's pick up the return token from the fragment
cripto_auth.parseHash({ hash: window.location.hash }, function (err, authResult) {
    // do some error handling
    webAuth.userInfo(authResult.token, function (err, user) {
        // now you have the user's information
    });
});
```

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Signering i browseren

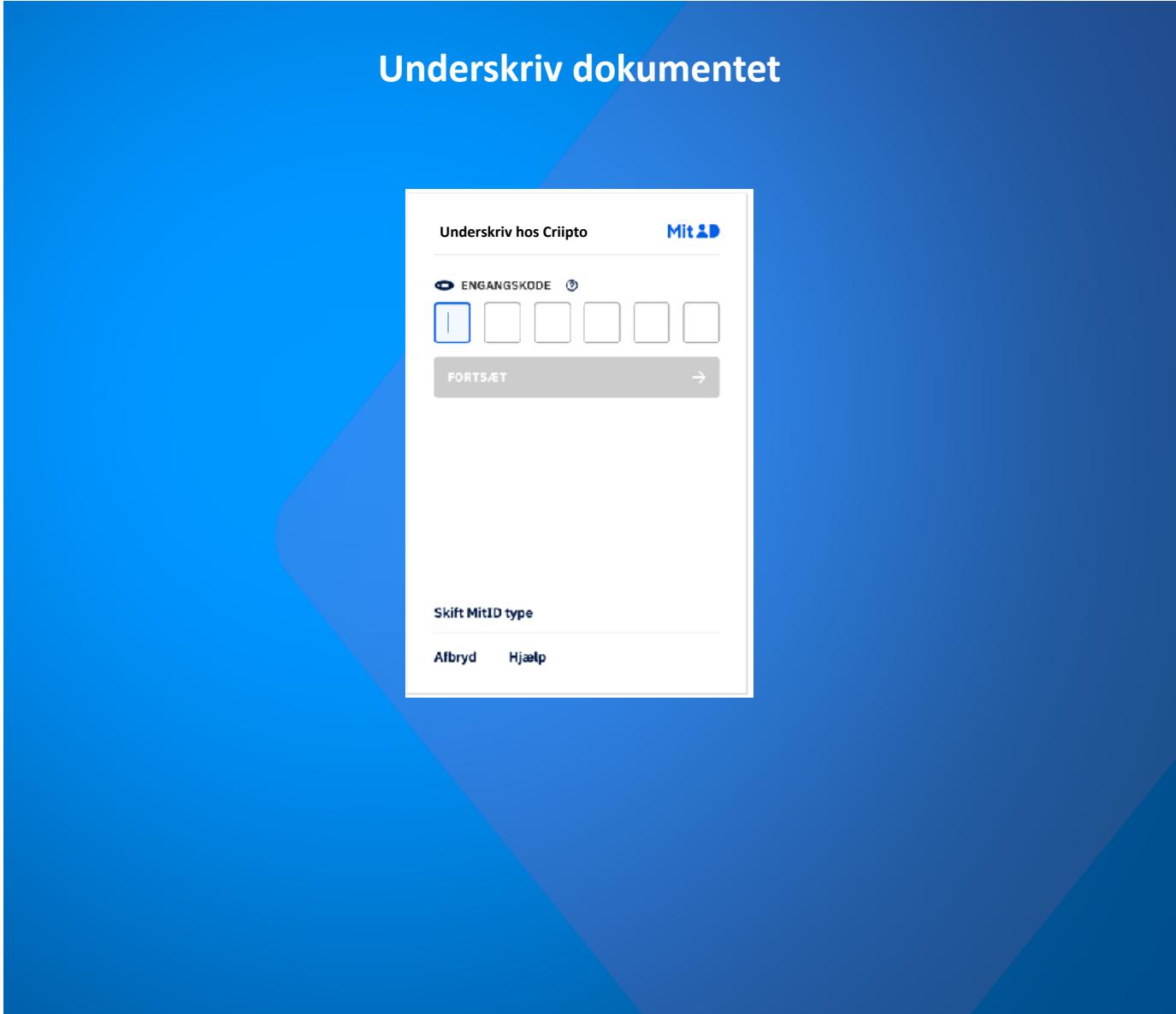
Læs og underskriv dokumentet

OCES transaktioner siden januar 2014

Samlede antal transaktioner siden januar 2014

Jeg har læst dokumentet FORTSÆT →

Signering i browseren med "step up" MitID



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Criipto som broker

- 1 Fuld selvbetjening. Gratis indtil produktion
- 2 Support direkte fra udviklere hele vejen i gennem – bl.a. på Slack
- 3 Andre e-ID'er også, f.eks. svensk og norsk BankID
- 4 Egen styling og tilpasning af login- og signeringsssider
- 5 Udvid med egen kode f.eks. check mod eget CRM
- 6 Pris baseret alene på antallet af transaktioner i produktion

Criipto Verify – Identity as a Service

The screenshot shows the Criipto Verify dashboard. On the left, there's a sidebar with 'criiptoverify' branding, a 'PRODUCTION TEST' switch, and tabs for 'Dashboard', 'Applications', 'Domains', and 'Identity sources'. Below these are sections for 'Test applications' (listing 'A Sales Portal demo' and 'Another demo') and 'Another demo' (with fields for 'Name' containing 'Another demo', 'Available on domain' showing 'acme-corp.criipto.id (connected to Auth0)', and 'Client ID/Realm' showing 'urn:auth0:auth0-demo-cripto'). A note at the bottom of this section says 'The realm must be unique for each application.' On the right, the main area features a large blue banner with the text 'Simplest way to set up NemID, BankID, and other e-IDs in your app' and a 'Start your free trial' button. It also includes a photo of a hand holding a smartphone displaying the Criipto Verify login screen for 'NEM ID'.

The landing page has a dark blue header with navigation links for 'Menu', 'Operations status', 'Documentation', 'Pricing', 'Log in', and 'Sign up'. The main headline reads 'Simplest way to set up NemID, BankID, and other e-IDs in your app'. Below it is a 'Start your free trial' button. To the right is a large image of a hand holding a smartphone showing the Criipto Verify login interface. Below the headline, the text 'Why developers love Criipto Verify' is displayed, followed by four icons with corresponding text: 'All-in-one e-ID' (blue gear icon), 'Ready in no time' (red alarm clock icon), 'Easy integration' (blue gear icon), and 'Great support' (orange speech bubble icon).

Dashboard and Slack support

The diagram illustrates the Criipto Verify platform interface, divided into several sections:

- Top Bar:** Shows navigation tabs (Dashboard, Applications, Domains, Identity sources), environment selection (PRODUCTION TEST), and user account (acme-corp).
- Get started:** A section for setting up your first application, containing:
 - Register your application with Cripto Verify. Go to the [Applications](#) section
 - Configure your application for *OpenID Connect* integration with Cripto Verify
 - Log in with test users in your application. Test users may be [found here](#).

Check the documentation for examples on integrating Cripto into your specific programming framework.
- Move to production:** A section for transitioning from test to production, containing:
 - Register with e-ID providers to get a certificate
 - Subscribe to a paid Cripto Verify subscription
 - Set up your production domain in the [Domains](#) section
 - Register your production application in the [Applications](#) section. Register it on a production domain such as the one created in the previous step
 - Real people with a real e-ID may now log in to your application
- Support:** A section for Slack support, featuring the Slack logo and instructions to sign up for the support channel. It includes a text input field for email and a "Send" button.
- Production configuration:** A large panel for managing production configurations, with a yellow header bar labeled "Production configuration".
- Operations status:** A section for monitoring system status, with a "Subscribe to status updates" form and a table of checked services:

✓	Cripto Verify Authentication Core
✓	E-ID services
✓	Swedish BankID
✓	Norwegian BankID
✓	Danish NemID

Registrér din applikation

The screenshot shows the criipto verify application registration interface. On the left, there's a sidebar with 'Dashboard', 'Applications' (selected), 'Domains', and 'Identity sources'. Below this are sections for 'Test applications' (listing 'A Sales Portal demo') and 'A Sales Portal demo' configuration. Configuration fields include 'Name' (set to 'A Sales Portal demo'), 'Available on domain' (set to 'acme-corp.grean.id'), 'Client ID/Realm' (set to 'urn:easyid:aspnet-core-demo'), and 'Callback URLs' (listing 'http://localhost:5000/signin-oidc', 'http://localhost:50418/signin-oidc', and 'https://localhost:5001/signin-oidc'). A checkmark icon is next to the 'Callback URLs' section.

Choose identities

- DK MitID
- DK NemID
- SE BankID
- NO BankID
- NO BankID (phased out)
- NO Vipps

OpenID Connect

- Callback on location hash
- Enable OAuth2 Code Flow

Client secret

Does it match?

Info
Enable the national identiti... application.

Info
OAuth2 and OpenID Conn...
Callback on location hash
Enable this for single-page... available to JavaScript

Enable OAuth2 Code Flow
Enable Authorization Code... Authentication settings (an...
User info response strateg...
We support 3 modes for re...

Brug dit criipto.id domæne, eller registrer dit eget

The screenshot shows the criiptoverify web interface. At the top, there's a navigation bar with a lock icon and the text "criipto verify". To the right are buttons for "PRODUCTION" and "TEST", and a dropdown menu set to "acme-corp". Below the navigation is a horizontal menu bar with "Dashboard", "Applications", "Domains", and "Identity sources", where "Domains" is currently selected.

The main content area is divided into sections:

- Test domains**: A list of three domains: "testdom.criipto.me", "testdomain1.criipto.me", and "testid.flensted-jensen.com".
- Test domain**: A form for setting up a domain:
 - "Your domain name": Input field containing "testid.flensted-jensen.com".
 - "Verify your domain settings": A button.
 - "SSL certificate (PFX/PKCS12)": A file upload section with "Select a file" and an upload icon.
 - "Certificate password": Input field with placeholder "Enter your certificate password".
- Info**: A section with instructions: "To make your domain work you must configure a DNS CNAME record to point your domain to **idp.criipto.id**".

NemID etc. er klar til test

criipto verify

PRODUCTION TEST

Test configuration

Dashboard Applications Domains Identity sources

Provider

DK NemID	You are all set. No need for any configuration
SE BankID	You are all set. No need for any configuration
NO BankID	You are all set. No need for any configuration
NO Vipps	You are all set. No need for any configuration
NO BankID (phased out)	⚠️ You can still use this version, but is being phased out. You are all set. No need for any configuration
NL DigiID	

Customized styling (leave blank to use built-ins)

CSS for test

<https://docs.criipto.com/css/codan-styles.css>

criipto verify

PRODUCTION TEST

Production configuration

Dashboard Applications Domains Identity sources

Provider

DK NemID

Connect Danish NemID

Production environment

Certificate

Criipto ApS – NemID Grean

Valid from
2017-12-13 09:39:17

Valid to
2020-12-13 09:36:29

Select a file

Upload button

Certificate password

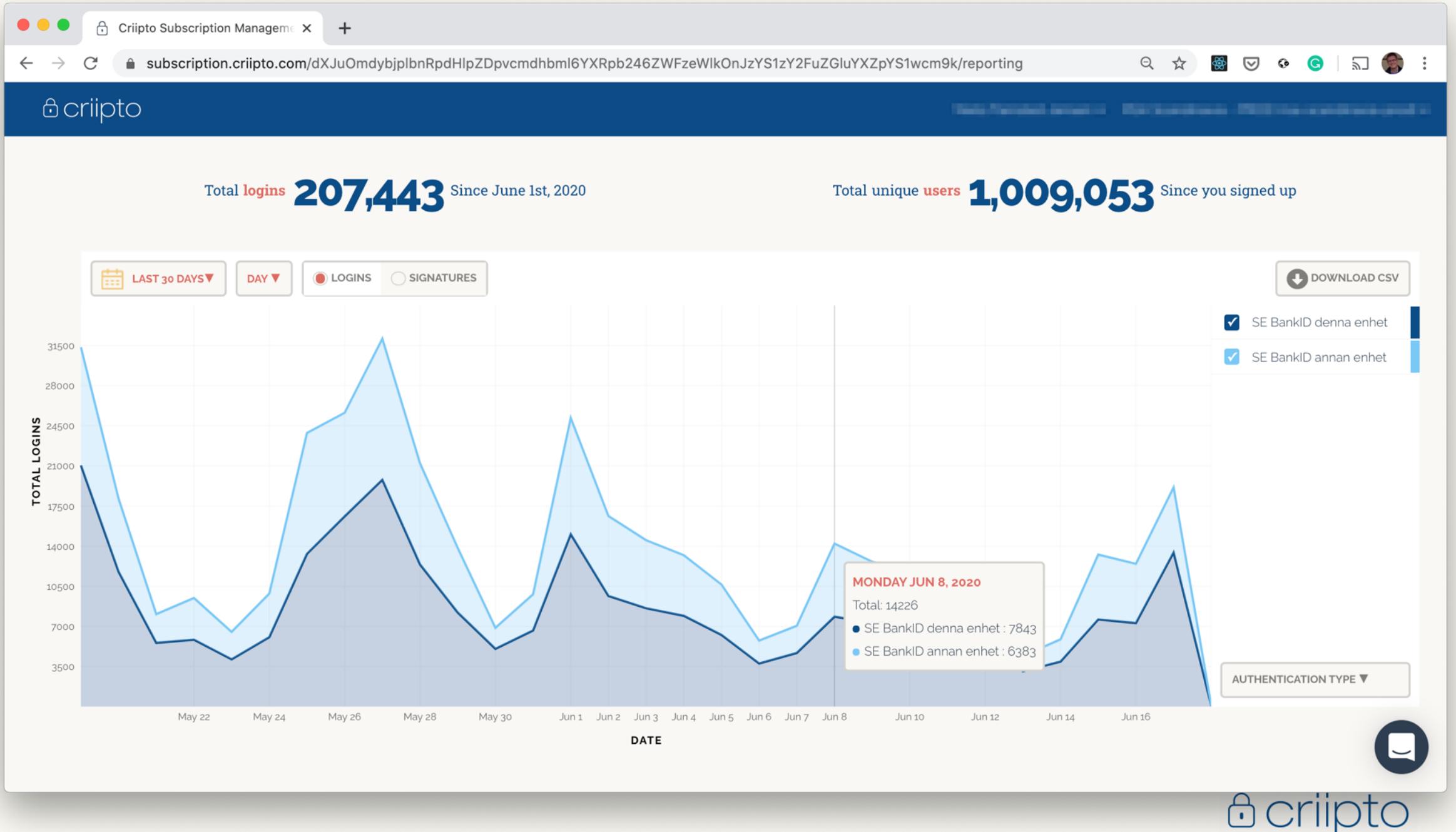
Info

Upload your certificate towards NemID

If you haven't done this, [aftale here](#)

You have selected the production environment. NETS will handle the certificate upload.

If you have any questions, get in touch with us or enable it for your application.



A photograph of a person from the waist up, wearing a bright yellow zip-up hoodie. They are holding a black smartphone in their right hand, looking at the screen. The background is blurred, showing what appears to be a stone archway or bridge.

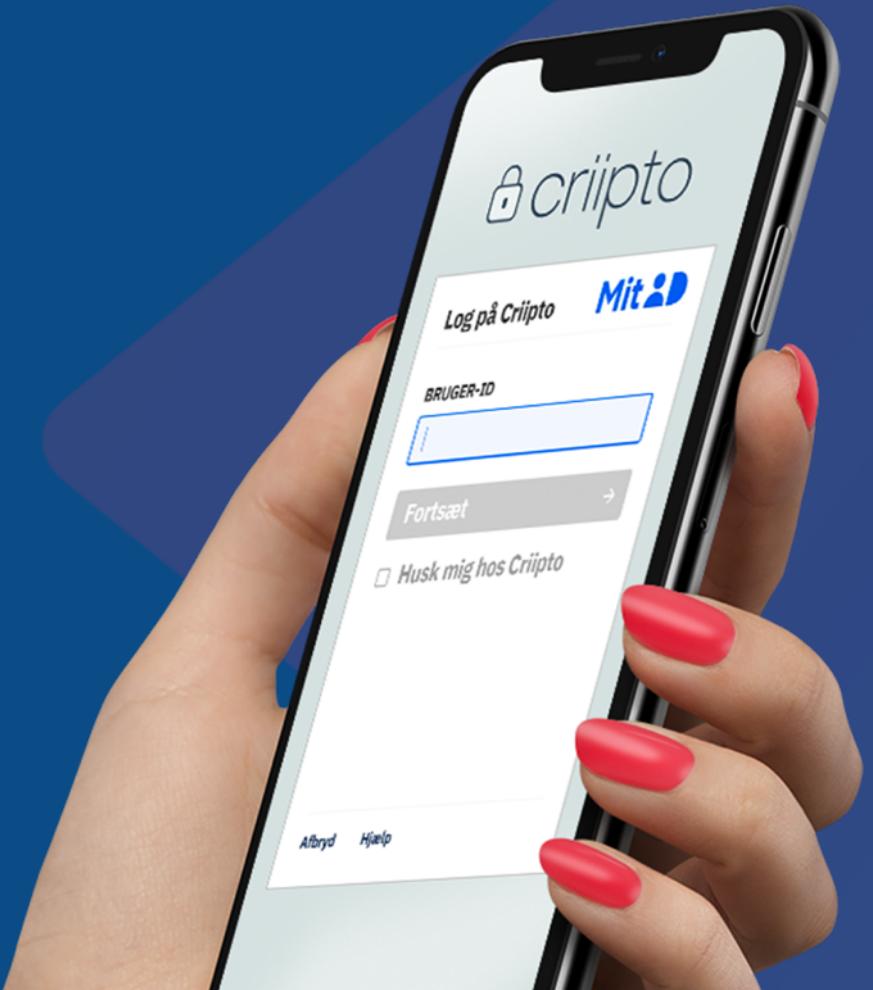
103.546 sikre logins/uge

Identity Is the New Firewall

Tak skal I have!

Start allerede i dag på
criipto.com

Niels Flensted-Jensen
niels@criipto.com
20 20 61 68



 criipto