ZigBee Protocol Frame Overview KVP Frame MSG Frame Bits: 4 4 16 0/8 variable Bits: 4 variable Command Attribute Attribute Attribute Transaction Transaction Error code type Data type Identifier Data length Data Identifier Bits: 8 variable Transaction Transaction sequence Data number Transaction Transaction Header Payload Bits: 4 variable variable variable variable AF Frame Transaction Frame Transaction 1 Transaction 2 Transaction n (Spec 1.3.4) Count type Octets: 1 0/1 0/1 0/1 variable Profile Destination Cluster Source Identifier Endpoint Identifier Endpoint Data Payload Frame **APS Frame** ASDÚ Control Addresing Fields (Spec 1.2.5) **APS** Payload APS Header Octets: 2 variable Destination Source Sequence Radius **NWK Frame** Address Address Number Data Payload Frame NSDU (Spec 2.4.1) Control Routing Fields **NWK Header NWK Payload** Octets: 2 0/2 0/2/8 0/2 0/2/8 variable 2 Destination Source Destination Source PAN PAN address adress **MAC Frame** Data Payload Frame Sequence identifier identifier **FCS** MSDU Number Control (IEEE 7.2.1) Adressing Fields MAC Payload max 102 MAC Header MFR

(IEEE 6.3.1)

PHY Frame

SFD

Frame length

(7 bits)

PHY Header PPDU

Reserved

(1 bit)

variable

Data Payload

PSDU

PHY payload max 127 Byte

Octets: 4

Preamble

Synchronization Header