

# XYO Network Encodings

August, 2018

## 1 XYO Core

### 1.1 Bound Witness (0x00)

#### 1.1.1 Description

A Bound Witness in the XYO Network.

#### 1.1.2 Childs

##### **TypedGrouping**< *KeySet* > (0x04)

A keyset for every party in the bound witness.

##### **TypedGrouping**< *Payload* > (0x04)

A payload for every party in the bound witness.

##### **TypedGrouping**< *SignatureSet* > (0x04)

A SignatureSet for every party in the bound witness.

#### 1.1.3 Catalogue Header

Name	Description
Size Identifier	Any
Is Iterable	Set
Is a Typed Iterable	Set
Reserved	N/A

### 1.2 KeySet (0x01)

#### 1.2.1 Description

A set of public keys for a single party.

### 1.2.2 Childs

Public keys for a party.

### 1.2.3 Catalogue Header

Name	Description
Size Identifier	Any
Is Iterable	Set
Is a Typed Iterable	Not Set
Reserved	N/A

## 1.3 SignatureSet (0x02)

### 1.3.1 Description

A set of public keys for a single party.

### 1.3.2 Childs

Public keys for a party.

### 1.3.3 Catalogue Header

Name	Description
Size Identifier	Any
Is Iterable	Set
Is a Typed Iterable	Not Set
Reserved	N/A

## 1.4 Payload (0x03)

### 1.4.1 Description

A payload contains a set of unsigned and signed Heuristics.

### 1.4.2 Childs

#### UntypedGrouping (0x01)

Signed Heuristics.

#### UntypedGrouping (0x01)

Unsigned Heuristics.

### 1.4.3 Catalogue Header

Name	Description
Size Identifier	Any
Is Iterable	Set
Is a Typed Iterable	Not Set
Reserved	N/A

## 2 Generic Types

### 2.1 TypedGrouping (0x04)

#### 2.1.1 Description

Any generic group.

#### 2.1.2 Childs

Any number of objects of the same type.

#### 2.1.3 Catalogue Header

Name	Description
Size Identifier	Any
Is Iterable	Set
Is a Typed Iterable	Set
Reserved	N/A

### 2.2 UntypedGrouping (0x05)

#### 2.2.1 Description

Any generic group.

#### 2.2.2 Childs

Any number of objects of any type.

### 2.2.3 Catalogue Header

Name	Description
Size Identifier	Any
Is Iterable	Set
Is a Typed Iterable	Not Set
Reserved	N/A