



Migration from SHA1 to SHA2

Fast & Easy migration with C-View Solution



Feb 2016



SHA2 Migration - Why you need it ?



- In November 2013, Microsoft announced that it would stop trusting SHA1 certificates due to concerns that the algorithm is no longer secure.
- Security warnings are already shown by leading browsers
- SSL/TLS certificates signed by SHA1 signatures will not be trusted after **31/12/16**
- Windows will trust a file signed with a SHA1 code signing certificate if it is timestamped prior to 01/01/2016

Due date is almost here , Are you ready to start ... ?

why?
why?
why?
why?

SHA1 Migration process ...



- Plan your migration and reserve human resources
- Mapping: all software and hardware consumers of certificates
- Test for SHA2 compatibility (vendors confirmation and labs)
- Determine which consumer
 - Can use SHA2
 - Will support SHA2 in the future
 - Never have a support
- Design a proper PKI architecture: side by side SHA1 and SHA2 hierarchies or mixture of both.
- Fallback design
- Proof of concept



SHA-1 Migration with C-View



C-View will automate the process in the following way:

- C-View shall handles the Inventory of certificates, issued both from internal CAs, Public CAs or self signed
- C-View shall renew SHA1 certificate with SHA2 from any CA preserving all certificate attributes.
- The support is for software certificates.

Advantage

- Avoid mistakes in the issuance process
- Save the PKI team valuable time.
- Centralize solution
- Reduce project time line.



SHA-1 Migration - Fast & Easy



#	Task	Responsible	Days
0	Architecture design for the migration	Securely + Client Team	1
1	Install & configure C-View	ATS	1
2	Automatically discover all your SHA-1 certificates (depending on the quantity)	ATS	3
3	Renew all SHA-1 certificates from one template to another	ATS	1
4	Install SHA2 lab	ATS	1
5	Test for SHA-2 compatibility (vendors confirmation and labs)	Client Team	20
6	Install certificates (not by C-View)	Client Team	10



Thank you



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