WHAT IS CLAIMED IS:

1. A random access method, applied to a user equipment (UE), comprising:

receiving resource configuration information, wherein the resource configuration information is configured to configure resources in a specified random access resource pool corresponding to at least one network slice;

determining a first random access resource based on slice information of target network slice and the resource configuration information, wherein the target network slice is network slice for the UE to initiate a random access; and

initiating the random access based on the first random access resource,

wherein the number of the target network slices is multiple, and determining the first random access resource based on the slice information of the target network slice and the resource configuration information comprises:

taking resources in a specified random access resource pool corresponding to one target network slice of multiple target network slices as the first random access resource based on a priority order of the multiple target network slices and the resource configuration information.

2. The method of claim 1, wherein determining the first random access resource based on the slice information of the target network slice and the resource configuration information comprises at least one of:

taking a common random access resource as the first random access resource, in response to resources in a specified random access resource pool corresponding to the target network slice being not configured in the resource configuration information; or

taking resources in a specified random access resource pool corresponding to the target network slice as the first random access resource, in response to the resources in the specified random access resource pool corresponding to the target network slice being configured in the resource configuration information.

3. The method of claim 1, wherein receiving the resource configuration information comprises one of:

receiving a system message carrying the resource configuration information;

receiving a physical downlink control channel (PDCCH) instruction carrying the resource configuration information; or

receiving a radio resource control (RRC) message carrying the resource configuration information.

4. The method of claim 1, wherein determining the first random access resource based on the slice information of the target network slice and the resource configuration information further comprises at least one of:

determining, by the UE, the priority order of the multiple target network slices based on service priorities; or

determining the priority order of the multiple target network slices based on a received first indication message.

5. The method of claim 1, further comprising:

reinitiating the random access based on a second random access resource fallen back to, in response to satisfying a preset fallback condition;

wherein the second random access resource is any one of alternative random access resource pools, and the alternative random access resource pools comprise at least one of:

resources in a specified random access resource pool corresponding to other network slices, other random access resources corresponding to the target network slice, or common random access resources; or

the second random access resource is a random access resource which is determined based on a received second indication message.

6. The method of claim 5, wherein the number of the resources in the specified random access resource pool corresponding to the other network slices is multiple, and the method further comprises one of:

determining a priority order of multiple resources in the specified random access resource pool corresponding to the other network slices by the UE in a preset way;

determining a priority order of multiple resources in the specified random access resource pool corresponding to the other network slices based on a received third indication message;

determining a priority order of multiple other random access resources corresponding to the target network slice by the UE in a preset way;

determining a priority order of multiple other random access resources corresponding to the target network slice based on a received fourth indication message; or

determining the second random access resource in the alternative random access resource pools according to a preset priority order of random access resources.

7. The method of claim 5, further comprising one of:

the second indication message being configured to indicate a resource selection index;

the second indication message being configured to configure the second random access resource;

receiving a random access response message carrying the second indication

message; or

receiving a radio resource control (RRC) message carrying the second indication message.

8. The method of claim 5, wherein the preset fallback condition comprises one of:

the number of failures of initiating the random access based on the first random access resource reaching a first fallback number threshold;

a first fallback timer expiring;

receiving a random access resource fallback indication message corresponding to the target network slice;

receiving a random access response message carrying the random access resource fallback indication message; or

receiving an RRC message carrying the random access resource fallback indication message,

wherein the resource configuration information is further configured to configure at least one of the first fallback number threshold and the first fallback timer.

9. The method of claim 8, wherein the random access resource fallback indication message is configured to configure at least one of a second fallback number threshold or a second fallback timer,

wherein the random access resource fallback indication message carries a fallback probability value, and

reinitiating the random access based on the second random access resource fallen back to comprises:

falling back in response to a generated random number and the fallback probability value, and

reinitiating the random access based on the second random access resource fallen back to.

10. The method of claim 5, wherein the resource configuration information carries a fallback probability value, and

reinitiating the random access based on the second random access resource fallen back to comprises:

falling back in response to a generated random number and the fallback probability value, and

reinitiating the random access based on the second random access resource fallen back to.

11. The method of claim 1, further comprising one of:

acquiring the slice information of the target network slice sent by a non-access

stratum to an access stratum in case that the non-access stratum requests the access stratum to initiate an RRC connection;

receiving a paging message carrying the slice information of the target network slice;

receiving a physical downlink control channel (PDCCH) instruction carrying the slice information of the target network slice; or

taking slice information associated with a logical channel with data to be transmitted as the slice information of the target network slice, in response to a logical channel identifier being associated with slice information.

12. A random access method, applied to a base station, comprising:

determining resource configuration information, wherein the resource configuration information is configured to configure resources in a specified random access resource pool corresponding to at least one network slice; and

sending the resource configuration information;

wherein a priority order of multiple target network slices and the resource configuration information are used for a UE to determine a first random access resource for initiating the random access from a specified random access resource pool corresponding to one target network slice of the multiple target network slices, and the target network slice is network slice for the UE to initiate a random access.

13. The random access method of claim 12, wherein sending the resource configuration information comprises one of:

broadcasting a system message carrying the resource configuration information;

sending a physical downlink control channel (PDCCH) instruction carrying the resource configuration information;

sending a radio resource control (RRC) message carrying the resource configuration information; or

sending a first indication message, wherein the first indication message is configured to configure a priority order of multiple target network slices, and the target network slice is network slice for a user equipment (UE) to initiate a random access.

14. The random access method of claim 12, further comprising:

sending a second indication message, wherein the second indication message is configured for a user equipment (UE) to determine a second random access resource which is used when resource fallback is performed,

wherein the second indication message is configured to indicate a resource selection index or to configure the second random access resource,

wherein sending the second indication message comprises one of:

sending a random access response message carrying the second indication message; or

sending a radio resource control (RRC) message carrying the second indication information.

15. The random access method of claim 12, further comprising one of:

sending a third indication message, wherein the third indication message is configured to configure a priority order of multiple resources in a specified random access resource pool corresponding to other network slices except the target network slice, and the target network slice is network slice for a UE to initiate a random access; or

sending a fourth indication message, wherein the fourth indication message is configured to configure a priority order of multiple other random access resources corresponding to the target network slice, and the target network slice is network slice for a UE to initiate a random access.

16. The random access method of claim 12, further comprising:

sending a random access resource fallback indication message,

wherein sending the random access resource fallback indication message comprises one of:

sending a random access response message carrying the random access resource fallback indication message; or

sending a radio resource control (RRC) message carrying the random access resource fallback indication message.

17. The random access method of claim 16, wherein the random access resource fallback indication message is configured to configure at least one of a second fallback number threshold or a second fallback timer,

wherein the random access resource fallback indication message carries a fallback probability value.

18. The random access method of claim 12, wherein the resource configuration information carries a fallback probability value.

19. The random access method of claim 12, further comprising at least one of:

sending a paging message carrying the slice information of the target network slice; or

sending a physical downlink control channel (PDCCH) instruction carrying the slice information of the target network slice.

20. A random access device, comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein the processor is configured to execute the random access method of any one of claims 1 to 11.