Custom Protocol Explanation

General Structure

„START OF HEADING" Marks start of packet 1Byte

Specifies encryption state of packet 1 Byte

Packet ID (+ Sub-ID) Specifies content of packet 3 – 6 Bytes

Data (Packet content) undefined length

„END OF TRANSMISSION" Marks end of packet 1Byte

SOH	Specifier	ID (+ Sub-ID)	DATA	EOT

Example

Encrypted

Management Packet / Login Packet

Login data (encrypted)

\x01	E	MNGLGI	password%eq!5e88...8da2!;	\x04
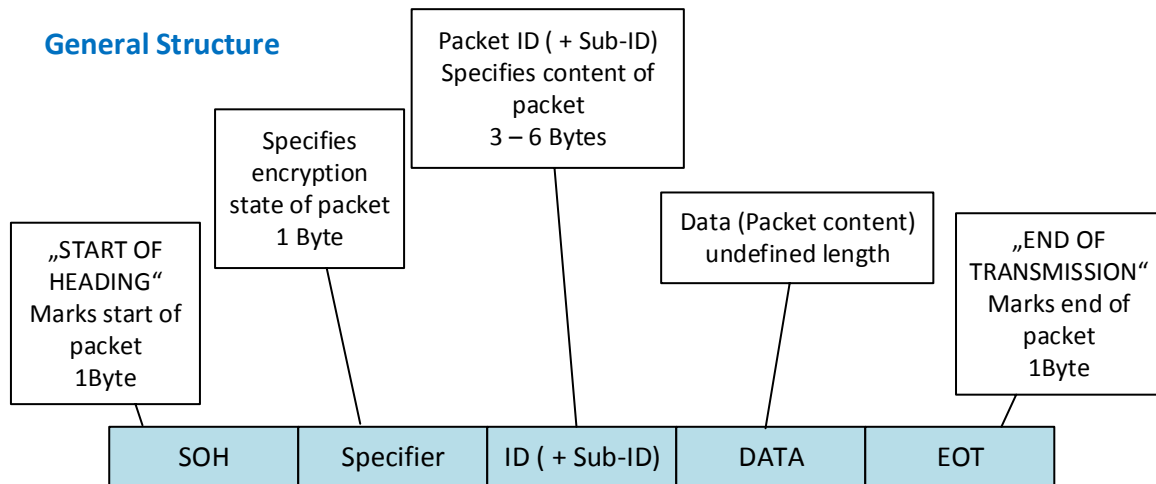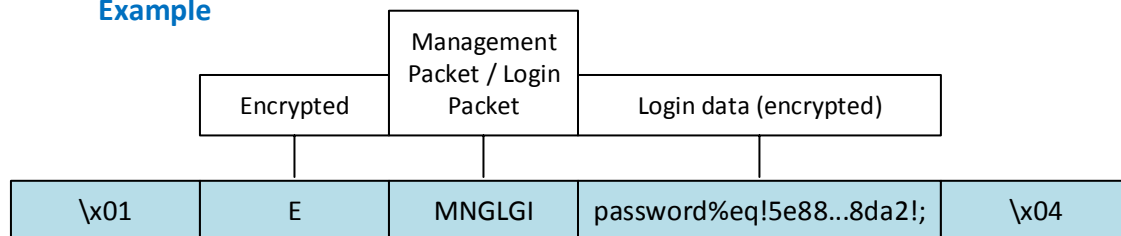
List of all Ids

Specifier	ID	Sub-ID	Abbreviation	Meaning
U			Unencrypted	
	FIN		**FIN**ish connection	Disconnect packet
	XPK		**X**ML **P**ublic **K**ey (RSA)	Packet contails XML formatted RSA Key
	PPK		**P**EM **P**ublic **K**ey (RSA)	Packet contails PEM formatted RSA Key
K			Key Exchange	
	EXC		AES KEY **EXC**hange	Packet contails AES Key
E			Encrypted	
	INF		**INF**ormation	Information
		ERR	**ERR**or	Packet contains error message
		ACK	**ACK**nowledge	Command executed successfully
		RET	**RET**urn	Returns information regarding an executed command
	REQ		Database **REQ**uest	Database related
		INS	**INS**ert	Packet contains request to insert data from database
		UPD	**UPD**ate	Packet contains request to update data from database
		SEL	**SEL**ect	Packet contains request to select data from database
		SYN	**SYN**chronization	Packet requests for data needed to sync databases
		DEL	**DEL**ete	Packet contains request to delete from the database
	MNG		**M**a**N**a**G**ement	Account and Server management
		ADM	**ADM**in	Request to log in as admin
		REG	**REG**ister	Register a new user
		LGI	**L**o**G** **I**n	Log in as an existing user
		SHT	**S**hu**T**down	(ADMIN ONLY) Shutdown server
		RBT	**R**e**B**oo**T**	(ADMIN ONLY) Reboot server
		LOG	**LOG**	(ADMIN ONLY) Dump log files
		LIC	**LI**st **C**lients	(ADMIN ONLY) List all connected clients
		KIK	**K**Ic**K**	(ADMIN ONLY) Kick a connected client
		IPC	**I**nitialize **P**assword **C**hange	Request a verification code to change the password
		CPC	**C**ommit **P**assword **C**hange	Provide a verification code and change password
	DTA		**D**a**TA**	(SERVER ONLY)
		RET	**RET**urn	(SERVER ONLY) Return value of requested data
	LOG		**LOG**	(SERVER ONLY)
		DMP	**D**u**MP**	(SERVER ONLY) Return value of dumped logs