Tau-Mobile Forum Design

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Block and transaction structure

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Change log:

Date	Modifier	Items
2019-09-17	TaiChen Liu	New
2019-09-18	TaiChen Liu	IPFS Hash Based
2019-09-19	TaiChen Liu	Modification in field and add notes in block structure.
2019-09-24	TaiChen Liu	Modification in filed, with telegram etc

1. Block Structure

Field	Size
version	8 Bits
timestamp	32 Bits
previousHash	160 Bits
signature	520 Bits
Total: 720 Bits= 90 Bytes	
Notes: There is no block header in POT, which is different from POW. POT and POS both need detailed transactions to calculate mining power, which is one key in validation of blocks.	

2. Transaction Structure

	Field	Size		Notes
General Info **Total: 600 Bits= 75 Bytes**	version	8	Bits	
	option	8	Bits	
	timeStamp	32	Bits	
	expireTime	16	Bits	
	fee	16	Bits	Genesis community tx and Message tx is doubled, **Either power.**
	signature	520	Bits	
Genesis community transaction Total: 303 Bytes	cName	20	Bytes, same as Reddit	
	cCoinOfferAccount	32	Bytes	
	cAbstract	144	Bytes	
	cDescription	32	Bytes, IPFS file hash	
Account name transaction Total: 127 Bytes	aCommunity	32	Bytes, genesis community hash	**TAUNet:** 0x0
	aName	20	Bytes, same as Reddit	
Message transaction Total: 315 Bytes	mCommunity	32	Bytes, genesis community hash	**TAUNet:** 0x0
	mRefer	32	Bytes, correspondent message transaction	**New:** 0x0 **Quote+ Response:** Message tx hash
	mAbstract	144	Bytes	
	mContent	32	Bytes, IPFS file hash	
General token transaction Total: 132 Bytes	tCommunity	32	Bytes, genesis community hash	**TAUNet:** 0x0
	tAddress	20	Bytes, receiver	
	tAmount	5	Bytes, token amount	

Maximum: 90 Bytes+ 5* 315 Bytes= 1665Bytes= 1.63 KB