

CLAIMS

1. An apparatus for communication, comprising:
 - means for receiving (804) a core initialization command, from a device host (DH) (760), as part of an initialization and activation procedure for a near field communications (NFC) controller (NFCC) (730);
 - means for transmitting (806) a core initialization response to the DH (760) without information associated with a static radio frequency (RF) connection;
 - means for detecting (808) one or more remote NFC endpoints (330);
 - means for determining (810) a maximum payload size and an initial number of credits for the static RF connection based, at least in part, on at least one of a RF interface or a RF protocol used by a remote NFC endpoint (330) chosen for communications; and
 - means for transmitting (812) the determined maximum payload size and the initial number of credits to the DH (760) to establish a logical connection (764).
2. The apparatus of claim 1, wherein the means for determining (810) further comprising:
 - means for assigning a connection identifier to the logical connection (764).
3. The apparatus of claim 2, wherein the connection identifier is assigned a number from 0 to 15.
4. The apparatus of claim 1, wherein the logical connection (764) comprises a static RF connection.
5. The apparatus of claim 1, wherein the logical connection (764) comprises a dynamic logical connection.
6. The apparatus of claim 1, wherein the one or more remote NFCC endpoints (330) comprises:
 - a remote NFC tag, a reader/writer device, a remote peer initiator device, or a remote peer target device.

7. The apparatus of claim 6, wherein the remote NFC tag comprises a tag type in a range of 1 to 4.

8. The apparatus of claim 1, wherein the means for detecting (808) further comprises:

means for detecting two or more remote NFC endpoints (330);

means for communicating detection of each of the two or more NFC endpoints (330) using RF discovery notification messages to the DH (760); and

means for receiving a RF discovery selection command from the DH (760) selecting one remote NFC endpoint (330) of the two or more remote NFC endpoints (330) with which to communicate.

9. A method of communication, comprising:

receiving (402) a core initialization command, from a device host (DH) (760), as part of an initialization and activation procedure for a near field communications (NFC) controller (NFCC) (730);

transmitting (404) a core initialization response to the DH (760) without information associated with a static radio frequency (RF) connection;

detecting (406) one or more remote NFC endpoints (330);

determining (410) a maximum payload size and an initial number of credits for the static RF connection based, at least in part, on at least one of a RF interface or a RF protocol used by a remote NFC endpoint (330) chosen for communications; and

transmitting (412) the determined maximum payload size and the initial number of credits to the DH (760) to establish a logical connection.

10. The method of claim 9, further comprising:

assigning a connection identifier to the logical connection.

11. The method of claim 10, wherein the connection identifier is assigned a number from 0 to 15.

12. The method of claim 9, wherein the logical connection (764) comprises either a static RF connection or a dynamic logical connection.
13. The method of claim 9, wherein the one or more remote NFCC endpoints (330) comprises:
 - a remote NFC tag, a reader/writer device, a remote peer initiator device, or a remote peer target device.
14. The method of claim 13, wherein the remote NFC tag comprises a tag type in a range of 1 to 4.
15. The method of claim 9, wherein the detecting further comprises:
 - detecting two or more remote NFC endpoints (330);
 - communicating detection of each of the two or more NFC endpoints (330) using RF discovery notification messages to the DH (760); and
 - receiving a RF discovery selection command from the DH (760) selecting one remote NFC endpoint (330) of the two or more remote NFC endpoints (330) with which to communication.

CLAIMS

1. A method of communication, comprising:
receiving a core initialization command, from a device host (DH), as part of an initialization and activation procedure for a near field communications (NFC) controller (NFCC);
transmitting a core initialization response to the DH without information associated with a static radio frequency (RF) connection;
detecting one or more remote NFC endpoints;
determining a maximum payload size and an initial number of credits for the static RF connection based, at least in part, on at least one of a RF interface or a RF protocol used by a remote NFC endpoint chosen for communications; and
transmitting the determined maximum payload size and the initial number of credits to the DH to establish a logical connection.
2. The method of claim 1, further comprising:
assigning a connection identifier to the logical connection.
3. The method of claim 2, wherein the connection identifier is assigned a number from 0 to 15.
4. The method of claim 1, wherein the logical connection comprises a static RF connection.
5. The method of claim 1, wherein the logical connection comprises a dynamic logical connection.

6. The method of claim 1, wherein the one or more remote NFCC endpoints comprises:

a remote NFC tag, a reader/writer device, a remote peer initiator device, or a remote peer target device.

7. The method of claim 6, wherein the remote NFC tag comprises a tag type in a range of 1 to 4.

8. The method of claim 1, wherein the detecting further comprises:

detecting two or more remote NFC endpoints;

communicating detection of each of the two or more NFC endpoints using RF discovery notification messages to the DH; and

receiving a RF discovery selection command from the DH selecting one remote NFC endpoint of the two or more remote NFC endpoints with which to communicate.

9. A computer program product, comprising:

a computer-readable medium comprising code for:

receiving a core initialization command, from a device host (DH), as part of an initialization and activation procedure for a near field communications (NFC) controller (NFCC);

transmitting a core initialization response to the DH without information associated with a static radio frequency (RF) connection;

detecting one or more remote NFC endpoints;

determining a maximum payload size and an initial number of credits for the static RF connection based, at least in part, on at least one of a RF interface or a RF protocol used by a remote NFC endpoint chosen for communications; and

transmitting the determined maximum payload size and the initial number of credits to the DH to establish a logical connection.

10. The computer program product of claim **9**, wherein the computer-readable medium further comprises code for:

assigning a connection identifier to the logical connection.

11. The computer program product of claim **10**, wherein the connection identifier is assigned a number from 0 to 15.

12. The computer program product of claim **9**, wherein the logical connection comprises a static RF connection.

13. The computer program product of claim **9**, wherein the logical connection comprises a dynamic logical connection.

14. The computer program product of claim **9**, wherein the one or more remote NFCC endpoints comprises:

a remote NFC tag, a reader/writer device, a remote peer initiator device, or a remote peer target device.

15. The computer program product of claim **14**, wherein the remote NFC tag comprises a tag type in a range of 1 to 4.

16. The computer program product of claim **9**, wherein the code for detecting further comprises code for:

detecting two or more remote NFC endpoints;

communicating detection of each of the two or more NFC endpoints using RF discovery notification messages to the DH; and

receiving a RF discovery selection command from the DH selecting one remote NFC endpoint of the two or more remote NFC endpoints with which to communication.

17. An apparatus for communication, comprising:

means for receiving a core initialization command, from a device host (DH), as part of an initialization and activation procedure for a near field communications (NFC) controller (NFCC);

means for transmitting a core initialization response to the DH without information associated with a static radio frequency (RF) connection;

means for detecting one or more remote NFC endpoints;

means for determining a maximum payload size and an initial number of credits for the static RF connection based, at least in part, on at least one of a RF interface or a RF protocol used by a remote NFC endpoint chosen for communications; and

means for transmitting the determined maximum payload size and the initial number of credits to the DH to establish a logical connection.

18. The apparatus of claim 17, wherein the means for determining further comprising:

means for assigning a connection identifier to the logical connection.

19. The apparatus of claim 18, wherein the connection identifier is assigned a number from 0 to 15.

20. The apparatus of claim 17, wherein the logical connection comprises a static RF connection.

21. The apparatus of claim 17, wherein the logical connection comprises a dynamic logical connection.

22. The apparatus of claim 17, wherein the one or more remote NFCC endpoints comprises:

a remote NFC tag, a reader/writer device, a remote peer initiator device, or a remote peer target device.

23. The apparatus of claim 22, wherein the remote NFC tag comprises a tag type in a range of 1 to 4.

24. The apparatus of claim 17, wherein the means for detecting further comprises:

means for detecting two or more remote NFC endpoints;

means for communicating detection of each of the two or more NFC endpoints using RF discovery notification messages to the DH; and

means for receiving a RF discovery selection command from the DH selecting one remote NFC endpoint of the two or more remote NFC endpoints with which to communication.

- 25.** An apparatus for communication, comprising:
a device host (DH);
a near field communication (NFC) controller (NFCC), in communication with the DH, and configured to:
receive a core initialization command, from the DH, as part of an initialization and activation procedure;
transmit a core initialization response to the DH without information associated with a static radio frequency (RF) connection;
detect one or more remote NFC endpoints;
determine a maximum payload size and an initial number of credits for the static RF connection based, at least in part, on at least one of a RF interface or a RF protocol used by a remote NFC endpoint chosen for communications; and
transmit the determined maximum payload size and the initial number of credits to the DH to establish a logical connection.
- 26.** The apparatus of claim **25**, wherein the NFCC is further configured to:
assign a connection identifier to the logical connection.
- 27.** The apparatus of claim **26**, wherein the connection identifier is assigned a number from 0 to 15.
- 28.** The apparatus of claim **25**, wherein the logical connection comprises a static RF connection.
- 29.** The apparatus of claim **25**, wherein the logical connection comprises a dynamic logical connection.
- 30.** The apparatus of claim **25**, wherein the one or more remote NFCC endpoints comprises:
a remote NFC tag, a reader/writer device, a remote peer initiator device, or a remote peer target device.
- 31.** The apparatus of claim **30**, wherein the remote NFC tag comprises a tag type in a range of 1 to 4.

32. The apparatus of claim **25**, wherein the NFCC is further configured to:

- detect two or more remote NFC endpoints;
- communicate detection of each of the two or more NFC endpoints using RF discovery notification messages to the DH; and
- receive a RF discovery selection command from the DH selecting one remote NFC endpoint of the two or more remote NFC endpoints with which to communicate.