I/We Claim:

1. A terminal device for communication configured for:

receiving, from a network device (120), a configuration of one or more configured grant, CG, resources for a small data transmission, SDT, procedure and a list of one or more data radio bearers, DRBs, associated with respective logical channels allowed for SDT over the at least one of the one or more CG resources; and

while the CG-SDT procedure is on-going:

if there is no valid SSB associated with the one or more CG-SDT resources, checking whether data associated with at least one of the one or more DRBs to be transmitted is available in a buffer of the terminal device, and

if data associated with at least one of the one or more DRBs to be transmitted is available in the buffer, initiating a random access procedure.

2. The terminal device of claim 1, configured for:

while the CG-SDT procedure is on-going:

if there is no valid SSB associated with the one or more CG-SDT resources, checking whether data associated with at least one of the one or more DRBs to be transmitted is available in the buffer of the terminal device, and

if data associated with at least one of the one or more DRBs to be transmitted is not available in the buffer, not initiating the random access procedure.

3. The terminal device of any one of claims 1-2, configured for:

determining whether the initiation of the random access procedure is to be delayed by not initiating the random access procedure.

4. The terminal device of claim 3, wherein configured for:

determining that the random access procedure may be initiated by determining that there is no valid SSB associated with the one or more CG-SDT resources; and

in response to determining that the random access procedure may be initiated, determining whether initiation of the random access procedure is to be delayed by considering available data, associated with at least one of the one or more DRBs, in the

buffer.

5. The terminal device of claim 4, configured for:

delaying initiation of the random access procedure until data associated with at least one of the one or more DRBs to be transmitted is available in the buffer and there is no valid SSB associated with the CG-SDT procedure.

6. The terminal device of any one of claims 1-5, configured for:

when it is determined that reference signal received power, RSRP, of no SSB associated with the one or more CG-SDT resources is above a RSRP threshold, determining that there is no valid SSB associated with the one or more CG-SDT resources.

7. The terminal device of any one of claims 1-6, wherein the random access procedure is different from a random access SDT, RA-SDT, procedure.

8. A method, comprising

receiving, at a terminal device (110) and from a network device (120), a configuration of one or more configured grant, CG, resources for a small data transmission, SDT, procedure and a list of one or more data radio bearers, DRBs, associated with respective logical channels allowed for SDT over the at least one of the one or more CG resources; and

while the CG-SDT procedure is on-going:

if there is no valid SSB associated with the one or more CG-SDT resources, checking whether data associated with at least one of the one or more DRBs to be transmitted is available in a buffer of the terminal device, and

if data associated with at least one of the one or more DRBs to be transmitted is available in the buffer, initiating a random access procedure.

9. The method of claim 8, further comprising:

while the CG-SDT procedure is on-going:

if there is no valid SSB associated with the one or more CG-SDT resources, checking whether data associated with at least one of the one or more DRBs to be transmitted is available in the buffer of the terminal device, and

if data associated with at least one of the one or more DRBs to be

transmitted is not available in the buffer, not initiating the random access procedure.

10. The method of any one of claims 8-9, further comprising:

determining whether the initiation of the random access procedure is to be delayed by not initiating the random access procedure.

11. The method of claim 10, further comprising:

determining that the random access procedure may be initiated by determining that there is no valid SSB associated with the one or more CG-SDT resources; and

in response to determining that the random access procedure may be initiated, determining whether initiation of the random access procedure is to be delayed by considering available data, associated with at least one of the one or more DRBs, in the buffer.

12. The method of claim 11, further comprising:

delaying initiation of the random access procedure until data associated with at least one of the one or more DRBs to be transmitted is available in the buffer and there is no valid SSB associated with the CG-SDT procedure.

13. The method of any one of claims 8-12, further comprising:

when it is determined that reference signal received power, RSRP, of no SSB associated with the one or more CG-SDT resources is above a RSRP threshold, determining that there is no valid SSB associated with the one or more CG-SDT resources.

14. The method of any one of claims 8-13, wherein the random access procedure is different from a random access SDT, RA-SDT, procedure.

15. A computer readable storage medium comprising program instructions stored thereon, the instructions, when executed by a processor of a device, causing the device to perform the method of any of claims 8-14.