Wireless LAN Extension of LAN. Restricted to buildings, campus, etc. & are operated by individuals & not by large-scale network providers. \* Advantages (no preplanned topology) · Design · Robustness ·Cost flexibility (no restrictions) (no add-one for (small, independent (less prone to adding new users designs) damage) Ease of use \* Disadvantages Quality of service - Offer lower quality than wired counterparts

Lower bandwidth (limitations in radio transmissions)

Higher error rates (interference)

Higher delay variation (extensive error detection in correction mechanisms)

Descriptions. Solutions Proprietary Solutions
Les Standardesed procedure in heteorgeneous environment to To comply with national regulations Safety & security Li Easy earedropping & interference with other equipments \* Design Goals · Protection of investment · Global operation · Safety & security · las power · ransparency for applications. · license-free operations · Robust transmission technology · Simplified spontaneous cooperation · Easy to use "No religion has mandated killing others as a requirement for its sustenance or promotion." —Dr.A.P.J.Abdul Kalam (hitra

-	
	Wireless Network
30	· A network setup by using radio signal frequency to
	· A network setup by using radio signal frequency to communicate among computers & other network devices.
	Components
	· Wireless Ronder/Access point
	Caverage provided by access points => caverage cells.
	Country Mades
	Operating Modes
-	Specified by IEEE 802.11 Standards
0	1101 1 01
0	Infrastructure mode
	Used to connect computers with wireless network adapters/clients to an
34.3	Used to connect computers with wireless network adapters/clients to an existing wired network with help from access points.
	The second secon
2	Ad hor mode
	Used to connect clients directly together without the need for a router
	Used to connect clients directly together without the need for a router Consist upto 9 wireless clients, sending data directly to each other.
*	802.11 Architecture
-	· Wifi- technology
3 22	· Senices : - a). BSS (Basic Senice Set)
depolds on	b). ESS (Extended Service Set)
0	Components of structure
(1)	Station (STA) (2) Access Point (AP)
3	BSS: - STA & AP with Same radio coverage form a BSS
9	Distribution system: - Interconnection network to from a logical network
	based on several BSS.
(5)	4500 - 11 11 0 BCC - +1 . 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
	APS
6	Partal :- Bridge to other soired betrooks
(hitters	Portal: - Bridge to other wired networks  "All the work you do, is done for your own salvation, is done for your own benefit." - Swami Vivekananda

Date\_\_\_/\_\_/\_\_

	Date/ Page No.:
Advantage	in a wireless link.
	10 500000
0	e: More complex sequencing on receiver end, because more buffer is required for resequencing packets & to wait for gaps to be filled.
garally.	Transaction oriented TCP (T/TCP)
-	Designed to address the need a day to be I to
	protocol in TCP/IP stack.  Based on TCP(reliable) & UDP(efficient) for transactions
*	In TCP,  3 phases are there Connection Confirm 3
	· Connection establishment  · Data transfer
	If sender wants to send only 1 message,
4	If sender wants to send only 1 message, then a total of 1+1+6=8 messages are required.
Astque	T/TCP combines packet for establishment + data + termination
	Establish Data Terminate
	Instead of 8, only 2 packets are used.
	Reduction in overhead than TCP
Scavantage	s: Require changes in all corresponding nodes to function (initial only TCP) Exhibit more security problems.
To division	the till I be the second to th

Date				Page No.:
Approac	h	Mechanism	Advantage	Disadvantage
Indirect-T	ГСР	Splits TCP connection into	· Isolation of wireless link	· Loss of TCP semantics
		two connections	· Simple	· High latercy at handner · Security issues
CT	7 D	C. data & aclarylahounts	To sound alt al	
Shooping To	CP	Snoops data & acknowledgements local retransmission	· Transparent end to-end connection	· Insufficient isolation of wiveless link
			·MAC integration possible	· Security issues
M TCP		Splits TCP connection, chakes	· Maintain end-to-end semantics	· Bad isolation of wireless
		Sender via window size	· Handle long-term & frequent disconnections	· Processing overhead due to bandwidth might
		the first of the standard like		· Security issues
Selective		Retransmit only lost data	· Very efficient	· Slightly complex
retrammissie	on			· Slightly complex receiver software
T/TCP		Carling		·1 buffer space.
1,101	- that	Combines connection setup, release & data transmission	· Efficient for certain applications	· Not transparent
		And And I	source publing states	· Security issues.
	II To	while a mason a set for	Jane stotch methodolog	Today -
		regal tripped & alletines.	show play plan towards	probably a series