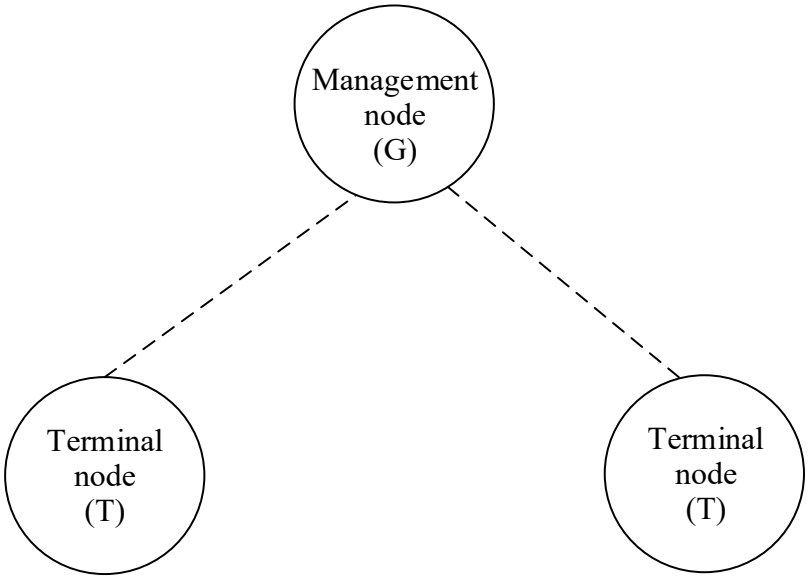

Management node (G)
Terminal node (T)
Terminal node (T)

FIG. 1

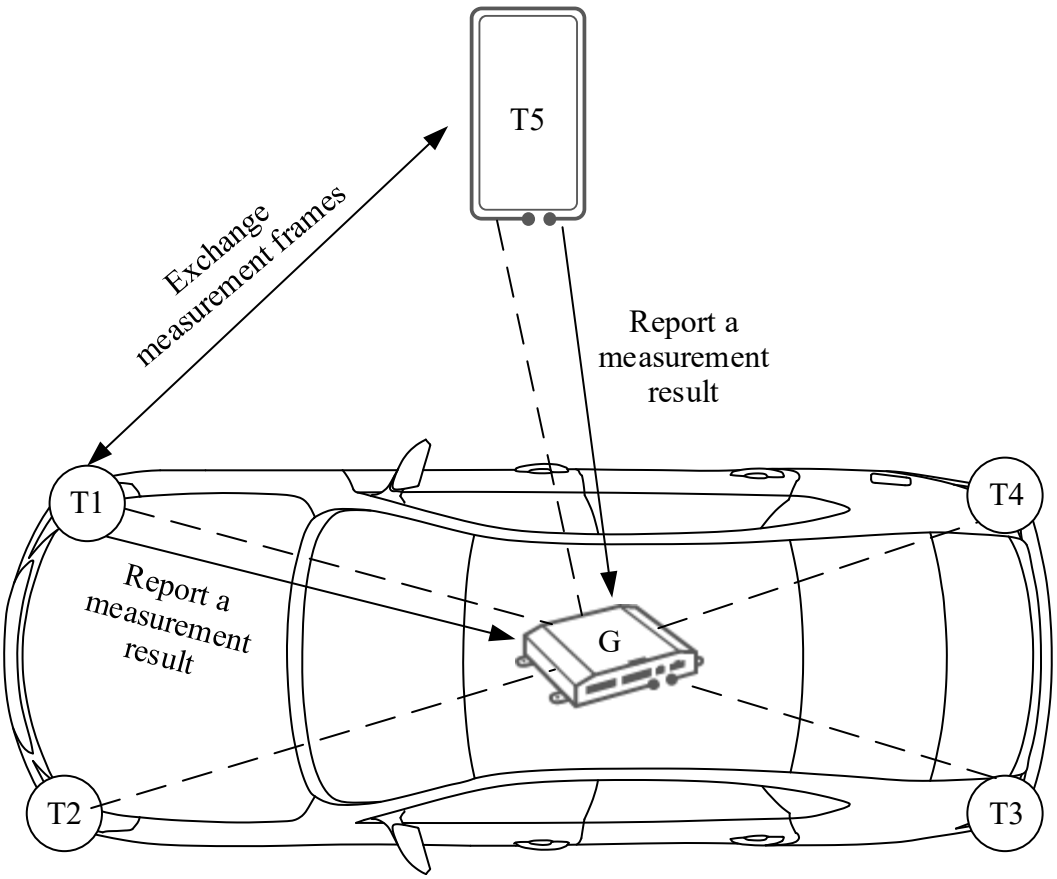

T5
Exchange measurement frames
Report a measurement result
T1
T4
Report a measurement result
G
T2
T3

FIG. 2

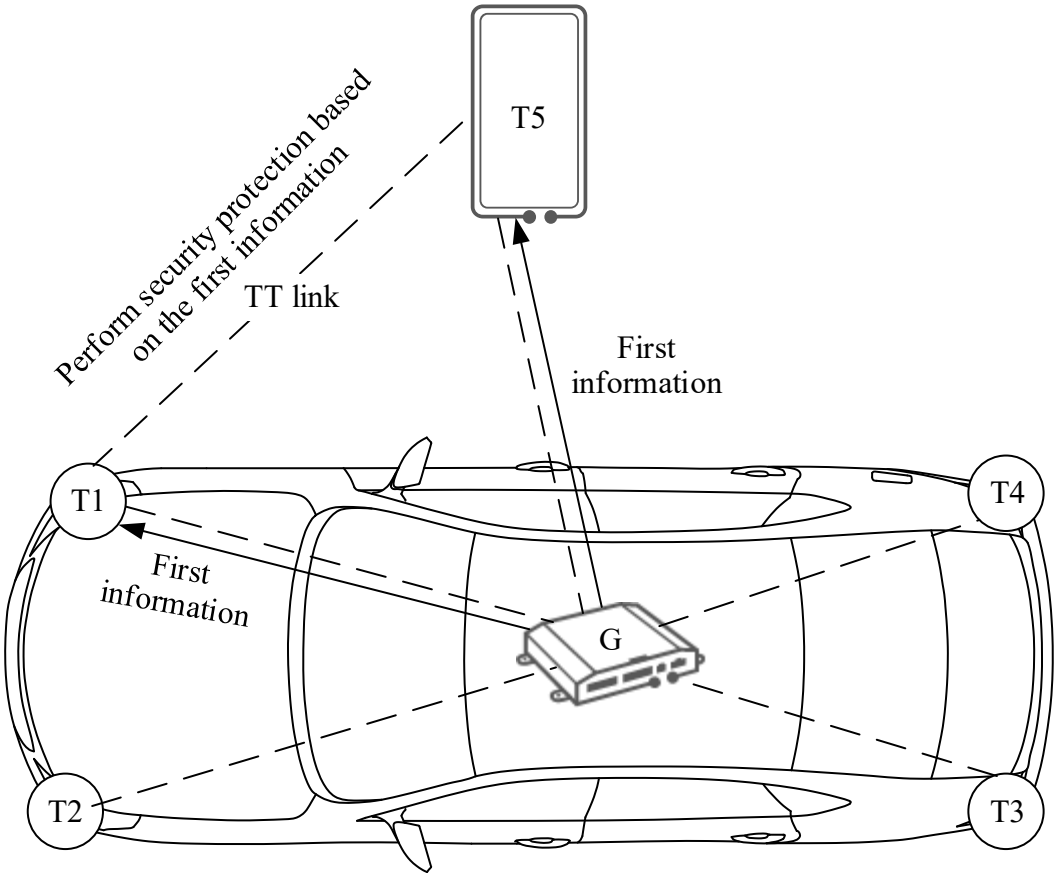

T5
Perform security protection based on the first information
TT link
First information
T1
T4
First information
G
T2
T3

FIG. 3

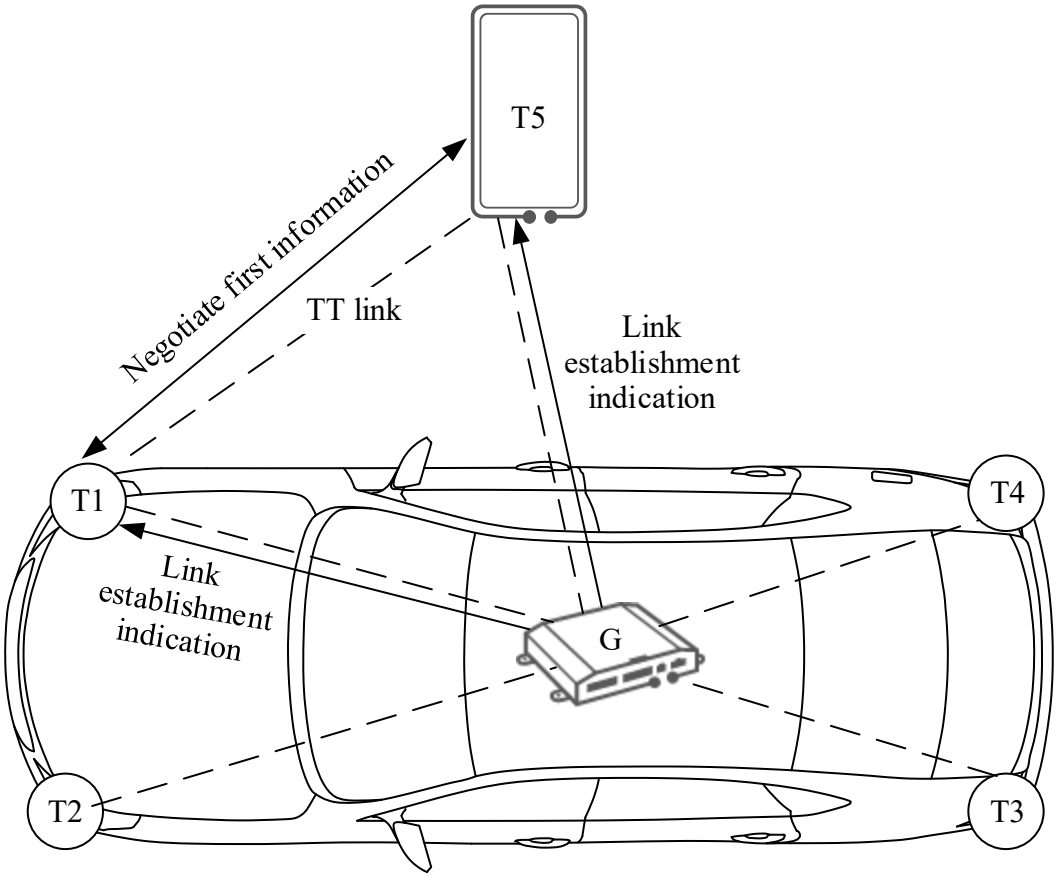

T5
Negotiate first information
TT link
Link
establishment
indication
T1
T4
Link
establishment
indication
G
T2
T3

FIG. 4

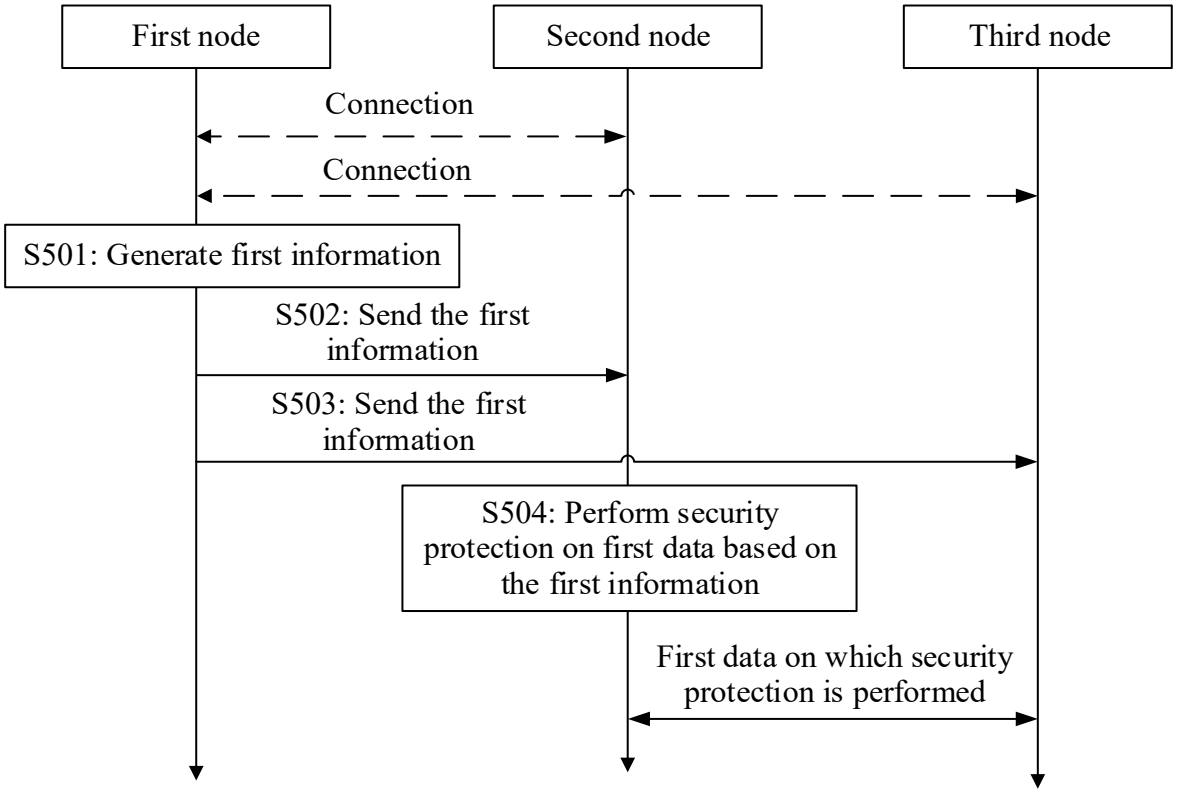

First node
Second node
Third node
Connection
Connection
S501: Generate first information
S502: Send the first information
S503: Send the first information
S504: Perform security protection on first data based on the first information
First data on which security protection is performed

FIG. 5

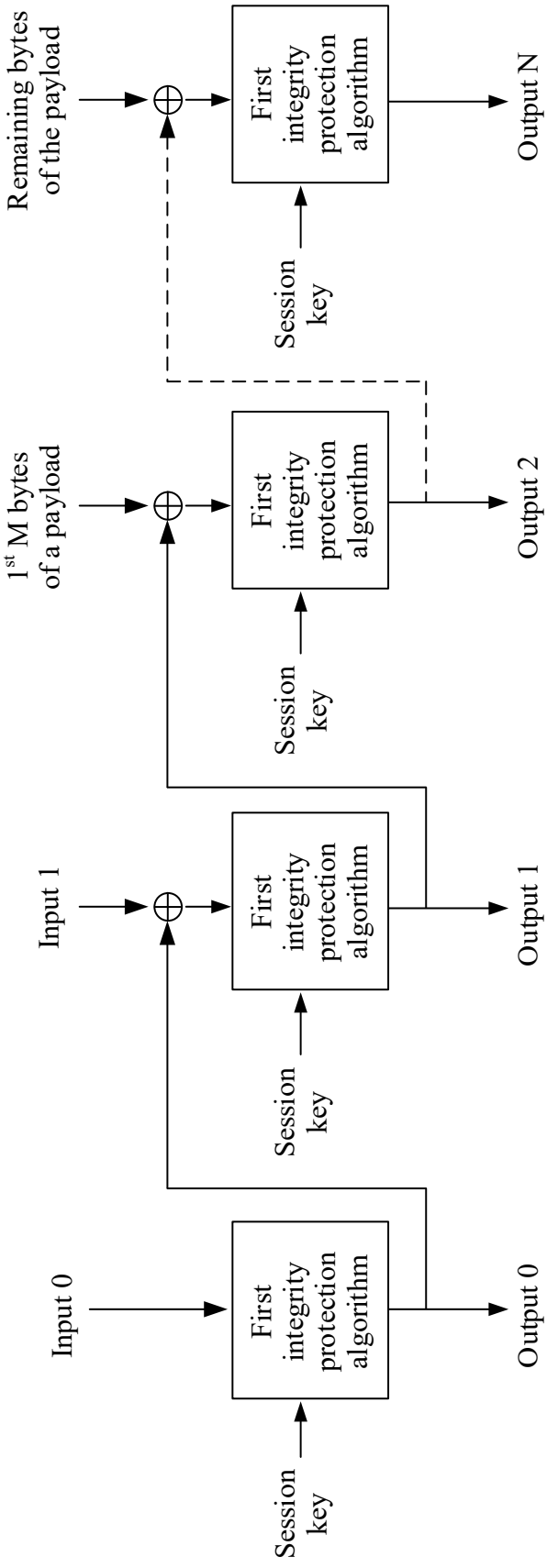

Input 0
Input 1
1st M bytes of a payload
Remaining bytes of the payload
First integrity protection algorithm
Session key
Output 0
Output 1
Output 2
Output N

FIG. 6

Flag (1 byte)	Random number (13 bytes)			High order of a data length (1 byte)	Low order of the data length (1 byte)
First flag value	Payload count [38:0]	Direction indication [0]	Initialization vector [63:0]	Data length [10:8]	Data length [7:0]

FIG. 7

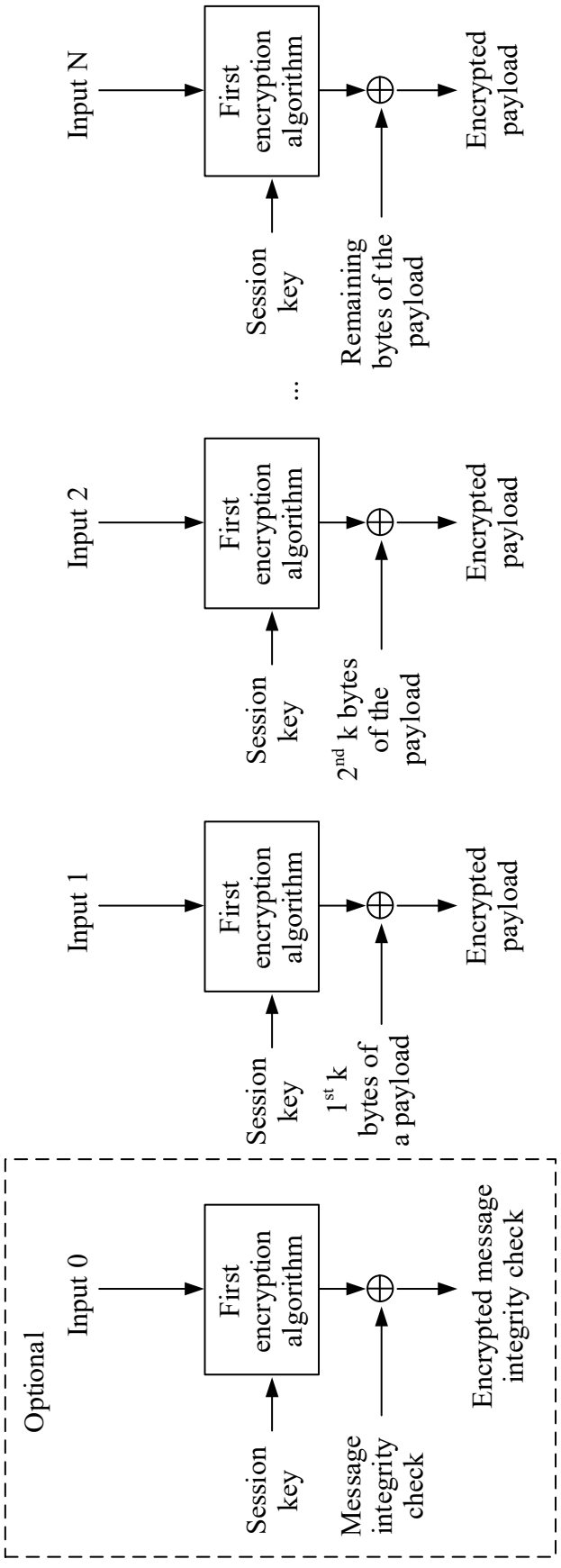

Optional
Input 0
First encryption algorithm
Session key
Message integrity check
Encrypted message integrity check
Input 1
First encryption algorithm
Session key
1st k bytes of a payload
Encrypted payload
Input 2
First encryption algorithm
Session key
2nd k bytes of the payload
Encrypted payload
...
Input N
First encryption algorithm
Session key
Remaining bytes of the payload
Encrypted payload

FIG. 8

<table>
<tr><td>Flag
(1 byte)</td><td colspan="3">Random number
(13 bytes)</td><td>High order of a processing number count
(1 byte)</td><td>Low order of the processing number count
(1 byte)</td></tr>
<tr><td>Second flag value</td><td>Payload count [38:0]</td><td>Direction indication [0]</td><td>Initialization vector [63:0]</td><td>Processing number count [16:8]</td><td>Processing number count [7:0]</td></tr>
</table>

FIG. 9

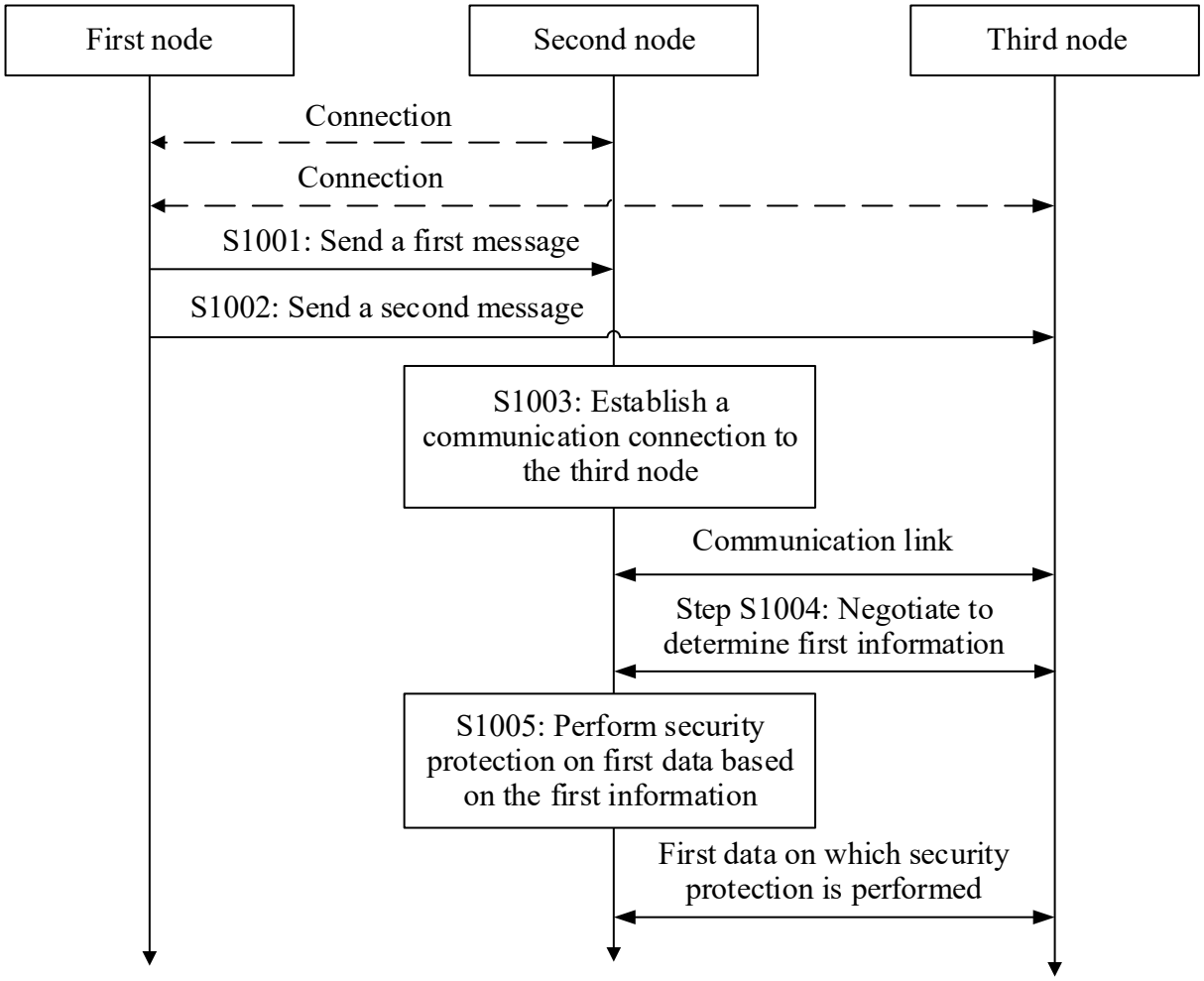

First node
Second node
Third node
Connection
Connection
S1001: Send a first message
S1002: Send a second message
S1003: Establish a communication connection to the third node
Communication link
Step S1004: Negotiate to determine first information
S1005: Perform security protection on first data based on the first information
First data on which security protection is performed

FIG. 10

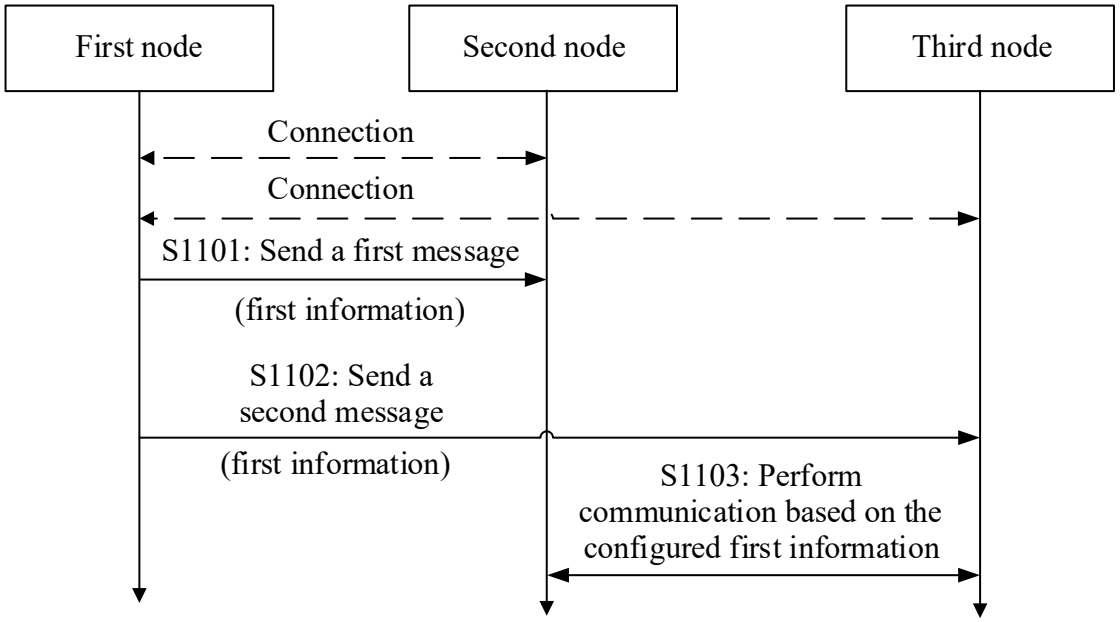

First node
Second node
Third node
Connection
Connection
S1101: Send a first message
(first information)
S1102: Send a second message
(first information)
S1103: Perform communication based on the configured first information

FIG. 11

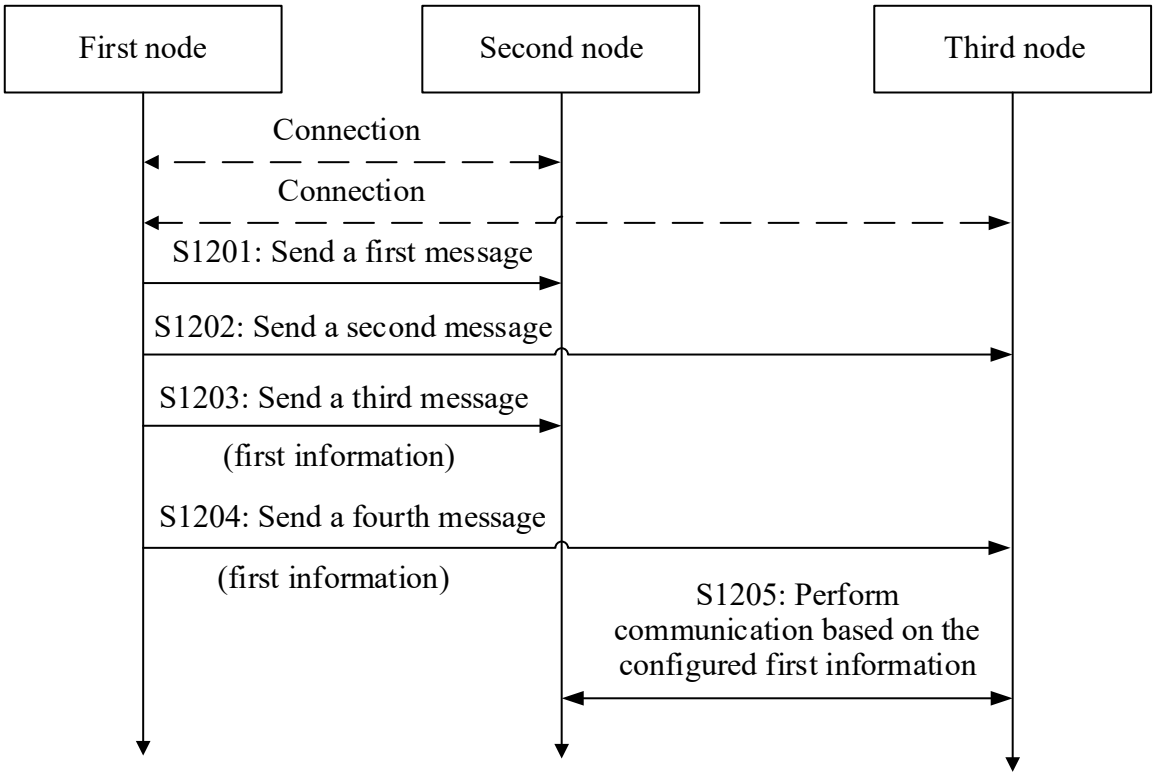

First node
Second node
Third node
Connection
Connection
S1201: Send a first message
S1202: Send a second message
S1203: Send a third message
(first information)
S1204: Send a fourth message
(first information)
S1205: Perform communication based on the configured first information

FIG. 12

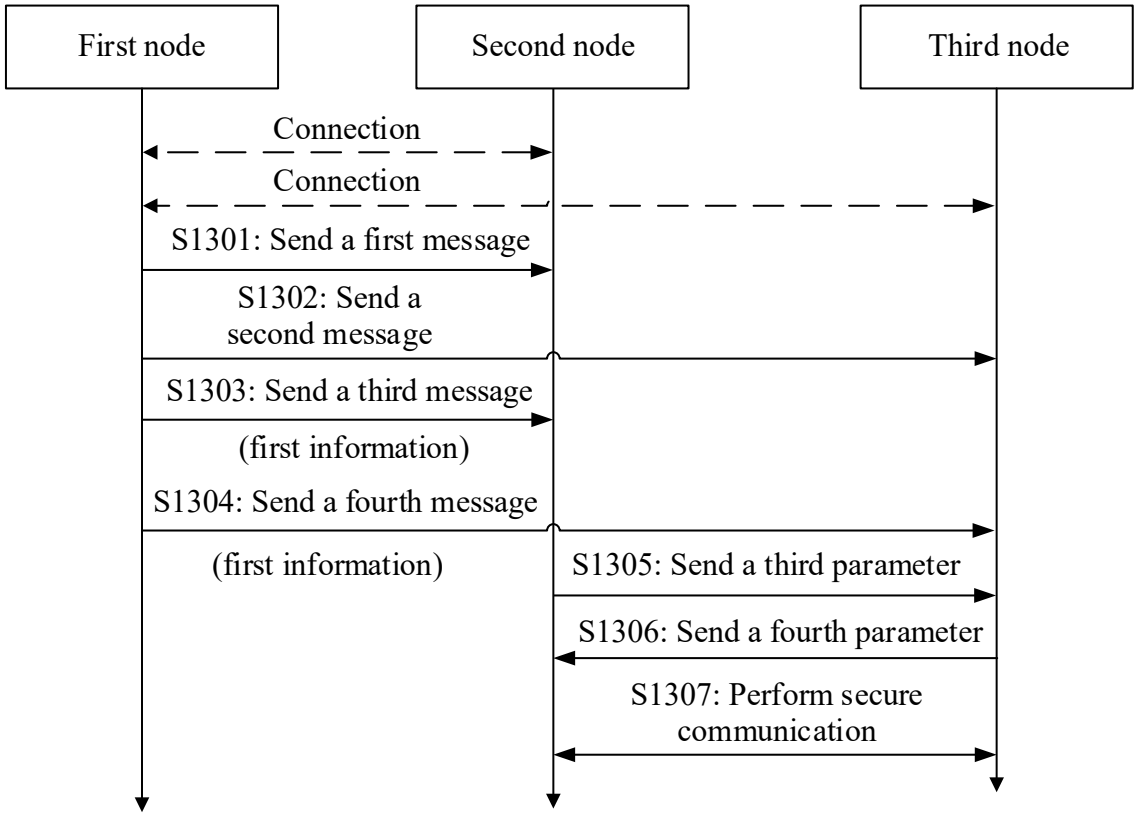

First node
Second node
Third node
Connection
Connection
S1301: Send a first message
S1302: Send a second message
S1303: Send a third message
(first information)
S1304: Send a fourth message
(first information)
S1305: Send a third parameter
S1306: Send a fourth parameter
S1307: Perform secure communication

FIG. 13

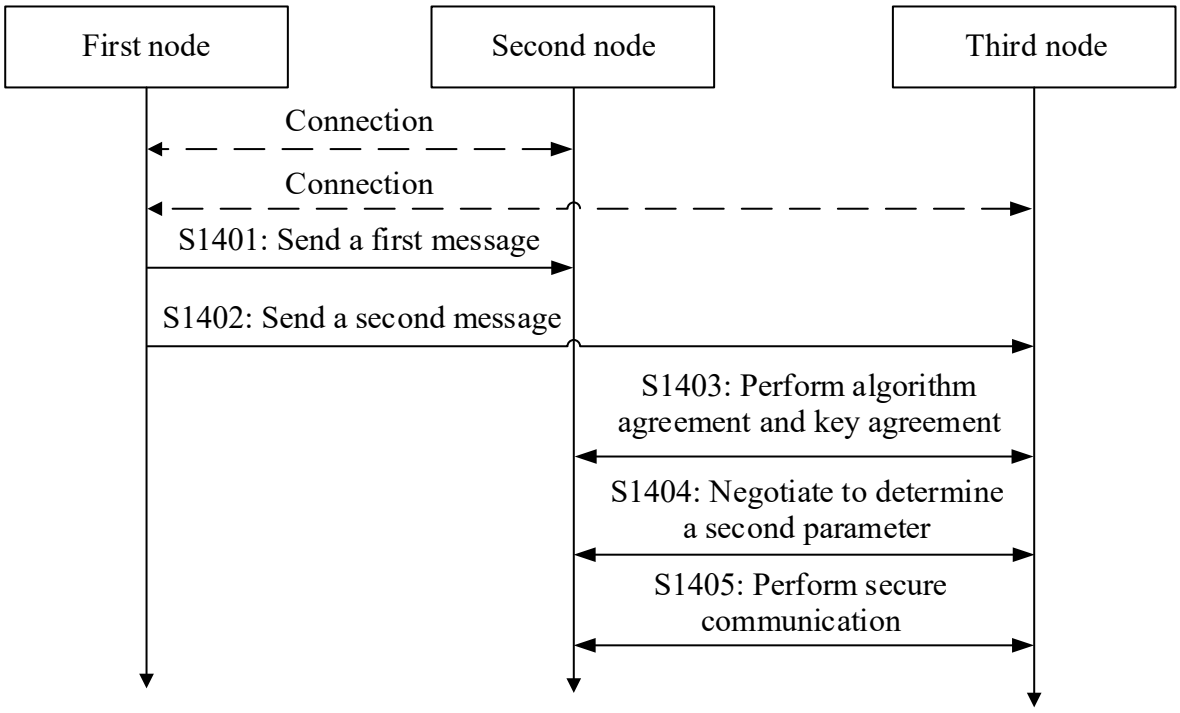

First node
Second node
Third node
Connection
Connection
S1401: Send a first message
S1402: Send a second message
S1403: Perform algorithm agreement and key agreement
S1404: Negotiate to determine a second parameter
S1405: Perform secure communication

FIG. 14

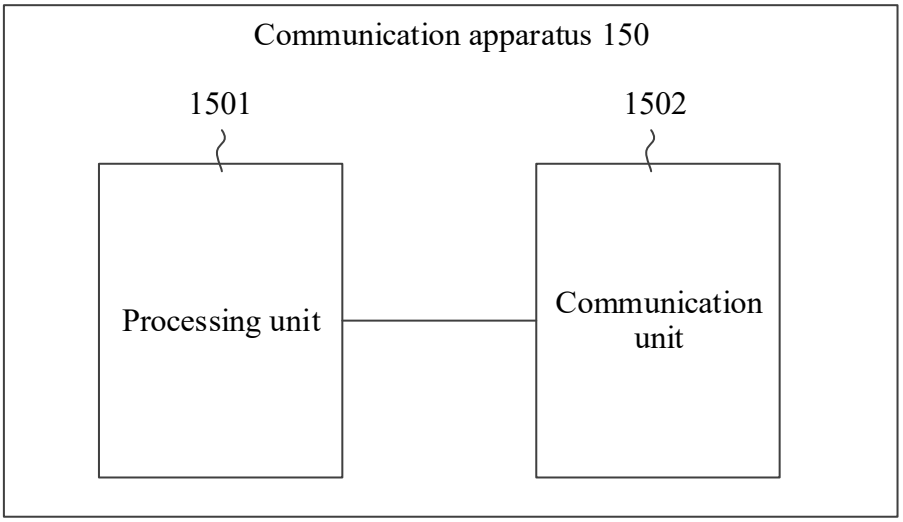

Communication apparatus 150
1501
1502
Processing unit
Communication unit

FIG. 15

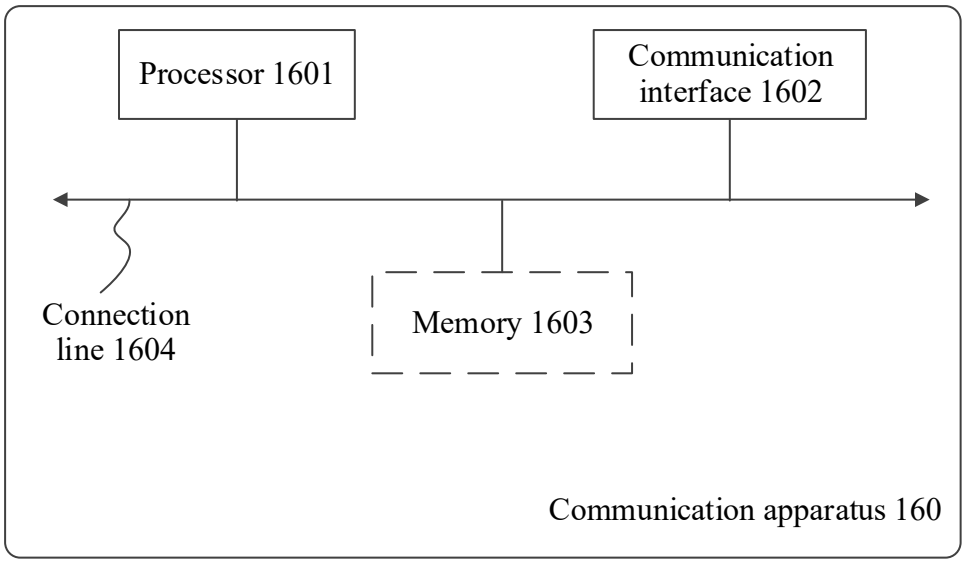

Processor 1601
Communication interface 1602
Connection line 1604
Memory 1603
Communication apparatus 160

FIG. 16