

# XYO Network Encodings: Core Objects

0x02

August, 2018

## 1 Bound Witness (0x01)

A bound witness in the XYO Network.

Name	Type	Description
Total Size	Unsigned Int	Size of Entire Bound Witness
Public Keys	Array(0x02)< <i>KeySet</i> >	A keyset for every party in the bound witness.
Payloads	Array(0x03)< <i>Payload</i> >	A payload for every party in the bound witness.
Signatures	Array(0x02)< <i>SignatureSet</i> >	A SignatureSet for every party in the bound witness.

## 2 KeySet (0x02)

A set of public keys for a single party.

Name	Type	Description
Keys	Array(0x05)	A multi-typed array of public keys.

## 3 SignatureSet (0x03)

A set of signatures for a single party.

Name	Type	Description
Signatures	Array(0x05)	A untyped array of signatures.

## 4 Payload (0x04)

A payload contains a set of unsigned and signed Heuristics.

Name	Type	Description
Total Size	Unsigned Int	Total size of Payload
Signed Heuristics	Array(0x06)	An multi-typed array of heuristics
Unsigned Heuristics	Array(0x06)	An multi-typed array of heuristics

### Index (0x05)

The index in an origin block.

Name	Type	Description
Index	Unsigned integer	the index in the origin chain

### Previous Hash (0x06)

The previous hash in an origin chain.

Name	Type	Description
Hash Type Major	Byte	Hash Type
Hash Type Minor	Byte	Hash Type
Hash	Inferred above	the previous hash

### Next Public Key (0x07)

The next public key to use in an origin chain.

Name	Type	Description
Public Key Type Major	Byte	Public Key Type
Public Key Type Minor	Byte	Public Key Type
Next Public Key	Inferred above	The next public key in an origin chain.