CLAIMS

1. A method (2600) of communication for multi-link multi-beam communications apparatus, comprising:

obtaining (2602) first measurement information for a first wireless communication link, wherein the obtaining of the first measurement information comprises receiving first signals using a first beam associated with the first wireless communication link;

obtaining (2604) second measurement information for a second wireless communication link, wherein the obtaining of the second measurement information comprises receiving second signals using a second beam associated with the second wireless communication link;

aggregating the first measurement information and the second measurement information; and

generating (2606) an event trigger based on the aggregated first measurement information and second measurement information.

2. The method of claim 1, further comprising:

communicating first transport blocks via the first wireless communication link,

wherein the first transport blocks are processed independently of second transport blocks communicated via the second wireless communication link, wherein

the communication of the first transport blocks is via the first beam; and

the communication of the second transport blocks is via the second beam.

3. The method of claim 2, wherein error processing of the first transport blocks is independent of error processing of the second transport blocks.

4. The method of claim 2, wherein cyclic redundancy check (CRC) processing of the first transport blocks is independent of CRC processing of the second transport blocks.

5. The method of claim 1, further comprising:

communicating on the first wireless communication link using a first radio frequency (RF) chain of the apparatus; and

communicating on the second wireless communication link using a second RF chain of the apparatus, or,

communicating on the first wireless communication link using a first antenna sub-array of the apparatus; and

communicating on the second wireless communication link using a second antenna sub-array of the apparatus.

6. An apparatus (202, 302, 400, 1302, 1400, 2800) for multi-link multi-beam communication, comprising:

means for obtaining (1412, 2812) first measurement information (1322) for a first wireless communication link (1308) , wherein the obtaining of the first measurement information comprises receiving first signals using a first beam associated with the first wireless communication link;

means for obtaining (1412, 2812) second measurement information (1324) for a second wireless communication link (1310), wherein the obtaining of the second measurement information comprises receiving second signals using a second beam associated with the second wireless communication link;

means for aggregating the first measurement information and the second measurement information; and

means for generating (1302, 1304, 1306) an event trigger based on the aggregated first measurement information and second measurement information.

7. The apparatus of claim 6, further comprising:

means for communicating first transport blocks via the first wireless communication link; and

the first transport blocks are processed independently of second transport blocks communicated via the second wireless communication link, wherein

the communication of the first transport blocks is via the first beam; and

the communication of the second transport blocks is via the second beam.

8. The apparatus of claim 6, further comprising:

means for communicating on the first wireless communication link using a first radio

frequency (RF) chain of the apparatus; and

means for communicating on the second wireless communication link using a second RF chain of the apparatus.

9. The apparatus of claim 6, further comprising:

means for outputting the first measurement information for transmission to another apparatus.

10. A method (2700) of communication for multi-link multi-beam communications apparatus, comprising:

obtaining (2702) first measurement information for a first wireless communication link, wherein the obtaining of the first measurement information comprises a first measurement operation using a first beam;

generating (2704) a first event trigger based on the first measurement information;

obtaining (2706) second measurement information for a second wireless communication link, wherein the obtaining of the second measurement information comprises a second measurement operation using a second beam,

wherein the second measurement operation is independent of the first measurement operation; and

generating (2707) a second event trigger based on the second measurement information.

11. The method of claim 10, further comprising:

communicating first transport blocks via the first wireless communication link; and

communicating second transport blocks via the second wireless communication link; and

processing the first transport blocks independently of the second transport blocks, wherein the processing comprises error processing and cyclic redundancy check (CRC) processing.

12. The method of claim 10, further comprising:

communicating via the first wireless communication link using a first radio frequency (RF) chain of the apparatus; and

communicating via the second wireless communication link using a second RF chain of

the apparatus, or,

communicating via the first wireless communication link using a first antenna sub-array of the apparatus; and

communicating via the second wireless communication link using a second antenna sub-array of the apparatus.

13. An apparatus (202, 302, 400, 1302, 1400, 2800) for multi-link multi-beam communication, comprising:

means for obtaining (1412, 2812) first measurement information (1322) for a first wireless communication link, wherein the obtaining of the first measurement information comprises a first measurement operation using a first beam;

means for generating (1302, 1304, 1306) a first event trigger based on the first measurement information;

means for obtaining (1412, 2812) second measurement information (1324) for a second wireless communication link, wherein the obtaining of the second measurement information comprises a second measurement operation using a second beam,

wherein the second measurement operation is independent of the first measurement operation; and

means for generating (1302, 1304, 1306) a second event trigger based on the second measurement information.

14. The apparatus of claim 10, further comprising:

means for communicating first transport blocks via the first wireless communication link;

means for communicating second transport blocks via the second wireless communication link; and

means for processing the first transport blocks independently of the second transport blocks.

15. A non-transitory computer-readable medium storing computer-executable code, including code to perform the method of any of claims 1 and 10.