

SCTS-SC

Appendix A

Technical Overview

Version 1.0.0

2010-11-22

SCTS-SC, Appendix A

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Appendix:

Appendix A - Technical overview (this appendix)

Appendix C - Codelists

Appendix G - Branching diagram

Appendix H - EDIFACT segment descriptions

Appendix Q - Data model

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Technical Overview

1 Introduction

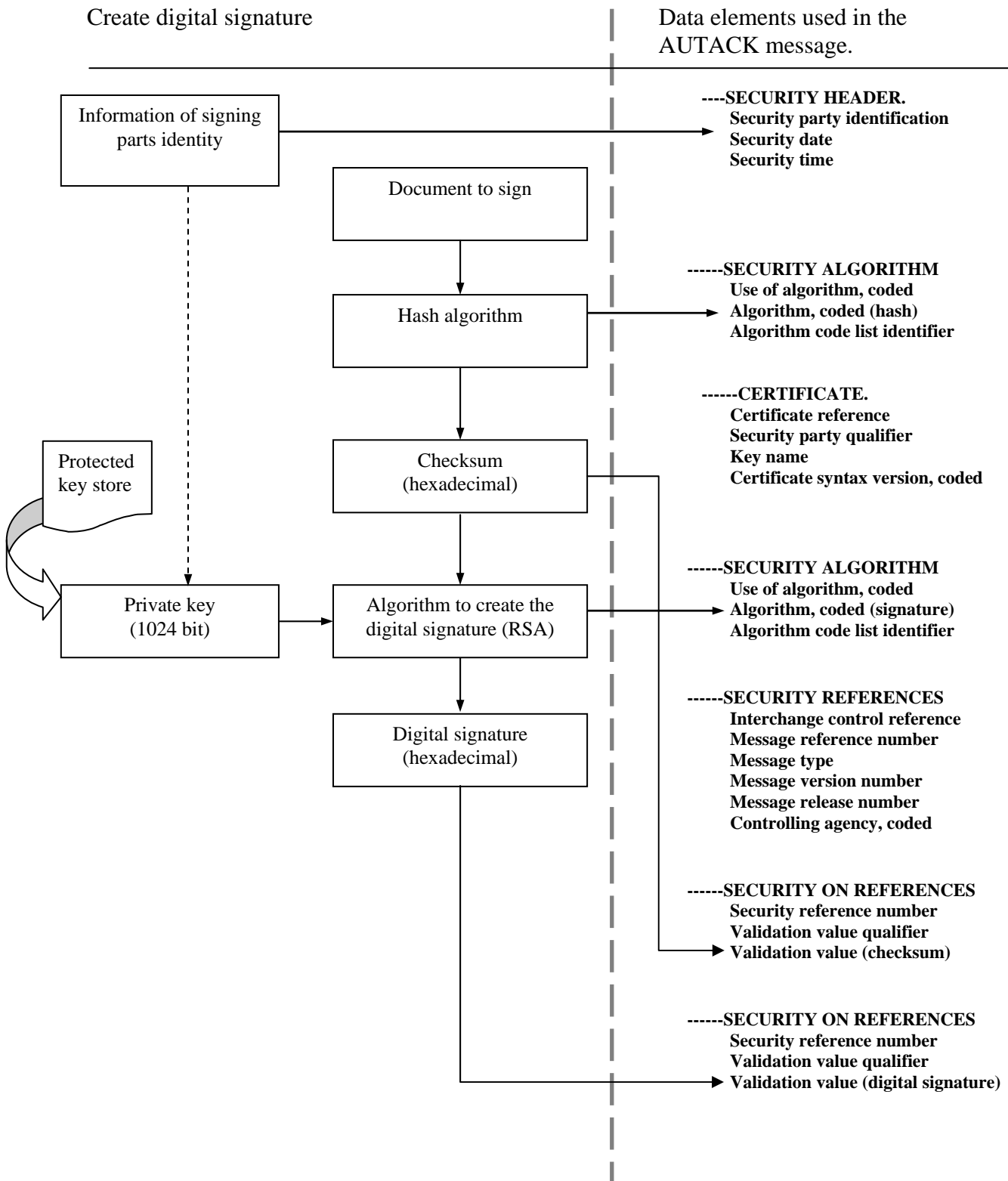
1.1 General for the framework

1.2 Digital Signature and AUTACK message

1.2.1 Some general points

- For each message a cryptographic checksum (hash value) and an encrypted cryptographic checksum (digital signature) is created. A signed checksum provide the possibility to verify that the message has not been changed. The digital signature ensures the identification of the sender and that the sender can not deny that he sent the message. The whole EDIFACT message is used in the calculations of checksum and digital signature, refer to figure in the next section.
- The checksums and digital signatures in an interchange are located in an AUTACK message.
- The AUTACK message clearly identifies the CUSDEC / CUSRES message a specific checksum and digital signature belongs to.
- All interchanges containing one or more CUSDEC or CUSRES *must* contain *one* AUTACK.
An interchange can not contain more than *one* AUTACK message (more than one AUTACK results in EDIFACT error).
- For transfers in direction “Trader --> Swedish Customs”, the content of a transfer will always be one of the following:
 - One or more CUSDEC + one AUTACK
 - A CONTRL type 2
- For transfers in direction “Swedish Customs --> Trader”, the content of a transfer will always be one of the following:
 - One or more CUSRES + one AUTACK
 - One CUSDEC + one AUTACK
 - One CONTRL type 1
 - One CONTRL type 2
- More detailed information regarding the AUTACK message is described in Appendix G (structure), H (mapping), C (code lists) and Q (data model).

1.2.2 Creating an AUTACK message



1.2.3 Verifying an AUTACK message

Verify the digital signature

Data elements used in the AUTACK message.

