

Knowledge Base Article

Maximum number of certificates for different eToken Models

Document details

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Below you can find a table stating the maximum amount of certificates that can be stored on different eToken Pro Models. At the time of writing, *Pro Java Mask7 Patch Level 2* and *Mask8* tokens were distributed.

Token	Format Version	1024 Bit Keys		2048 Bit Keys	
		CAPI	PKCS#11	CAPI	PKCS#11
Pro 32k 4.2b	4	19	11	9	8
Pro 64k 4.2b	4	31	17	19	14
Pro 64k 4.2b	5	41	22	24	16
Pro Java 72k M7 P2 (Applet 1.0.37)	5	24	16	17	13
Pro Java 72k M8 (Applet 1.1.25)	5	24	15	15	11

The difference between CAPI and PKCS#11 enrollment is a result of the fact that different amounts of objects are stored on the token, depending on the enrollment method.

For CAPI enrollment, the private key and the certificate objects are stored on the token, the public key is not. The public key is included in the certificate object in this case.

For PKCS#11 enrollment, the behaviour is depending on the application behaviour. For example Firefox browser will store private key, public key and certificate as separate objects on the token and as a result the capacity of the token is lower (Because the number of objects is limited and there is some overhead for object management).

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Below some performance numbers:

PKI Version.Build		5.1 SP1 (5.1.57)
SC Size		72k
Diagnostic build		2
Token Type		MASK 8 p5 APPLET 1.1.25
Measure RSA times of PKCS11	Key size 1024	
	Gen Key	3,989
	Enc message	0,3
	Dec message	0,164
	Key size 2048	
	Gen Key	16,501
	Enc message	0,4
	Dec message	0,403
Measure RSA times of CAPI	Key size 1024	
	Gen Key	3,646
	Enc message	0
	Dec message	0,164
	Key size 2048	
	Gen Key	15,464
	Enc message	0
	Dec message	0,57

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