Modules - Certificates: Basics

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Certificate authority (crt) module was designed to handle various certificate authority implementations via specific drivers. Currently, there is one driver implemented - the CAW driver that handles the communication with CAW certificate authority (bundled in the module).

What do you need before you start

- You need to install CzechIdM 7.7.0 (and higher).
- Modules imported via remote console through WinSCP (Windows) or SCP (Linux) into /data/volumes/czechidm/modules/ :
 - idm-crt-api 3.x.x
 - idm-crt-impl 3.x.x
 - axis-1.x
 - jaxrpc-api-1.x
 - wsdl4j-1.6.x
- You need to be logged in as **admin**.
- You need to enable Certificate module.
- You need to install the CAW .

How to create an authority on Linux

By clicking on the left menu on **Certificates** and then on **Authorities** is shown a table with certificate authorities. Click on **Add** button and a popup window is shown.

czech idm	Development 🛌 🔀 1. admin 👳	ტ
1 Profile	Certificate authorities	
🖺 Tasks		
볼 Users		
Organization	No results found	
0 Roles	0 - 0 of 0 records	
⊗ Systems		
🔗 Virtual systems	BCV solutions s.r.o. Help ServiceDesk About app	
• Certificates		
Certificates		
 Authorities 		
Reports		
,lı Audit		
Notifications		
• Settings		

Here you fill:

- Code Label of certification authority
- Driver We are using caw-driver. (There is only caw driver implemented for now.)
- Path to the CAW distribution and Path to the certificate for that authority There is needed a path to CAW distribution and certificate for our new authority.
- **OU** Fill organization unit, it is part of the certificate, it could be a specification of location or department.
- Enable approving by workflow process It is an option if generating of certificates has to be

approved or not.

• **Approver roles** - Specified roles for approving generation of certificates. Users with these roles get tasks to be approved or not.

Then you click on **Save and continue** button and continue this tutorial with generating **certificate in GUI** or with **CSR file**.

Certificate authority detail	
Code	
Testing authority	*
Password policy for validation	
validCrt	× 👻
Password policy for generating	
generateCrt	× -
Driver	
caw-driver	× -
Identifier	
test	*
Identifier of CA.	
Supported certificate types (multi)	
AUTHENTICATION	*
This CA supported this certificates types. Values have to be items from 'CertificateType' enumeration (AUTHENTICATION, SIGNING, ENCRYPTION)!	
Path to the CAW distribution	
/home/john/java/caw2/caw	*
Path where is installed CAW distribution.	
Path to the certificate for that authority	
/home/john/java/caw2/ca/ca.crt]
Country	
C2	*
Abbreviation for the country	
Locality	
Prague	*
ORG	
BCV	*
Organization	
ou	
ExampleCA	*
Organization unit	
State	
Czech Republic	*
✓ Include certificate chain	
Enable approving by workflow process	
Key of approving workflow process	
crt-approve-request	
Approver roles Select or type to search	-
	· · ·
Every requests (generate, revocate, renew) for this CA have to be approve by approvers (with that roles).	
Inactive Disabled authority cannot be used for generating new certificates.	
,	
	Back Save and continue +

How to create an authority on Windows



On Windows, using diacritics in certificate/CSR DNs is currently not supported due to bug #8317 in OpenSSL. This affects CRT module with CAW Windows driver. IdM



handles this by stripping diacritics from certain strings before passing them to the CAW. On Linux, diacritics works fine.

The process of creating an authority on Windows is similar to the one on Linux but you need to have Git Bash installed. When creating the authority on Windows, we select the win-caw-driver. Then we just need to fill out one extra field:

• Path to Git Bash - This path leads to the bash.exe file in git\bin.

An example of how we can configure the authority can be seen bellow:

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Path to the tabah	IcIcawicaw	*
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Back Save and continue	uisauleu autionity tainiot ue useu ior generating new certificates.	
		Back Save and continue

Other than the extra field Path to Git Bash, the process is the same as on Linux.

Generate certificate in GUI

In the left menu click on **Profile** and then on **Certificates**. There are 2 tables, in **Certificates** table are all certificates owned by the user and in the other table, there are requests of these certificates. Click on **Request certificate**.

czech idm				Development 🕒 🔀 1 admin 🗠
≗ Profile		Administrator	(admin) User details	
볼 Users		Administrator (admin)		
 Organization Roles 		Personal data More information	New certificate Request and generate new certificate.	Validate certificate Validate and upload exist valid certificate into idM.
Ø Systems		Change password	+ Request a certificate	 Validate certificate
Virtual systems Certificates	د د	Roles Permissions	Certificates	
✓ Reports		Positions		◆ Validate certificate + Upload certificate Y Filter •
II Audit	<	 Subordinates Authorize roles 	No results found	
Settings	<	C Accounts		0 - 0 of 0 records
		Provisioning Certificates	Di Certificate requests	+ Request a certificate
		ງ Audit	No results found	
				0 - 0 of 0 records

Fill information in a popup window:

- **Certificate authority** There can be more certificate authorities, so choose authority, which will issue the certificate.
- **Certificate type** For which purpose certificate will be issued. **Signing** for example signing some documents, **Authentication** to grant access to a resource, network, application, etc. not based on a password, but rather on the certificate.
- **Generate certificate by** It is a specification for whom certificate will be issued. Based on this information will be certificate generated.
- **Password** Downloaded private key will be encrypted with this password. Because this is just tutorial we put a weak password, you should use more powerful one.

And click on **Submit a request** button.

New certificate request \simeq Owner Administrator (admin) **Certificate authority** Main CA × Certificate authority for create (renew, revocate) certificate. Authority can support different certificate types. **Certificate type** Authentication Ŧ Defines purpose of using the certificate. Generate certificate by Selected owner (identity) The certificate can be created by information stored in IdM on owner, or by a previously prepared CSR file. Password * **Re-enter password** ••••• * Password will be used for creating certificate private key. Password will be needed after download, when key will be used. Description

Now we have the valid certificate and we could download the certificate. **Certificate** button downloads public key and **Key** button downloads encrypted public and private key.

Close

Save concept

🔄 Submit a request

quest and g	i te generate new cert	ificate.				Validate certificate Validate and upload exist valid certificate into IdM.						
r Request a	rcertificate					I validate	certificate					
Certific	ates											
								 Validate cer 	tificate 🕂 Upload	d certificate 🔽 Filter		
State ≑	Туре 🌲	Serial number 🌲	Subject ≑	Publisher \Rightarrow	Valid from \diamondsuit	Valid till ≑	Download	Archived \diamondsuit	Actions	Id		
Valid	Authentication	AAACCC0	Administrator	Main CA	07.02.2018 13:38:33	27.02.2020 13:38:33	Certificate		20	258ed		
										1 - 1 of 1 reco		
		octo										
Certifi	cate reque	2515								+ Request a certifica		
Certifi	· ·		<i>r</i> pe ≑	Certificate typ	le ≑ Ce	ertificate ≑	Certificate authority 🗘	Act	ions	+ Request a certificat		

For admin, there is another one important section in left menu **Certificates** and again in **Certificates**. This table shows all certificates. For version < 3.0.3 the key could be downloaded only by the owner of certificate, but from version 3.0.3, there is special permission for downloading key.

If the owner doesn't has this new permission, he won't be able to download it.

You need to set permission:

- CrtCertificate DOWNLOADKEY
- CrtAuthority DOWNLOADKEY

You can use BaseEvaluator so the user can download all keys. Or if you use for example UUID evaluator for CrtAuthority, then user will be able to donwload keys only for certificates from this specific authority.

Profile	Certificates										
Tasks											
Users									👁 Validate	certificate 🕇 Up	load certificate 🗍 🏹 Filter 🔺
Organization	Serial number					Owne	r		-		Cancel filter Filt
Roles	State		туре			▼ Certif	cate authority		▼ Archived:	No	×
Systems	■ State ≑ Type ≑	Serial number ≑	Owner ‡	Subject ≑	Publisher 🗘	Valid from \$	Valid till 🗘	Download	Archived \$	Actions	Id
Virtual systems <	Valid Signing	AAACCCO	Jack Approver (crtapp)	Jack Approver	Main CA	07.02.2018 13:45:32	27.02.2020 13:45:32	Certificate		1	ac28a
Certificates	Valid Authentication	AAACCC0	Administrator (admin)	Administrator	Main CA	07.02.2018 13:38:33	27.02.2020 13:38:33	• Certificate 4 Key		1	258ed
O Authorities											1 - 2 of 2 rec

Generate certificate by CSR

In the left menu click on **Profile** and then on **Certificates**. There are 2 tables, in **Certificates** table are all certificates owned by the user and in the other table, there are requests of certificates. Click on **Request certificate**.

czech idm			Development. 🔚 💥 1 admin 🛛
1 Profile	Administrator	(admin) User details	
📰 Tasks			
🛎 Users	Administrator (admin)		
Organization	L Personal data	New certificate	Validate certificate
0 Roles	O More information	Request and generate new certificate.	Validate and upload exist valid certificate into IdM.
Ø Systems	Change password	+ Request a certificate	 Validate certificate
S Virtual systems	Roles	Certificates	
Certificates	O Permissions		💿 Validate certificate 🗧 + Upload certificate 📑 Filter 🕶 😂
✓ Reports	Positions		
h Audit 🤇	🗑 Subordinates	No results found	
S Notifications	Authorize roles		0 · 0 of 0 records
Settings	I≇ Accounts		
	O Provisioning	ច្រាំ Certificate requests	
	Certificates		+ Request a certificate
	ອ Audit	No results found	
			0 - 0 of 0 records

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- **Certificate authority** There can be more certificate authorities, so choose authority, which will issue the certificate.
- **Certificate type** For which purpose certificate will be issued. **Signing** for example signing some documents, **Authentication** to grant access to a resource, network, application, etc. not based on a password, but rather on the certificate.
- Generate certificate by Fill option Selected CSR file and drag CSR file to the marked field right below.

And then click on **Submit a request** button.

×

Certificate request detail

Owner

Administrator (admin)

Туре

New certificate

Request for create, renew, revoke certificate.

Certificate authority

Main CA

Certificate authority for create (renew, revocate) certificate. Authority can support different certificate types.

Certificate type

Authentication

Defines purpose of using the certificate.

Náhled CSR souboru (www_tutorial_com.csr)									
Attribute	Value								
cn	www.tutorial.com								
ou	IT								
organization	BCV								
locale	Prague								
state	Czech Republic								
country	CZ								
fingerprint	5B:F0:09:8B:64:46:76:6A:3D:37:C2:06:A9:DF:71:E5:14:F5:B4:F8								
signature_type	1.2.840.113549.1.1.11								
State									
Concept	~								
Result									

O Created

Close 📴 Submit a request

Now we have two certificates and as you can see in the picture below, the private part of certificate generated with CSR file cannot be downloaded. It is because CzechIdM does not have a private part. Users have it with CSR file, so if you lose it you will probably have to generate a new certificate.

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Certificates	

								 Validate certific 	ate 🕂 Upload o	ertificate 🔻 Filter 🕶 🕯
🔲 State 🌲	Туре ≑	Serial number ≑	Subject ≑	Publisher ≑	Valid from 💠	Valid till ≑	Download	Archived 🗢	Actions	Id
Valid	Authentication	AAACCC0	www.tutorial.cz	Main CA	08.02.2018 08:31:31	28.02.2020 08:31:31	• Certificate		1	dd7f3c7
Valid	Authentication	AAACCC0	Administrator	Main CA	07.02.2018 13:38:33	27.02.2020 13:38:33	Certificate			258ed8e
										1 - 2 of 2 records

Upload certificate

Certificate generated by third-party authority can be uploaded to CzechldM (or synchronized from target system). In the left menu **Profile** and then in **Certificates** menu, you can upload certificate by clicking on an **Upload certificate** button.

czech idm											Development		💄 admin 🛛 🕸
💄 Profile		Administrator	(admin) us	er details									
ë Tasks			(
Users		Administrator (admin)											
Organization		1 Personal data	New certifica						Validate certif				
Roles		O More information		enerate new cer	tificate.					load exist valid certificate	into IdM.		
Systems		Change password	+ Request a	certificate					 Validate ce 	ertificate			
Virtual systems	<	Roles	Certific	ates									
Certificates	<	O Permissions									 Validate certific 	ate + Upload cer	tificate 🍸 Filter 🔻
Reports		Positions	State 🖨	Type ≑	Serial number ≑	Subject ≑	Publisher ≑	Valid from ≑	Valid till ≑	Download	Archived ≑	Actions	Id
Audit	¢	🗑 Subordinates	Ualid	Authentication	AAACCCO	Administrator	Main CA	19.02.2018	10.03.2020	Certificate Key			37ea8b0
Notifications	<	Authorize roles	Valid	Authentication	AAACCCU	Administrator	Main CA	11:55:14	11:55:14	Certificate 4 Key			37ea8b0
Settings	<	I Accounts	Valid	Authentication	AAACCC0	www.tutorial.cz	Main CA	08.02.2018 08:31:31	28.02.2020 08:31:31	Certificate		()	dd7f3c7
		O Provisioning	Valid	Authentication	AAACCC0	Administrator	Main CA	07.02.2018	16.02.2018	🗢 Certificate 🛛 🔩 Key		1	258ed8e
		 Certificates 						13:38:33	01:00:00				
		ອ Audit											1 - 3 of 3 records

And then just drag certificate file to marked box in a popup window.

If we want to allow a user to upload a certificate, we set authorization policies as follows:

• Permission to read, create and download one's own identity certificates: Certificates (CrtCertificate) | Read, Create | SelfCertificateEvaluator

Renew and revoke certificate

For users:

It is on the same page as generating a certificate. By clicking on **Profile** in the left menu and then on **Certificates**. And as you can see in the picture below, in column **Action** there are two buttons. Green one is for **renew** a certificate, it prolongs the validity of a certificate. The red one revokes a certificate (e.g. certificate was compromised), the certificate will stay in certificates section, but it will not be valid.

Administrator	(admin) User	details								
Administrator (admin)										
 Personal data More Information Change password 	New certificate Request and gene + Request a ce	erate new certificate	.				Validate cert Validate and u Validate	upload exist valid certificate ir	ito IdM.	
Roles O Permissions	Certificat	tes								
Positions	🗐 State 💠 T	ſype ≑ Seri	al number ≑	Subject \$	Publisher ≑	Valid from	Valid till 🗘	Download	Validate certificate + Upl Archived Actions	ioad certificate 🔻 Filter 👻 😂
 Subordinates Authorize roles 	Valid	Authentication AAA	CCC0	Administrator	Main CA	07.02.2018 13:38:33	27.02.2020 13:38:33	Certificate		258ed8e
☑ Accounts										1 - 1 of 1 records
Provisioning Certificates	ច្រាំ Certifica	ate requests								
ຈ Audit										+ Request a certificate
	State	Created ≑		pe ≑	Certificate type		Certificate ≑	Certificate authority 🌩	Actions	Id
	Q Executed	07.02.2018 13:23	7:15	ew certificate	Authentication		AAACCC0	Main CA		2a02ad2
										1 - 1 of 1 records

For admin:

There is agenda in left menu **Certificates** \rightarrow **Certificates** (picture below), where are all certificates and admin can revoke or renew certificates even of other user's.

czechidm											Deve	opment 🛌	💥 🎩 admin	×
1 Profile		Certifi	icates											
≣ Tasks		- Certin	leates											
볼 Users											 Validat 	certificate 🛛 🕇 U	pload certificate 🝸 Filte	r 🔺 🖸
• Organization		Serial num	ber					Owner			Ŧ		Cancel filter	Filter
O Roles		State			▼ Туре			▼ Certificate authority		* Archive	- Archived: No		× •	
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🔗 Virtual systems	<	Valid	Authentication	AAACCC0	Administrator (admin)	www.tutorial.cz	Main CA	08.02.2018	28.02.2020	• Certificate	0	1	do	d7f3c7
Certificates	<							08:31:31	08:31:31					
• Certificates		Revoked	Signing	AAACCCO	Jack Approver (crtapp)	Jack Approver	Main CA	07.02.2018 13:45:32	27.02.2020 13:45:32	Certificate			ac	:28ac3
O Authorities		Valid	Authentication	AAACCC0	Administrator (admin)	Administrator	Main CA	07.02.2018	27.02.2020	🔹 Certificate 🔍 Key		(11)	25	58ed8e
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When a certificate expires, it no longer can be renewed. But in **Settings** and in **Task scheduler** process can be created, which sends a notification with a warning, when certificates will expire in few days. Or you can find help in warning notification tutorial.

To allow using this agenda, users have to have this permissions:

- CrtRequest Read, Create, Update
- CrtCertificate Read, Create
- CrtAuthority autocomplete, SETTOCRTREQUEST
- IdmIdentity SETTOCRTREQUEST

You can create new role, add this permissions to the role and assign this role to users.

Congratulations, if you are reading this, you successfully completed this tutorial.

Permissions

For CRT exists two special permissions for validating and requesting certificate by CSR request:

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- Validate CRS request,
- Upload CSR request.

These permission must be set to user before they want upload or validate CSR request. Basic requesting via frontend form works with permission create/update.

Configuration

Configuration option that allow create password as another user. For example: admin requesting new certificate for user.

If value is true admin can set new password, this password will be sent to user in notification. # If set to false admin will not able set password to request. The password for certificate will be generated by password policy. idm.pub.crt.configuration.passCreate.enabled=true # # Default status for all identity certificates that will be revocated after identity will be disabled. idm.sec.crt.configuration.identityDisabledRevocationReason=UNSPECIFIED # # Default status for all identity certificates that will be revocated after identity will be deleted. idm.sec.crt.configuration.identityDeletedRevocationReason=UNSPECIFIED

There is a processor which start provisioning for user when a new certificate is created for them. This processor is disabled by default and can be enabled, find the "certificate-provisioning-processor".

Revocation status list

- UNSPECIFIED
- KEY_COMPROMISE
- CA_COMPROMISE
- AFFILIATION_CHANGED
- SUPERSEDED
- CESSATION_OF_OPERATION
- CERTIFICATE_HOLD

From: https://wiki.czechidm.com/ - IdStory Identity Manager

Permanent link: https://wiki.czechidm.com/tutorial/adm/modules_crt



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