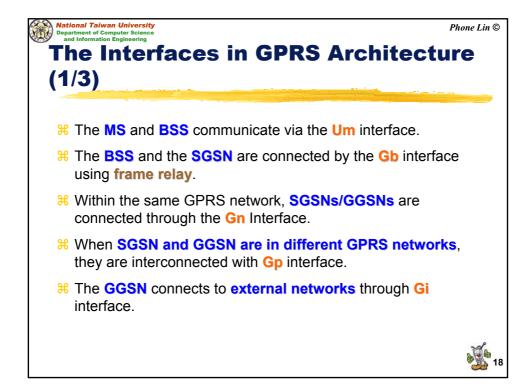
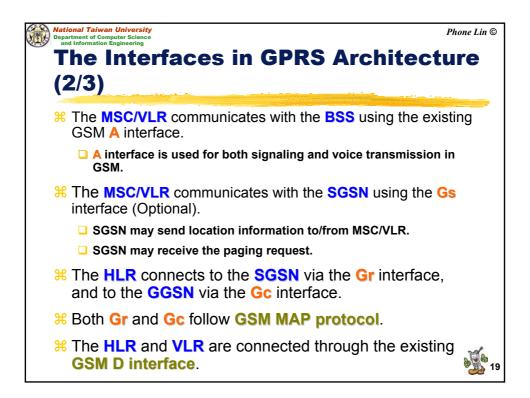
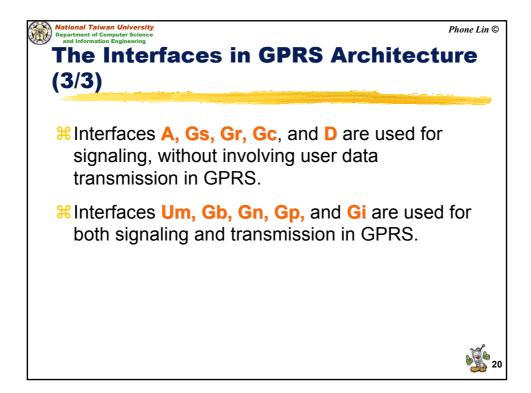
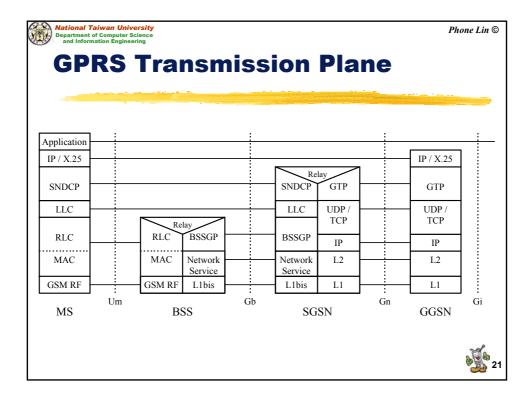


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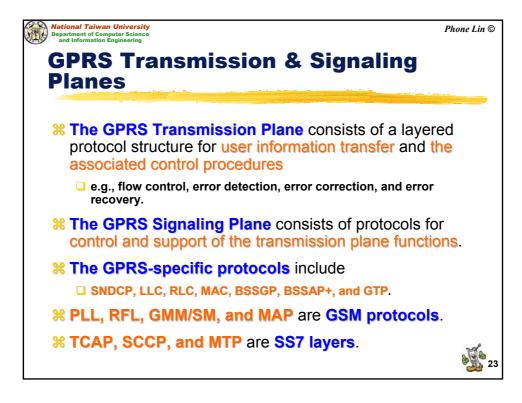


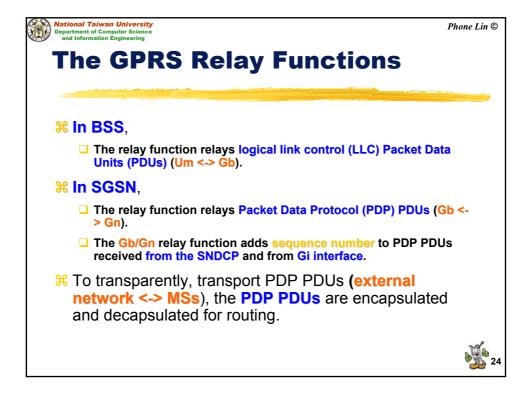


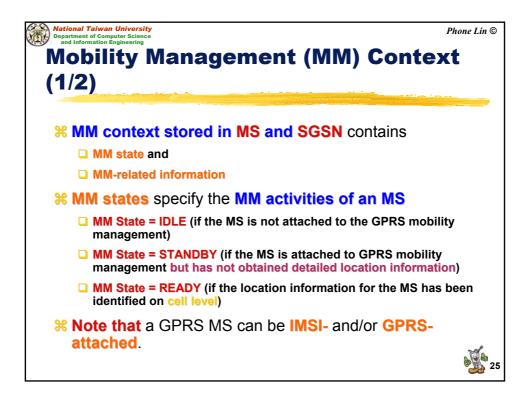


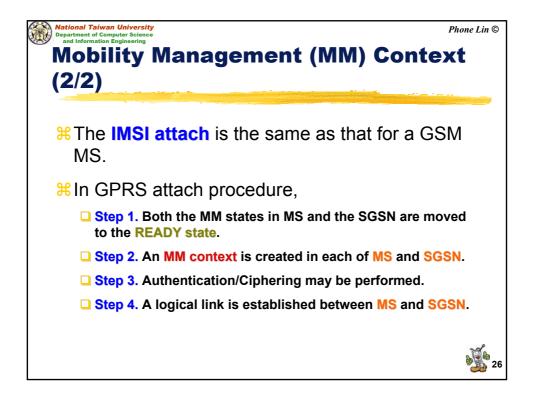


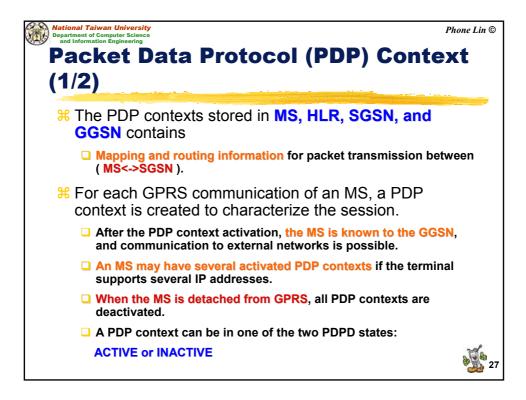
National Taiwan University Department of Computer Science and Information Engineering		Phone Lin ©
<b>GPRS Signaling Pl</b>	ane	
BSS AP+: Base Station System Application Part+ GMM: GPRS Mobility Management MAP: Mobile Application Part MTP: Message Transfer Part SCCP: signaling connection control part SM: Session Management TCAP: Transaction Capabilities Application Part	SCCP MTP3 MTP2 MTP1 Gs	SS AP+ SCCP MTP3 MTP2 MTP1 C/VLR
GMM/SM GMM/SM GTP   LLC GMM/SM GTP   RLC BSSGP BSSGP   MAC MAC NS (FR)   PLL PLL Physical   RFL RFL RFL	Interworking GTP TCAP UDP SCCP IP MTP3 L2 MTP2 Physical MTP1	MAP TCAP SCCP MTP3 MTP2 MTP1
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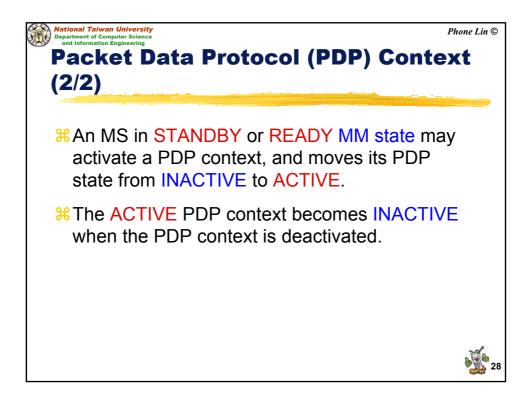


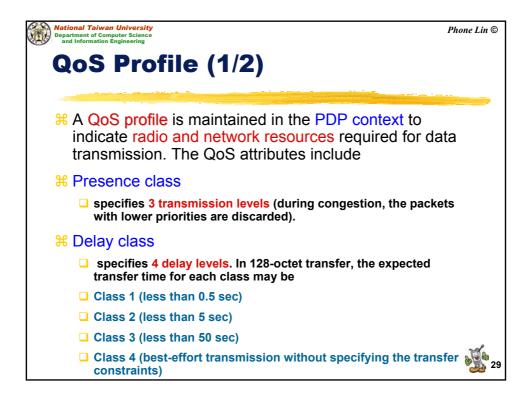




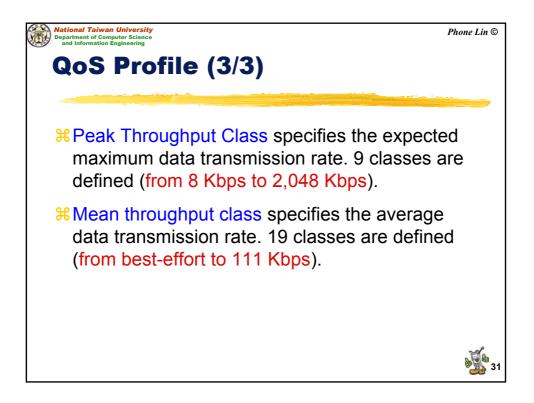


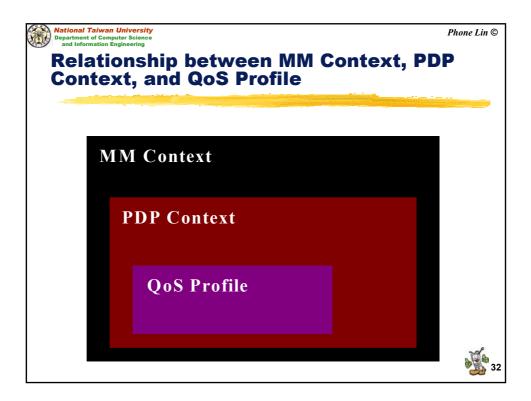


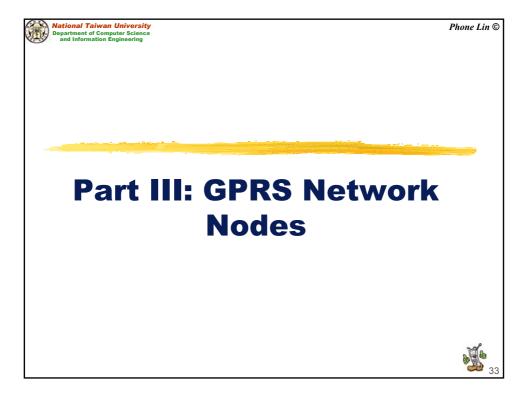


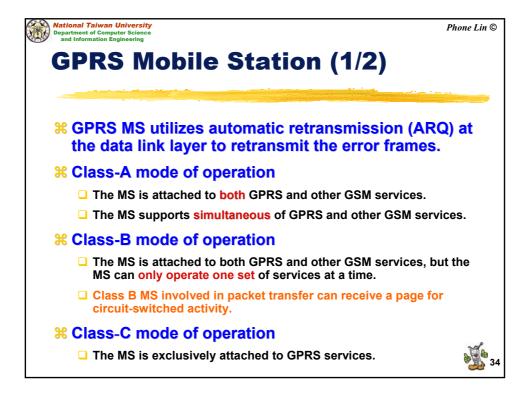


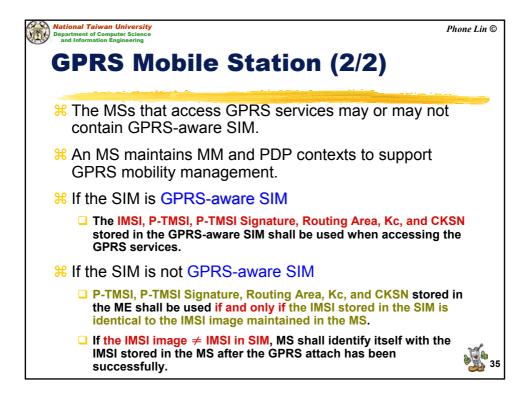
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Reliabili ty Class	GTP Mode	LLC Frame Mode	LLC Data Protection	RLC Block Mode	Traffic Type
1	Ack	Ack	Protected	Ack	Non real-time traffic, error- sensitive application (cannot cope with data loss)
2	Unack	Ack	Protected	Ack	Non real-time traffic, error- sensitive application (cope with infrequent data loss).
3	Unack	Unack	Protected	Ack	Non real-time traffic, error- sensitive application that can cope with data loss, GMM/SM and SMS.
4	Unack	Unack	Protected	Unack	Real-time traffic, error- sensitive application that can cope with data loss.
5	Unack	Unack	Unprotected	Unack	Real-time traffic, error non- sensitive application that can cope with data loss.











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nd Information Engineerin	9	
iPRS N	VIS	MM and PDP Contexts
Field	SIM	Description
IMSI	x	International Mobile Subscriber Identity.
MM State		Mobility management state, IDLE, STANDBY, or READY.
P-TMSI	x	Packet Temporary Mobile Subscriber Identity.
P-TMSI Signature	x	A signature used for identification checking purposes.
Routeing Area	x	Current routeing area.
Cell Identity		Current cell.
Kc	x	Currently used ciphering key.
CKSN	x	Ciphering key sequence number of Kc.
Ciphering algorithm		Selected ciphering algorithm.
Classmark		MS classmark.
DRX Parameters		Discontinuous reception parameters.
Radio Priority SMS		The RLC/MAC radio priority level for uplink SMS transmission.
Each MM context contains ze	ro or more of th	e following PDP contexts:
PDP Type		PDP type, e.g., X.25, PPP or IP.
PDP Address		PDP address, e.g., an X.121 address.
PDP State		Packet data protocol state, INACTIVE or ACTIVE.
Dynamic Address Allowed		Specifies whether the MS is allowed to use a dynamic address.
NSAPI		Network layer Service Access Point Identifier.
ті		Transaction Identifier.
QoS Profile Requested		The quality of service profile requested.
QoS Profile Negotiated		The quality of service profile negotiated.
Radio Priority		The RLC/MAC radio priority level for uplink user data transmission.

