

# XYO Network Encodings: Core Objects

0x02

August, 2018

## 1 Bound Witness (0x01)

A bound witness in the XYO Network.

Name	Type	Description
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 multi-typed array of signatures.

## 4 Payload (0x04)

A payload contains a set of unsigned and signed Heuristics.

Name	Type	Description
Signed Heuristics	Array(0x06)	An multi-typed array of heuristics
Unsigned Heuristics	Array(0x06)	An multi-typed array of heuristics

## 5 Index (0x05)

The index in an origin block.

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

## 6 Previous Hash (0x06)

The previous hash in an origin chain.

Name	Type	Description
Hash	Any	The previous hash

## 7 Next Public Key (0x07)

The next public key to use in an origin chain.

Name	Type	Description
Next Public Key	Any	The next public key in an origin chain.

## 8 Origin Block(s) Hash Set (0x08)

A set of hashes that point to origin blocks.

Name	Type	Description
Hashes	Array(0x05)	A multi-element array of hashes.

## 9 Origin Block Set (0x09)

A set of origin blocks.

Name	Type	Description
Blocks	Array(0x03)	A single-element array of bound witnesses.