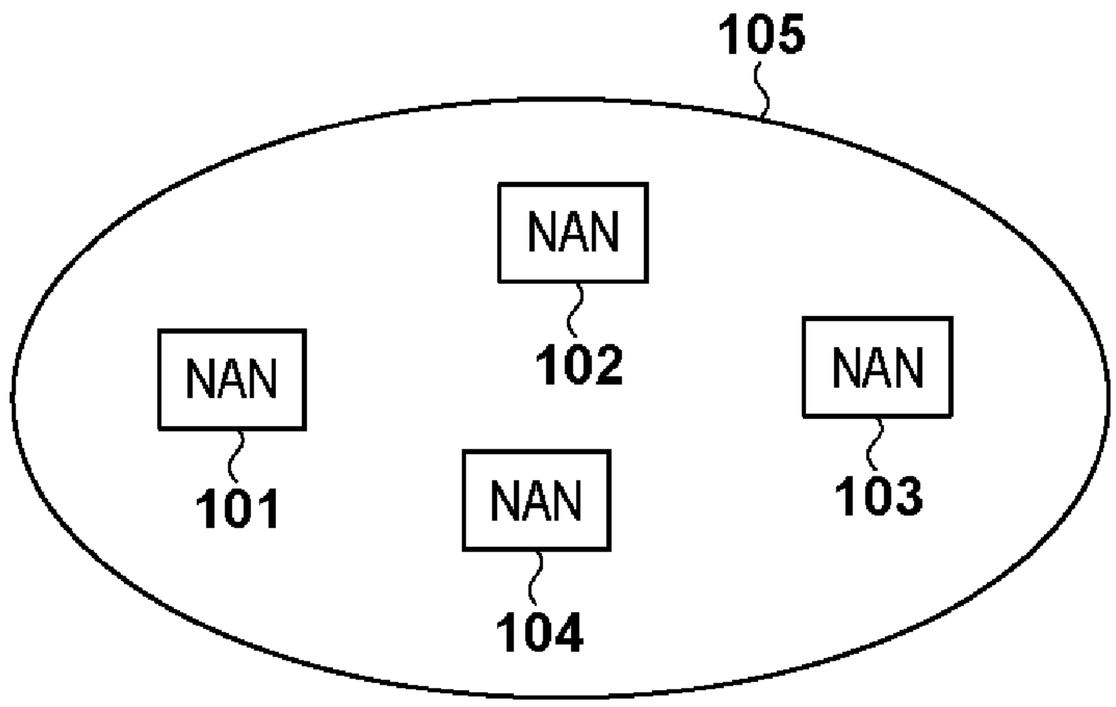
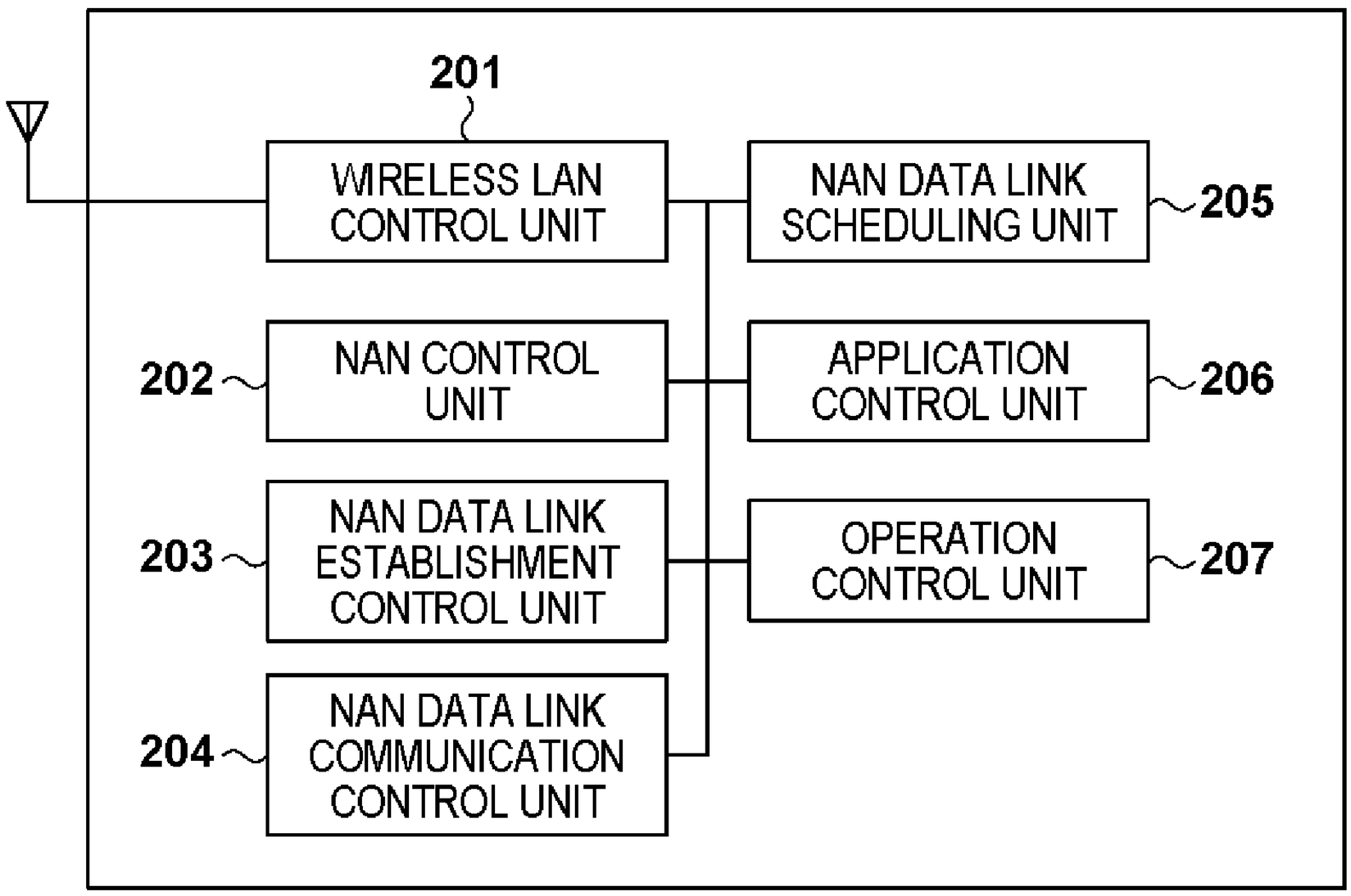
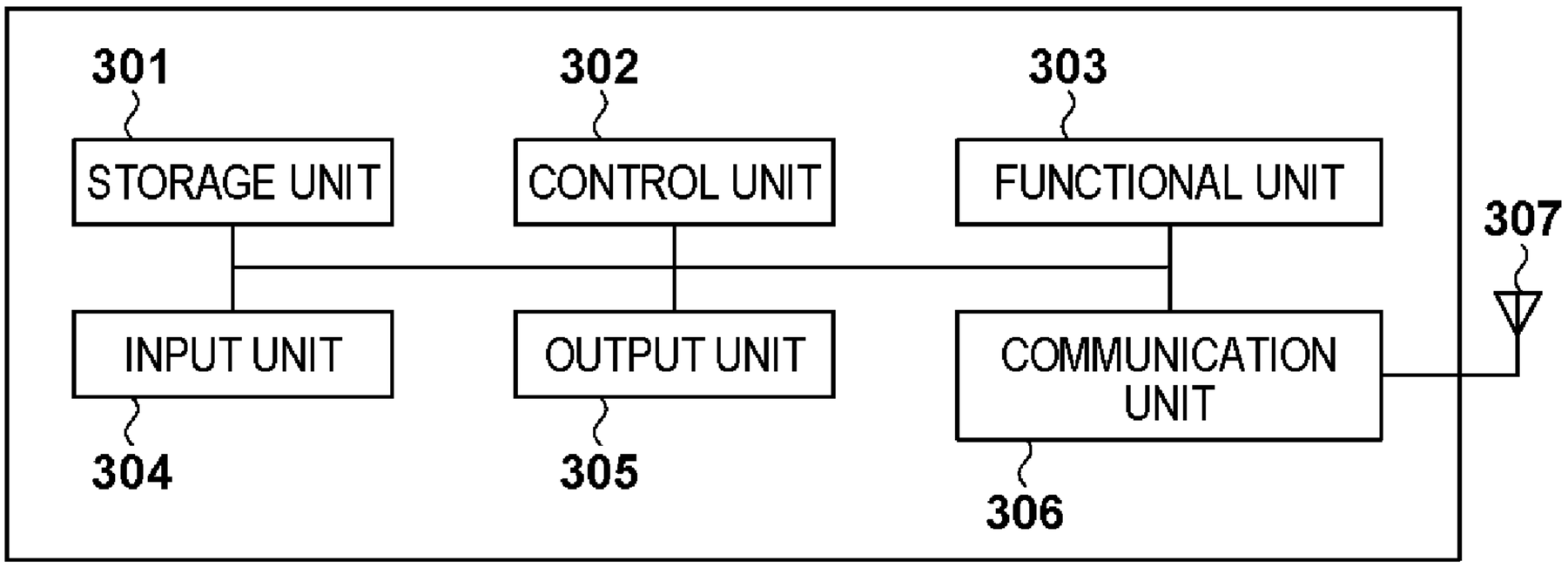
[Fig. 1]



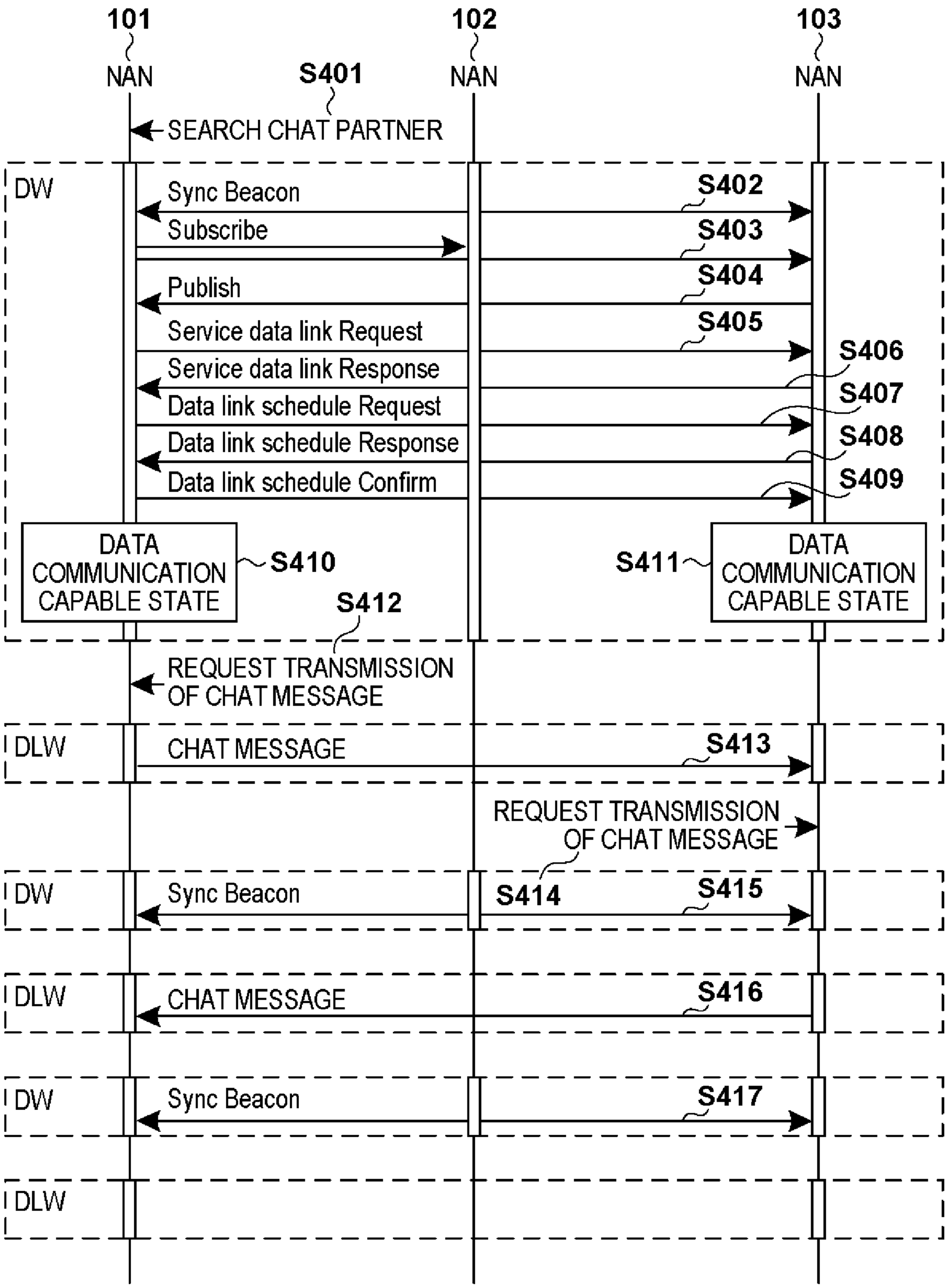
[Fig. 2]



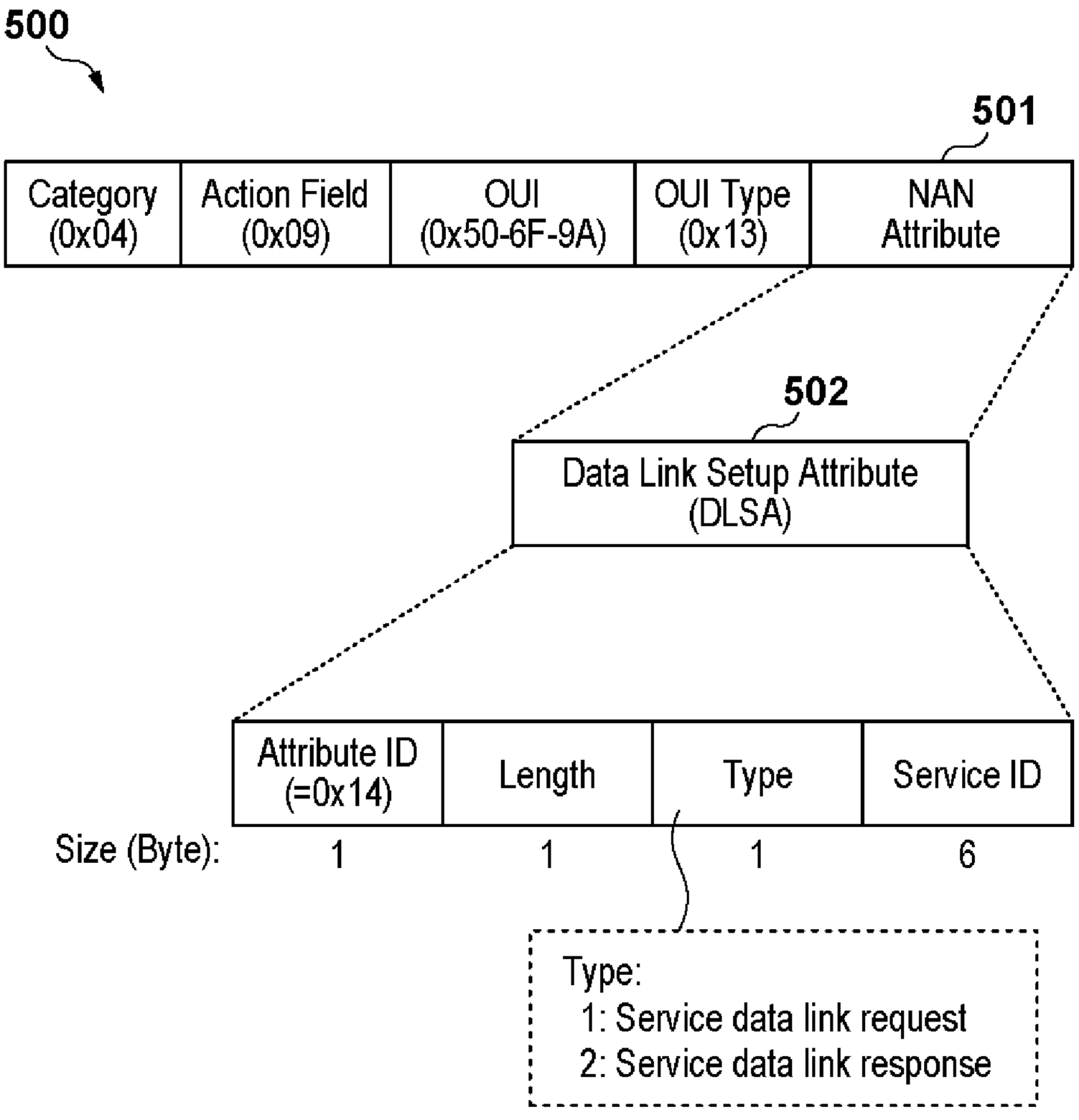
[Fig. 3]



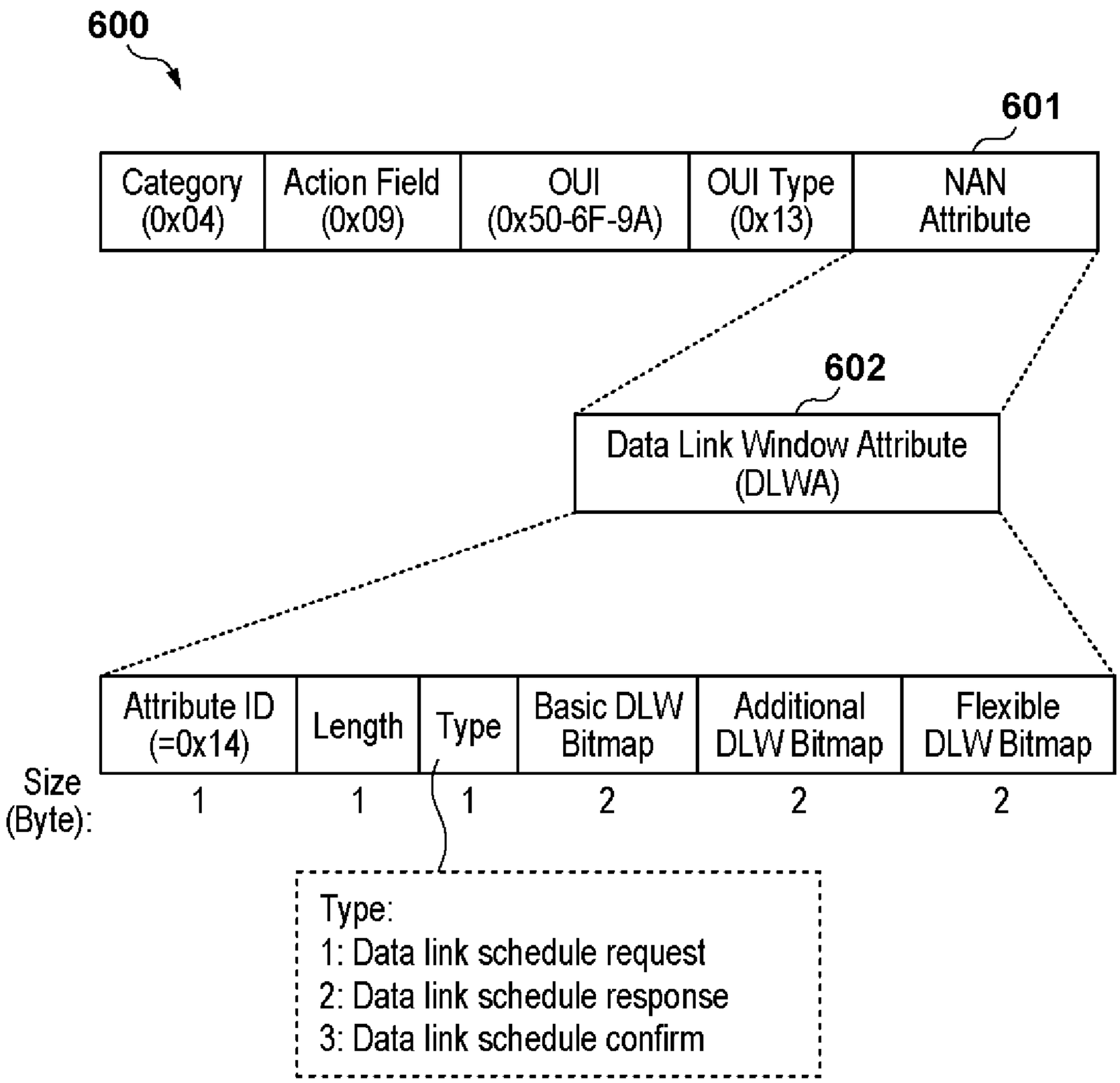
[Fig. 4]


101
NAN
S401
SEARCH CHAT PARTNER
102
NAN
103
NAN
DW
Sync Beacon
S402
Subscribe
S403
S404
Publish
Service data link Request
S405
S406
Service data link Response
Data link schedule Request
S407
Data link schedule Response
S408
Data link schedule Confirm
S409
DATA COMMUNICATION CAPABLE STATE
S410
S411
DATA COMMUNICATION CAPABLE STATE
S412
REQUEST TRANSMISSION OF CHAT MESSAGE
DLW
CHAT MESSAGE
S413
REQUEST TRANSMISSION OF CHAT MESSAGE
DW
Sync Beacon
S414
S415
DLW
CHAT MESSAGE
S416
DW
Sync Beacon
S417
DLW

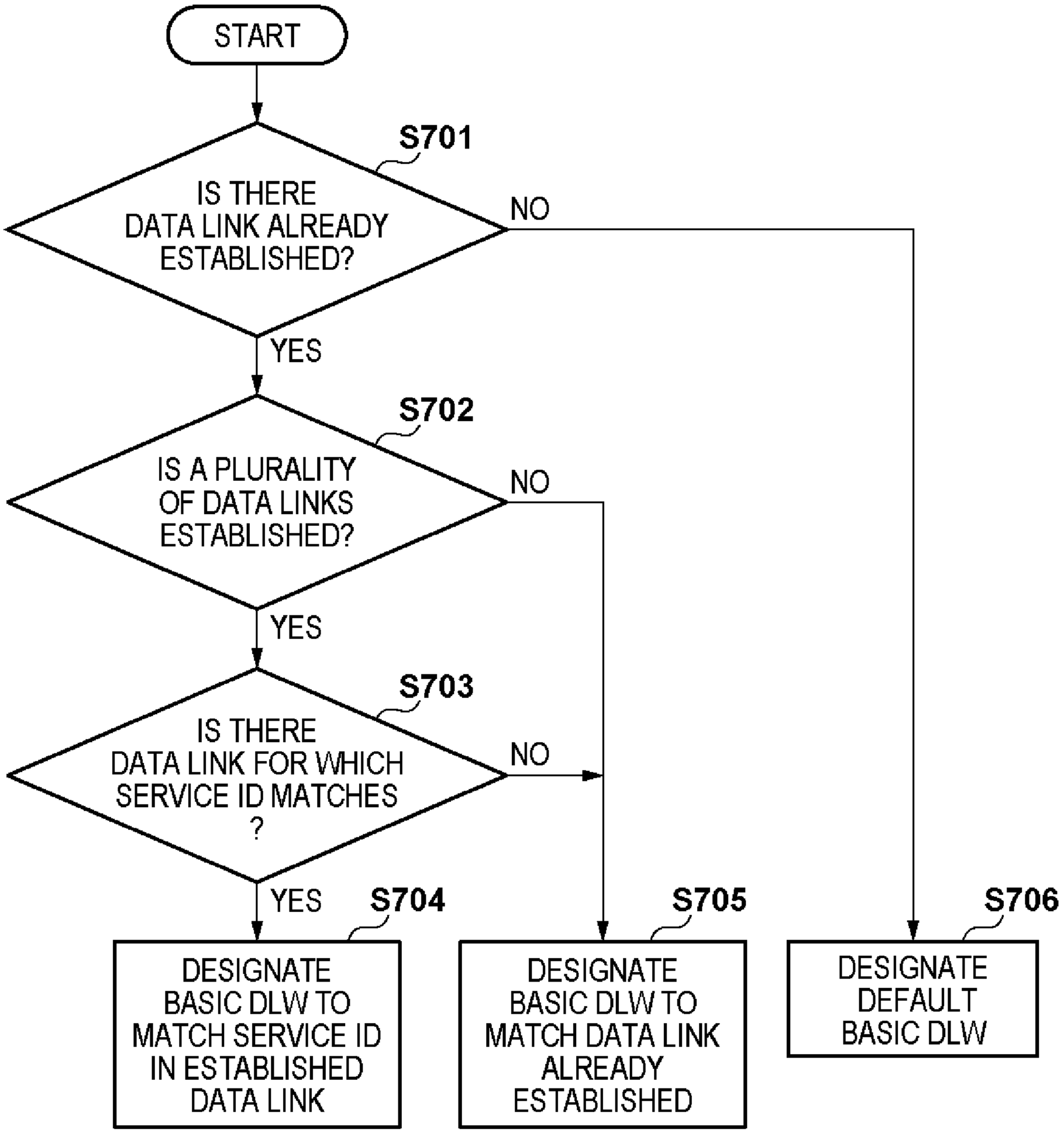
[Fig. 5]


500
501
Category (0x04)
Action Field (0x09)
OUI (0x50-6F-9A)
OUI Type (0x13)
NAN Attribute
502
Data Link Setup Attribute (DLSA)
Attribute ID (=0x14)
Length
Type
Service ID
Size (Byte):
1
1
1
6
Type:
1: Service data link request
2: Service data link response

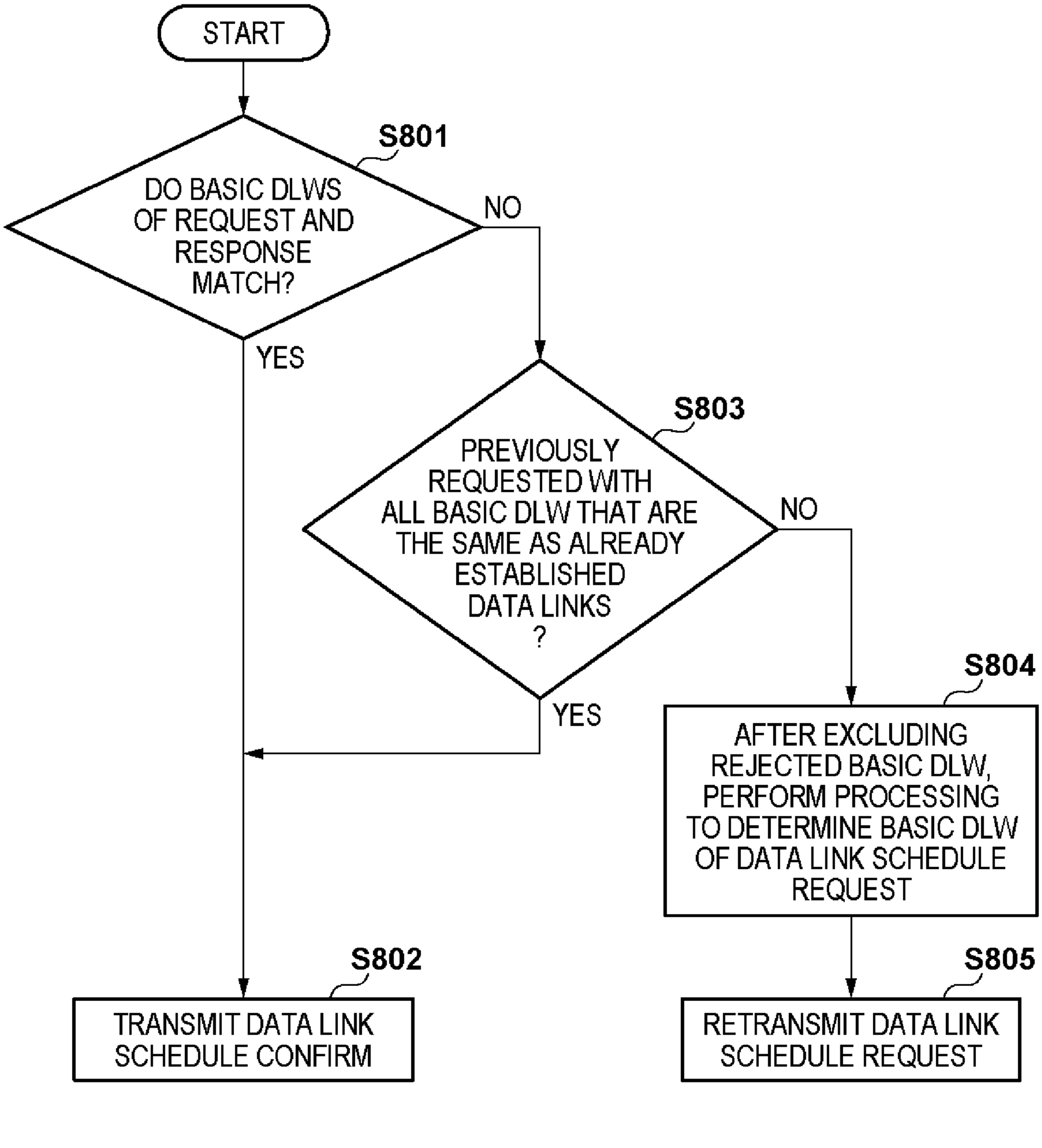
[Fig. 6]


600
601
Category (0x04)
Action Field (0x09)
OUI (0x50-6F-9A)
OUI Type (0x13)
NAN Attribute
602
Data Link Window Attribute (DLWA)
Attribute ID (=0x14)
Length
Type
Basic DLW Bitmap
Additional DLW Bitmap
Flexible DLW Bitmap
Size (Byte):
1
1
1
2
2
2
Type:
1: Data link schedule request
2: Data link schedule response
3: Data link schedule confirm

[Fig. 7]


START
S701
IS THERE DATA LINK ALREADY ESTABLISHED?
NO
YES
S702
IS A PLURALITY OF DATA LINKS ESTABLISHED?
NO
YES
S703
IS THERE DATA LINK FOR WHICH SERVICE ID MATCHES ?
NO
YES
S704
DESIGNATE BASIC DLW TO MATCH SERVICE ID IN ESTABLISHED DATA LINK
S705
DESIGNATE BASIC DLW TO MATCH DATA LINK ALREADY ESTABLISHED
S706
DESIGNATE DEFAULT BASIC DLW

[Fig. 8]


START
S801
DO BASIC DLWS OF REQUEST AND RESPONSE MATCH?
NO
YES
S803
PREVIOUSLY REQUESTED WITH ALL BASIC DLW THAT ARE THE SAME AS ALREADY ESTABLISHED DATA LINKS ?
NO
YES
S804
AFTER EXCLUDING REJECTED BASIC DLW, PERFORM PROCESSING TO DETERMINE BASIC DLW OF DATA LINK SCHEDULE REQUEST
S802
TRANSMIT DATA LINK SCHEDULE CONFIRM
S805
RETRANSMIT DATA LINK SCHEDULE REQUEST