

Subject Incharge: Prof. Sarala Mary Page No. 1

A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering
Data Science



Department of CSE-Data Science | APSIT

Semester: VI Subject: CSS Academic Year: 2023-2024 MESSAGLE AUTHENTICATION CODE: (MAC) * MAC supports integrity. * Everyone can read the message, but cannot modify the message. * Sender (A) and the Receiver (B) shares a symmetric secret key. Receiver (B) Sender (A) Step4 (MAC-) 110110 Waratspm Stepa: Itollo Merrage: War at Blep6. 5pm" Wardspm Step3. Apply hash = Sleps. Encrypt Step1 MAC Apply housh 110110 Aldontha 51603 Slep 7.1 Sender A sends message: War at spm". Step 1: Sender will apply hash algorithm on the original message "War at spm". Stepa: Consider that the output generaled from step 1 is Step 3: Sender will encrypt output generated in step a wing the hash value 110110 8/204: The encypted output generaled is the MAC (ii) 5/6/03. Sleps: The sender will send the plain text message along with the MAC across network to the Receiver.

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code (MAC) a	nd the original m	Tessage Authentication nessage. thm on the plain line
and receives	hash value 110110) .
Step 7: The recei	ver decipple INTAL	o.
1 1 4 4	s hashvalus 11011 hash valus genus I then the messag	. ,
mersage.	Il to has changes	the original
" N	o hash value wi	1/1
This is how M	essage Authenticatio	on Code retains
integrity of the m	ressage.	