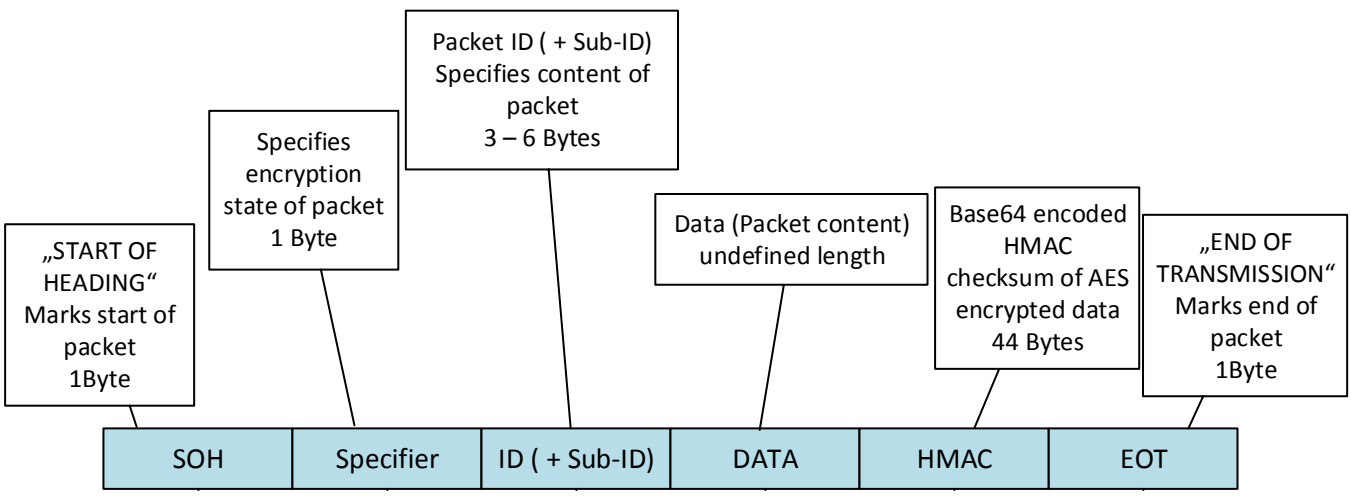
Custom Protocol Explanation

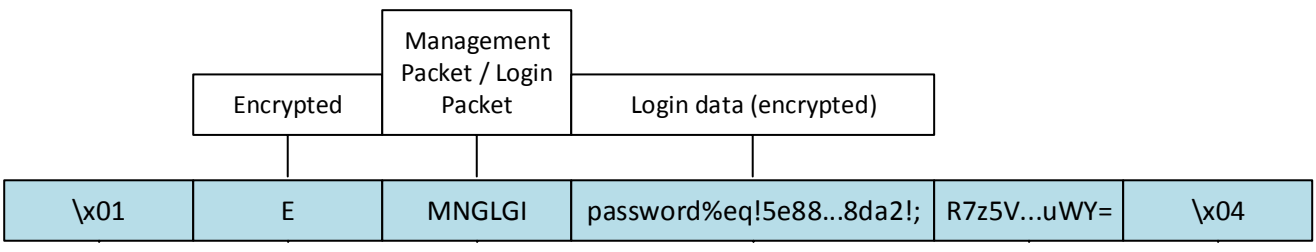
For version 0.10-8.18

Oct 15 2018

General Packet Structure



Example



List of all IDs

Specifier	ID	Sub-ID	Abbreviation	Meaning
U			**U**nencrypted	
	FIN		**FIN**ish connection	Disconnect packet
	INI		**INI**tialization	Initialize key exchange
		XML	**XML** format	Start key exchange using XML-Microsoft RSA format
		PEM	**PEM** format	Start key exchange using PEM key format
	KEY		RSA **KEY**	(SERVER ONLY) RSA key exchange related
		XML	**XML** formatted RSA key	(SERVER ONLY) Packet contains RSA Key in XML format
		PEM	**PEM** formatted RSA key	(SERVER ONLY) Packet contains RSA Key in PEM format
K			**K**ey Exchange	
	CKE		**C**lient RSA **K**ey **E**xchange	Packet contains client RSA key and encrypted nonce
	SKE		**S**ymmetric **K**ey **E**xchange	(SERVER ONLY) Packet contains AES key and decrypted nonce
E			Encrypted	
	KEX		**K**ey **EX**change	AES key exchange related
		ACK	**ACK**nowledge	Test if AES encryption is working
	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		**MaNaG**ement	Account and Server management
		ADM	**ADM**in	Request to log in as admin
		REG	**REG**ister	Register a new user
		LGI	**LoG I**n	Log in as an existing user
		SHT	**ShuT**down	(ADMIN ONLY) Shutdown server
		RBT	**ReBooT**	(ADMIN ONLY) Reboot server
		LOG	**LOG**	(ADMIN ONLY) Dump log files
		LIC	**LI**st **C**lients	(ADMIN ONLY) List all connected clients
		KIK	**KIcK**	(ADMIN ONLY) Kick a connected client
		BAN	**BAN** an ip address	(ADMIN ONLY) Ban a client by ip for a specified duration
		BNA	**BaN A**ccount	(ADMIN ONLY) Ban a user and prevent him from logging in
		NAD	**N**ew **A**dmin **D**evice	(ADMIN ONLY) Provide a validation code for a new device
		APR	**A**dmin **P**w change **R**equest	(ADMIN ONLY) Initialize changing the admin password
		APC	**A**dmin **P**w change **C**ommit	(ADMIN ONLY) Commit tha password change by providing a valid 2FA code
		PWH	**P**ass**W**ord **H**ash	Request the hash of a users master password to log in locally after a password change on a different device
		CEA	**C**hange **E**mail **A**ddress	(BEFORE ACTIVATION) To correct typos
		GAA	**G**et **A**ccount **A**ctivity	Request the account history and view all changes ever made
		RTC	**R**esend **T**woFA **C**ode	Generate a new 2FA code and send it via email
		ACR	**AC**count **R**equest	Account related. Request a verification code to change the password or to delete the account. (**PWC**, **DEL**)
		CPC	**C**ommit **P**assword **C**hange	Provide a verification code and change password
		CND	2FA **C**ode for **N**ew **D**evice	Provide a verification code and log in with a new device
		VER	**VER**ify account	Provide a verification code and activate account
		CHN	**CH**ange **N**ame	Change the nickname of the user that is used in all emails
		DEL	**DEL**ete account	Provide a verification code and delete account
	DTA		**DaTA**	(SERVER ONLY)
		RET	**RET**urn	(SERVER ONLY) Return value of requested data
	LOG		**LOG**	(SERVER ONLY)
		DMP	**DuMP**	(SERVER ONLY) Return value of dumped logs