US 20250267635A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2025/0267635 A1**

ABDELGHAFFAR et al. (43) **Pub. Date: Aug. 21, 2025**

(54) **SUBBAND FULL DUPLEX SYMBOL INFORMATION VIA SLOT FORMAT INDICATORS**

(71) Applicant: **QUALCOMM Incorporated**, San Diego, CA (US)

(72) Inventors: **Muhammad Sayed Khairy ABDELGHAFFAR**, San Jose, CA (US); **Qian ZHANG**, Basking Ridge, NJ (US); **Abdelrahman Mohamed Ahmed Mohamed IBRAHIM**, San Diego, CA (US); **Peter GAAL**, San Diego, CA (US)

(21) Appl. No.: **18/443,093**

(22) Filed: **Feb. 15, 2024**

Publication Classification

(51) **Int. Cl.**

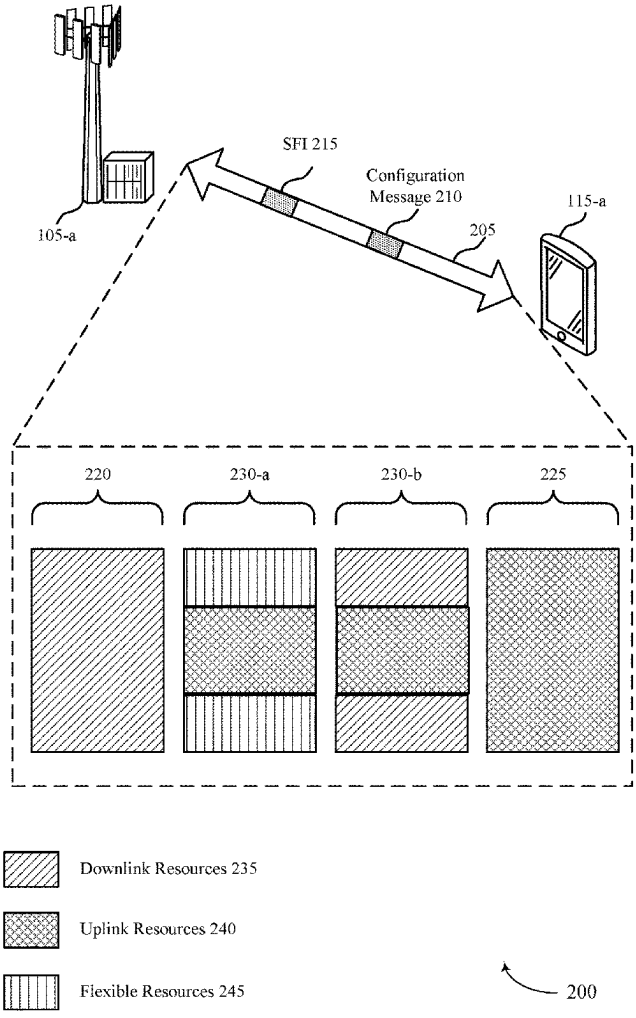
H04W 72/0446	(2023.01)
H04L 5/14	(2006.01)
H04W 72/232	(2023.01)

(52) **U.S. Cl.**

CPC ***H04W 72/0446*** (2013.01); ***H04L 5/14*** (2013.01); ***H04W 72/232*** (2023.01)

(57) **ABSTRACT**

Methods, systems, and devices for wireless communications are described. The described techniques may enable a network entity to transmit a slot format indicator (SFI) to assign a subband full duplex (SBFD) symbol as a downlink symbol, an uplink symbol, or a flexible symbol. The SFI may indicate for a wireless device to fallback to a downlink time division duplex (TDD) slot format, an uplink time division duplex (TDD) slot format, or a flexible TDD slot format. In some examples, the network entity may transmit an SFI configuring the wireless device with a symbol pattern that may include an SBFD symbol type. Additionally, or alternatively, the wireless device may be configured with one or more time patterns, and the SFI may indicate a time pattern of the one or more time patterns for the wireless device to apply to one or more symbols.



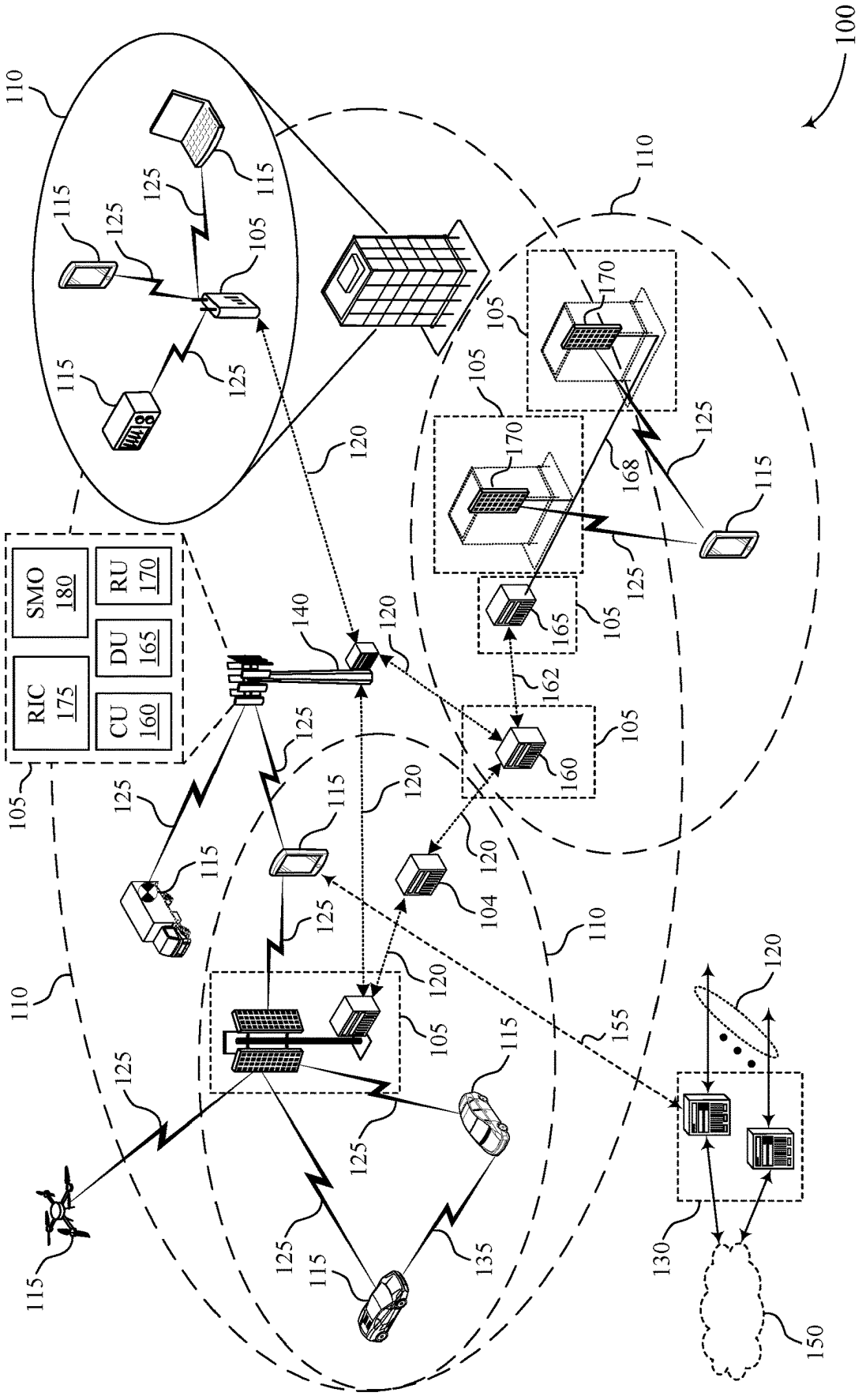

100
110
115
125
105
120
SMO 180
RU 170
RIC 175
DU 165
CU 160
140
170
168
165
162
160
104
155
130
135
150

FIG. 1

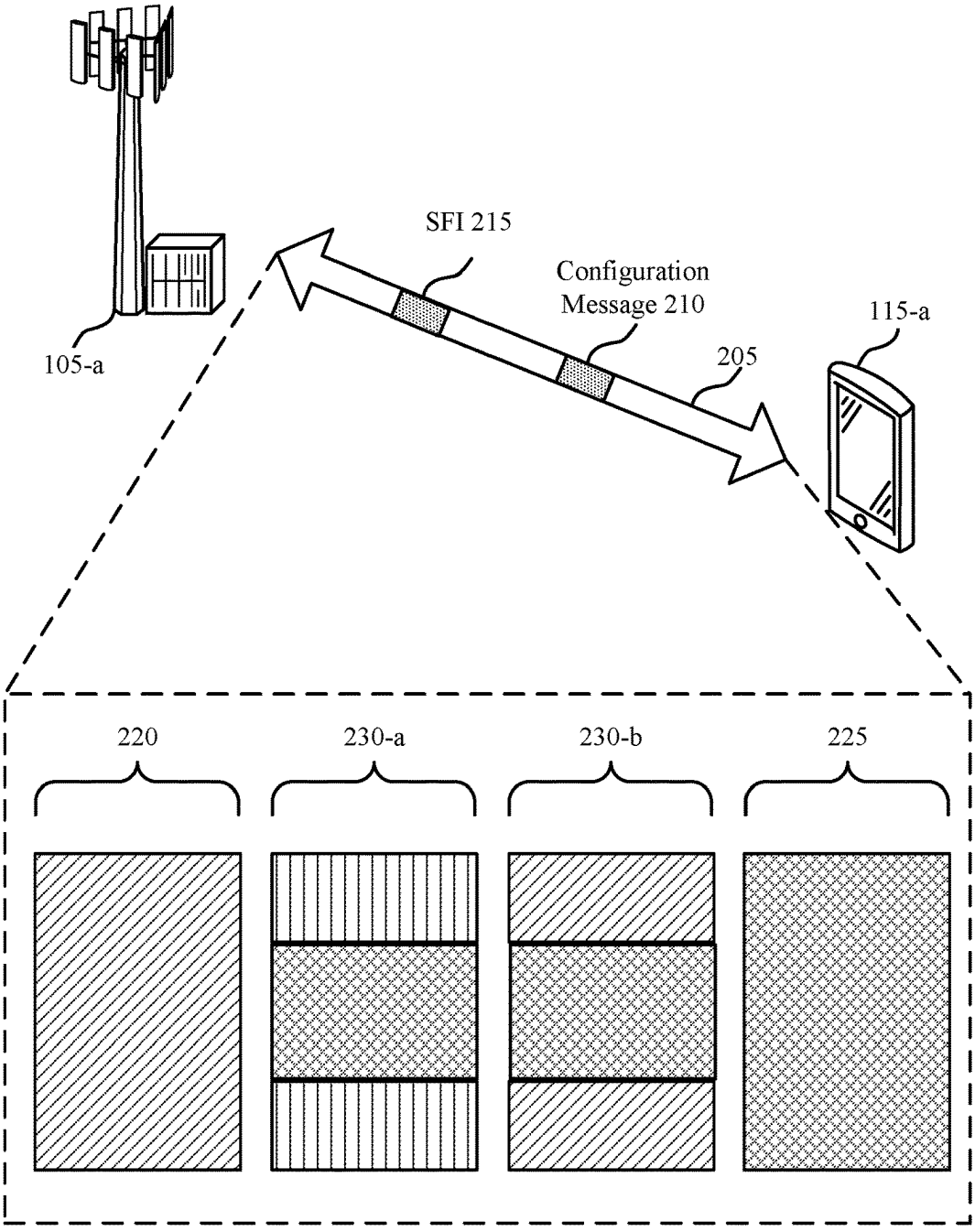

105-a
SFI 215
Configuration Message 210
205
115-a
220
230-a
230-b
225
Downlink Resources 235
Uplink Resources 240
Flexible Resources 245
200

FIG. 2

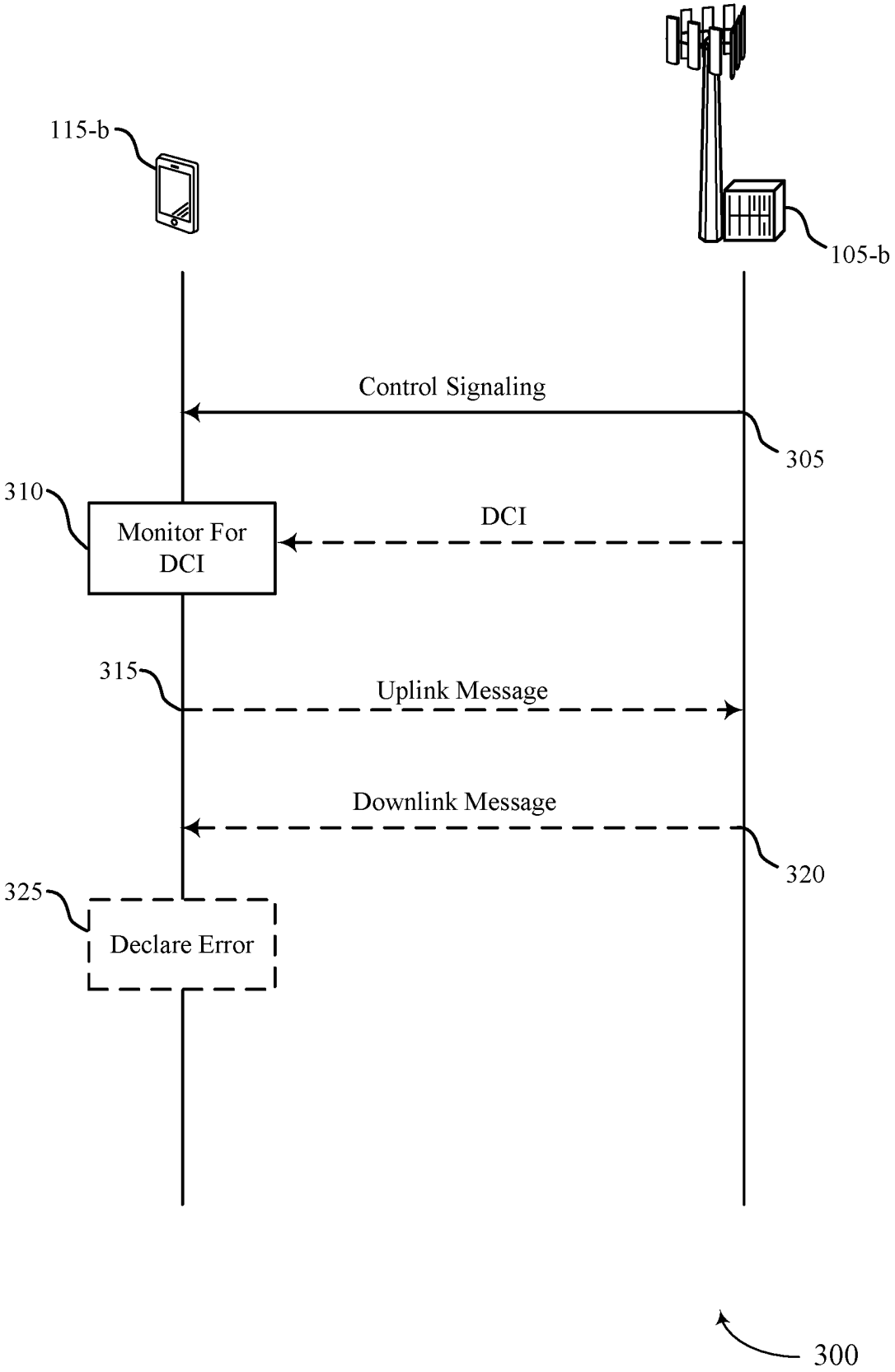

115-b
105-b
Control Signaling
305
310
Monitor For DCI
DCI
315
Uplink Message
Downlink Message
320
325
Declare Error
300

FIG. 3

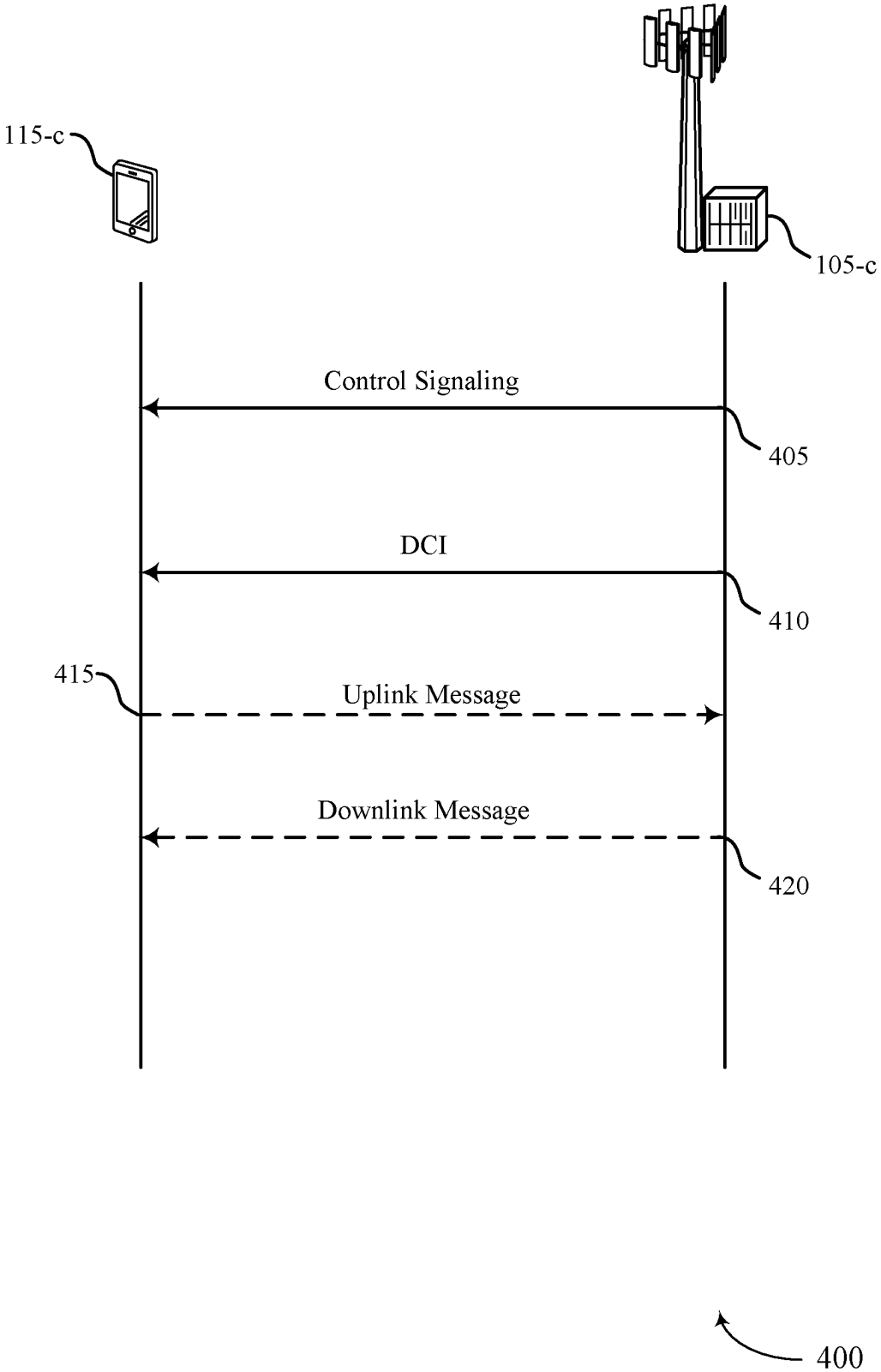

115-c
105-c
Control Signaling
405
DCI
410
415
Uplink Message
Downlink Message
420
400

FIG. 4

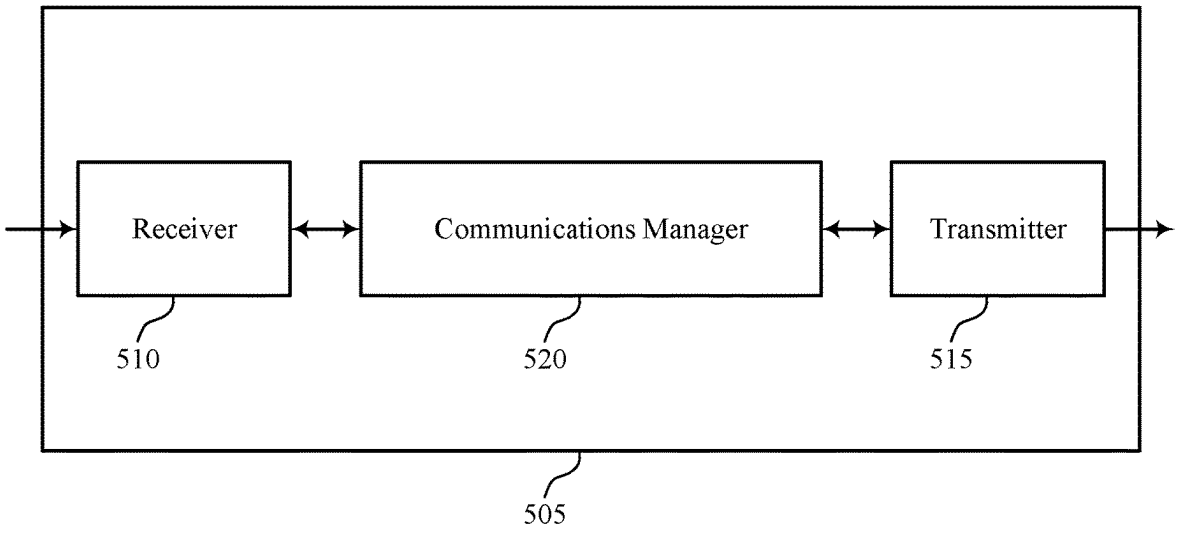

Receiver
Communications Manager
Transmitter
510
520
515
505
500

FIG. 5

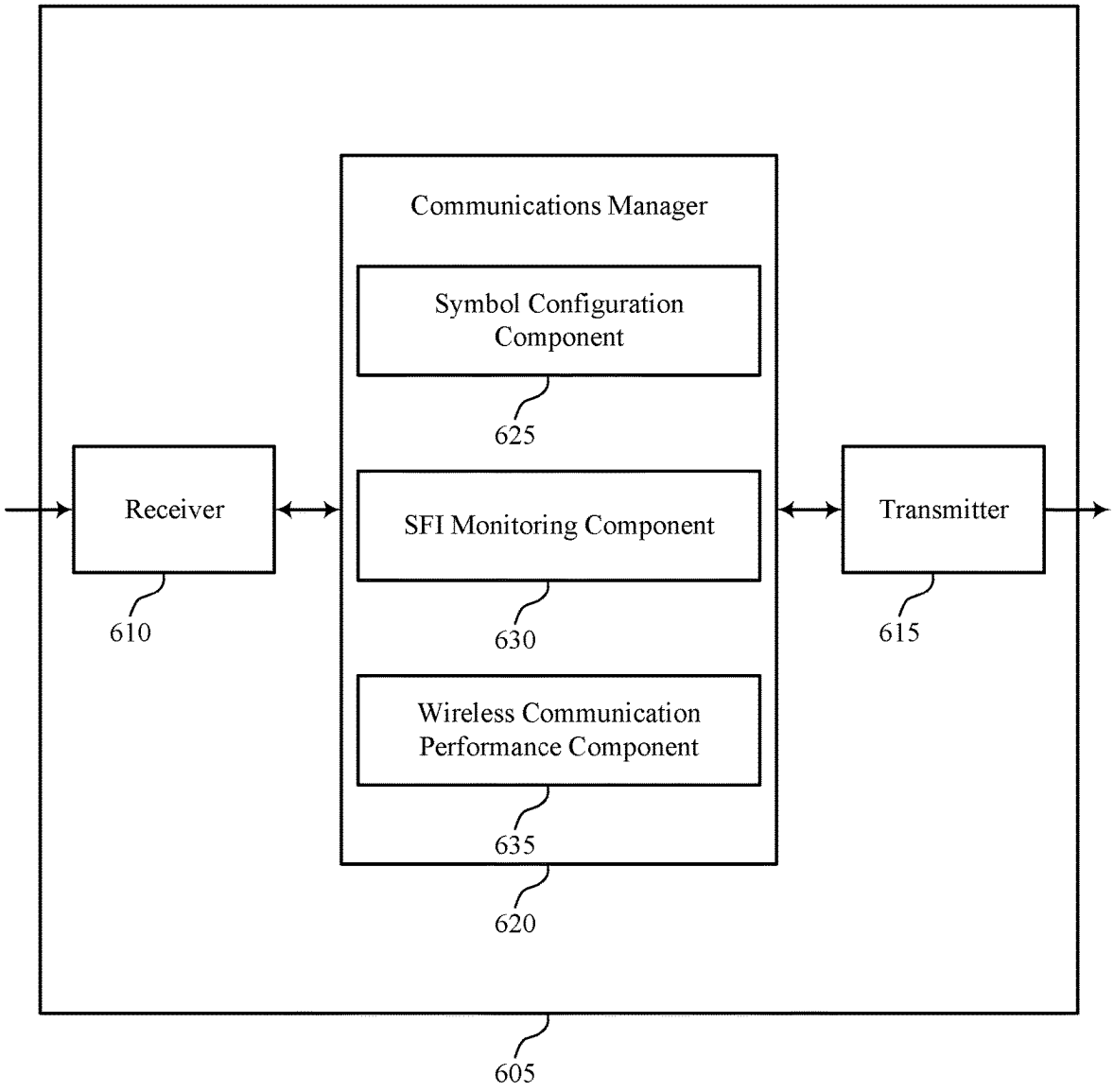

Communications Manager
Symbol Configuration Component
625
Receiver
SFI Monitoring Component
Transmitter
610
630
615
Wireless Communication Performance Component
635
620
605
600

FIG. 6

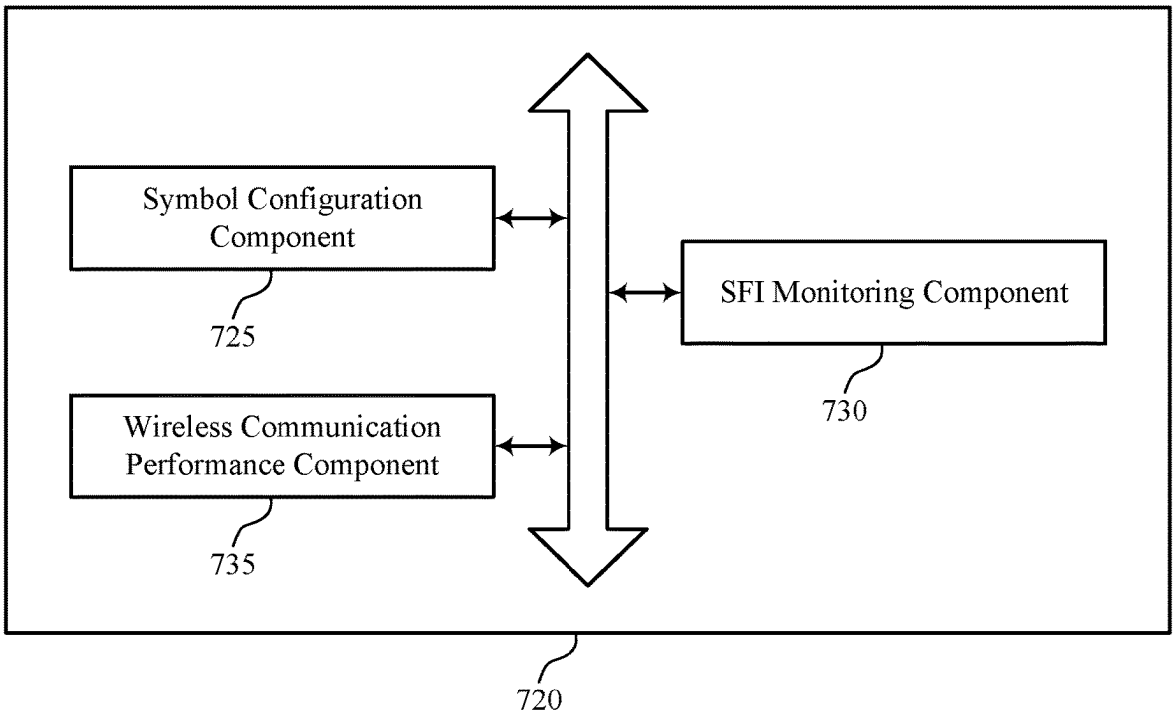

Symbol Configuration Component
725
Wireless Communication Performance Component
735
SFI Monitoring Component
730
720
700

FIG. 7

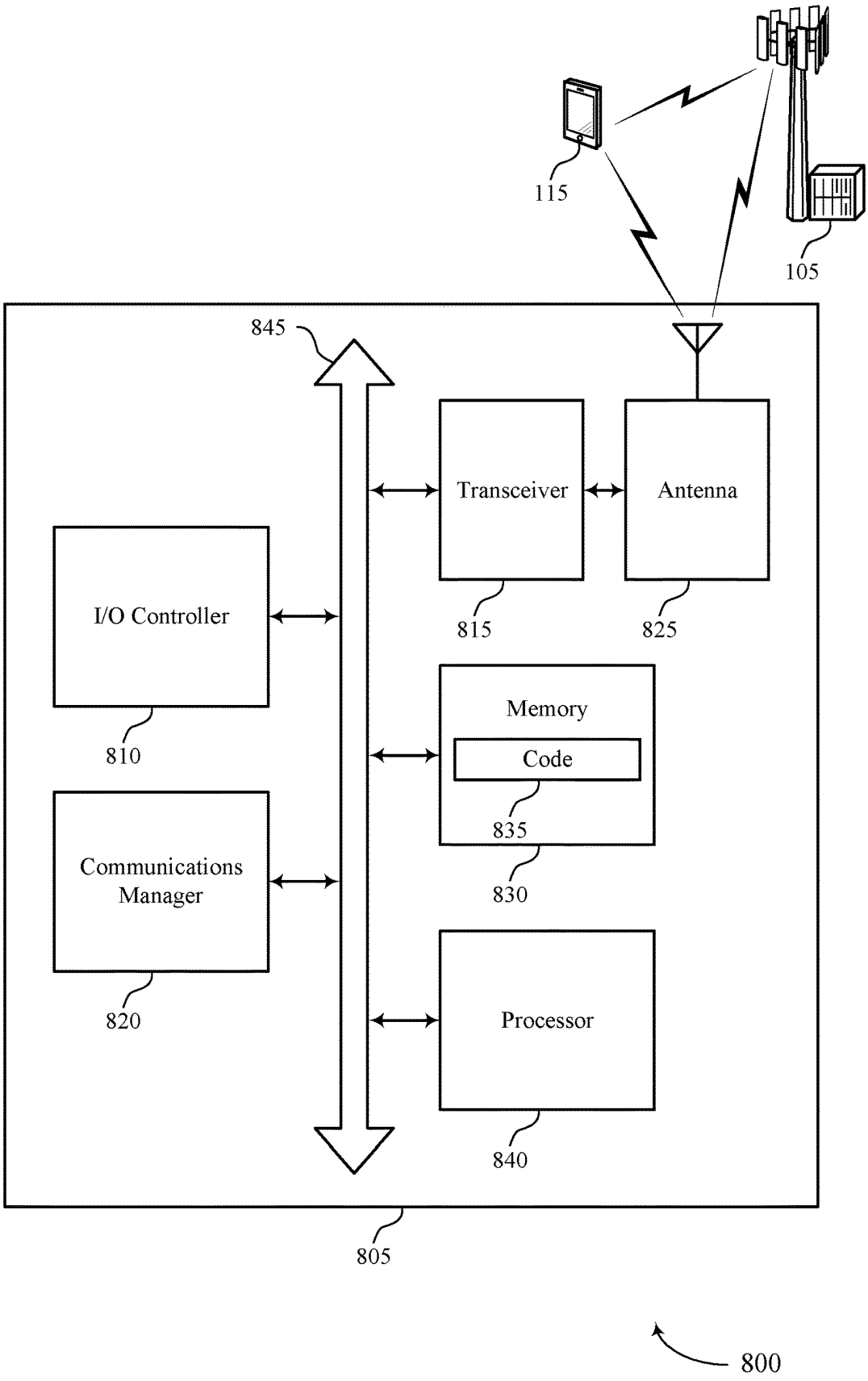

115
105
845
Transceiver
Antenna
I/O Controller
815
825
Memory
Code
810
835
Communications Manager
830
Processor
820
840
805
800

FIG. 8

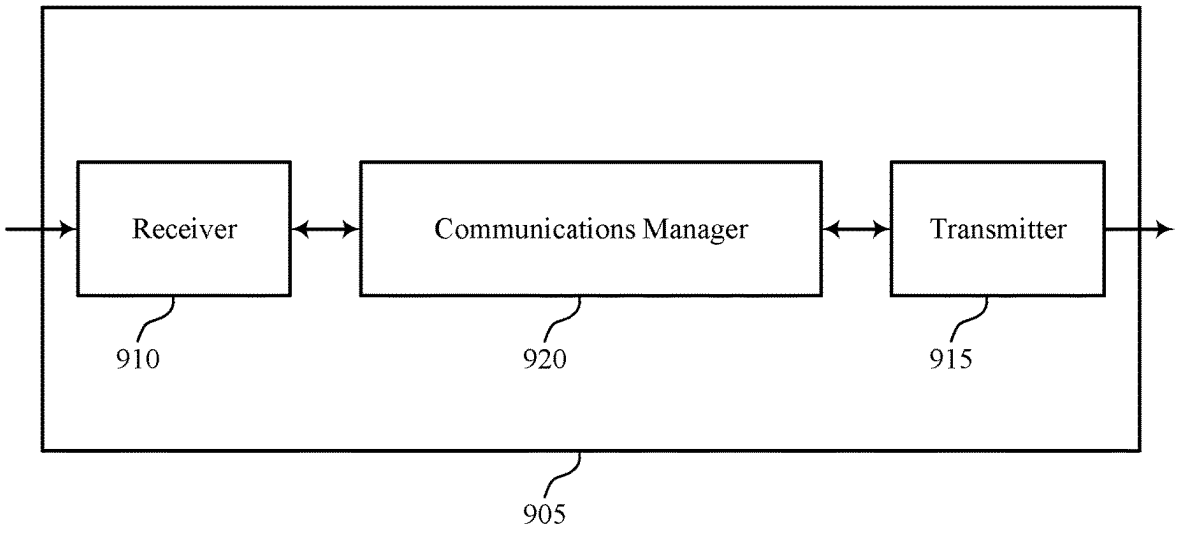

Receiver
Communications Manager
Transmitter
910
920
915
905
900

FIG. 9

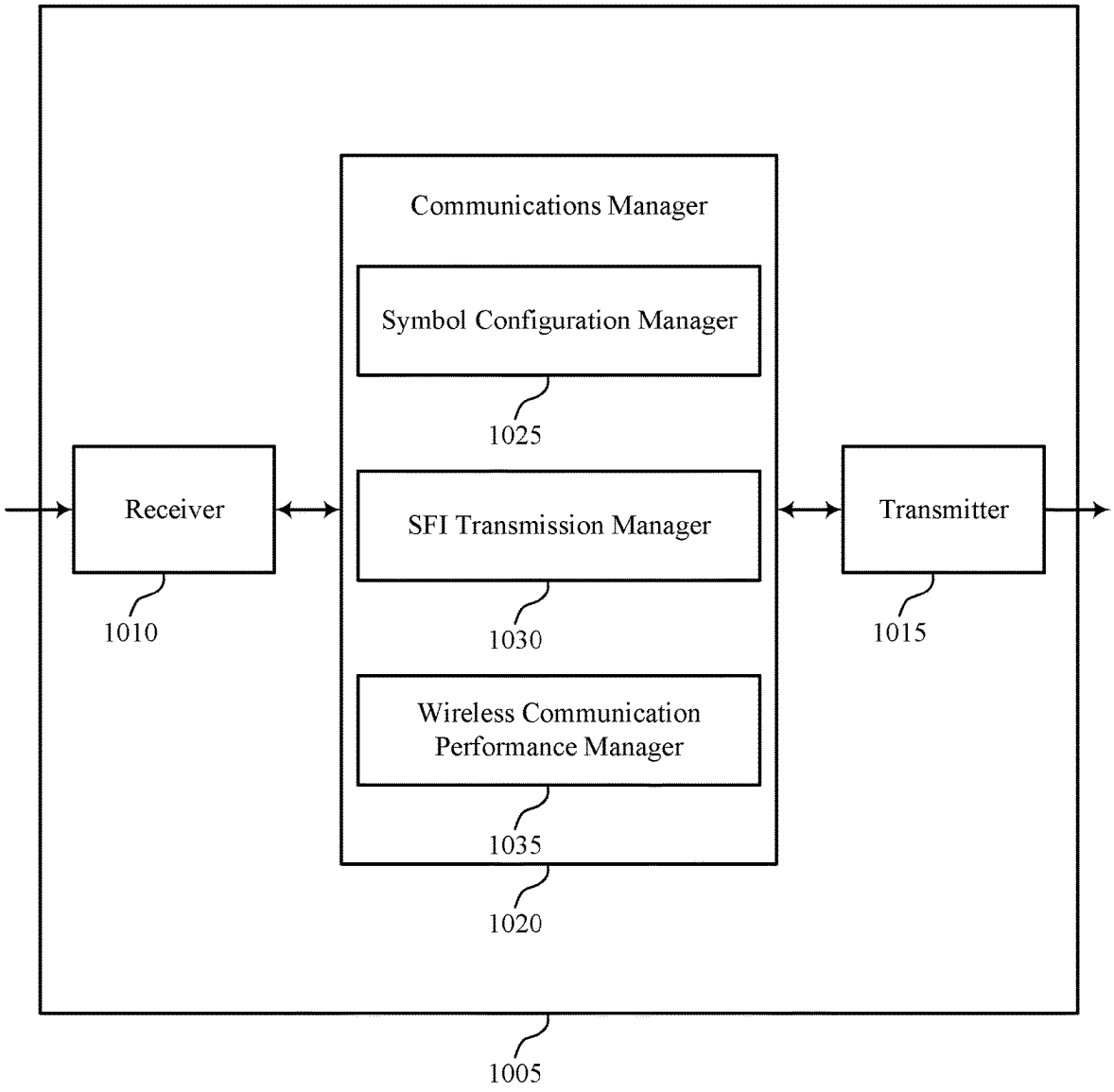

Communications Manager
Symbol Configuration Manager
1025
Receiver
SFI Transmission Manager
Transmitter
1010
1030
1015
Wireless Communication Performance Manager
1035
1020
1005
1000

FIG. 10

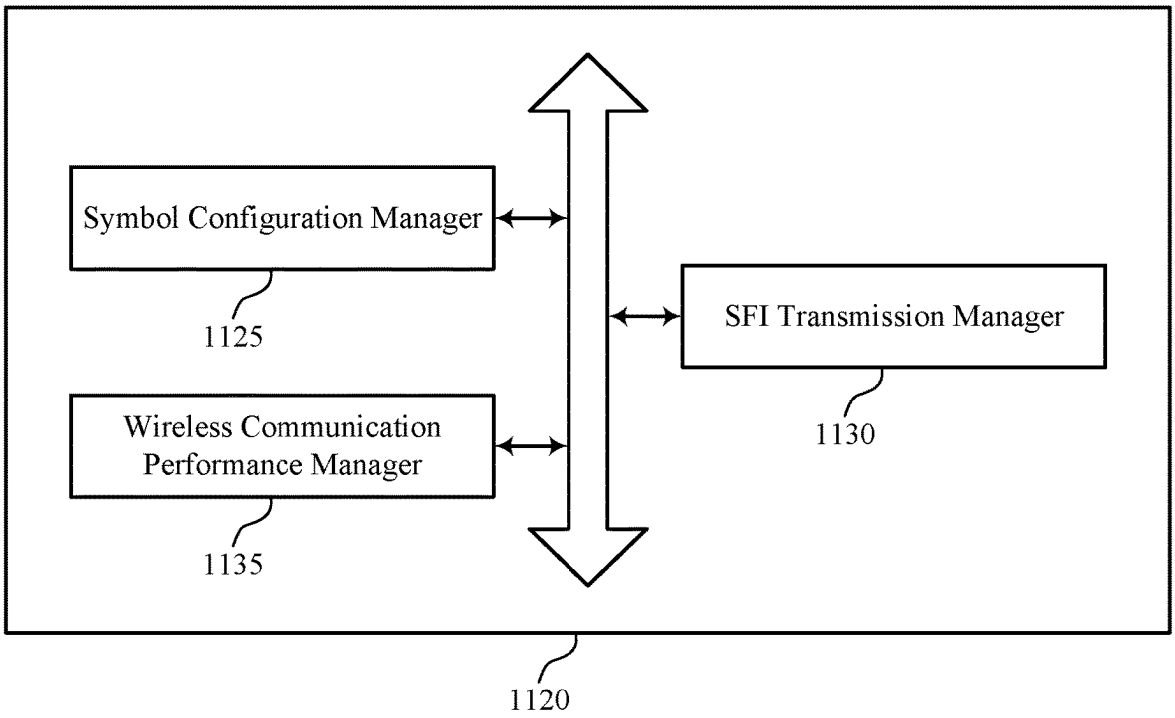

Symbol Configuration Manager
1125
Wireless Communication Performance Manager
1135
SFI Transmission Manager
1130
1120
1100

FIG. 11

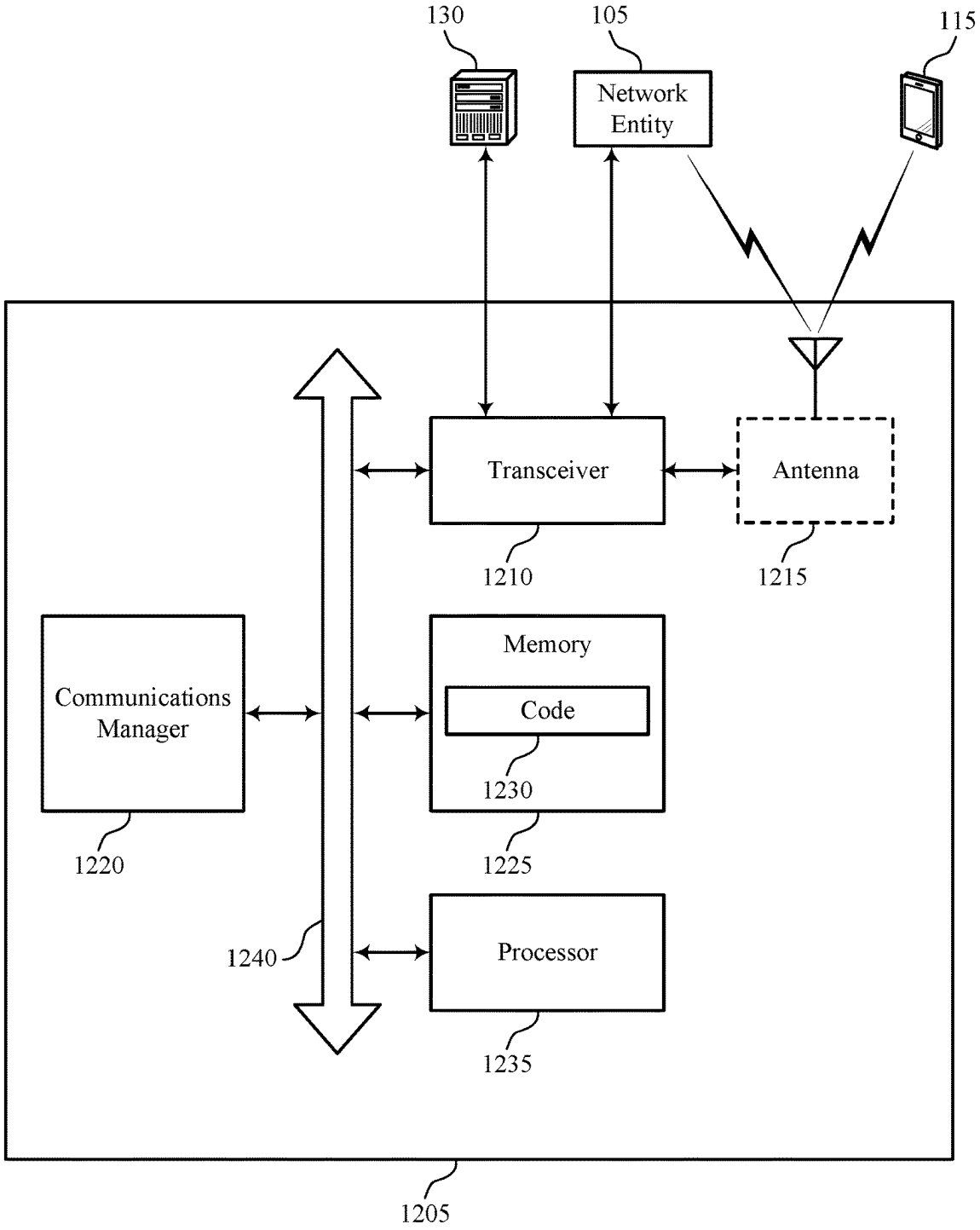

130
105
115
Network Entity
Transceiver
Antenna
1210
1215
Communications Manager
Memory
Code
1230
1220
1225
1240
Processor
1235
1205
1200

FIG. 12

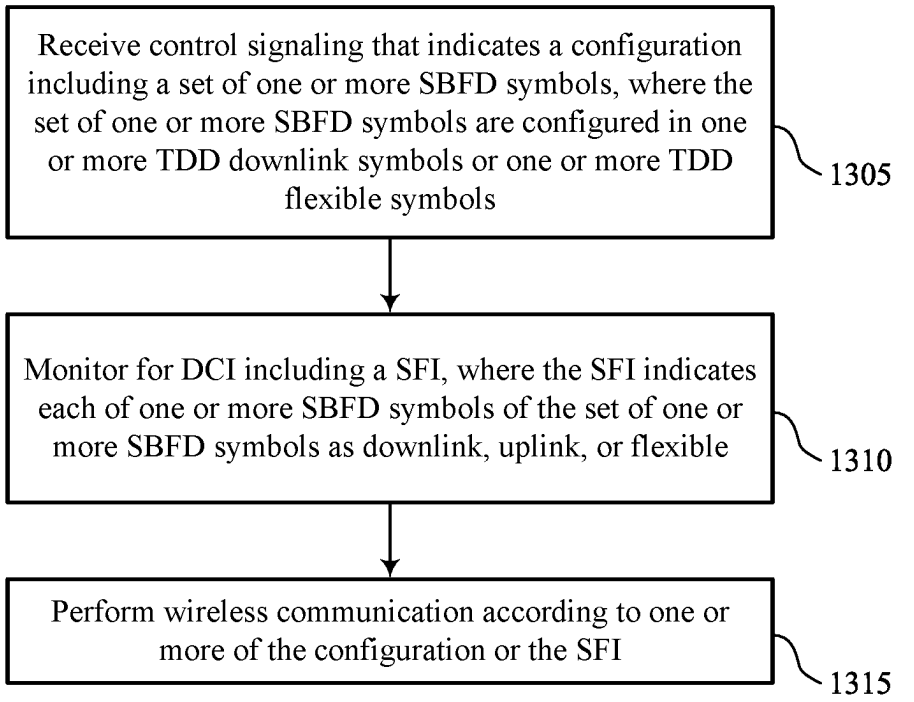

Receive control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols
1305
Monitor for DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible
1310
Perform wireless communication according to one or more of the configuration or the SFI
1315
1300

FIG. 13

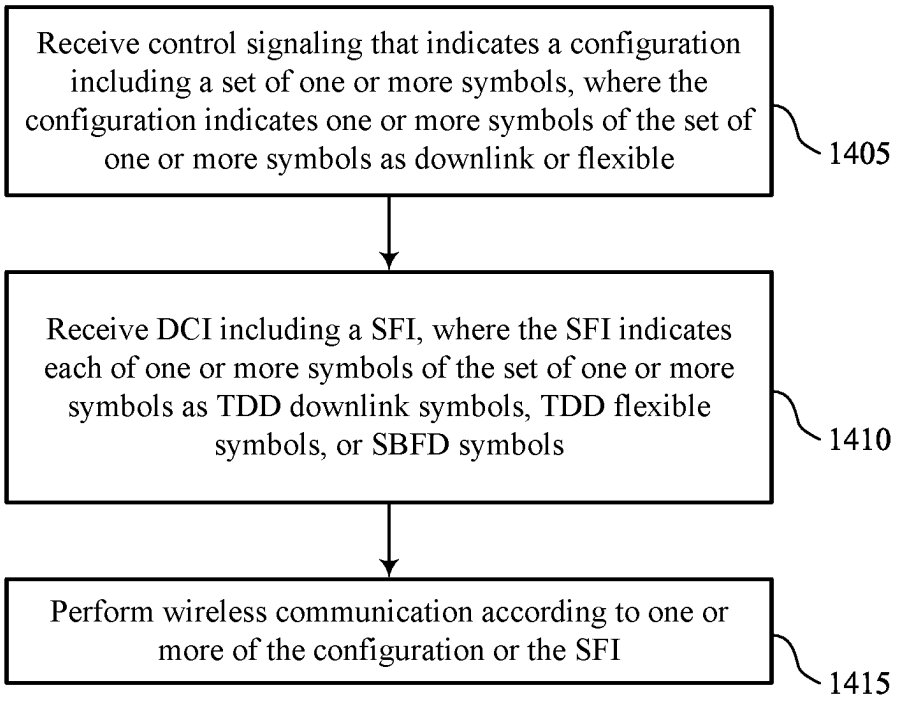

Receive control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible
1405
Receive DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols
1410
Perform wireless communication according to one or more of the configuration or the SFI
1415
1400

FIG. 14

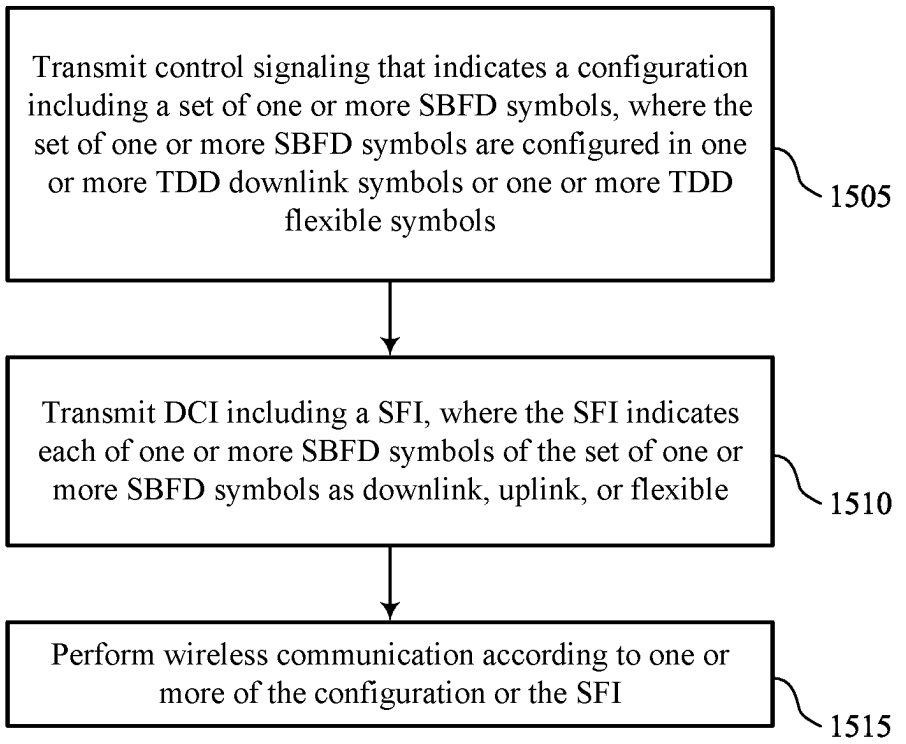

Transmit control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols
1505
Transmit DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible
1510
Perform wireless communication according to one or more of the configuration or the SFI
1515
1500

FIG. 15

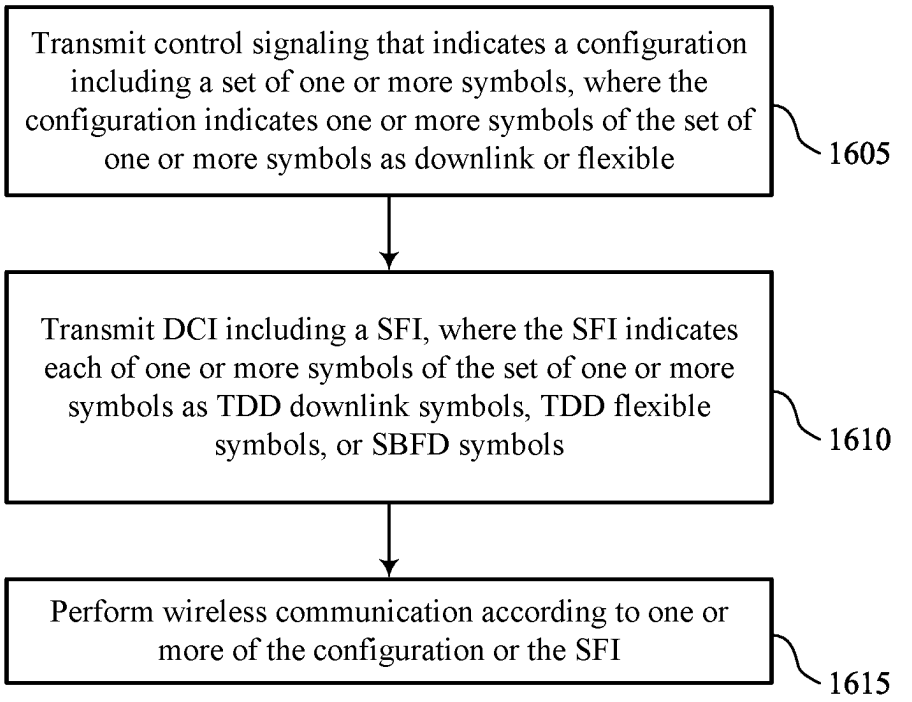

Transmit control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible
1605
Transmit DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols
1610
Perform wireless communication according to one or more of the configuration or the SFI
1615
1600

FIG. 16

SUBBAND FULL DUPLEX SYMBOL INFORMATION VIA SLOT FORMAT INDICATORS

FIELD OF TECHNOLOGY

[0001] The following relates to wireless communications, including subband full duplex (SBFD) symbol information via slot format indicators (SFIs).

BACKGROUND

[0002] Wireless communications systems are widely deployed to provide various types of communication content such as voice, video, packet data, messaging, broadcast, and so on. These systems may be capable of supporting communication with multiple users by sharing the available system resources (e.g., time, frequency, and power). Examples of such multiple-access systems include fourth generation (4G) systems such as Long Term Evolution (LTE) systems, LTE-Advanced (LTE-A) systems, or LTE-A Pro systems, and fifth generation (5G) systems which may be referred to as New Radio (NR) systems. These systems may employ technologies such as code division multiple access (CDMA), time division multiple access (TDMA), frequency division multiple access (FDMA), orthogonal FDMA (OFDMA), or discrete Fourier transform spread orthogonal frequency division multiplexing (DFT-S-OFDM). A wireless multiple-access communications system may include one or more base stations, each supporting wireless communication for communication devices, which may be known as user equipment (UE).

SUMMARY

[0003] The described techniques relate to improved methods, systems, devices, and apparatuses that support SBFD symbol information via SFIs. For example, the described techniques may enable a network entity to transmit an SFI to a wireless device to assign an SBFD symbol as a downlink symbol, an uplink symbol, or a flexible symbol. The SFI may indicate for the wireless device to fallback to a downlink time division duplex (TDD) slot format, an uplink TDD slot format, or a flexible TDD slot format. In some examples, the SFI may indicate that an SBFD symbol is reserved, and the wireless device may not communicate (e.g., refrain from receiving a downlink communication or transmitting an uplink communication, or both) via the downlink or flexible subbands and/or the uplink subbands.

[0004] In some examples, the network entity may transmit an SFI configuring the wireless device with a symbol pattern that may include an SBFD symbol type. That is, the wireless device may receive a configuration for an SFI table, or other data structure, indicating a set of symbol formats including an SBFD symbol format. Accordingly, the SFI may indicate for the wireless device to use an SBFD symbol format. Additionally, or alternatively, the wireless device may be configured with one or more time patterns (e.g., patterns of slots including SBFD symbols), and the SFI may indicate a time pattern of the one or more time patterns for the wireless device to apply to one or more symbols.

[0005] A method for wireless communications by a UE is described. The method may include receiving control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more time division duplexing (TDD) flexible symbols, monitoring for downlink control information (DCI) including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible, and performing wireless communication according to one or more of the configuration or the SFI.

[0006] A UE for wireless communications is described. The UE may include one or more memories storing processor executable code, and one or more processors coupled with the one or more memories. The one or more processors may individually or collectively be operable to execute the code to cause the UE to receive control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols, monitor for DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible, and perform wireless communication according to one or more of the configuration or the SFI.

[0007] Another UE for wireless communications is described. The UE may include means for receiving control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols, means for monitoring for DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible, and means for performing wireless communication according to one or more of the configuration or the SFI.

[0008] A non-transitory computer-readable medium storing code for wireless communications is described. The code may include instructions executable by one or more processors to receive control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols, monitor for DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible, and perform wireless communication according to one or more of the configuration or the SFI.

[0009] In some examples of the method, UE, and non-transitory computer-readable medium described herein, the set of one or more SBFD symbols may be configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols by converting the one or more TDD downlink symbols or the one or more TDD flexible symbols to one or more SBFD symbols.

[0010] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for receiving a downlink communication via one or more downlink subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a physical downlink control channel (PDCCH) transmission, a physical downlink shared channel (PDSCH) transmission, a channel state information reference signal (CSI-RS) transmission, or a positioning reference signal (PRS) transmission.

[0011] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for transmitting an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a physical uplink control channel (PUCCH) transmission, a physical uplink shared channel (PUSCH) transmission, a sounding reference signal (SRS) transmission, or a physical random access channel (PRACH) transmission.

[0012] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for receiving a downlink communication or transmitting an uplink communication based on a corresponding DCI, where receiving the downlink communication may be based on canceling the uplink communication associated with one or more uplink subbands, and where transmitting the uplink communication may be based on dropping the downlink communication associated with one or more downlink subbands.

[0013] In some examples of the method, UE, and non-transitory computer-readable medium described herein, the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols may be configured in the one or more TDD downlink symbol and the method, apparatuses, and non-transitory computer-readable medium may include further operations, features, means, or instructions for refraining from receiving a downlink communication or transmitting an uplink communication via the set of one or more SBFD symbols indicated as flexible.

[0014] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for receiving a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0015] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for receiving a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0016] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for transmitting an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a physical random access channel (PRACH) transmission configured by higher-layer signaling.

[0017] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for transmitting an uplink communication via one or more uplink subbands and one or more flexible subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission.

[0018] Some examples of the method, UE, and non-transitory computer-readable medium described herein may further include operations, features, means, or instructions for determining an absence of the SFI that indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible.

[0019] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for receiving a downlink communication via one or more TDD downlink symbols based on the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink.

[0020] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for performing the wireless communication via the one or more SBFD symbols or one or more TDD flexible symbols.

[0021] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for transmitting one or more messages via the one or more SBFD symbols.

[0022] In some examples of the method, UE, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for performing an uplink communication irrespective of the SFI and declaring an error associated with configuring the one or more SBFD symbols of the set of one or more SBFD symbols in the one or more TDD flexible symbols or the one or more TDD downlink symbols.

[0023] A method for wireless communications by a UE is described. The method may include receiving control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible, receiving DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols, and performing wireless communication according to one or more of the configuration or the SFI.

[0024] A UE for wireless communications is described. The UE may include one or more memories storing processor executable code, and one or more processors coupled with the one or more memories. The one or more processors may individually or collectively be operable to execute the code to cause the UE to receive control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible, receive DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols,

or SBFD symbols, and perform wireless communication according to one or more of the configuration or the SFI.

[0025] Another UE for wireless communications is described. The UE may include means for receiving control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible, means for receiving DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols, and means for performing wireless communication according to one or more of the configuration or the SFI.

[0026] A non-transitory computer-readable medium storing code for wireless communications is described. The code may include instructions executable by one or more processors to receive control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible, receive DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols, and perform wireless communication according to one or more of the configuration or the SFI.

[0027] In some examples of the method, UE, and non-transitory computer-readable medium described herein, the configuration includes at least one SFI table including one or more entries indicatives of the set of one or more symbols as one or more of downlink, uplink, flexible, or SBFB.

[0028] Some examples of the method, UE, and non-transitory computer-readable medium described herein may further include operations, features, means, or instructions for receiving a radio resource control signaling that indicates a second configuration including a set of one or more SBFD symbol patterns and where performing wireless communication may be based on at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0029] In some examples of the method, UE, and non-transitory computer-readable medium described herein, the SFI includes a bitfield that enables the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0030] In some examples of the method, UE, and non-transitory computer-readable medium described herein, the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns may be applicable to one or more symbols associated with the SFI and the at least one SBFD symbol pattern may be applicable until a second SFI enables at least one second SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0031] A method for wireless communications by a network entity is described. The method may include transmitting control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols, transmitting DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible, and performing wireless communication according to one or more of the configuration or the SFI.

[0032] A network entity for wireless communications is described. The network entity may include one or more memories storing processor executable code, and one or more processors coupled with the one or more memories. The one or more processors may individually or collectively be operable to execute the code to cause the network entity to transmit control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols, transmit DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible, and perform wireless communication according to one or more of the configuration or the SFI.

[0033] Another network entity for wireless communications is described. The network entity may include means for transmitting control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols, means for transmitting DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible, and means for performing wireless communication according to one or more of the configuration or the SFI.

[0034] A non-transitory computer-readable medium storing code for wireless communications is described. The code may include instructions executable by one or more processors to transmit control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols, transmit DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible, and perform wireless communication according to one or more of the configuration or the SFI.

[0035] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, the set of one or more SBFD symbols may be configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols by converting the one or more TDD downlink symbols or the one or more TDD flexible symbols to one or more SBFD symbols.

[0036] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for transmitting a downlink communication via one or more downlink subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0037] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for receiving an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a physical random access channel (PRACH) transmission.

[0038] In some examples of the method, network entities, and non-transitory computer-readable medium described

herein, performing wireless communication may include operations, features, means, or instructions for transmitting a downlink communication or transmitting an uplink communication based on a corresponding DCI, where receiving the downlink communication may be based on canceling the uplink communication associated with one or more uplink subbands, and where transmitting the uplink communication may be based on dropping the downlink communication associated with one or more downlink subbands.

[0039] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for transmitting a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0040] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for transmitting a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0041] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for receiving an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a physical random access channel (PRACH) transmission configured by higher-layer signaling.

[0042] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for receiving an uplink communication via one or more uplink subbands and one or more flexible subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a physical random access channel (PRACH) transmission.

[0043] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for transmitting a downlink communication via one or more TDD downlink symbols based on the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink.

[0044] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for performing the wireless communication via the one or more SBFD symbols or one or more TDD flexible symbols.

[0045] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for receiving one or more messages via the one or more SBFD symbols.

[0046] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, performing wireless communication may include operations, features, means, or instructions for performing an uplink communication irrespective of the SFI.

[0047] A method for wireless communications by a network entity is described. The method may include transmitting control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible, transmitting DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols, and performing wireless communication according to one or more of the configuration or the SFI.

[0048] A network entity for wireless communications is described. The network entity may include one or more memories storing processor executable code, and one or more processors coupled with the one or more memories. The one or more processors may individually or collectively be operable to execute the code to cause the network entity to transmit control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible, transmit DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols, and perform wireless communication according to one or more of the configuration or the SFI.

[0049] Another network entity for wireless communications is described. The network entity may include means for transmitting control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible, means for transmitting DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols, and means for performing wireless communication according to one or more of the configuration or the SFI.

[0050] A non-transitory computer-readable medium storing code for wireless communications is described. The code may include instructions executable by one or more processors to transmit control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible, transmit DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols, and perform wireless communication according to one or more of the configuration or the SFI.

[0051] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, the configuration includes at least one SFI table including one or more entries indicatives of the set of one or more symbols as one or more of downlink, uplink, flexible, or SBFB.

[0052] Some examples of the method, network entities, and non-transitory computer-readable medium described herein may further include operations, features, means, or instructions for transmitting a radio resource control signaling that indicates a second configuration including a set of one or more SBFD symbol patterns and where performing wireless communication may be based on at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0053] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, the SFI includes a bitfield that enables the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0054] In some examples of the method, network entities, and non-transitory computer-readable medium described herein, the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns may be applicable to one or more symbols associated with the SFI and the at least one SBFD symbol pattern may be applicable until a second SFI enables at least one second SBFD symbol pattern of the set of one or more SBFD symbol patterns.

BRIEF DESCRIPTION OF THE DRAWINGS

[0055] FIGS. **1** and **2** show examples of wireless communications systems that support SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure.

[0056] FIGS. **3** and **4** show examples of process flows that support SBFD symbol information via slot format indicators in accordance with one or more aspects of the present disclosure.

[0057] FIGS. **5** and **6** show block diagrams of devices that support SBFD symbol information via slot format indicators in accordance with one or more aspects of the present disclosure.

[0058] FIG. **7** shows a block diagram of a communications manager that supports SBFD symbol information via slot format indicators in accordance with one or more aspects of the present disclosure.

[0059] FIG. **8** shows a diagram of a system including a device that supports SBFD symbol information via slot format indicators in accordance with one or more aspects of the present disclosure.

[0060] FIGS. **9** and **10** show block diagrams of devices that support SBFD symbol information via slot format indicators in accordance with one or more aspects of the present disclosure.

[0061] FIG. **11** shows a block diagram of a communications manager that supports SBFD symbol information via slot format indicators in accordance with one or more aspects of the present disclosure.

[0062] FIG. **12** shows a diagram of a system including a device that supports SBFD symbol information via slot format indicators in accordance with one or more aspects of the present disclosure.

[0063] FIGS. **13** through **16** show flowcharts illustrating methods that support SBFD symbol information via slot format indicators in accordance with one or more aspects of the present disclosure.

DETAILED DESCRIPTION

[0064] A wireless communication system may support duplex communications, in which wireless devices (e.g., a UE, a network entity) may perform wireless communication. In some cases, the wireless communication system may support TDD communications, in which the wireless devices may perform wireless communication (e.g., downlink communication, uplink communication) on a same frequency resource (e.g., a single radio frequency, a single radio frequency subband, a single radio frequency band) and over one or multiple different time resources (e.g., symbols, slots). TDD techniques may thereby enable both downlink communication and uplink communication over a same frequency resource and using different time resources (e.g., symbols, slots) for each of the wireless devices. In some other cases, the wireless communication system may support SBFD communications, in which the wireless devices may perform downlink communication over a downlink or flexible subband and uplink communication over an uplink subband in a same time resource (e.g., a same symbol, a same slot). SBFD techniques may enable higher throughput and reduced latency for uplink communications as compared to TDD techniques, wherein most time resources (e.g., symbols, slots) may be allocated for downlink communication.

[0065] In some examples, a network entity may configure a wireless device (e.g., a UE) with a symbol pattern that designates one or more time resources (e.g., symbols, slots) as TDD uplink resources, TDD downlink resources, and/or TDD flexible resources. The wireless device may receive a configuration that indicates for the wireless device to use one or more of the TDD downlink resources or the TDD flexible resources as SBFD resources (e.g., SBFD symbols, SBFD slots). Additionally, or alternatively, the network entity may transmit a SFI to the wireless device, which may assign one or more of the time resources (e.g., TDD flexible symbols) as a downlink symbol, an uplink symbol, or a flexible symbol. However, for a wireless device supporting SBFD symbols, the wireless device may not expect (e.g., monitor for) an SFI indicating a slot format for one or more SBFD symbols or one or more subbands (e.g., flexible subbands) within an SBFD symbol.

[0066] Various aspects of the present disclosure relate to enabling an SFI to assign an SBFD symbol as a downlink symbol, an uplink symbol, or a flexible symbol. A network entity may transmit an SFI indicating for a wireless device (e.g., a UE) to receive via one or more downlink subbands or flexible subbands within an SBFD symbol (e.g., and to refrain from transmitting via uplink subbands) or to transmit via the uplink subbands (e.g., and to refrain from using the downlink or flexible subbands). The SFI may indicate for the wireless device to fallback to a downlink TDD slot format, an uplink TDD slot format, or a flexible TDD slot format. In some examples, the SFI may indicate that an SBFD symbol is reserved, and the wireless device may not communicate via the downlink or flexible subbands and/or the uplink subbands.

[0067] In some examples, the network entity may transmit an SFI configuring the wireless device with a symbol pattern which may include an SBFD symbol type. That is, the wireless device may receive a configuration for an SFI table with a set of symbol formats including an SBFD symbol format. Accordingly, the SFI may indicate for the wireless device to use an SBFD symbol format. Additionally, or

alternatively, the wireless device may be configured with one or more time patterns (e.g., patterns of slots including SBFD symbols), and the SFI may indicate a time pattern of the one or more time patterns for the wireless device to apply to one or more symbols.

[0068] Aspects of the disclosure are initially described in the context of wireless communications systems. Aspects of the disclosure are further illustrated by and described with reference to process flow diagrams, apparatus diagrams, system diagrams, and flowcharts that relate to SBFD symbol information via SFIs.

[0069] FIG. **1** shows an example of a wireless communications system **100** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The wireless communications system **100** may include one or more devices, such as one or more network devices (e.g., network entities **105**), one or more UEs **115**, and a core network **130**. In some examples, the wireless communications system **100** may be a LTE network, an LTE-A network, an LTE-A Pro network, a NR network, or a network operating in accordance with other systems and radio technologies, including future systems and radio technologies not explicitly mentioned herein.

[0070] The network entities **105** may be dispersed throughout a geographic area to form the wireless communications system **100** and may include devices in different forms or having different capabilities. In various examples, a network entity **105** may be referred to as a network element, a mobility element, a radio access network (RAN) node, or network equipment, among other nomenclature. In some examples, network entities **105** and Ues **115** may wirelessly communicate via communication link(s) **125** (e.g., a radio frequency (RF) access link). For example, a network entity **105** may support a coverage area **110** (e.g., a geographic coverage area) over which the Ues **115** and the network entity **105** may establish the communication link(s) **125**. The coverage area **110** may be an example of a geographic area over which a network entity **105** and a UE **115** may support the communication of signals according to one or more radio access technologies (RATs).

[0071] The Ues **115** may be dispersed throughout a coverage area **110** of the wireless communications system **100**, and each UE **115** may be stationary, or mobile, or both at different times. The Ues **115** may be devices in different forms or having different capabilities. Some example Ues **115** are illustrated in FIG. **1**. The Ues **115** described herein may be capable of supporting communications with various types of devices in the wireless communications system **100** (e.g., other wireless communication devices, including Ues **115** or network entities **105**), as shown in FIG. **1**.

[0072] As described herein, a node of the wireless communications system **100**, which may be referred to as a network node, or a wireless node, may be a network entity **105** (e.g., any network entity described herein), a UE **115** (e.g., any UE described herein), a network controller, an apparatus, a device, a computing system, one or more components, or another suitable processing entity configured to perform any of the techniques described herein. For example, a node may be a UE **115**. As another example, a node may be a network entity **105**. As another example, a first node may be configured to communicate with a second node or a third node. In one aspect of this example, the first node may be a UE **115**, the second node may be a network entity **105**, and the third node may be a UE **115**. In another aspect of this example, the first node may be a UE **115**, the second node may be a network entity **105**, and the third node may be a network entity **105**. In yet other aspects of this example, the first, second, and third nodes may be different relative to these examples. Similarly, reference to a UE **115**, network entity **105**, apparatus, device, computing system, or the like may include disclosure of the UE **115**, network entity **105**, apparatus, device, computing system, or the like being a node. For example, disclosure that a UE **115** is configured to receive information from a network entity **105** also discloses that a first node is configured to receive information from a second node.

[0073] In some examples, network entities **105** may communicate with a core network **130**, or with one another, or both. For example, network entities **105** may communicate with the core network **130** via backhaul communication link(s) **120** (e.g., in accordance with an S1, N2, N3, or other interface protocol). In some examples, network entities **105** may communicate with one another via backhaul communication link(s) **120** (e.g., in accordance with an X2, Xn, or other interface protocol) either directly (e.g., directly between network entities **105**) or indirectly (e.g., via the core network **130**). In some examples, network entities **105** may communicate with one another via a midhaul communication link **162** (e.g., in accordance with a midhaul interface protocol) or a fronthaul communication link **168** (e.g., in accordance with a fronthaul interface protocol), or any combination thereof. The backhaul communication link(s) **120**, midhaul communication links **162**, or fronthaul communication links **168** may be or include one or more wired links (e.g., an electrical link, an optical fiber link) or one or more wireless links (e.g., a radio link, a wireless optical link), among other examples or various combinations thereof. A UE **115** may communicate with the core network **130** via a communication link **155**.

[0074] One or more of the network entities **105** or network equipment described herein may include or may be referred to as a base station **140** (e.g., a base transceiver station, a radio base station, an NR base station, an access point, a radio transceiver, a NodeB, an eNodeB (eNB), a next-generation NodeB or giga-NodeB (either of which may be referred to as a gNB), a 5G NB, a next-generation eNB (ng-eNB), a Home NodeB, a Home eNodeB, or other suitable terminology). In some examples, a network entity **105** (e.g., a base station **140**) may be implemented in an aggregated (e.g., monolithic, standalone) base station architecture, which may be configured to utilize a protocol stack that is physically or logically integrated within one network entity (e.g., a network entity **105** or a single RAN node, such as a base station **140**).

[0075] In some examples, a network entity **105** may be implemented in a disaggregated architecture (e.g., a disaggregated base station architecture, a disaggregated RAN architecture), which may be configured to utilize a protocol stack that is physically or logically distributed among multiple network entities (e.g., network entities **105**), such as an integrated access and backhaul (IAB) network, an open RAN (O-RAN) (e.g., a network configuration sponsored by the O-RAN Alliance), or a virtualized RAN (vRAN) (e.g., a cloud RAN (C-RAN)). For example, a network entity **105** may include one or more of a central unit (CU), such as a CU **160**, a distributed unit (DU), such as a DU **165**, a radio unit (RU), such as an RU **170**, a RAN Intelligent Controller (RIC), such as an RIC **175** (e.g., a Near-Real Time RIC

(Near-RT RIC), a Non-Real Time RIC (Non-RT RIC)), a Service Management and Orchestration (SMO) system, such as an SMO system **180**, or any combination thereof. An RU **170** may also be referred to as a radio head, a smart radio head, a remote radio head (RRH), a remote radio unit (RRU), or a transmission reception point (TRP). One or more components of the network entities **105** in a disaggregated RAN architecture may be co-located, or one or more components of the network entities **105** may be located in distributed locations (e.g., separate physical locations). In some examples, one or more of the network entities **105** of a disaggregated RAN architecture may be implemented as virtual units (e.g., a virtual CU (VCU), a virtual DU (VDU), a virtual RU (VRU)).

[0076] The split of functionality between a CU **160**, a DU **165**, and an RU **170** is flexible and may support different functionalities depending on which functions (e.g., network layer functions, protocol layer functions, baseband functions, RF functions, or any combinations thereof) are performed at a CU **160**, a DU **165**, or an RU **170**. For example, a functional split of a protocol stack may be employed between a CU **160** and a DU **165** such that the CU **160** may support one or more layers of the protocol stack and the DU **165** may support one or more different layers of the protocol stack. In some examples, the CU **160** may host upper protocol layer (e.g., layer 3 (L3), layer 2 (L2)) functionality and signaling (e.g., Radio Resource Control (RRC), service data adaption protocol (SDAP), Packet Data Convergence Protocol (PDCP)). The CU **160** (e.g., one or more Cus) may be connected to a DU **165** (e.g., one or more Dus) or an RU **170** (e.g., one or more Rus), or some combination thereof, and the Dus **165**, Rus **170**, or both may host lower protocol layers, such as layer 1 (L1) (e.g., physical (PHY) layer) or L2 (e.g., radio link control (RLC) layer, medium access control (MAC) layer) functionality and signaling, and may each be at least partially controlled by the CU **160**. Additionally, or alternatively, a functional split of the protocol stack may be employed between a DU **165** and an RU **170** such that the DU **165** may support one or more layers of the protocol stack and the RU **170** may support one or more different layers of the protocol stack. The DU **165** may support one or multiple different cells (e.g., via one or multiple different Rus, such as an RU **170**). In some cases, a functional split between a CU **160** and a DU **165** or between a DU **165** and an RU **170** may be within a protocol layer (e.g., some functions for a protocol layer may be performed by one of a CU **160**, a DU **165**, or an RU **170**, while other functions of the protocol layer are performed by a different one of the CU **160**, the DU **165**, or the RU **170**). A CU **160** may be functionally split further into CU control plane (CU-CP) and CU user plane (CU-UP) functions. A CU **160** may be connected to a DU **165** via a midhaul communication link **162** (e.g., F1, F1-c, F1-u), and a DU **165** may be connected to an RU **170** via a fronthaul communication link **168** (e.g., open fronthaul (FH) interface). In some examples, a midhaul communication link **162** or a fronthaul communication link **168** may be implemented in accordance with an interface (e.g., a channel) between layers of a protocol stack supported by respective network entities (e.g., one or more of the network entities **105**) that are in communication via such communication links.

[0077] In some wireless communications systems (e.g., the wireless communications system **100**), infrastructure and spectral resources for radio access may support wireless backhaul link capabilities to supplement wired backhaul connections, providing an IAB network architecture (e.g., to a core network **130**). In some cases, in an IAB network, one or more of the network entities **105** (e.g., network entities **105** or IAB node(s) **104**) may be partially controlled by each other. The IAB node(s) **104** may be referred to as a donor entity or an IAB donor. A DU **165** or an RU **170** may be partially controlled by a CU **160** associated with a network entity **105** or base station **140** (such as a donor network entity or a donor base station). The one or more donor entities (e.g., IAB donors) may be in communication with one or more additional devices (e.g., IAB node(s) **104**) via supported access and backhaul links (e.g., backhaul communication link(s) **120**). IAB node(s) **104** may include an IAB mobile termination (IAB-MT) controlled (e.g., scheduled) by one or more Dus (e.g., Dus **165**) of a coupled IAB donor. An IAB-MT may be equipped with an independent set of antennas for relay of communications with Ues **115** or may share the same antennas (e.g., of an RU **170**) of IAB node(s) **104** used for access via the DU **165** of the IAB node(s) **104** (e.g., referred to as virtual IAB-MT (vIAB-MT)). In some examples, the IAB node(s) **104** may include one or more Dus (e.g., Dus **165**) that support communication links with additional entities (e.g., IAB node(s) **104**, Ues **115**) within the relay chain or configuration of the access network (e.g., downstream). In such cases, one or more components of the disaggregated RAN architecture (e.g., the IAB node(s) **104** or components of the IAB node(s) **104**) may be configured to operate according to the techniques described herein.

[0078] In the case of the techniques described herein applied in the context of a disaggregated RAN architecture, one or more components of the disaggregated RAN architecture may be configured to support test as described herein. For example, some operations described as being performed by a UE **115** or a network entity **105** (e.g., a base station **140**) may additionally, or alternatively, be performed by one or more components of the disaggregated RAN architecture (e.g., components such as an IAB node, a DU **165**, a CU **160**, an RU **170**, an RIC **175**, an SMO system **180**).

[0079] A UE **115** may include or may be referred to as a mobile device, a wireless device, a remote device, a handheld device, or a subscriber device, or some other suitable terminology, where the "device" may also be referred to as a unit, a station, a terminal, or a client, among other examples. A UE **115** may also include or may be referred to as a personal electronic device such as a cellular phone, a personal digital assistant (PDA), a tablet computer, a laptop computer, or a personal computer. In some examples, a UE **115** may include or be referred to as a wireless local loop (WLL) station, an Internet of Things (IoT) device, an Internet of Everything (IoE) device, or a machine type communications (MTC) device, among other examples, which may be implemented in various objects such as appliances, vehicles, or meters, among other examples.

[0080] The Ues **115** described herein may be able to communicate with various types of devices, such as Ues **115** that may sometimes operate as relays, as well as the network entities **105** and the network equipment including macro eNBs or gNBs, small cell eNBs or gNBs, or relay base stations, among other examples, as shown in FIG. **1**.

[0081] The Ues **115** and the network entities **105** may wirelessly communicate with one another via the commu-

nication link(s) **125** (e.g., one or more access links) using resources associated with one or more carriers. The term "carrier" may refer to a set of RF spectrum resources having a defined PHY layer structure for supporting the communication link(s) **125**. For example, a carrier used for the communication link(s) **125** may include a portion of an RF spectrum band (e.g., a bandwidth part (BWP)) that is operated according to one or more PHY layer channels for a given RAT (e.g., LTE, LTE-A, LTE-A Pro, NR). Each PHY layer channel may carry acquisition signaling (e.g., synchronization signals, system information), control signaling that coordinates operation for the carrier, user data, or other signaling. The wireless communications system **100** may support communication with a UE **115** using carrier aggregation or multi-carrier operation. A UE **115** may be configured with multiple downlink component carriers and one or more uplink component carriers according to a carrier aggregation configuration. Carrier aggregation may be used with both frequency division duplexing (FDD) and time division duplexing (TDD) component carriers. Communication between a network entity **105** and other devices may refer to communication between the devices and any portion (e.g., entity, sub-entity) of a network entity **105**. For example, the terms "transmitting," "receiving," or "communicating," when referring to a network entity **105**, may refer to any portion of a network entity **105** (e.g., a base station **140**, a CU **160**, a DU **165**, a RU **170**) of a RAN communicating with another device (e.g., directly or via one or more other network entities, such as one or more of the network entities **105**).

[0082] In some examples, such as in a carrier aggregation configuration, a carrier may have acquisition signaling or control signaling that coordinates operations for other carriers. A carrier may be associated with a frequency channel (e.g., an evolved universal mobile telecommunication system terrestrial radio access (E-UTRA) absolute RF channel number (EARFCN)) and may be identified according to a channel raster for discovery by the Ues **115**. A carrier may be operated in a standalone mode, in which case initial acquisition and connection may be conducted by the Ues **115** via the carrier, or the carrier may be operated in a non-standalone mode, in which case a connection is anchored using a different carrier (e.g., of the same or a different RAT).

[0083] The communication link(s) **125** of the wireless communications system **100** may include downlink transmissions (e.g., forward link transmissions) from a network entity **105** to a UE **115**, uplink transmissions (e.g., return link transmissions) from a UE **115** to a network entity **105**, or both, among other configurations of transmissions. Carriers may carry downlink or uplink communications (e.g., in an FDD mode) or may be configured to carry downlink and uplink communications (e.g., in a TDD mode).

[0084] A carrier may be associated with a particular bandwidth of the RF spectrum and, in some examples, the carrier bandwidth may be referred to as a "system bandwidth" of the carrier or the wireless communications system **100**. For example, the carrier bandwidth may be one of a set of bandwidths for carriers of a particular RAT (e.g., 1.4, 3, 5, 10, 15, 20, 40, or 80 megahertz (MHz)). Devices of the wireless communications system **100** (e.g., the network entities **105**, the Ues **115**, or both) may have hardware configurations that support communications using a particular carrier bandwidth or may be configurable to support communications using one of a set of carrier bandwidths. In some examples, the wireless communications system **100** may include network entities **105** or Ues **115** that support concurrent communications using carriers associated with multiple carrier bandwidths. In some examples, each served UE **115** may be configured for operating using portions (e.g., a sub-band, a BWP) or all of a carrier bandwidth.

[0085] Signal waveforms transmitted via a carrier may be made up of multiple subcarriers (e.g., using multi-carrier modulation (MCM) techniques such as orthogonal frequency division multiplexing (OFDM) or discrete Fourier transform spread OFDM (DFT-S-OFDM)). In a system employing MCM techniques, a resource element may refer to resources of one symbol period (e.g., a duration of one modulation symbol) and one subcarrier, in which case the symbol period and subcarrier spacing may be inversely related. The quantity of bits carried by each resource element may depend on the modulation scheme (e.g., the order of the modulation scheme, the coding rate of the modulation scheme, or both), such that a relatively higher quantity of resource elements (e.g., in a transmission duration) and a relatively higher order of a modulation scheme may correspond to a relatively higher rate of communication. A wireless communications resource may refer to a combination of an RF spectrum resource, a time resource, and a spatial resource (e.g., a spatial layer, a beam), and the use of multiple spatial resources may increase the data rate or data integrity for communications with a UE **115**.

[0086] One or more numerologies for a carrier may be supported, and a numerology may include a subcarrier spacing (Δf) and a cyclic prefix. A carrier may be divided into one or more BWPs having the same or different numerologies. In some examples, a UE **115** may be configured with multiple BWPs. In some examples, a single BWP for a carrier may be active at a given time and communications for the UE **115** may be restricted to one or more active BWPs.

[0087] The time intervals for the network entities **105** or the Ues **115** may be expressed in multiples of a basic time unit which may, for example, refer to a sampling period of $T_s=1/(\Delta f_{max} \cdot N_f)$ seconds, for which Δf_{max} may represent a supported subcarrier spacing, and N_f may represent a supported discrete Fourier transform (DFT) size. Time intervals of a communications resource may be organized according to radio frames each having a specified duration (e.g., 10 milliseconds (ms)). Each radio frame may be identified by a system frame number (SFN) (e.g., ranging from 0 to 1023).

[0088] Each frame may include multiple consecutively-numbered subframes or slots, and each subframe or slot may have the same duration. In some examples, a frame may be divided (e.g., in the time domain) into subframes, and each subframe may be further divided into a quantity of slots. Alternatively, each frame may include a variable quantity of slots, and the quantity of slots may depend on subcarrier spacing. Each slot may include a quantity of symbol periods (e.g., depending on the length of the cyclic prefix prepended to each symbol period). In some wireless communications systems, such as the wireless communications system **100**, a slot may further be divided into multiple mini-slots associated with one or more symbols. Excluding the cyclic prefix, each symbol period may be associated with one or more (e.g., N_f) sampling periods. The duration of a symbol period may depend on the subcarrier spacing or frequency band of operation.

[0089] A subframe, a slot, a mini-slot, or a symbol may be the smallest scheduling unit (e.g., in the time domain) of the wireless communications system **100** and may be referred to as a transmission time interval (TTI). In some examples, the TTI duration (e.g., a quantity of symbol periods in a TTI) may be variable. Additionally, or alternatively, the smallest scheduling unit of the wireless communications system **100** may be dynamically selected (e.g., in bursts of shortened TTIs (STTIs)).

[0090] Physical channels may be multiplexed for communication using a carrier according to various techniques. A physical control channel and a physical data channel may be multiplexed for signaling via a downlink carrier, for example, using one or more of time division multiplexing (TDM) techniques, frequency division multiplexing (FDM) techniques, or hybrid TDM-FDM techniques. A control region (e.g., a control resource set (CORESET)) for a physical control channel may be defined by a set of symbol periods and may extend across the system bandwidth or a subset of the system bandwidth of the carrier. One or more control regions (e.g., CORESETs) may be configured for a set of the Ues **115**. For example, one or more of the Ues **115** may monitor or search control regions for control information according to one or more search space sets, and each search space set may include one or multiple control channel candidates in one or more aggregation levels arranged in a cascaded manner. An aggregation level for a control channel candidate may refer to an amount of control channel resources (e.g., control channel elements (CCEs)) associated with encoded information for a control information format having a given payload size. Search space sets may include common search space sets configured for sending control information to Ues **115** (e.g., one or more Ues) or may include UE-specific search space sets for sending control information to a UE **115** (e.g., a specific UE).

[0091] In some examples, a network entity **105** (e.g., a base station **140**, an RU **170**) may be movable and therefore provide communication coverage for a moving coverage area, such as the coverage area **110**. In some examples, coverage areas **110** (e.g., different coverage areas) associated with different technologies may overlap, but the coverage areas **110** (e.g., different coverage areas) may be supported by the same network entity (e.g., a network entity **105**). In some other examples, overlapping coverage areas, such as a coverage area **110**, associated with different technologies may be supported by different network entities (e.g., the network entities **105**). The wireless communications system **100** may include, for example, a heterogeneous network in which different types of the network entities **105** support communications for coverage areas **110** (e.g., different coverage areas) using the same or different RATs.

[0092] The wireless communications system **100** may be configured to support ultra-reliable communications or low-latency communications, or various combinations thereof. For example, the wireless communications system **100** may be configured to support ultra-reliable low-latency communications (URLLC). The Ues **115** may be designed to support ultra-reliable, low-latency, or critical functions. Ultra-reliable communications may include private communication or group communication and may be supported by one or more services such as push-to-talk, video, or data. Support for ultra-reliable, low-latency functions may include prioritization of services, and such services may be used for public safety or general commercial applications. The terms ultra-reliable, low-latency, and ultra-reliable low-latency may be used interchangeably herein.

[0093] In some examples, a UE **115** may be configured to support communicating directly with other Ues (e.g., one or more of the Ues **115**) via a device-to-device (D2D) communication link, such as a D2D communication link **135** (e.g., in accordance with a peer-to-peer (P2P), D2D, or sidelink protocol). In some examples, one or more Ues **115** of a group that are performing D2D communications may be within the coverage area **110** of a network entity **105** (e.g., a base station **140**, an RU **170**), which may support aspects of such D2D communications being configured by (e.g., scheduled by) the network entity **105**. In some examples, one or more Ues **115** of such a group may be outside the coverage area **110** of a network entity **105** or may be otherwise unable to or not configured to receive transmissions from a network entity **105**. In some examples, groups of the Ues **115** communicating via D2D communications may support a one-to-many (1:M) system in which each UE **115** transmits to one or more of the Ues **115** in the group. In some examples, a network entity **105** may facilitate the scheduling of resources for D2D communications. In some other examples, D2D communications may be carried out between the Ues **115** without an involvement of a network entity **105**.

[0094] The core network **130** may provide user authentication, access authorization, tracking, Internet Protocol (IP) connectivity, and other access, routing, or mobility functions. The core network **130** may be an evolved packet core (EPC) or 5G core (5GC), which may include at least one control plane entity that manages access and mobility (e.g., a mobility management entity (MME), an access and mobility management function (AMF)) and at least one user plane entity that routes packets or interconnects to external networks (e.g., a serving gateway (S-GW), a Packet Data Network (PDN) gateway (P-GW), or a user plane function (UPF)). The control plane entity may manage non-access stratum (NAS) functions such as mobility, authentication, and bearer management for the Ues **115** served by the network entities **105** (e.g., base stations **140**) associated with the core network **130**. User IP packets may be transferred through the user plane entity, which may provide IP address allocation as well as other functions. The user plane entity may be connected to IP services **150** for one or more network operators. The IP services **150** may include access to the Internet, Intranet(s), an IP Multimedia Subsystem (IMS), or a Packet-Switched Streaming Service.

[0095] The wireless communications system **100** may operate using one or more frequency bands, which may be in the range of 300 megahertz (MHz) to 300 gigahertz (GHz). Generally, the region from 300 MHz to 3 GHz is known as the ultra-high frequency (UHF) region or decimeter band because the wavelengths range from approximately one decimeter to one meter in length. UHF waves may be blocked or redirected by buildings and environmental features, which may be referred to as clusters, but the waves may penetrate structures sufficiently for a macro cell to provide service to the Ues **115** located indoors. Communications using UHF waves may be associated with smaller antennas and shorter ranges (e.g., less than one hundred kilometers) compared to communications using the smaller frequencies and longer waves of the high frequency (HF) or very high frequency (VHF) portion of the spectrum below 300 MHz.

[0096] The wireless communications system **100** may utilize both licensed and unlicensed RF spectrum bands. For example, the wireless communications system **100** may employ License Assisted Access (LAA), LTE-Unlicensed (LTE-U) RAT, or NR technology using an unlicensed band such as the 5 GHz industrial, scientific, and medical (ISM) band. While operating using unlicensed RF spectrum bands, devices such as the network entities **105** and the Ues **115** may employ carrier sensing for collision detection and avoidance. In some examples, operations using unlicensed bands may be based on a carrier aggregation configuration in conjunction with component carriers operating using a licensed band (e.g., LAA). Operations using unlicensed spectrum may include downlink transmissions, uplink transmissions, P2P transmissions, or D2D transmissions, among other examples.

[0097] A network entity **105** (e.g., a base station **140**, an RU **170**) or a UE **115** may be equipped with multiple antennas, which may be used to employ techniques such as transmit diversity, receive diversity, multiple-input multiple-output (MIMO) communications, or beamforming. The antennas of a network entity **105** or a UE **115** may be located within one or more antenna arrays or antenna panels, which may support MIMO operations or transmit or receive beamforming. For example, one or more base station antennas or antenna arrays may be co-located at an antenna assembly, such as an antenna tower. In some examples, antennas or antenna arrays associated with a network entity **105** may be located at diverse geographic locations. A network entity **105** may include an antenna array with a set of rows and columns of antenna ports that the network entity **105** may use to support beamforming of communications with a UE **115**. Likewise, a UE **115** may include one or more antenna arrays that may support various MIMO or beamforming operations. Additionally, or alternatively, an antenna panel may support RF beamforming for a signal transmitted via an antenna port.

[0098] The network entities **105** or the Ues **115** may use MIMO communications to exploit multipath signal propagation and increase spectral efficiency by transmitting or receiving multiple signals via different spatial layers. Such techniques may be referred to as spatial multiplexing. The multiple signals may, for example, be transmitted by the transmitting device via different antennas or different combinations of antennas. Likewise, the multiple signals may be received by the receiving device via different antennas or different combinations of antennas. Each of the multiple signals may be referred to as a separate spatial stream and may carry information associated with the same data stream (e.g., the same codeword) or different data streams (e.g., different codewords). Different spatial layers may be associated with different antenna ports used for channel measurement and reporting. MIMO techniques include single-user MIMO (SU-MIMO), for which multiple spatial layers are transmitted to the same receiving device, and multiple-user MIMO (MU-MIMO), for which multiple spatial layers are transmitted to multiple devices.

[0099] Beamforming, which may also be referred to as spatial filtering, directional transmission, or directional reception, is a signal processing technique that may be used at a transmitting device or a receiving device (e.g., a network entity **105**, a UE **115**) to shape or steer an antenna beam (e.g., a transmit beam, a receive beam) along a spatial path between the transmitting device and the receiving device. Beamforming may be achieved by combining the signals communicated via antenna elements of an antenna array such that some signals propagating along particular orientations with respect to an antenna array experience constructive interference while others experience destructive interference. The adjustment of signals communicated via the antenna elements may include a transmitting device or a receiving device applying amplitude offsets, phase offsets, or both to signals carried via the antenna elements associated with the device. The adjustments associated with each of the antenna elements may be defined by a beamforming weight set associated with a particular orientation (e.g., with respect to the antenna array of the transmitting device or receiving device, or with respect to some other orientation).

[0100] The wireless communications system **100** may support full-duplex communications, in which a UE **115** or a network entity **105** may perform simultaneous downlink communication and uplink communication on a frequency subband basis (e.g., across a set of frequencies). For example, the UE **115** may partition a particular band (e.g., 100 MHz) into sub-bands, which the UE **115** may use exclusively for uplink communication or downlink communication. For example, the UE **115** may use the 40 MHz of a 100 MHz band for downlink communications, 20 MHz for uplink communications, and another 40 MHz again for downlink communications. That is, the uplink and downlink bands may have relatively similar frequencies, however, may be non-overlapping in frequency. Full-duplex communications may be suitable for macro cells with a large transmit power, and may be relatively simpler to enable than other full-duplex techniques. In addition, full-duplex communications may improve latency and increase uplink coverage via frequency division duplexing (FDD) in TDD bands.

[0101] To further enhance flexibility of some operations, the wireless communications system **100** may support Ues **115** and network entities **105** which may both perform simultaneous transmission and reception of downlink and uplink communications via partially or fully overlapping frequency bands. For example, the wireless communications system **100** may support a UE **115** and a network entity **105** that operate using full-duplex communications via partially overlapping frequency bands, or a network entity **105** that operates using half-duplex communications (e.g., in a multi-transmission reception point (mTRP)) scenario) and a UE **115** that operates using full-duplex communications.

[0102] In a TDD scenario, network entities **105** in the wireless communications system **100** may support full-duplex operations (e.g., where a network entity **105** may communicate simultaneously on uplink and downlink sub-bands that are non-overlapping in frequency), while Ues **115** may support half-duplex communications. For example, the network entity **105** may use a particular sub-band for transmitting downlink communications to a first UE **115**, and a particular sub-band for receiving simultaneous uplink communications from a second UE **115**. As such, a UE **115** capable of half-duplex communications may be paired with any network entity **105** capable of full-duplex operations in the wireless communications system **100**.

[0103] In some examples, the network entity **105** may use IBFD communications, in which the network entity **105** may transmit and receive communications with a UE **115** via a same time resource and a same frequency resource. That is, the downlink and uplink may share same IBFD time and

frequency resources, which may partially or fully overlap. Alternatively, the network entity **105** may use SBFD (e.g., flexible duplex) communications, in which the network entity **105** may transmit and receive communications with the UE **115** via a same time resource but via different frequency resources. That is, a frequency resource used for downlink communications may be separated from a frequency resource used for uplink communications (e.g., by a guard band).

[0104] In some examples, a network entity **105** may configure a UE **115** with a symbol pattern that designates one or more time resources (e.g., symbols, slots) as TDD uplink resources, TDD downlink resources, and/or TDD flexible resources. For example, the network entity **105** may transmit control signaling (e.g., RRC signaling, medium access control-control element (MAC-CE) signaling, DCI) including one or more parameters (e.g., tdd-UL-DL-ConfigurationCommon, tdd-ULDL-ConfigurationDedicated) that indicates one or more slots or symbols of a slot as uplink resources, downlink resources, or flexible resources. The UE **115** may receive a configuration that converts one or more of the TDD downlink symbols or the TDD flexible symbols as SBFD symbols.

[0105] Additionally, or alternatively, the network entity **105** may transmit a DCI message (e.g., a DCI with format 2_0). The DCI may include a SFI (e.g., in an SFI-index field of the DCI), which may assign one or more of the time resources (e.g., TDD flexible symbols) as a downlink symbol, an uplink symbol, or a flexible symbol. The UE **115** may not expect to receive a DCI (e.g., a DCI with format 2_0) with an SFI-index field value indicating a symbol format (e.g., uplink, downlink, or flexible) for one or more symbols configured as uplink or downlink by the one or more parameters (e.g., tdd-UL-DL-ConfigurationCommon, tdd-ULDL-ConfigurationDedicated), or for one or more symbols (e.g., TDD downlink symbols or TDD flexible symbols) that are converted to SBFD symbols.

[0106] The wireless communication system **100** may enable one or more of a network entity **105** or a base station **140** to assign, via an SFI, an SBFD symbol as a downlink symbol, an uplink symbol, or a flexible symbol. One or more of the network entity **105** or the base station **140** may transmit an SFI indicating for a UE **115** to receive via one or more downlink subbands or flexible subbands within an SBFD symbol (e.g., and to refrain from transmitting via uplink subbands) or to transmit via the uplink subbands (e.g., and to refrain from using the downlink or flexible subbands). The SFI may indicate for the UE **115** to fallback to a downlink TDD slot format, an uplink TDD slot format, or a flexible TDD slot format. In some examples, the SFI may indicate that an SBFD symbol is reserved, and the UE **115** may not communicate (e.g., refrain from communicating) via the downlink or flexible subbands and/or the uplink subbands.

[0107] In some examples, one or more of the network entity **105** or the base station **140** may transmit, to the UE **115**, an SFI configuring with a symbol pattern, which may include an SBFD symbol type. That is, the UE **115** may receive a configuration for an SFI table with a set of symbol formats including an SBFD symbol format. Accordingly, the SFI may indicate for the UE **115** to use an SBFD symbol format. Additionally, or alternatively, the UE **115** may be configured with one or more time patterns (e.g., patterns of slots including SBFD symbols), and the SFI may indicate a time pattern of the one or more time patterns for the UE **115** to apply to one or more symbols.

[0108] FIG. **2** shows an example of a wireless communications system **200** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The wireless communications system **200** may implement or may be implemented by aspects of the wireless communications system **100**. For example, the wireless communications system **200** may include a UE **115** (e.g., a UE **115**-*a*) and a network entity **105** (e.g., a network entity **105**-*a*), which may be examples of the corresponding devices as described with reference to FIG. **1**.

[0109] In some examples, the network entity **105**-*a* may configure the UE **115**-*a* with a symbol pattern that designates one or more time resources (e.g., symbols, slots) as TDD uplink resources, TDD downlink resources, and/or TDD flexible resources. For example, the network entity **105**-*a* may transmit a control message (e.g., RRC signaling, MAC-CE signaling, DCI) via a channel **205** between the UE **115**-*a* and the network entity **105**-*a*. The configuration message **210** may include one or more parameters (e.g., tdd-UL-DL-ConfigurationCommon, tdd-ULDL-ConfigurationDedicated) that indicates one or more slots or symbols of a slot as TDD uplink symbols **225** with uplink resources **240**, TDD downlink symbols **220** with downlink resources **235**, or TDD flexible symbols. The UE **115**-*a* may receive a configuration (e.g., via the control message) that converts one or more of the TDD downlink symbols **220** or the TDD flexible symbols to SBFD symbols **230** with both uplink resources **240** and either downlink resources **235** or flexible resources **245** (e.g., in uplink subbands and downlink and/or flexible subbands, respectively). For example, a TDD flexible symbol that is converted into an SBFD symbol **230**-*a* may include flexible subbands, and a TDD downlink symbol **220** that is converted into an SBFD symbol **230**-*b* may include downlink subbands.

[0110] In some cases, the UE **115**-*a* may perform communications in the SBFD symbol **230**-*a* that is configured in a TDD flexible symbol (e.g., a symbol configured as flexible via tdd-UL-DL-ConfigCommon or tdd-ULDL-ConfigurationDedicated and reconfigured as the SBFD symbol **230**-*a*). For example, the UE **115**-*a* may handle the flexible subbands as downlink resources **235**. In such examples, the UE **115**-*a* may transmit uplink communication via an uplink subband in the SBFD symbol **230**-*a* (e.g., and may not transmit (e.g., refrain from) uplink communication outside of the uplink subband). Put another way, uplink transmission within an uplink subband may be allowed in the SBFD symbol **230**-*a*, and uplink transmission outside the uplink subband may not be allowed in the SBFD symbol **230**-*a*. The UE **115**-*a* may receive downlink communication via the flexible subbands in the SBFD symbol **230**-*a* (e.g., the subbands that the UE **115**-*a* handles as downlink resources **235**). The UE **115**-*a* may receive downlink communication outside of the flexible subbands in the SBFD symbol **230**-*a*.

[0111] Additionally, or alternatively, the UE **115**-*a* may handle the flexible subbands in the SBFD symbol **230**-*b* as flexible, and may use resource blocks (RBs) in the flexible subbands (e.g., outside of the uplink subband) as either uplink resources **240** or downlink resources **235** (e.g., excluding one or more guard bands between the uplink subband and the flexible subbands). Each of the flexible subbands may be associated with a same transmission direction (e.g., uplink or downlink). In such examples, the

UE **115**-*a* may transmit uplink communication via the SBFD symbol **230**-*b* in either or both of the uplink subband and the flexible subbands. The UE **115**-*a* may receive downlink communication via the flexible subbands in the SBFD symbol **230**-*a* (e.g., the subbands that the UE **115**-*a* handles as downlink resources **235**). The UE **115**-*a* may receive downlink communication outside of the flexible subbands in the SBFD symbol **230**-*a*. That is, in some examples, the UE **115**-*a* may convert the SBFD symbol **230**-*a* to a downlink dedicated symbol without one or more uplink subbands.

[0112] The network entity **105**-*a* may transmit a DCI message (e.g., a DCI with format 2_0). The DCI may include a SFI **215** (e.g., in an SFI-index field of the DCI), which may assign one or more of the time resources (e.g., TDD flexible symbols) as a downlink symbol, an uplink symbol, or a flexible symbol. The UE **115**-*a* may not expect (e.g., monitor) to receive a DCI (e.g., a DCI with format 2_0) with an SFI-index field value indicating a symbol format (e.g., uplink, downlink, or flexible) for one or more symbols configured as uplink or downlink by the one or more parameters (e.g., tdd-UL-DL-ConfigurationCommon, tdd-ULDL-ConfigurationDedicated), or for one or more symbols (e.g., TDD downlink symbols or TDD flexible symbols) that are converted to SBFD symbols.

[0113] In the example of FIG. **2**, the network entity **105**-*a* transmits an SFI **215** (e.g., an enhanced SFI **215**) that may indicate a functionality of SBFD symbols **230** (e.g., downlink symbols or flexible symbols with an uplink subband). For example, the UE **115**-*a* (e.g., a half-duplex capable SBFD-aware UE **115**-*a*) may use the enhanced SFI **215** to determine a traffic direction (e.g., uplink or downlink) of the SBFD symbols **230**. That is, the enhanced SFI **215** may indicate for the UE **115**-*a* to transmit uplink communication via the uplink subband of the SBFD symbol **230** or to receive downlink communication via the downlink or flexible subbands of the SBFD symbol **230**. Additionally, or alternatively, the enhanced SFI **215** may enable the UE **115**-*a* to dynamically fall back (e.g., revert) to a TDD slot format. For example, the network entity **105**-*a* may determine to convert an SBFD symbol **230** to a TDD uplink symbol **225**, a TDD downlink symbol **220**, and/or a TDD flexible symbol.

[0114] In some aspects, for one or more SBFD symbols **230**-*b* that are configured in TDD downlink symbols **220**, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*b* as downlink resources **235** (e.g., with an SFI-index field value indicating downlink). The UE **115**-*a* may accordingly receive downlink communication via the downlink subbands of the SBFD symbols **230**-*b*. The downlink communication may include a PDSCH transmission, a PDCCH transmission, a CSI-RS, or a PRS (e.g., downlink transmission configured by higher-layer or triggered by a DCI).

[0115] Additionally, or alternatively, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*b* as uplink resources **240** (e.g., with an SFI-index field value indicating uplink). The UE **115**-*a* may accordingly transmit uplink communication via the uplink subband in the SBFD symbols **230**-*b*. The uplink communication may include a physical uplink shared channel (PUCCH) transmission, a physical uplink shared channel (PUSCH) transmission, a sounding reference signal (SRS), and/or a physical random access channel (PRACH) transmission.

[0116] Additionally, or alternatively, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*b* as flexible resources (e.g., with an SFI-index field value indicating flexible). In some examples, the UE **115**-*a* may monitor for a DCI message scheduling either uplink or downlink communication via the SBFD symbol **230**-*b* in response to the enhanced SFI **215** indicating for the UE **115**-*a* to use the SBFD symbols **230**-*b* as flexible resources. The UE **115**-*a* may accordingly transmit uplink communication or receive downlink communication via the SBFD symbols **230**-*b* in a direction determined by the scheduling DCI. In some examples, if the UE **115**-*a* receives a scheduling DCI scheduling an uplink transmission, the UE **115**-*a* may drop reception (e.g., higher layer configured reception of downlink messages) in the downlink subbands and may transmit the scheduled uplink communication via the uplink subbands. In some examples, if the UE **115**-*a* receives a scheduling DCI scheduling a downlink transmission, the UE **115**-*a* may cancel transmission (e.g., higher layer configured transmission of uplink messages) in the uplink subbands and may receive the scheduled downlink communication via the downlink subbands.

[0117] In some examples, if the enhanced SFI **215** indicates for the UE **115**-*a* to use the SBFD symbols **230**-*b* as flexible resources, the UE **115**-*a* may handle the SBFD symbols **230**-*b* as reserved symbols. That is, the UE **115**-*a* may not transmit or receive communication via the SBFD symbols **230**-*b*. In some examples, the UE **115**-*a* may not expect (e.g., monitor a downlink channel) to receive the enhanced SFI **215** indicating for the UE **115**-*a* to use the SBFD symbols **230**-*b* as flexible resources.

[0118] In some aspects, for one or more SBFD symbols **230**-*a* that are configured in TDD flexible symbols, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*a* as downlink resources **235** (e.g., with an SFI-index field value indicating downlink). The UE **115**-*a* may accordingly receive downlink communication via the flexible subbands of the SBFD symbols **230**-*a*. The downlink communication may include a PDSCH transmission, a PDCCH transmission, a CSI-RS, or a PRS (e.g., downlink transmission configured by higher-layer or triggered by a DCI).

[0119] Additionally, or alternatively, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*a* as uplink resources **240** (e.g., with an SFI-index field value indicating uplink). The UE **115**-*a* may accordingly transmit uplink communication via the uplink subband in the SBFD symbols **230**-*a*. In some examples, the UE **115**-*a* may transmit uplink communication in the flexible subbands of the SBFD symbols **230**-*a* in addition to or instead of the uplink subband of the SBFD symbols **230**-*a*. The uplink communication may include a PUCCH transmission, a PUSCH transmission, a SRS, and/or a PRACH transmission.

[0120] Additionally, or alternatively, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*a* as flexible resources (e.g., with an SFI-index field value indicating flexible). In some examples, the UE **115**-*a* may monitor for a DCI message scheduling either uplink or downlink communication via the SBFD symbol **230**-*a* in response to the enhanced SFI **215** indicating for the UE **115**-*a* to use the SBFD symbols **230**-*a* as flexible resources. The UE **115**-*a* may accordingly transmit uplink communication or receive downlink communication via the SBFD

symbols **230**-*a* in a direction determined by the scheduling DCI. In some examples, if the UE **115**-*a* receives a scheduling DCI scheduling an uplink transmission, the UE **115**-*a* may drop reception (e.g., higher layer configured reception of downlink messages) in the flexible subbands and may transmit the scheduled uplink communication via the uplink subbands. In some examples, if the UE **115**-*a* receives a scheduling DCI scheduling a downlink transmission, the UE **115**-*a* may cancel transmission (e.g., higher layer configured transmission of uplink messages) in the uplink subbands and may receive the scheduled downlink communication via the flexible subbands.

[0121] In some examples, if the enhanced SFI **215** indicates for the UE **115**-*a* to use the SBFD symbols **230**-*a* as flexible resources, the UE **115**-*a* may handle the flexible subbands of the SBFD symbols **230**-*a* as downlink resources. That is, the UE **115**-*a* may receive downlink communication via the flexible subbands of the SBFD symbols **230**-*a*. The downlink communication may include a PDSCH transmission, a PDCCH transmission, a CSI-RS, or a PRS (e.g., downlink transmission configured by higher-layer or triggered by a DCI).

[0122] In some examples, if the enhanced SFI **215** indicates for the UE **115**-*a* to use the SBFD symbols **230**-*a* as flexible resources, the UE **115**-*a* may handle the SBFD symbols **230**-*a* (e.g., or the flexible subbands of the SBFD symbols **230**-*a*) as reserved symbols. That is, the UE **115**-*a* may drop downlink reception and cancel uplink transmission configured by higher layer signaling the SBFD symbols **230**-*a*, and/or the UE **115**-*a* may drop downlink reception configured by higher layer signaling in the flexible subbands (e.g., and may transmit uplink via the uplink subband). In some examples, the UE **115**-*a* may not expect to receive the enhanced SFI **215** indicating for the UE **115**-*a* to use the SBFD symbols **230**-*a* as flexible resources.

[0123] In some aspects, the UE **115**-*a* may monitor for the DCI carrying the enhanced SFI **215**. In examples in which the UE **115**-*a* does not (e.g., fails to) detect the DCI (e.g., DCI format 2_0) carrying the enhances SFI **215**, the UE **115**-*a* may handle the SBFD symbols **230**-*a* and the SBFD symbols **230**-*b* as flexible symbols. That is, the UE **115**-*a* may use the SBFD symbols **230**-*a* and the SBFD symbols **230**-*b* as though the UE **115**-*a* received the SFI **215** with an SFI-index value indicating downlink. Accordingly, the UE **115**-*a* may handle the SBFD symbols **230**-*a* and/or the SBFD symbols **230**-*b* as downlink symbols, as uplink symbols, as symbols with a direction determined via a scheduling DCI, and/or as reserved symbols (e.g., or reserved subbands within the symbols) as described herein with reference to an SFI **215** indicating for the UE **115**-*a* one or more SBFD symbols **230**-*a* and/or SBFD symbols **230**-*b* as flexible.

[0124] In some aspects, the enhanced SFI **215** may indicate for the UE **115**-*a* to fall back to a TDD symbol format or configuration (e.g., to reconvert the converted SBFD symbols **230** to TDD flexible symbols, TDD downlink symbols **220**, and/or TDD uplink symbols **225**). For example, for one or more SBFD symbols **230**-*b* that are configured in TDD downlink symbols **220**, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*b* as downlink resources **235** (e.g., with an SFI-index field value indicating downlink). The UE **115**-*a* may accordingly receive downlink communication via the SBFD symbols **230**-*b* according to a TDD downlink symbol **220** configuration (e.g., via any frequency band of the SBFD symbols **230**-*b*). The downlink communication may include a PDSCH transmission, a PDCCH transmission, a CSI-RS, or a PRS (e.g., downlink transmission configured by higher-layer or triggered by a DCI).

[0125] Additionally, or alternatively, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*b* as uplink resources **240** (e.g., with an SFI-index field value indicating uplink). The UE **115**-*a* may not expect to receive the enhanced SFI **215** with an SFI-index value indicating uplink (e.g., as SBFD symbols **230** may be configured in TDD downlink symbols **220** or TDD flexible symbols, but not TDD uplink symbols **225**). Accordingly, the UE **115**-*a* may handle the SFI **215** with the SFI-index value indicating uplink as an error case, and may declare an error associated with receiving the SFI **215**.

[0126] Additionally, or alternatively, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*b* as flexible resources (e.g., with an SFI-index field value indicating flexible). The UE **115**-*a* may not expect to receive the enhanced SFI **215** with an SFI-index value indicating flexible. Accordingly, the UE **115**-*a* may handle the SFI **215** with the SFI-index value indicating flexible as an error case, and may declare an error associated with receiving the SFI **215**.

[0127] In some examples, if the enhanced SFI **215** indicates for the UE **115**-*a* to use the SBFD symbols **230**-*a* as flexible resources, the UE **115**-*a* may fall back to a TDD flexible symbol configuration. That is, the UE **115**-*a* may monitor for a DCI indicating for the UE **115**-*a* to use the SBFD symbols **230**-*a* as TDD downlink symbols **220** or TDD uplink symbols **225**.

[0128] In some aspects, for one or more SBFD symbols **230**-*a* that are configured in TDD flexible symbols, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*a* as downlink resources **235** (e.g., with an SFI-index field value indicating downlink). The UE **115**-*a* may accordingly receive downlink communication via the SBFD symbols **230**-*a* according to a TDD downlink symbol **220** configuration (e.g., via any frequency band of the SBFD symbols **230**-*a*). The downlink communication may include a PDSCH transmission, a PDCCH transmission, a CSI-RS, or a PRS (e.g., downlink transmission configured by higher-layer or triggered by a DCI).

[0129] Additionally, or alternatively, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*a* as uplink resources **240** (e.g., with an SFI-index field value indicating uplink). The UE **115**-*a* may not expect (e.g., monitor a downlink channel) to receive the enhanced SFI **215** with an SFI-index value indicating uplink (e.g., as SBFD symbols **230** may be configured in TDD downlink symbols **220** or TDD flexible symbols, but not TDD uplink symbols **225**). Accordingly, the UE **115**-*a* may handle the SFI **215** with the SFI-index value indicating uplink as an error case, and may declare an error associated with receiving the SFI **215**.

[0130] In some examples, if the enhanced SFI **215** indicates for the UE **115**-*a* to use the SBFD symbols **230**-*a* as uplink resources, the UE **115**-*a* may fall back to a TDD uplink symbol configuration. The UE **115**-*a* may accordingly transmit uplink communication via the SBFD symbols **230**-*a* according to a TDD uplink symbol **225** configuration (e.g., via any frequency band of the SBFD symbols **230**-*a*).

The uplink communication may include a PUCCH transmission, a PUSCH transmission, a SRS, and/or a PRACH transmission.

[0131] Additionally, or alternatively, the enhanced SFI **215** may indicate for the UE **115**-*a* to use the SBFD symbols **230**-*a* as flexible resources (e.g., with an SFI-index field value indicating flexible). In such examples, the UE **115**-*a* may fall back to a TDD flexible symbol configuration. That is, the UE **115**-*a* may monitor for a DCI indicating for the UE **115**-*a* to use the SBFD symbols **230**-*a* as TDD downlink symbols **220** or TDD uplink symbols **225**.

[0132] In some aspects, the enhanced SFI **215** may dynamically indicate for the UE **115**-*a* to use a set of symbols of a slot (e.g., one or more TDD flexible symbols or TDD downlink symbols **220** configured as flexible or downlink via tdd-UP-DL-ConfigurationCommon and/or tdd-ULDL-ConfigurationDedicated in the configuration message **210**) as SBFD symbols **230**. For example, the SFI may indicate a symbol type of U, D, or X, indicating for the UE **115**-*a* to use a TDD flexible symbol as an uplink symbol **225**, a downlink symbol **220**, or an SBFD symbol **230**, respectively.

[0133] In some aspects, the UE **115**-*a* may receive control signaling (e.g., the configuration message **210**, RRC signaling, MAC-CE signaling, DCI signaling) indicating an SFI table with configurations for multiple SBFD symbol time patterns (e.g., patterns of SBFD symbols **230**, flexible symbols, downlink symbols **220**, and/or uplink symbols **225** in a slot). The SFI table may include one or more entries indicating a slot format for one or more SBFD symbols **230** (e.g., X). An example SFI table is illustrated below with reference to Table 1.

TABLE 1

	Symbol number in a slot					
Format	0	1	2	3	. . .	13
0	D	D	D	D	. . .	D
1	U	U	U	U	. . .	U
2	F	F	F	F	. . .	F
			. . .			
56	D	D	F	X	. . .	U
57	X	X	X	X	. . .	X
			. . .			

[0134] Table 1 is an illustrative example. In some examples, the SFI table may include one or more additional or fewer entries than illustrated with reference to Table 1. In some examples, the entries of the SFI table may be different than those illustrated with reference to Table 1. For example, the SFI table may include a different value (e.g., other than X) to represent SFBD symbols **230**, or a different format index (e.g., other than 56 or 57) to represent time patterns with SBFD symbols **230**. Additionally, or alternatively, the SFI table may include a different order of slot or symbol formats than the example order shown.

[0135] A bitfield of the SFI **215** (e.g., the SFI-index field in the DCI format 2_0) may indicate a value of the SFI table indicating for the UE **115**-*a* to use one or more symbols as SBFD symbols **230** (e.g., as illustrated with reference to example slot formats 56 and 57). The UE **115**-*a* may accordingly configure the symbols indicated by the SFI table to be SBFD symbols (e.g., with a symbol type X) with uplink subbands and flexible or downlink subbands, as illustrated with reference to the SBFD symbol **230**-*a* and the SBFD symbol **230**-*b*. In some examples, the SFI table may indicate for the UE **115**-*a* to use a slot as an SBFD-only slot (e.g., as illustrated with reference to format 57), or as a combination of uplink, downlink, flexible, and SFBD slots (e.g., as illustrated with reference to format 56). In some examples, the SFI table may include a first symbol type (e.g., X) for SBFD symbols **230**-*a* with flexible subbands, and a second symbol type (e.g., Y) for SBFD symbols **230**-*b* with downlink subbands.

[0136] In some examples, the UE **115**-*a* may use an SBFD symbol pattern indicated by the SFI **215** for a duration (e.g., a set of slots or symbols indicated by the SFI **215**). That is, SBFD symbol pattern switching may be applicable to an indicated set of symbols. In some examples, the UE **115**-*a* may use an SBFD symbol pattern indicated by the SFI **215** until the UE **115**-*a* receives an SFI **215** indicating for the UE **115**-*a* to use a different SBFD symbol pattern. Put another way, the SBFD symbol pattern may be "sticky" or "static" until the UE **115**-*a* receives an SBFDM symbol pattern switching indication.

[0137] FIG. **3** shows an example of a process flow **300** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The process flow **300** may implement or may be implemented by aspects of the wireless communications system **100** or the wireless communications system **200**. For example, the process flow **300** may include a UE **115** (e.g., a UE **115**-*b*) and a network entity **105** (e.g., a network entity **105**-*b*), which may be examples of the corresponding devices as described with reference to FIG. **1**.

[0138] In the following description of the process flow **300**, the operations between the UE **115**-*b* and the network entity **105**-*b* may be transmitted in a different order than the example order shown. Some operations may also be omitted from the process flow **400**, and other operations may be added to the process flow **300**. Further, although some operations or signaling may be shown to occur at different times for discussion purposes, these operations may actually occur at the same time.

[0139] In some examples, at **305**, the UE **115**-*b* may receive control signaling from the network entity **105**-*b*. For example, the control signaling may include one or more RRC messages, DCI messages, or MAC-CE messages. The UE **115**-*b* may receive the control signaling via a PDCCH or a PDSCH.

[0140] In some examples, the control signaling may indicate a configuration of a set of one or more SBFD symbols configured in one or more TDD downlink symbols or TDD flexible symbols. That is, the set of one or more SBFD symbols may be configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols by converting the one or more TDD downlink symbols or the one or more TDD flexible symbols to SBFD symbols.

[0141] At **310**, the UE **115**-*b* may monitor for a DCI message from the network entity **105**-*b* including an SFI. The SFI may indicate for the UE **115**-*b* to use each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink symbols, uplink symbols, or flexible symbols. The UE **115**-*b* may receive the DCI via the PDCCH or the PDSCH. In some examples, the UE **115**-*b* may not receive the DCI message including the SFI. The UE **115**-*b* may perform wireless communication according to the configuration, the SFI, or both, as described with refer-

ence to **315** through **325**. In some examples, the UE **115**-*b* may refrain from receiving a downlink communication or transmitting an uplink communication via one or more SBFD symbols indicated as flexible by the SFI. In some examples, if the UE **115**-*b* does not receive the DCI, the UE **115**-*b* may determine to use the set of one or more SBFD symbols as TDD flexible symbols.

[0142] In some examples, at **315**, the UE **115**-*b* may transmit one or more uplink messages to the network entity **105**-*b* via a PUSCH or a PUCCH. For example, if the SFI indicates that one or more SBFD symbols configured in one or more TDD downlink symbols or TDD flexible symbols are to be used as uplink symbols, the UE **115**-*b* may transmit the one or more uplink messages. Additionally, or alternatively, if the SFI indicates that one or more SBFD symbols configured in one or more TDD flexible symbols are to be used as flexible symbols, the UE **115**-*b* may transmit the one or more uplink messages.

[0143] The UE **115**-*b* may transmit the one or more uplink messages via uplink subbands in the one or more SBFD symbols (e.g., according to an SBFD configuration). Additionally, or alternatively, the UE **115**-*b* may transmit the one or more uplink messages according to a TDD uplink configuration and/or a TDD flexible configuration (e.g., in accordance with or irrespective of the SFI).

[0144] In some examples, the uplink messages may include one or more of a PUCCH transmission, a PUSCH transmission, an SRS transmission, or a PRACH transmission (e.g., configured by higher-layer signaling). The UE **115**-*b* may refrain from receiving downlink messages via one or more downlink subbands of the one or more SBFD symbols (e.g., if the SFI indicates the SBFD symbols as flexible). For example, the UE **115**-*b* may cancel or drop reception of one or more downlink messages.

[0145] In some examples, at **320**, the UE **115**-*b* may receive one or more downlink messages from the network entity **105**-*b* via a PDSCH or a PDCCH. For example, if the SFI indicates that one or more SBFD symbols configured in one or more TDD downlink symbols or one or more TDD flexible symbols are to be used as downlink symbols, the UE **115**-*b* may receive the one or more downlink messages. Additionally, or alternatively, if the SFI indicates that one or more SBFD symbols configured in one or more TDD flexible symbols are to be used as flexible symbols, the UE **115**-*b* may receive the one or more downlink messages.

[0146] The UE **115**-*b* may receive the one or more downlink messages via downlink or flexible subbands in the one or more SBFD symbols (e.g., according to an SBFD configuration). Additionally, or alternatively, the UE **115**-*b* may receive the one or more downlink messages according to a TDD downlink configuration and/or a TDD flexible configuration.

[0147] In some examples, the downlink messages may include one or more of a PDCCH transmission, a PDSCH transmission, a CSI-RS transmission, or a PRS transmission. The UE **115**-*b* may refrain from transmitting uplink messages via one or more uplink subbands of the one or more SBFD symbols (e.g., if the SFI indicates the SBFD symbols as flexible). For example, the UE **115**-*b* may cancel or drop transmission of one or more uplink messages.

[0148] In some examples, at **325**, the UE **115**-*b* may declare an error associated with configuring the one or more SBFD symbols of the set of one or more SBFD symbols. For example, the UE **115**-*b* may declare an error if the set of SBFD symbols are configured in one or more TDD downlink or TDD flexible symbols, and the SFI indicates for the UE **115**-*b* to use the one or more symbols as uplink.

[0149] FIG. **4** shows an example of a process flow **400** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The process flow **400** may implement or may be implemented by aspects of the wireless communications system **100**, the wireless communications system **200**, or the process flow **300**. For example, the process flow **400** may include a UE **115** (e.g., a UE **115**-*c*) and a network entities **105** (e.g., a network entity **105**-*c*), which may be examples of the corresponding devices as described with reference to FIG. **1**.

[0150] In the following description of the process flow **400**, the operations between the UE **115**-*c* and the network entity **105**-*c* may be transmitted in a different order than the example order shown. Some operations may also be omitted from the process flow **400**, and other operations may be added to the process flow **400**. Further, although some operations or signaling may be shown to occur at different times for discussion purposes, these operations may actually occur at the same time.

[0151] At **405**, the UE **115**-*c* may receive control signaling (e.g., RRC signaling, MAC-CE signaling, DCI) from the network entity **105**-*c* that indicates a configuration for a set of one or more symbols (e.g., symbols of a slot). The UE **115**-*c* may receive the control signaling via a PDCCH or a PDSCH. The configuration may indicate for the UE **115**-*c* to use one or more symbols of the slot as downlink symbols or flexible symbols.

[0152] In some examples, the control signaling may include an RRC configuration of a set of SBFD time patterns (e.g., an SFI table of symbol patterns for one or more slots), including one or more symbol patterns indicating for the UE **115**-*c* to use one or more symbols as SBFD symbols. For example, the SFI table may include one or more entries indicating the set of one or more symbols as uplink, downlink, flexible, or SBFD symbols.

[0153] At **410**, the UE **115**-*c* may receive a DCI (e.g., via a PDCCH or a PDSCH) from the network entity **105**-*c*. The DCI may include one or more SFIs indicating for the UE **115**-*c* to use one or more symbols as TDD downlink symbols, TDD flexible symbols, TDD uplink symbols, or SBFD symbols. In some examples, the SFI may indicate an entry in the SFI table. That is, the SFI may include a bitfield that enables an SBFD symbol pattern from the set of SBFD time patterns for the UE **115**-*c* to apply to one or more slots.

[0154] In some examples, the enabled SBFD symbol pattern may be applicable to one or more symbols (e.g., a quantity of symbols indicated via the SFI). In some examples, the SBFD symbol pattern may be applicable until the UE **115**-*a* receives another SFI from the network entity **105**-*c* (e.g., another DCI) indicating a different SBFD symbol pattern from the set of SBFD time patterns.

[0155] The UE **115**-*c* may perform wireless communication in accordance with the configuration and/or the SFI. For example, at **415**, the UE **115**-*c* may transmit uplink signaling via one or more uplink subbands in an SBFD symbol indicated by the SFI. At **420**, the UE **115**-*c* may receive downlink signaling via one or more downlink or flexible subbands in an SBFD symbol indicated by the SFI.

[0156] FIG. **5** shows a block diagram **500** of a device **505** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure.

The device **505** may be an example of aspects of a UE **115** as described herein. The device **505** may include a receiver **510**, a transmitter **515**, and a communications manager **520**. The device **505**, or one or more components of the device **505** (e.g., the receiver **510**, the transmitter **515**, the communications manager **520**), may include at least one processor, which may be coupled with at least one memory, to, individually or collectively, support or enable the described techniques. Each of these components may be in communication with one another (e.g., via one or more buses).

[0157] The receiver **510** may provide a means for receiving information such as packets, user data, control information, or any combination thereof associated with various information channels (e.g., control channels, data channels, information channels related to SBFD symbol information via SFIs). Information may be passed on to other components of the device **505**. The receiver **510** may utilize a single antenna or a set of multiple antennas.

[0158] The transmitter **515** may provide a means for transmitting signals generated by other components of the device **505**. For example, the transmitter **515** may transmit information such as packets, user data, control information, or any combination thereof associated with various information channels (e.g., control channels, data channels, information channels related to SBFD symbol information via SFIs). In some examples, the transmitter **515** may be co-located with a receiver **510** in a transceiver module. The transmitter **515** may utilize a single antenna or a set of multiple antennas.

[0159] The communications manager **520**, the receiver **510**, the transmitter **515**, or various combinations or components thereof may be examples of means for performing various aspects of SBFD symbol information via SFIs as described herein. For example, the communications manager **520**, the receiver **510**, the transmitter **515**, or various combinations or components thereof may be capable of performing one or more of the functions described herein.

[0160] In some examples, the communications manager **520**, the receiver **510**, the transmitter **515**, or various combinations or components thereof may be implemented in hardware (e.g., in communications management circuitry). The hardware may include at least one of a processor, a digital signal processor (DSP), a central processing unit (CPU), an application-specific integrated circuit (ASIC), a field-programmable gate array (FPGA) or other programmable logic device, a microcontroller, discrete gate or transistor logic, discrete hardware components, or any combination thereof configured as or otherwise supporting, individually or collectively, a means for performing the functions described in the present disclosure. In some examples, at least one processor and at least one memory coupled with the at least one processor may be configured to perform one or more of the functions described herein (e.g., by one or more processors, individually or collectively, executing instructions stored in the at least one memory).

[0161] Additionally, or alternatively, the communications manager **520**, the receiver **510**, the transmitter **515**, or various combinations or components thereof may be implemented in code (e.g., as communications management software or firmware) executed by at least one processor (e.g., referred to as a processor-executable code). If implemented in code executed by at least one processor, the functions of the communications manager **520**, the receiver **510**, the transmitter **515**, or various combinations or components thereof may be performed by a general-purpose processor, a DSP, a CPU, an ASIC, an FPGA, a microcontroller, or any combination of these or other programmable logic devices (e.g., configured as or otherwise supporting, individually or collectively, a means for performing the functions described in the present disclosure).

[0162] In some examples, the communications manager **520** may be configured to perform various operations (e.g., receiving, obtaining, monitoring, outputting, transmitting) using or otherwise in cooperation with the receiver **510**, the transmitter **515**, or both. For example, the communications manager **520** may receive information from the receiver **510**, send information to the transmitter **515**, or be integrated in combination with the receiver **510**, the transmitter **515**, or both to obtain information, output information, or perform various other operations as described herein.

[0163] The communications manager **520** may support wireless communications in accordance with examples as disclosed herein. For example, the communications manager **520** is capable of, configured to, or operable to support a means for receiving control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols. The communications manager **520** is capable of, configured to, or operable to support a means for monitoring for a DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible. The communications manager **520** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0164] Additionally, or alternatively, the communications manager **520** may support wireless communications in accordance with examples as disclosed herein. For example, the communications manager **520** is capable of, configured to, or operable to support a means for receiving control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible. The communications manager **520** is capable of, configured to, or operable to support a means for receiving DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols. The communications manager **520** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0165] By including or configuring the communications manager **520** in accordance with examples as described herein, the device **505** (e.g., at least one processor controlling or otherwise coupled with the receiver **510**, the transmitter **515**, the communications manager **520**, or a combination thereof) may support techniques for indicating SBFD information via SFIs, which may enable more efficient utilization of communication resources.

[0166] FIG. **6** shows a block diagram **600** of a device **605** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The device **605** may be an example of aspects of a device **505** or a UE **115** as described herein. The device **605** may include a receiver **610**, a transmitter **615**, and a communi-

cations manager **620**. The device **605**, or one or more components of the device **605** (e.g., the receiver **610**, the transmitter **615**, the communications manager **620**), may include at least one processor, which may be coupled with at least one memory, to support the described techniques. Each of these components may be in communication with one another (e.g., via one or more buses).

[0167] The receiver **610** may provide a means for receiving information such as packets, user data, control information, or any combination thereof associated with various information channels (e.g., control channels, data channels, information channels related to SBFD symbol information via SFIs). Information may be passed on to other components of the device **605**. The receiver **610** may utilize a single antenna or a set of multiple antennas.

[0168] The transmitter **615** may provide a means for transmitting signals generated by other components of the device **605**. For example, the transmitter **615** may transmit information such as packets, user data, control information, or any combination thereof associated with various information channels (e.g., control channels, data channels, information channels related to SBFD symbol information via SFIs). In some examples, the transmitter **615** may be co-located with a receiver **610** in a transceiver module. The transmitter **615** may utilize a single antenna or a set of multiple antennas.

[0169] The device **605**, or various components thereof, may be an example of means for performing various aspects of SBFD symbol information via SFIs as described herein. For example, the communications manager **620** may include a symbol configuration component **625**, an SFI monitoring component **630**, a wireless communication performance component **635**, or any combination thereof. The communications manager **620** may be an example of aspects of a communications manager **520** as described herein. In some examples, the communications manager **620**, or various components thereof, may be configured to perform various operations (e.g., receiving, obtaining, monitoring, outputting, transmitting) using or otherwise in cooperation with the receiver **610**, the transmitter **615**, or both. For example, the communications manager **620** may receive information from the receiver **610**, send information to the transmitter **615**, or be integrated in combination with the receiver **610**, the transmitter **615**, or both to obtain information, output information, or perform various other operations as described herein.

[0170] The communications manager **620** may support wireless communications in accordance with examples as disclosed herein. The symbol configuration component **625** is capable of, configured to, or operable to support a means for receiving control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols. The SFI monitoring component **630** is capable of, configured to, or operable to support a means for monitoring for a DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible. The wireless communication performance component **635** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0171] Additionally, or alternatively, the communications manager **620** may support wireless communications in accordance with examples as disclosed herein. The symbol configuration component **625** is capable of, configured to, or operable to support a means for receiving control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible. The SFI monitoring component **630** is capable of, configured to, or operable to support a means for receiving DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols. The wireless communication performance component **635** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0172] FIG. **7** shows a block diagram **700** of a communications manager **720** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The communications manager **720** may be an example of aspects of a communications manager **520**, a communications manager **620**, or both, as described herein. The communications manager **720**, or various components thereof, may be an example of means for performing various aspects of SBFD symbol information via SFIs as described herein. For example, the communications manager **720** may include a symbol configuration component **725**, an SFI monitoring component **730**, a wireless communication performance component **735**, or any combination thereof. Each of these components, or components or subcomponents thereof (e.g., one or more processors, one or more memories), may communicate, directly or indirectly, with one another (e.g., via one or more buses).

[0173] The communications manager **720** may support wireless communications in accordance with examples as disclosed herein. The symbol configuration component **725** is capable of, configured to, or operable to support a means for receiving control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols. The SFI monitoring component **730** is capable of, configured to, or operable to support a means for monitoring for a DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible. The wireless communication performance component **735** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0174] In some examples, the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols by converting the one or more TDD downlink symbols or the one or more TDD flexible symbols to one or more SBFD symbols.

[0175] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for receiving a downlink communication via one or more downlink subbands associated with the set of one or more SBFD symbols, where the downlink com-

munication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0176] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for transmitting an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission.

[0177] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for receiving a downlink communication or transmitting an uplink communication based on a corresponding DCI, where receiving downlink communication is based on canceling the uplink communication associated with one or more uplink subbands, and where transmitting the uplink communication is based on dropping the downlink communication associated with one or more downlink subbands.

[0178] In some examples, the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols, and the wireless communication performance component **735** is capable of, configured to, or operable to support a means for refraining from receiving a downlink communication or transmitting an uplink communication via the set of one or more SBFD symbols indicated as flexible.

[0179] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for receiving a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0180] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for receiving a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0181] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for transmitting an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission configured by higher-layer signaling.

[0182] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for transmitting an uplink communication via one or more uplink subbands and one or more flexible subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission.

[0183] In some examples, the SFI monitoring component **730** is capable of, configured to, or operable to support a means for determining an absence of the SFI that indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible.

[0184] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for receiving a downlink communication via one or more TDD downlink symbols based on the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink.

[0185] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for performing the wireless communication via the one or more SBFD symbols or one or more TDD flexible symbols.

[0186] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for transmitting one or more messages via the one or more SBFD symbols.

[0187] In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for performing an uplink communication irrespective of the SFI. In some examples, to support performing wireless communication, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for declaring an error associated with configuring the one or more SBFD symbols of the set of one or more SBFD symbols in the one or more TDD flexible symbols or the one or more TDD downlink symbols.

[0188] Additionally, or alternatively, the communications manager **720** may support wireless communications in accordance with examples as disclosed herein. In some examples, the symbol configuration component **725** is capable of, configured to, or operable to support a means for receiving control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible. In some examples, the SFI monitoring component **730** is capable of, configured to, or operable to support a means for receiving DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols. In some examples, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0189] In some examples, the configuration includes at least one SFI table including one or more entries indicatives of the set of one or more symbols as one or more of downlink, uplink, flexible, or SBFB.

[0190] In some examples, the symbol configuration component **725** is capable of, configured to, or operable to support a means for receiving a radio resource control

signaling that indicates a second configuration including a set of one or more SBFD symbol patterns. In some examples, the wireless communication performance component **735** is capable of, configured to, or operable to support a means for performing wireless communication is based on at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0191] In some examples, the SFI includes a bitfield that enables the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0192] In some examples, the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns is applicable to one or more symbols associated with the SFI. In some examples, the at least one SBFD symbol pattern is applicable until a second SFI enables at least one second SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0193] FIG. **8** shows a diagram of a system **800** including a device **805** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The device **805** may be an example of or include components of a device **505**, a device **605**, or a UE **115** as described herein. The device **805** may communicate (e.g., wirelessly) with one or more other devices (e.g., network entities **105**, UEs **115**, or a combination thereof). The device **805** may include components for bi-directional voice and data communications including components for transmitting and receiving communications, such as a communications manager **820**, an input/output (I/O) controller, such as an I/O controller **810**, a transceiver **815**, one or more antennas **825**, at least one memory **830**, code **835**, and at least one processor **840**. These components may be in electronic communication or otherwise coupled (e.g., operatively, communicatively, functionally, electronically, electrically) via one or more buses (e.g., a bus **845**).

[0194] The I/O controller **810** may manage input and output signals for the device **805**. The I/O controller **810** may also manage peripherals not integrated into the device **805**. In some cases, the I/O controller **810** may represent a physical connection or port to an external peripheral. In some cases, the I/O controller **810** may utilize an operating system such as iOS®, ANDROID®, MS-DOS®, MS-WINDOWS®, OS/2®, UNIX®, LINUX®, or another known operating system. Additionally, or alternatively, the I/O controller **810** may represent or interact with a modem, a keyboard, a mouse, a touchscreen, or a similar device. In some cases, the I/O controller **810** may be implemented as part of one or more processors, such as the at least one processor **840**. In some cases, a user may interact with the device **805** via the I/O controller **810** or via hardware components controlled by the I/O controller **810**.

[0195] In some cases, the device **805** may include a single antenna. However, in some other cases, the device **805** may have more than one antenna, which may be capable of concurrently transmitting or receiving multiple wireless transmissions. The transceiver **815** may communicate bi-directionally via the one or more antennas **825** using wired or wireless links as described herein. For example, the transceiver **815** may represent a wireless transceiver and may communicate bi-directionally with another wireless transceiver. The transceiver **815** may also include a modem to modulate the packets, to provide the modulated packets to one or more antennas **825** for transmission, and to demodulate packets received from the one or more antennas **825**. The transceiver **815**, or the transceiver **815** and one or more antennas **825**, may be an example of a transmitter **515**, a transmitter **615**, a receiver **510**, a receiver **610**, or any combination thereof or component thereof, as described herein.

[0196] The at least one memory **830** may include random access memory (RAM) and read-only memory (ROM). The at least one memory **830** may store computer-readable, computer-executable, or processor-executable code, such as the code **835**. The code **835** may include instructions that, when executed by the at least one processor **840**, cause the device **805** to perform various functions described herein. The code **835** may be stored in a non-transitory computer-readable medium such as system memory or another type of memory. In some cases, the code **835** may not be directly executable by the at least one processor **840** but may cause a computer (e.g., when compiled and executed) to perform functions described herein. In some cases, the at least one memory **830** may include, among other things, a basic I/O system (BIOS) which may control basic hardware or software operation such as the interaction with peripheral components or devices.

[0197] The at least one processor **840** may include one or more intelligent hardware devices (e.g., one or more general-purpose processors, one or more DSPs, one or more central processing units (CPUs), one or more graphics processing units (GPUs), one or more neural processing units (NPUs) (also referred to as neural network processors or deep learning processors (DLPs)), one or more microcontrollers, one or more ASICS, one or more FPGAs, one or more programmable logic devices, discrete gate or transistor logic, one or more discrete hardware components, or any combination thereof). In some cases, the at least one processor **840** may be configured to operate a memory array using a memory controller. In some other cases, a memory controller may be integrated into the at least one processor **840**. The at least one processor **840** may be configured to execute computer-readable instructions stored in a memory (e.g., the at least one memory **830**) to cause the device **805** to perform various functions (e.g., functions or tasks supporting SBFD symbol information via SFIs). For example, the device **805** or a component of the device **805** may include at least one processor **840** and at least one memory **830** coupled with or to the at least one processor **840**, the at least one processor **840** and the at least one memory **830** configured to perform various functions described herein. In some examples, the at least one processor **840** may include multiple processors and the at least one memory **830** may include multiple memories. One or more of the multiple processors may be coupled with one or more of the multiple memories, which may, individually or collectively, be configured to perform various functions described herein. In some examples, the at least one processor **840** may be a component of a processing system, which may refer to a system (such as a series) of machines, circuitry (including, for example, one or both of processor circuitry (which may include the at least one processor **840**) and memory circuitry (which may include the at least one memory **830**)), or components, that receives or obtains inputs and processes the inputs to produce, generate, or obtain a set of outputs. The processing system may be configured to perform one or more of the functions described herein. For example, the at least one processor **840** or a processing system including the at least one processor **840** may be configured to, configur-

able to, or operable to cause the device **805** to perform one or more of the functions described herein. Further, as described herein, being "configured to," being "configurable to," and being "operable to" may be used interchangeably and may be associated with a capability, when executing code **835** (e.g., processor-executable code) stored in the at least one memory **830** or otherwise, to perform one or more of the functions described herein.

[0198] The communications manager **820** may support wireless communications in accordance with examples as disclosed herein. For example, the communications manager **820** is capable of, configured to, or operable to support a means for receiving control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols. The communications manager **820** is capable of, configured to, or operable to support a means for monitoring for a DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible. The communications manager **820** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0199] Additionally, or alternatively, the communications manager **820** may support wireless communications in accordance with examples as disclosed herein. For example, the communications manager **820** is capable of, configured to, or operable to support a means for receiving control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible. The communications manager **820** is capable of, configured to, or operable to support a means for receiving DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols. The communications manager **820** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0200] By including or configuring the communications manager **820** in accordance with examples as described herein, the device **805** may support techniques for indicating SBFD information via SFIs, which may enable reduced latency, more efficient utilization of communication resources, and improved coordination between devices.

[0201] In some examples, the communications manager **820** may be configured to perform various operations (e.g., receiving, monitoring, transmitting) using or otherwise in cooperation with the transceiver **815**, the one or more antennas **825**, or any combination thereof. Although the communications manager **820** is illustrated as a separate component, in some examples, one or more functions described with reference to the communications manager **820** may be supported by or performed by the at least one processor **840**, the at least one memory **830**, the code **835**, or any combination thereof. For example, the code **835** may include instructions executable by the at least one processor **840** to cause the device **805** to perform various aspects of SBFD symbol information via SFIs as described herein, or the at least one processor **840** and the at least one memory **830** may be otherwise configured to, individually or collectively, perform or support such operations.

[0202] FIG. **9** shows a block diagram **900** of a device **905** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The device **905** may be an example of aspects of a network entity **105** as described herein. The device **905** may include a receiver **910**, a transmitter **915**, and a communications manager **920**. The device **905**, or one or more components of the device **905** (e.g., the receiver **910**, the transmitter **915**, the communications manager **920**), may include at least one processor, which may be coupled with at least one memory, to, individually or collectively, support or enable the described techniques. Each of these components may be in communication with one another (e.g., via one or more buses).

[0203] The receiver **910** may provide a means for obtaining (e.g., receiving, determining, identifying) information such as user data, control information, or any combination thereof (e.g., I/Q samples, symbols, packets, protocol data units, service data units) associated with various channels (e.g., control channels, data channels, information channels, channels associated with a protocol stack). Information may be passed on to other components of the device **905**. In some examples, the receiver **910** may support obtaining information by receiving signals via one or more antennas. Additionally, or alternatively, the receiver **910** may support obtaining information by receiving signals via one or more wired (e.g., electrical, fiber optic) interfaces, wireless interfaces, or any combination thereof.

[0204] The transmitter **915** may provide a means for outputting (e.g., transmitting, providing, conveying, sending) information generated by other components of the device **905**. For example, the transmitter **915** may output information such as user data, control information, or any combination thereof (e.g., I/Q samples, symbols, packets, protocol data units, service data units) associated with various channels (e.g., control channels, data channels, information channels, channels associated with a protocol stack). In some examples, the transmitter **915** may support outputting information by transmitting signals via one or more antennas. Additionally, or alternatively, the transmitter **915** may support outputting information by transmitting signals via one or more wired (e.g., electrical, fiber optic) interfaces, wireless interfaces, or any combination thereof. In some examples, the transmitter **915** and the receiver **910** may be co-located in a transceiver, which may include or be coupled with a modem.

[0205] The communications manager **920**, the receiver **910**, the transmitter **915**, or various combinations or components thereof may be examples of means for performing various aspects of SBFD symbol information via SFIs as described herein. For example, the communications manager **920**, the receiver **910**, the transmitter **915**, or various combinations or components thereof may be capable of performing one or more of the functions described herein.

[0206] In some examples, the communications manager **920**, the receiver **910**, the transmitter **915**, or various combinations or components thereof may be implemented in hardware (e.g., in communications management circuitry). The hardware may include at least one of a processor, a DSP, a CPU, an ASIC, an FPGA or other programmable logic device, a microcontroller, discrete gate or transistor logic, discrete hardware components, or any combination thereof

configured as or otherwise supporting, individually or collectively, a means for performing the functions described in the present disclosure. In some examples, at least one processor and at least one memory coupled with the at least one processor may be configured to perform one or more of the functions described herein (e.g., by one or more processors, individually or collectively, executing instructions stored in the at least one memory).

[0207] Additionally, or alternatively, the communications manager **920**, the receiver **910**, the transmitter **915**, or various combinations or components thereof may be implemented in code (e.g., as communications management software or firmware) executed by at least one processor (e.g., referred to as a processor-executable code). If implemented in code executed by at least one processor, the functions of the communications manager **920**, the receiver **910**, the transmitter **915**, or various combinations or components thereof may be performed by a general-purpose processor, a DSP, a CPU, an ASIC, an FPGA, a microcontroller, or any combination of these or other programmable logic devices (e.g., configured as or otherwise supporting, individually or collectively, a means for performing the functions described in the present disclosure).

[0208] In some examples, the communications manager **920** may be configured to perform various operations (e.g., receiving, obtaining, monitoring, outputting, transmitting) using or otherwise in cooperation with the receiver **910**, the transmitter **915**, or both. For example, the communications manager **920** may receive information from the receiver **910**, send information to the transmitter **915**, or be integrated in combination with the receiver **910**, the transmitter **915**, or both to obtain information, output information, or perform various other operations as described herein.

[0209] The communications manager **920** may support wireless communications in accordance with examples as disclosed herein. For example, the communications manager **920** is capable of, configured to, or operable to support a means for transmitting control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols. The communications manager **920** is capable of, configured to, or operable to support a means for transmitting a DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible. The communications manager **920** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0210] Additionally, or alternatively, the communications manager **920** may support wireless communications in accordance with examples as disclosed herein. For example, the communications manager **920** is capable of, configured to, or operable to support a means for transmitting control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible. The communications manager **920** is capable of, configured to, or operable to support a means for transmitting DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols. The communications manager **920** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0211] By including or configuring the communications manager **920** in accordance with examples as described herein, the device **905** (e.g., at least one processor controlling or otherwise coupled with the receiver **910**, the transmitter **915**, the communications manager **920**, or a combination thereof) may support techniques for indicating SBFD information via SFIs, which may enable more efficient utilization of communication resources.

[0212] FIG. **10** shows a block diagram **1000** of a device **1005** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The device **1005** may be an example of aspects of a device **905** or a network entity **105** as described herein. The device **1005** may include a receiver **1010**, a transmitter **1015**, and a communications manager **1020**. The device **1005**, or one or more components of the device **1005** (e.g., the receiver **1010**, the transmitter **1015**, the communications manager **1020**), may include at least one processor, which may be coupled with at least one memory, to support the described techniques. Each of these components may be in communication with one another (e.g., via one or more buses).

[0213] The receiver **1010** may provide a means for obtaining (e.g., receiving, determining, identifying) information such as user data, control information, or any combination thereof (e.g., I/Q samples, symbols, packets, protocol data units, service data units) associated with various channels (e.g., control channels, data channels, information channels, channels associated with a protocol stack). Information may be passed on to other components of the device **1005**. In some examples, the receiver **1010** may support obtaining information by receiving signals via one or more antennas. Additionally, or alternatively, the receiver **1010** may support obtaining information by receiving signals via one or more wired (e.g., electrical, fiber optic) interfaces, wireless interfaces, or any combination thereof.

[0214] The transmitter **1015** may provide a means for outputting (e.g., transmitting, providing, conveying, sending) information generated by other components of the device **1005**. For example, the transmitter **1015** may output information such as user data, control information, or any combination thereof (e.g., I/Q samples, symbols, packets, protocol data units, service data units) associated with various channels (e.g., control channels, data channels, information channels, channels associated with a protocol stack). In some examples, the transmitter **1015** may support outputting information by transmitting signals via one or more antennas. Additionally, or alternatively, the transmitter **1015** may support outputting information by transmitting signals via one or more wired (e.g., electrical, fiber optic) interfaces, wireless interfaces, or any combination thereof. In some examples, the transmitter **1015** and the receiver **1010** may be co-located in a transceiver, which may include or be coupled with a modem.

[0215] The device **1005**, or various components thereof, may be an example of means for performing various aspects of SBFD symbol information via SFIs as described herein. For example, the communications manager **1020** may include a symbol configuration manager **1025**, an SFI transmission manager **1030**, a wireless communication performance manager **1035**, or any combination thereof. The

communications manager **1020** may be an example of aspects of a communications manager **920** as described herein. In some examples, the communications manager **1020**, or various components thereof, may be configured to perform various operations (e.g., receiving, obtaining, monitoring, outputting, transmitting) using or otherwise in cooperation with the receiver **1010**, the transmitter **1015**, or both. For example, the communications manager **1020** may receive information from the receiver **1010**, send information to the transmitter **1015**, or be integrated in combination with the receiver **1010**, the transmitter **1015**, or both to obtain information, output information, or perform various other operations as described herein.

[0216] The communications manager **1020** may support wireless communications in accordance with examples as disclosed herein. The symbol configuration manager **1025** is capable of, configured to, or operable to support a means for transmitting control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols. The SFI transmission manager **1030** is capable of, configured to, or operable to support a means for transmitting a DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible. The wireless communication performance manager **1035** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0217] Additionally, or alternatively, the communications manager **1020** may support wireless communications in accordance with examples as disclosed herein. The symbol configuration manager **1025** is capable of, configured to, or operable to support a means for transmitting control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible. The SFI transmission manager **1030** is capable of, configured to, or operable to support a means for transmitting DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols. The wireless communication performance manager **1035** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0218] FIG. **11** shows a block diagram **1100** of a communications manager **1120** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The communications manager **1120** may be an example of aspects of a communications manager **920**, a communications manager **1020**, or both, as described herein. The communications manager **1120**, or various components thereof, may be an example of means for performing various aspects of SBFD symbol information via SFIs as described herein. For example, the communications manager **1120** may include a symbol configuration manager **1125**, an SFI transmission manager **1130**, a wireless communication performance manager **1135**, or any combination thereof. Each of these components, or components or subcomponents thereof (e.g., one or more processors, one or more memories), may communicate, directly or indirectly, with one another (e.g., via one or more buses). The communications may include communications within a protocol layer of a protocol stack, communications associated with a logical channel of a protocol stack (e.g., between protocol layers of a protocol stack, within a device, component, or virtualized component associated with a network entity **105**, between devices, components, or virtualized components associated with a network entity **105**), or any combination thereof.

[0219] The communications manager **1120** may support wireless communications in accordance with examples as disclosed herein. The symbol configuration manager **1125** is capable of, configured to, or operable to support a means for transmitting control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols. The SFI transmission manager **1130** is capable of, configured to, or operable to support a means for transmitting a DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible. The wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0220] In some examples, the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols by converting the one or more TDD downlink symbols or the one or more TDD flexible symbols to one or more SBFD symbols.

[0221] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for transmitting a downlink communication via one or more downlink subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0222] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for receiving an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission.

[0223] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for transmitting a downlink communication or transmitting an uplink communication based on a corresponding DCI, where receiving the downlink communication is based on canceling the uplink communication associated with one or more uplink subbands, and where transmitting the uplink communication is based on dropping the downlink communication associated with one or more downlink subbands.

[0224] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for transmitting a downlink communication

via one or more flexible subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0225] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for transmitting a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, where the downlink communication includes one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0226] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for receiving an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission configured by higher-layer signaling.

[0227] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for receiving an uplink communication via one or more uplink subbands and one or more flexible subbands associated with the set of one or more SBFD symbols, where the uplink communication includes one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission.

[0228] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for transmitting a downlink communication via one or more TDD downlink symbols based on the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink.

[0229] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for performing the wireless communication via the one or more SBFD symbols or one or more TDD flexible symbols.

[0230] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for receiving one or more messages via the one or more SBFD symbols.

[0231] In some examples, to support performing wireless communication, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for performing an uplink communication irrespective of the SFI.

[0232] Additionally, or alternatively, the communications manager **1120** may support wireless communications in accordance with examples as disclosed herein. In some examples, the symbol configuration manager **1125** is capable of, configured to, or operable to support a means for transmitting control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible. In some examples, the SFI transmission manager **1130** is capable of, configured to, or operable to support a means for transmitting DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols. In some examples, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0233] In some examples, the configuration includes at least one SFI table including one or more entries indicatives of the set of one or more symbols as one or more of downlink, uplink, flexible, or SBFB.

[0234] In some examples, the SFI transmission manager **1130** is capable of, configured to, or operable to support a means for transmitting a radio resource control signaling that indicates a second configuration including a set of one or more SBFD symbol patterns. In some examples, the wireless communication performance manager **1135** is capable of, configured to, or operable to support a means for performing wireless communication is based on at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0235] In some examples, the SFI includes a bitfield that enables the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0236] In some examples, the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns is applicable to one or more symbols associated with the SFI. In some examples, the at least one SBFD symbol pattern is applicable until a second SFI enables at least one second SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0237] FIG. **12** shows a diagram of a system **1200** including a device **1205** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The device **1205** may be an example of or include components of a device **905**, a device **1005**, or a network entity **105** as described herein. The device **1205** may communicate with other network devices or network equipment such as one or more of the network entities **105**, UEs **115**, or any combination thereof. The communications may include communications over one or more wired interfaces, over one or more wireless interfaces, or any combination thereof. The device **1205** may include components that support outputting and obtaining communications, such as a communications manager **1220**, a transceiver **1210**, one or more antennas **1215**, at least one memory **1225**, code **1230**, and at least one processor **1235**. These components may be in electronic communication or otherwise coupled (e.g., operatively, communicatively, functionally, electronically, electrically) via one or more buses (e.g., a bus **1240**).

[0238] The transceiver **1210** may support bi-directional communications via wired links, wireless links, or both as described herein. In some examples, the transceiver **1210** may include a wired transceiver and may communicate bi-directionally with another wired transceiver. Additionally, or alternatively, in some examples, the transceiver **1210** may include a wireless transceiver and may communicate bi-directionally with another wireless transceiver. In some examples, the device **1205** may include one or more antennas **1215**, which may be capable of transmitting or receiving wireless transmissions (e.g., concurrently). The transceiver **1210** may also include a modem to modulate signals, to

provide the modulated signals for transmission (e.g., by one or more antennas **1215**, by a wired transmitter), to receive modulated signals (e.g., from one or more antennas **1215**, from a wired receiver), and to demodulate signals. In some implementations, the transceiver **1210** may include one or more interfaces, such as one or more interfaces coupled with the one or more antennas **1215** that are configured to support various receiving or obtaining operations, or one or more interfaces coupled with the one or more antennas **1215** that are configured to support various transmitting or outputting operations, or a combination thereof. In some implementations, the transceiver **1210** may include or be configured for coupling with one or more processors or one or more memory components that are operable to perform or support operations based on received or obtained information or signals, or to generate information or other signals for transmission or other outputting, or any combination thereof. In some implementations, the transceiver **1210**, or the transceiver **1210** and the one or more antennas **1215**, or the transceiver **1210** and the one or more antennas **1215** and one or more processors or one or more memory components (e.g., the at least one processor **1235**, the at least one memory **1225**, or both), may be included in a chip or chip assembly that is installed in the device **1205**. In some examples, the transceiver **1210** may be operable to support communications via one or more communications links (e.g., communication link(s) **125**, backhaul communication link(s) **120**, a midhaul communication link **162**, a fronthaul communication link **168**).

[0239] The at least one memory **1225** may include RAM, ROM, or any combination thereof. The at least one memory **1225** may store computer-readable, computer-executable, or processor-executable code, such as the code **1230**. The code **1230** may include instructions that, when executed by one or more of the at least one processor **1235**, cause the device **1205** to perform various functions described herein. The code **1230** may be stored in a non-transitory computer-readable medium such as system memory or another type of memory. In some cases, the code **1230** may not be directly executable by a processor of the at least one processor **1235** but may cause a computer (e.g., when compiled and executed) to perform functions described herein. In some cases, the at least one memory **1225** may include, among other things, a BIOS which may control basic hardware or software operation such as the interaction with peripheral components or devices. In some examples, the at least one processor **1235** may include multiple processors and the at least one memory **1225** may include multiple memories. One or more of the multiple processors may be coupled with one or more of the multiple memories which may, individually or collectively, be configured to perform various functions herein (for example, as part of a processing system).

[0240] The at least one processor **1235** may include one or more intelligent hardware devices (e.g., one or more general-purpose processors, one or more DSPs, one or more central processing units (CPUs), one or more graphics processing units (GPUs), one or more neural processing units (NPUs) (also referred to as neural network processors or deep learning processors (DLPs)), one or more microcontrollers, one or more ASICs, one or more FPGAs, one or more programmable logic devices, discrete gate or transistor logic, one or more discrete hardware components, or any combination thereof). In some cases, the at least one processor **1235** may be configured to operate a memory array using a memory controller. In some other cases, a memory controller may be integrated into one or more of the at least one processor **1235**. The at least one processor **1235** may be configured to execute computer-readable instructions stored in a memory (e.g., one or more of the at least one memory **1225**) to cause the device **1205** to perform various functions (e.g., functions or tasks supporting SBFD symbol information via SFIs). For example, the device **1205** or a component of the device **1205** may include at least one processor **1235** and at least one memory **1225** coupled with one or more of the at least one processor **1235**, the at least one processor **1235** and the at least one memory **1225** configured to perform various functions described herein. The at least one processor **1235** may be an example of a cloud-computing platform (e.g., one or more physical nodes and supporting software such as operating systems, virtual machines, or container instances) that may host the functions (e.g., by executing code **1230**) to perform the functions of the device **1205**. The at least one processor **1235** may be any one or more suitable processors capable of executing scripts or instructions of one or more software programs stored in the device **1205** (such as within one or more of the at least one memory **1225**). In some examples, the at least one processor **1235** may include multiple processors and the at least one memory **1225** may include multiple memories. One or more of the multiple processors may be coupled with one or more of the multiple memories, which may, individually or collectively, be configured to perform various functions herein. In some examples, the at least one processor **1235** may be a component of a processing system, which may refer to a system (such as a series) of machines, circuitry (including, for example, one or both of processor circuitry (which may include the at least one processor **1235**) and memory circuitry (which may include the at least one memory **1225**)), or components, that receives or obtains inputs and processes the inputs to produce, generate, or obtain a set of outputs. The processing system may be configured to perform one or more of the functions described herein. For example, the at least one processor **1235** or a processing system including the at least one processor **1235** may be configured to, configurable to, or operable to cause the device **1205** to perform one or more of the functions described herein. Further, as described herein, being "configured to," being "configurable to," and being "operable to" may be used interchangeably and may be associated with a capability, when executing code stored in the at least one memory **1225** or otherwise, to perform one or more of the functions described herein.

[0241] In some examples, a bus **1240** may support communications of (e.g., within) a protocol layer of a protocol stack. In some examples, a bus **1240** may support communications associated with a logical channel of a protocol stack (e.g., between protocol layers of a protocol stack), which may include communications performed within a component of the device **1205**, or between different components of the device **1205** that may be co-located or located in different locations (e.g., where the device **1205** may refer to a system in which one or more of the communications manager **1220**, the transceiver **1210**, the at least one memory **1225**, the code **1230**, and the at least one processor **1235** may be located in one of the different components or divided between different components).

[0242] In some examples, the communications manager **1220** may manage aspects of communications with a core

network **130** (e.g., via one or more wired or wireless backhaul links). For example, the communications manager **1220** may manage the transfer of data communications for client devices, such as one or more Ues **115**. In some examples, the communications manager **1220** may manage communications with one or more other network devices **105**, and may include a controller or scheduler for controlling communications with Ues **115** (e.g., in cooperation with the one or more other network devices). In some examples, the communications manager **1220** may support an X2 interface within an LTE/LTE-A wireless communications network technology to provide communication between network entities **105**.

[0243] The communications manager **1220** may support wireless communications in accordance with examples as disclosed herein. For example, the communications manager **1220** is capable of, configured to, or operable to support a means for transmitting control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols. The communications manager **1220** is capable of, configured to, or operable to support a means for transmitting a DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible. The communications manager **1220** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0244] Additionally, or alternatively, the communications manager **1220** may support wireless communications in accordance with examples as disclosed herein. For example, the communications manager **1220** is capable of, configured to, or operable to support a means for transmitting control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible. The communications manager **1220** is capable of, configured to, or operable to support a means for transmitting DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols. The communications manager **1220** is capable of, configured to, or operable to support a means for performing wireless communication according to one or more of the configuration or the SFI.

[0245] By including or configuring the communications manager **1220** in accordance with examples as described herein, the device **1205** may support techniques for indicating SBFD information via SFIs, which may enable reduced latency, more efficient utilization of communication resources, and improved coordination between devices.

[0246] In some examples, the communications manager **1220** may be configured to perform various operations (e.g., receiving, obtaining, monitoring, outputting, transmitting) using or otherwise in cooperation with the transceiver **1210**, the one or more antennas **1215** (e.g., where applicable), or any combination thereof. Although the communications manager **1220** is illustrated as a separate component, in some examples, one or more functions described with reference to the communications manager **1220** may be supported by or performed by the transceiver **1210**, one or more of the at least one processor **1235**, one or more of the at least one memory **1225**, the code **1230**, or any combination thereof (for example, by a processing system including at least a portion of the at least one processor **1235**, the at least one memory **1225**, the code **1230**, or any combination thereof). For example, the code **1230** may include instructions executable by one or more of the at least one processor **1235** to cause the device **1205** to perform various aspects of SBFD symbol information via SFIs as described herein, or the at least one processor **1235** and the at least one memory **1225** may be otherwise configured to, individually or collectively, perform or support such operations.

[0247] FIG. **13** shows a flowchart illustrating a method **1300** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The operations of the method **1300** may be implemented by a UE or its components as described herein. For example, the operations of the method **1300** may be performed by a UE **115** as described with reference to FIGS. **1** through **8**. In some examples, a UE may execute a set of instructions to control the functional elements of the UE to perform the described functions. Additionally, or alternatively, the UE may perform aspects of the described functions using special-purpose hardware.

[0248] At **1305**, the method may include receiving control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols. The operations of **1305** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1305** may be performed by a symbol configuration component **725** as described with reference to FIG. **7**.

[0249] At **1310**, the method may include monitoring for DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible. The operations of **1310** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1310** may be performed by an SFI monitoring component **730** as described with reference to FIG. **7**.

[0250] At **1315**, the method may include performing wireless communication according to one or more of the configuration or the SFI. The operations of **1315** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1315** may be performed by a wireless communication performance component **735** as described with reference to FIG. **7**.

[0251] FIG. **14** shows a flowchart illustrating a method **1400** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The operations of the method **1400** may be implemented by a UE or its components as described herein. For example, the operations of the method **1400** may be performed by a UE **115** as described with reference to FIGS. **1** through **8**. In some examples, a UE may execute a set of instructions to control the functional elements of the UE to perform the described functions. Additionally, or alternatively, the UE may perform aspects of the described functions using special-purpose hardware.

[0252] At **1405**, the method may include receiving control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink

or flexible. The operations of **1405** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1405** may be performed by a symbol configuration component **725** as described with reference to FIG. **7**.

[0253] At **1410**, the method may include receiving DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols. The operations of **1410** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1410** may be performed by an SFI monitoring component **730** as described with reference to FIG. **7**.

[0254] At **1415**, the method may include performing wireless communication according to one or more of the configuration or the SFI. The operations of **1415** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1415** may be performed by a wireless communication performance component **735** as described with reference to FIG. **7**.

[0255] FIG. **15** shows a flowchart illustrating a method **1500** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The operations of the method **1500** may be implemented by a network entity or its components as described herein. For example, the operations of the method **1500** may be performed by a network entity as described with reference to FIGS. **1** through **4** and **9** through **12**. In some examples, a network entity may execute a set of instructions to control the functional elements of the network entity to perform the described functions. Additionally, or alternatively, the network entity may perform aspects of the described functions using special-purpose hardware.

[0256] At **1505**, the method may include transmitting control signaling that indicates a configuration including a set of one or more SBFD symbols, where the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols. The operations of **1505** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1505** may be performed by a symbol configuration manager **1125** as described with reference to FIG. **11**.

[0257] At **1510**, the method may include transmitting DCI including a SFI, where the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible. The operations of **1510** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1510** may be performed by an SFI transmission manager **1130** as described with reference to FIG. **11**.

[0258] At **1515**, the method may include performing wireless communication according to one or more of the configuration or the SFI. The operations of **1515** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1515** may be performed by a wireless communication performance manager **1135** as described with reference to FIG. **11**.

[0259] FIG. **16** shows a flowchart illustrating a method **1600** that supports SBFD symbol information via SFIs in accordance with one or more aspects of the present disclosure. The operations of the method **1600** may be implemented by a network entity or its components as described herein. For example, the operations of the method **1600** may be performed by a network entity as described with reference to FIGS. **1** through **4** and **9** through **12**. In some examples, a network entity may execute a set of instructions to control the functional elements of the network entity to perform the described functions. Additionally, or alternatively, the network entity may perform aspects of the described functions using special-purpose hardware.

[0260] At **1605**, the method may include transmitting control signaling that indicates a configuration including a set of one or more symbols, where the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible. The operations of **1605** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1605** may be performed by a symbol configuration manager **1125** as described with reference to FIG. **11**.

[0261] At **1610**, the method may include transmitting DCI including a SFI, where the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols. The operations of **1610** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1610** may be performed by an SFI transmission manager **1130** as described with reference to FIG. **11**.

[0262] At **1615**, the method may include performing wireless communication according to one or more of the configuration or the SFI. The operations of **1615** may be performed in accordance with examples as disclosed herein. In some examples, aspects of the operations of **1615** may be performed by a wireless communication performance manager **1135** as described with reference to FIG. **11**.

[0263] The following provides an overview of aspects of the present disclosure:

[0264] Aspect 1: A method for wireless communications at a UE, comprising: receiving control signaling that indicates a configuration comprising a set of one or more SBFD symbols, wherein the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols; monitoring for DCI comprising a SFI, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible; and performing wireless communication according to one or more of the configuration or the SFI.

[0265] Aspect 2: The method of aspect 1, wherein the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or the one or more TDD flexible symbols by converting the one or more TDD downlink symbols or the one or more TDD flexible symbols to one or more SBFD symbols.

[0266] Aspect 3: The method of any of aspects 1 through 2, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, and wherein performing wireless communication comprises: receiving a downlink communication via one or more downlink subbands associated with the set of one or more SBFD symbols, wherein the downlink communication comprises one or more of a PDCCH transmission, a PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0267] Aspect 4: The method of any of aspects 1 through 3, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, and wherein performing wireless communication comprises: transmitting an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, wherein the uplink communication comprises one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission.

[0268] Aspect 5: The method of any of aspects 1 through 4, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein performing wireless communication comprises: receiving a downlink communication or transmitting an uplink communication based at least in part on a corresponding DCI, wherein receiving the downlink communication is based at least in part on canceling the uplink communication associated with one or more uplink subbands, and wherein transmitting the uplink communication is based at least in part on dropping the downlink communication associated with one or more downlink subbands.

[0269] Aspect 6: The method of any of aspects 1 through 5, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbol, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and the method further comprising: refraining from receiving a downlink communication or transmitting an uplink communication via the set of one or more SBFD symbols indicated as flexible.

[0270] Aspect 7: The method of any of aspects 1 through 6, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, and wherein performing wireless communication comprises: receiving a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, wherein the downlink communication comprises one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0271] Aspect 8: The method of any of aspects 1 through 7, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein performing wireless communication comprises: receiving a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, wherein the downlink communication comprises one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0272] Aspect 9: The method of any of aspects 1 through 8, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein performing wireless communication comprises: transmitting an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, wherein the uplink communication comprises one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission configured by higher-layer signaling.

[0273] Aspect 10: The method of any of aspects 1 through 9, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols as are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, and wherein performing wireless communication comprises: transmitting an uplink communication via one or more uplink subbands and one or more flexible subbands associated with the set of one or more SBFD symbols, wherein the uplink communication comprises one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission.

[0274] Aspect 11: The method of any of aspects 1 through 2, further comprising: determining an absence of the SFI that indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible.

[0275] Aspect 12: The method of any of aspects 1 through 11, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, and wherein performing wireless communication comprises: receiving a downlink communication via one or more TDD downlink symbols based at least in part on the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink.

[0276] Aspect 13: The method of any of aspects 1 through 12, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein performing wireless communication comprises: performing the wireless communication via the one or more SBFD symbols or one or more TDD flexible symbols.

[0277] Aspect 14: The method of any of aspects 1 through 13, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, and wherein performing wireless communication comprises: transmitting one or more messages via the one or more SBFD symbols.

[0278] Aspect 15: The method of any of aspects 1 through 14, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols or the one or more TDD downlink symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, wherein performing

wireless communication comprises: performing an uplink communication irrespective of the SFI; or declaring an error associated with configuring the one or more SBFD symbols of the set of one or more SBFD symbols in the one or more TDD flexible symbols or the one or more TDD downlink symbols.

[0279] Aspect 16: A method for wireless communications at a UE, comprising: receiving control signaling that indicates a configuration comprising a set of one or more symbols, wherein the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible; receiving DCI comprising a SFI, wherein the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols; and performing wireless communication according to one or more of the configuration or the SFI.

[0280] Aspect 17: The method of aspect 16, wherein the configuration comprises at least one SFI table comprising one or more entries indicatives of the set of one or more symbols as one or more of downlink, uplink, flexible, or SBFB.

[0281] Aspect 18: The method of any of aspects 16 through 17, further comprising: receiving a radio resource control signaling that indicates a second configuration comprising a set of one or more SBFD symbol patterns, wherein performing wireless communication is based at least in part on at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0282] Aspect 19: The method of aspect 18, wherein the SFI comprises a bitfield that enables the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0283] Aspect 20: The method of any of aspects 18 through 19, wherein the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns is applicable to one or more symbols associated with the SFI, or the at least one SBFD symbol pattern is applicable until a second SFI enables at least one second SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0284] Aspect 21: A method for wireless communications at a network entity, comprising: transmitting control signaling that indicates a configuration comprising a set of one or more SBFD symbols, wherein the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols; transmitting DCI comprising a SFI, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible; and performing wireless communication according to one or more of the configuration or the SFI.

[0285] Aspect 22: The method of aspect 21, wherein the set of one or more SBFD symbols are configured in one or more TDD downlink symbols or one or more TDD flexible symbols by converting the one or more TDD downlink symbols or one or more TDD flexible symbols to one or more SBFD symbols.

[0286] Aspect 23: The method of any of aspects 21 through 22, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, and wherein performing wireless communication comprises: transmitting a downlink communication via one or more downlink subbands associated with the set of one or more SBFD symbols, wherein the downlink communication comprises one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0287] Aspect 24: The method of any of aspects 21 through 23, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, and wherein performing wireless communication comprises: receiving an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, wherein the uplink communication comprises one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission.

[0288] Aspect 25: The method of any of aspects 21 through 24, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein performing wireless communication comprises: transmitting a downlink communication or receiving uplink communication based at least in part on a corresponding DCI, wherein transmitting the downlink communication is based at least in part on canceling the uplink communication associated with one or more uplink subbands, and wherein receiving the uplink communication is based at least in part on dropping the downlink communication associated with one or more downlink subbands.

[0289] Aspect 26: The method of any of aspects 21 through 25, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, and wherein performing wireless communication comprises: transmitting a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, wherein the downlink communication comprises one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0290] Aspect 27: The method of any of aspects 21 through 26, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein performing wireless communication comprises: transmitting a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols, wherein the downlink communication comprises one or more of a PDCCH transmission, an PDSCH transmission, a CSI-RS transmission, or a PRS transmission.

[0291] Aspect 28: The method of any of aspects 21 through 27, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein performing wireless communication

comprises: receiving an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols, wherein the uplink communication comprises one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission configured by higher-layer signaling.

[0292] Aspect 29: The method of any of aspects 21 through 28, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols as are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, and wherein performing wireless communication comprises: receiving an uplink communication via one or more uplink subbands and one or more flexible subbands associated with the set of one or more SBFD symbols, wherein the uplink communication comprises one or more of a PUCCH transmission, an PUSCH transmission, an SRS transmission, or a PRACH transmission.

[0293] Aspect 30: The method of any of aspects 21 through 29, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, and wherein performing wireless communication comprises: transmitting a downlink communication via one or more TDD downlink symbols based at least in part on the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink.

[0294] Aspect 31: The method of any of aspects 21 through 30, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein performing wireless communication comprises: performing the wireless communication via the one or more SBFD symbols or one or more TDD flexible symbols.

[0295] Aspect 32: The method of any of aspects 21 through 31, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, and wherein performing wireless communication comprises: receiving one or more messages via the one or more SBFD symbols.

[0296] Aspect 33: The method of any of aspects 21 through 32, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols or the one or more TDD downlink symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, wherein performing wireless communication comprises: performing an uplink communication irrespective of the SFI.

[0297] Aspect 34: A method for wireless communications at a network entity, comprising: transmitting control signaling that indicates a configuration comprising a set of one or more symbols, wherein the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible; transmitting DCI comprising a SFI, wherein the SFI indicates each of one or more symbols of the set of one or more symbols as TDD downlink symbols, TDD flexible symbols, or SBFD symbols; and performing wireless communication according to one or more of the configuration or the SFI.

[0298] Aspect 35: The method of aspect 34, wherein the configuration comprises at least one SFI table comprising one or more entries indicatives of the set of one or more symbols as one or more of downlink, uplink, flexible, or SBFB.

[0299] Aspect 36: The method of any of aspects 34 through 35, further comprising: transmitting a radio resource control signaling that indicates a second configuration comprising a set of one or more SBFD symbol patterns, wherein performing wireless communication is based at least in part on at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0300] Aspect 37: The method of aspect 36, wherein the SFI comprises a bitfield that enables the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0301] Aspect 38: The method of any of aspects 36 through 37, wherein the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns is applicable to one or more symbols associated with the SFI, or the at least one SBFD symbol pattern is applicable until a second SFI enables at least one second SBFD symbol pattern of the set of one or more SBFD symbol patterns.

[0302] Aspect 39: A UE for wireless communications, comprising one or more memories storing processor-executable code, and one or more processors coupled with the one or more memories and individually or collectively operable to execute the code to cause the UE to perform a method of any of aspects 1 through 15.

[0303] Aspect 40: A UE for wireless communications, comprising at least one means for performing a method of any of aspects 1 through 15.

[0304] Aspect 41: A non-transitory computer-readable medium storing code for wireless communications, the code comprising instructions executable by one or more processors to perform a method of any of aspects 1 through 15.

[0305] Aspect 42: A UE for wireless communications, comprising one or more memories storing processor-executable code, and one or more processors coupled with the one or more memories and individually or collectively operable to execute the code to cause the UE to perform a method of any of aspects 16 through 20.

[0306] Aspect 43: A UE for wireless communications, comprising at least one means for performing a method of any of aspects 16 through 20.

[0307] Aspect 44: A non-transitory computer-readable medium storing code for wireless communications, the code comprising instructions executable by one or more processors to perform a method of any of aspects 16 through 20.

[0308] Aspect 45: A network entity for wireless communications, comprising one or more memories storing processor-executable code, and one or more processors coupled with the one or more memories and individually or collectively operable to execute the code to cause the network entity to perform a method of any of aspects 21 through 33.

[0309] Aspect 46: A network entity for wireless communications, comprising at least one means for performing a method of any of aspects 21 through 33.

[0310] Aspect 47: A non-transitory computer-readable medium storing code for wireless communications, the code comprising instructions executable by one or more processors to perform a method of any of aspects 21 through 33.

[0311] Aspect 48: A network entity for wireless communications, comprising one or more memories storing processor-executable code, and one or more processors coupled with the one or more memories and individually or collectively operable to execute the code to cause the network entity to perform a method of any of aspects 34 through 38.

[0312] Aspect 49: A network entity for wireless communications, comprising at least one means for performing a method of any of aspects 34 through 38.

[0313] Aspect 50: A non-transitory computer-readable medium storing code for wireless communications, the code comprising instructions executable by one or more processors to perform a method of any of aspects 34 through 38.

[0314] It should be noted that the methods described herein describe possible implementations. The operations and the steps may be rearranged or otherwise modified and other implementations are possible. Further, aspects from two or more of the methods may be combined.

[0315] Although aspects of an LTE, LTE-A, LTE-A Pro, or NR system may be described for purposes of example, and LTE, LTE-A, LTE-A Pro, or NR terminology may be used in much of the description, the techniques described herein are applicable beyond LTE, LTE-A, LTE-A Pro, or NR networks. For example, the described techniques may be applicable to various other wireless communications systems such as Ultra Mobile Broadband (UMB), Institute of Electrical and Electronics Engineers (IEEE) 802.11 (Wi-Fi), IEEE 802.16 (WiMAX), IEEE 802.20, Flash-OFDM, as well as other systems and radio technologies not explicitly mentioned herein.

[0316] Information and signals described herein may be represented using any of a variety of different technologies and techniques. For example, data, instructions, commands, information, signals, bits, symbols, and chips that may be referenced throughout the description may be represented by voltages, currents, electromagnetic waves, magnetic fields or particles, optical fields or particles, or any combination thereof.

[0317] The various illustrative blocks and components described in connection with the disclosure herein may be implemented or performed using a general-purpose processor, a DSP, an ASIC, a CPU, a graphics processing unit (GPU), a neural processing unit (NPU), an FPGA or other programmable logic device, discrete gate or transistor logic, discrete hardware components, or any combination thereof designed to perform the functions described herein. A general-purpose processor may be a microprocessor but, in the alternative, the processor may be any processor, controller, microcontroller, or state machine. A processor may also be implemented as a combination of computing devices (e.g., a combination of a DSP and a microprocessor, multiple microprocessors, one or more microprocessors in conjunction with a DSP core, or any other such configuration). Any functions or operations described herein as being capable of being performed by a processor may be performed by multiple processors that, individually or collectively, are capable of performing the described functions or operations.

[0318] The functions described herein may be implemented using hardware, software executed by a processor, firmware, or any combination thereof. If implemented using software executed by a processor, the functions may be stored as or transmitted using one or more instructions or code of a computer-readable medium. Other examples and implementations are within the scope of the disclosure and appended claims. For example, due to the nature of software, functions described herein may be implemented using software executed by a processor, hardware, firmware, hardwiring, or combinations of any of these. Features implementing functions may also be physically located at various positions, including being distributed such that portions of functions are implemented at different physical locations.

[0319] Computer-readable media includes both non-transitory computer storage media and communication media including any medium that facilitates transfer of a computer program from one location to another. A non-transitory storage medium may be any available medium that may be accessed by a general-purpose or special-purpose computer. By way of example, and not limitation, non-transitory computer-readable media may include RAM, ROM, electrically erasable programmable ROM (EEPROM), flash memory, compact disk (CD) ROM or other optical disk storage, magnetic disk storage or other magnetic storage devices, or any other non-transitory medium that may be used to carry or store desired program code means in the form of instructions or data structures and that may be accessed by a general-purpose or special-purpose computer or a general-purpose or special-purpose processor. Also, any connection is properly termed a computer-readable medium. For example, if the software is transmitted from a website, server, or other remote source using a coaxial cable, fiber optic cable, twisted pair, digital subscriber line (DSL), or wireless technologies such as infrared, radio, and microwave, then the coaxial cable, fiber optic cable, twisted pair, DSL, or wireless technologies such as infrared, radio, and microwave are included in the definition of computer-readable medium. Disk and disc, as used herein, include CD, laser disc, optical disc, digital versatile disc (DVD), floppy disk, and Blu-ray disc. Disks may reproduce data magnetically, and discs may reproduce data optically using lasers. Combinations of the above are also included within the scope of computer-readable media. Any functions or operations described herein as being capable of being performed by a memory may be performed by multiple memories that, individually or collectively, are capable of performing the described functions or operations.

[0320] As used herein, including in the claims, "or" as used in a list of items (e.g., a list of items prefaced by a phrase such as "at least one of" or "one or more of") indicates an inclusive list such that, for example, a list of at least one of A, B, or C means A or B or C or AB or AC or BC or ABC (i.e., A and B and C). Also, as used herein, the phrase "based on" shall not be construed as a reference to a closed set of conditions. For example, an example step that is described as "based on condition A" may be based on both a condition A and a condition B without departing from the scope of the present disclosure. In other words, as used herein, the phrase "based on" shall be construed in the same manner as the phrase "based at least in part on."

[0321] As used herein, including in the claims, the article "a" before a noun is open-ended and understood to refer to "at least one" of those nouns or "one or more" of those

nouns. Thus, the terms "a," "at least one," "one or more," and "at least one of one or more" may be interchangeable. For example, if a claim recites "a component" that performs one or more functions, each of the individual functions may be performed by a single component or by any combination of multiple components. Thus, the term "a component" having characteristics or performing functions may refer to "at least one of one or more components" having a particular characteristic or performing a particular function. Subsequent reference to a component introduced with the article "a" using the terms "the" or "said" may refer to any or all of the one or more components. For example, a component introduced with the article "a" may be understood to mean "one or more components," and referring to "the component" subsequently in the claims may be understood to be equivalent to referring to "at least one of the one or more components." Similarly, subsequent reference to a component introduced as "one or more components" using the terms "the" or "said" may refer to any or all of the one or more components. For example, referring to "the one or more components" subsequently in the claims may be understood to be equivalent to referring to "at least one of the one or more components."

[0322] The term "determine" or "determining" encompasses a variety of actions and, therefore, "determining" can include calculating, computing, processing, deriving, investigating, looking up (such as via looking up in a table, a database, or another data structure), ascertaining, and the like. Also, "determining" can include receiving (e.g., receiving information), accessing (e.g., accessing data stored in memory), and the like. Also, "determining" can include resolving, obtaining, selecting, choosing, establishing, and other such similar actions.

[0323] In the appended figures, similar components or features may have the same reference label. Further, various components of the same type may be distinguished by following the reference label by a dash and a second label that distinguishes among the similar components. If just the first reference label is used in the specification, the description is applicable to any one of the similar components having the same first reference label irrespective of the second reference label or other subsequent reference label.

[0324] The description set forth herein, in connection with the appended drawings, describes example configurations and does not represent all the examples that may be implemented or that are within the scope of the claims. The term "example" used herein means "serving as an example, instance, or illustration" and not "preferred" or "advantageous over other examples." The detailed description includes specific details for the purpose of providing an understanding of the described techniques. These techniques, however, may be practiced without these specific details. In some figures, known structures and devices are shown in block diagram form in order to avoid obscuring the concepts of the described examples.

[0325] The description herein is provided to enable a person having ordinary skill in the art to make or use the disclosure. Various modifications to the disclosure will be apparent to a person having ordinary skill in the art, and the generic principles defined herein may be applied to other variations without departing from the scope of the disclosure. Thus, the disclosure is not limited to the examples and designs described herein but is to be accorded the broadest scope consistent with the principles and novel features disclosed herein.

What is claimed is:

1. A user equipment (UE), comprising:

one or more memories storing processor-executable code; and

one or more processors coupled with the one or more memories and individually or collectively operable to execute the code to cause the UE to:

receive control signaling that indicates a configuration comprising a set of one or more subband full duplex (SBFD) symbols, wherein the set of one or more SBFD symbols are configured in one or more time division duplex (TDD) downlink symbols or one or more TDD flexible symbols;

monitor for downlink control information comprising a slot format indicator (SFI), wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible; and

perform wireless communication according to one or more of the configuration or the SFI.

2. The UE of claim **1**, wherein the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or one or more TDD flexible symbols by converting the one or more TDD downlink symbols or one or more TDD flexible symbols to one or more SBFD symbols.

3. The UE of claim **1**, the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

receive a downlink communication via one or more downlink subbands associated with the set of one or more SBFD symbols,

wherein the downlink communication comprises one or more of a physical downlink control channel (PDCCH) transmission, a physical downlink shared channel (PDSCH) transmission, a channel state information reference signal (CSI-RS) transmission, or a positioning reference signal (PRS) transmission.

4. The UE of claim **1**, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

transmit an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols,

wherein the uplink communication comprises one or more of a physical uplink control channel (PUCCH) transmission, a physical uplink shared channel (PUSCH) transmission, a sounding reference signal (SRS) transmission, or a physical random access channel (PRACH) transmission.

5. The UE of claim 1, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

receive a downlink communication or transmit an uplink communication based at least in part on a corresponding downlink control information,

wherein to receive the downlink communication is based at least in part on canceling the uplink communication associated with one or more uplink subbands, and wherein to transmit the uplink communication is based at least in part on dropping the downlink communication associated with one or more downlink subbands.

6. The UE of claim 1, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein the one or more processors are individually or collectively further operable to execute the code to cause the UE to:

refrain from receiving a downlink communication or transmitting an uplink communication via the set of one or more SBFD symbols indicated as flexible.

7. The UE of claim 1, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

receive a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols,

wherein the downlink communication comprises one or more of a physical downlink control channel (PDCCH) transmission, a physical downlink shared channel (PDSCH) transmission, a channel state information reference signal (CSI-RS) transmission, or a positioning reference signal (PRS) transmission.

8. The UE of claim 1, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

receive a downlink communication via one or more flexible subbands associated with the set of one or more SBFD symbols,

wherein the downlink communication comprises one or more of a physical downlink control channel (PDCCH) transmission, a physical downlink shared channel (PDSCH) transmission, a channel state information reference signal (CSI-RS) transmission, or a positioning reference signal (PRS) transmission.

9. The UE of claim 1, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

transmit an uplink communication via one or more uplink subbands associated with the set of one or more SBFD symbols,

wherein the uplink communication comprises one or more of a physical uplink control channel (PUCCH) transmission, a physical uplink shared channel (PUSCH) transmission, a sounding reference signal (SRS) transmission, or a physical random access channel (PRACH) transmission configured by higher-layer signaling.

10. The UE of claim 1, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols as are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

transmit an uplink communication via one or more uplink subbands and one or more flexible subbands associated with the set of one or more SBFD symbols,

wherein the uplink communication comprises one or more of a physical uplink control channel (PUCCH) transmission, a physical uplink shared channel (PUSCH) transmission, a sounding reference signal (SRS) transmission, or a physical random access channel (PRACH) transmission.

11. The UE of claim 1, wherein the one or more processors are individually or collectively further operable to execute the code to cause the UE to:

determine an absence of the SFI that indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible.

12. The UE of claim 1, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or in the one or more TDD flexible symbols,

wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

receive a downlink communication via one or more TDD downlink symbols based at least in part on the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink.

13. The UE of claim 1, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD downlink symbols or in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as flexible, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

perform the wireless communication via the one or more SBFD symbols or one or more TDD flexible symbols.

14. The UE of claim **1**, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

transmit one or more messages via the one or more SBFD symbols.

15. The UE of claim **1**, wherein the configuration indicates that one or more SBFD symbols of the set of one or more SBFD symbols are configured in the one or more TDD flexible symbols or the one or more TDD downlink symbols, wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as uplink, and wherein, to perform wireless communication, the one or more processors are individually or collectively operable to execute the code to cause the UE to:

perform an uplink communication irrespective of the SFI; or

declare an error associated with configuring the one or more SBFD symbols of the set of one or more SBFD symbols in the one or more TDD flexible symbols or the one or more TDD downlink symbols.

16. A user equipment (UE), comprising:

one or more memories storing processor-executable code; and

one or more processors coupled with the one or more memories and individually or collectively operable to execute the code to cause the UE to:

receive control signaling that indicates a configuration comprising a set of one or more symbols, wherein the configuration indicates one or more symbols of the set of one or more symbols as downlink or flexible;

receive downlink control information comprising a slot format indicator (SFI), wherein the SFI indicates each of one or more symbols of the set of one or more symbols as time division duplexing (TDD) downlink symbols, TDD flexible symbols, or subband full duplex (SBFD) symbols; and

perform wireless communication according to one or more of the configuration or the SFI.

17. The UE of claim **16**, wherein the configuration comprises at least one SFI table comprising one or more entries indicatives of the set of one or more symbols as one or more of downlink, uplink, flexible, or SBFB.

18. The UE of claim **16**, wherein the one or more processors are individually or collectively further operable to execute the code to cause the UE to:

receive a radio resource control signaling that indicates a second configuration comprising a set of one or more SBFD symbol patterns,

wherein to perform wireless communication is based at least in part on at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns and wherein the SFI comprises a bitfield that enables the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns.

19. The UE of claim **18**, wherein the at least one SBFD symbol pattern of the set of one or more SBFD symbol patterns is applicable to one or more symbols associated with the SFI, or the at least one SBFD symbol pattern is applicable until a second SFI enables at least one second SBFD symbol pattern of the set of one or more SBFD symbol patterns.

20. A method for wireless communications at a user equipment (UE), comprising:

receiving control signaling that indicates a configuration comprising a set of one or more subband full duplex (SBFD) symbols, wherein the set of one or more SBFD symbols are configured in one or more time division duplex (TDD) downlink symbols or one or more TDD flexible symbols;

monitoring for downlink control information comprising a slot format indicator (SFI), wherein the SFI indicates each of one or more SBFD symbols of the set of one or more SBFD symbols as downlink, uplink, or flexible; and

performing wireless communication according to one or more of the configuration or the SFI.

* * * * *