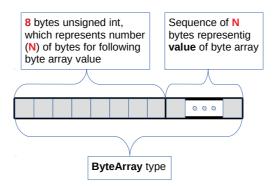
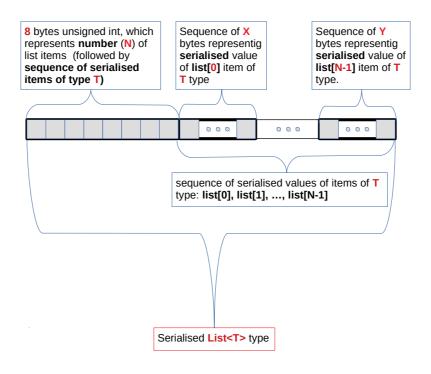
# Binary serialisation format of **ByteArray** type.

Serialised as sequence: [array length, value-of-byte-array] = [8 bytes unigned int, sequence-of-bytes]



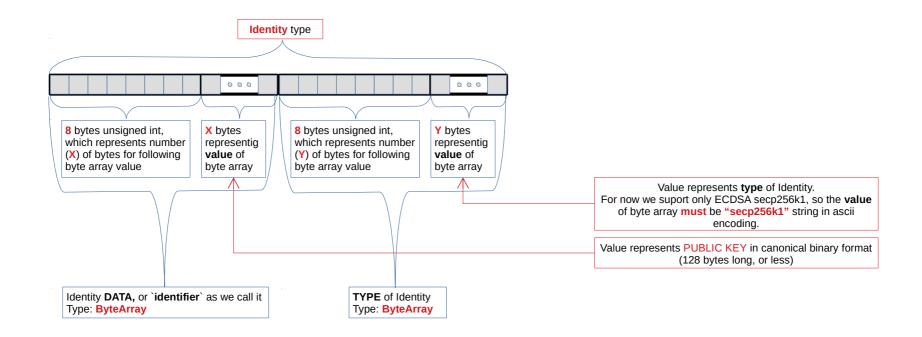
# Binary serialisation format of List<T> type (list of items of the same type T).

Serialised as sequence: [number-of-list-items (as 8 bytes unigned int), sequence-of-serialised-items (all items of T type)]



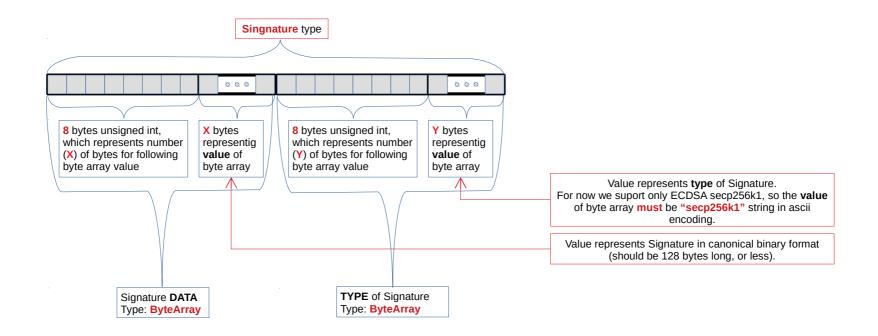
## Binary serialisation format of **Identity** type.

Serialised as sequence: [identifier data (as ByteArray), identity type data (as ByteArray)]



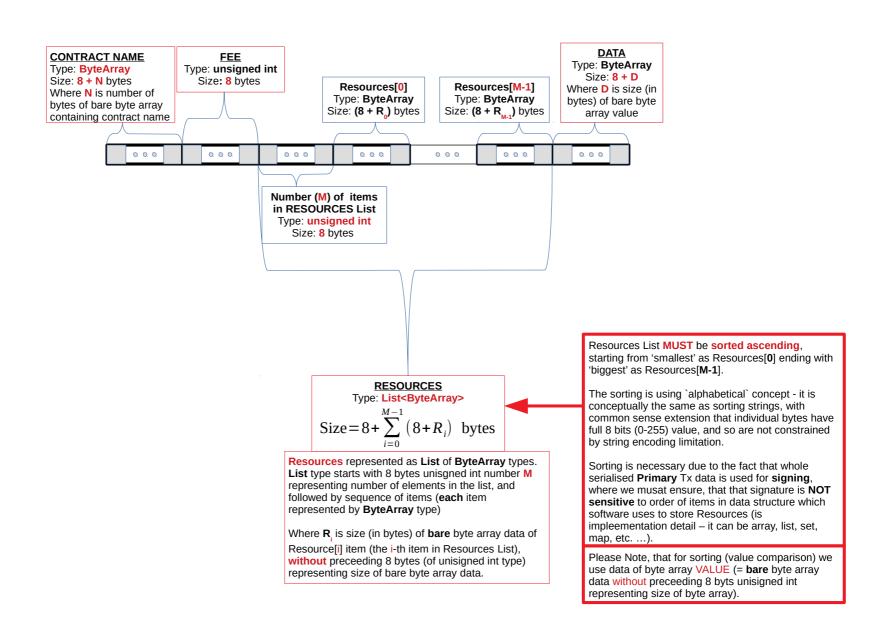
# Binary serialisation format of **Signature** type (essentially the same structure as **Identity** type).

Serialised as sequence: [signature data, signature type data]



### Binary serialisation format of **Primary** Tx data.

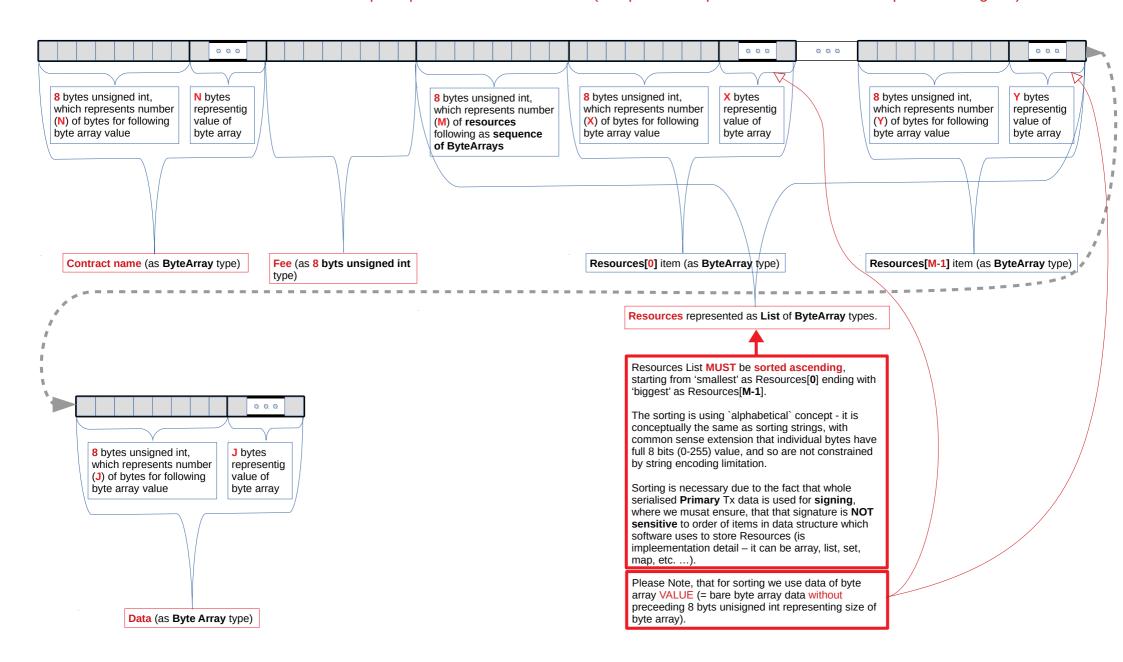
Serialised as sequence: [Contract name, Fee, Resources, Data]



### Binary serialisation format of **Primary** Tx data.

Serialised as sequence: [Contract name, Fee, Resources, Data]

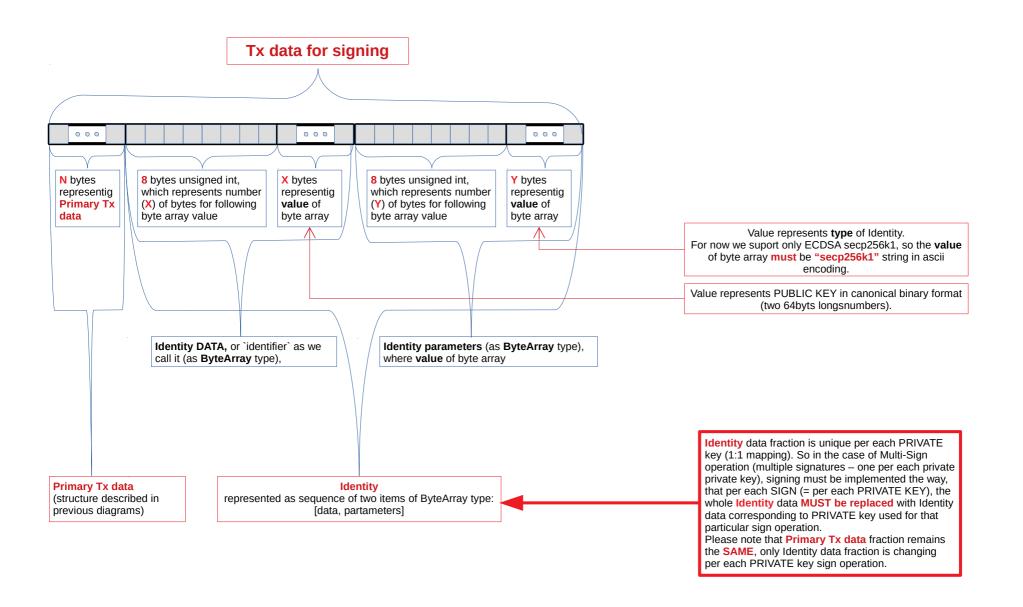
This is **EXPANDED DETAILED** description provided for convenience (compact description can be found on the previous diagram)



#### Tx data for **SIGNING**

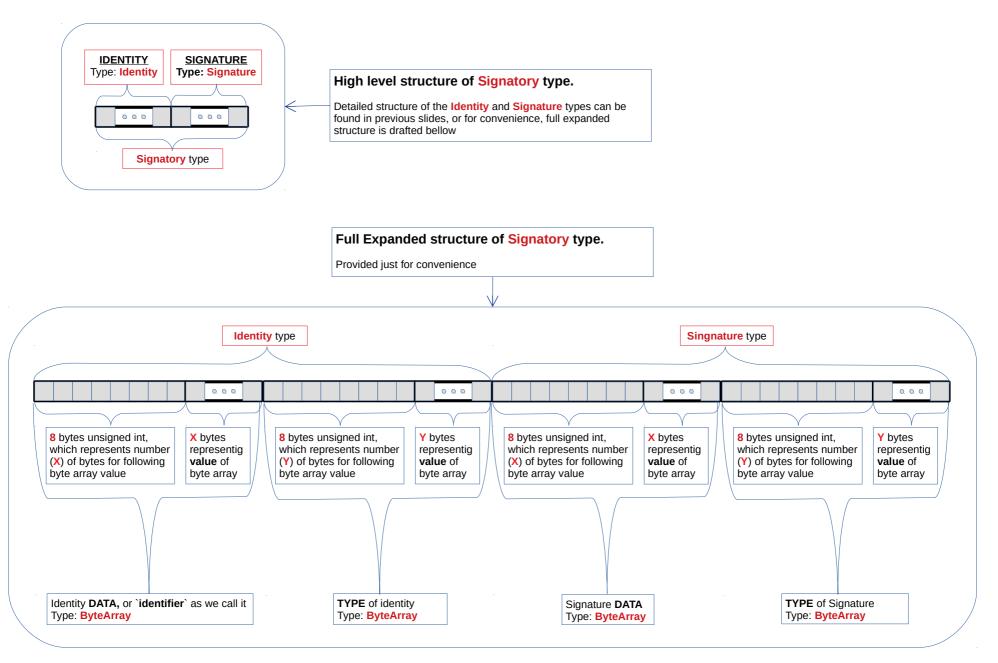
Serialised as sequence: [Primary Tx data, Identity] = [Contract name, Fee, Resources, Data, Identity]

Note: This data stream is used **EXCLUSIVELLY** for signing procedure, it is **NOT** used as part Tx data wire format.



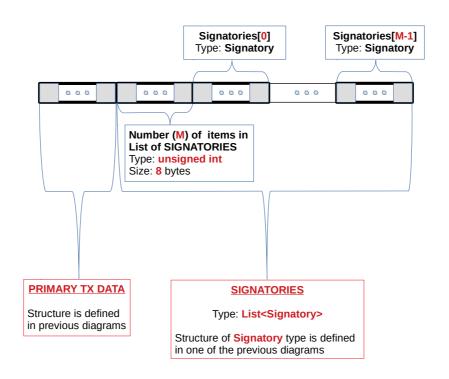
## Binary serialisation format of **Signatory** type.

Serialised as sequence: [Identity, Signature]



## Binary serialisation format of **Tx Wire Data** structure.

Serialised as sequence: [Primary Tx data, List<Signatory>] = [Contract data, Fee, Resources, Data, List<Signatory>]



### Final encapsulation json format for Transaction Wire Data.

This final Tx Wire format (json) is what we actually call the **Transaction Wire Format**, since it is actually used to carry signed transaction across a `wire` (e.g. from client in to our system (node) via its public network interface).

#### 

```
Example of real signed transaction in `Wire Format` (including NON-mandatory `metadata` section):
   "ver": "1.0",
  lkbwntoxrjamanswxGolfvrkjrvuzcuvvGruawsxhirksuv2swcmffnxBimlpozvhouGfDovllrwx6vTnwsVfWwnlkbfl3zWpkS1RFOXlkWel3yUzNme5vRlloelZ6UTBkSVyzundimGxKTkM5T1dXUXpTbUpGWlc1vk1GZ3daRTftylZGdo5XVkxSME5SU
VVGQ1FVRkJRVUZDZWxwWFRuZE5hbFV5WVhwRlBTSXNJ00owYnlJNklDSlJRVUZCUVVG01FVRkJSRFEwZG5oamEzSXhLMU5YTnpCWldGaFBWMHhvUWxOVGNFUlROaTlFYVhOdWJFdE5TRVZLTjNVemRU0jVMemRCYlhGU2RubzF0bE5zZGxBNFFVRnhkRmxw
TOCWMGFUULVTa1J3WVhaS1dGWmp;WHB4WkdORFVVRkJRVUZCUVVGOlFucGFWMDUzVFdwVk1tR;ZSVDBpTENBaVlXMXZkVzUwSWpvZ01U0XdmUT09A0AAAAAAAAAAAAAAAAAAH1H\]Xsz6E2Kh+bKw6H9fEixLMcBWu9XTPsks6u6vSFLjkBfvmwIYda2m
"metadata": {
      "contract name": "fetch.token.transfer",
      "fee": 1,
      "resources": [ "OAAAAAAAAAD9R1pSSrM+hNtofmysOh/XxIsSzHAVrvVOz7JLOrurOhS45AX75sCGHWtpoII4/Nyd3JbEenUOXOdMfmOp5eKGCOAAAAAAAABzZWNwMjU2azE=",
OAAAAAAAAAD44vxckr1+SW70YXXOWLhBSSpD56/DisnlKMHEJ7u3u0y/7AmgRvz56SlvP8AAgtYi8m4i4TJDpavJXVcgzgdcC0AAAAAAAABzZWNwMjU2azE="],
"Zx1KbWNt0XRJam9nSWxGQ1FVRkJRVUZCUVVGRU9WSXhjRk5UY2swcmFFNXBiMlp0ZVh0UGFD0V1lRWx6VTNwSVFWWn1kbF13ZWpkS1RF0X1kWE13YUZNME5VR1l0e1Z6UTBkSVYzUndiMGxKTkM5T1dXUXpTbUpGW1c1Vk1GZ3daRTFtYlZGd05XVkxSME
5SUVVGQ1FVRkJRVUZDZWxwWFRuZE5hbFV5WVhwRlBTSXNJQ0owYnlJNklDSlJRVUZCUVVGQ1FVRkJSRFEwZG5oamEzSXhLMU5YTnpCWldGaFBWMHhvUWxOVGNFUlROaTlFYVh0dWJFdE5TRVZLTjNVemRUQjVMemRCYlhGU2RubzF0bE5zZGxBNFFVRnhkR
mxwT0cwMGFUUlVTa1J3WVhaS1dGWmpjWHB4WkdORFVVRkJRVUZCUVVGOlFucGFWMDUzVFdwVk1tRjZSVDBpTENBaVlXMXZkVzUwSWpvZ01U0XdmUT09",
         "QAAAAAAAAAAD9R1pSSrM+hNiofmysOh/XxIsSzHAVrvV0z7JLOrur0hS45AX75sCGHWtpoII4/Nyd3JbEenU0X0dMfmQp5eKGCQAAAAAAAAABzZWNwMjU2azE=":"QAAAAAAAAADfvP1a8HXQquGsHi2tDDDMGe2oSEkiwK84/
WwHf2SPjRERm6ZI6SKtl0VUcb/y8h8XselntHxYdN55Bk3x20BICOAAAAAAABzZWNwMjU2azE="
```