the apparatus and the units described above, one may refer to the processes in the above method embodiments, and the processes are not repeated herein.

[0109] In the embodiments of the present disclosure, it should be understood that the disclosed apparatus and method may be realized in other forms. The apparatus embodiments described above are only schematic. For example, the units are divided based on logical function, and the units may be divided in other manners in actual implementation. For example, multiple units or components can be combined or integrated into another system, or some features may be ignored or not performed. In addition, the mutual coupling or direct coupling or communication connection shown or discussed may be indirect coupling or communication connection through some communication interfaces, apparatuses or units, which may be electrical, mechanical or other form.

[0110] Units described as separate components may be or may not be physically separated. Components shown as units may be or may not be physical units, that is, may be located in one location or may be distributed in multiple network units. Parts or all of the units may be selected based on actual conditions, to implement the technical solutions of the present disclosure.

[0111] In addition, functional units in the embodiments of the present disclosure may be integrated in one processing unit. Alternatively, the functional units may exist physically separately. Alternatively, two or more of the functional units may be integrated in one unit.

[0112] If the functions are implemented in a form of a software functional unit and sold or used as an independent product, the functions may be stored in a computer-readable storage medium. Based on this understanding, the essence of the technical solutions of the present disclosure, in other words, a part of the technical solutions that makes a contribution to the conventional technology or a part of the technical solutions may be embodied in a form of a software product. The computer software product is stored in a storage medium which includes several instructions used to cause a computer device (which may be a personal computer, a server, a network device or the like) to implement all or a part of steps of the URL refreshing method in the CDN described in the embodiments of the present disclosure. The storage medium described above includes various media which can store program code, such as a USB flash disk, a mobile hard disk, a read-only memory (ROM), a random access memory (RAM), a disk, or an optical disc.

CLAIMS

1. A uniform resource locator (URL) refreshing method in a content delivery network (CDN), comprising:

receiving a first refresh request, wherein the first refresh request comprises at least one to-be-refreshed URL;

comparing the at least one to-be-refreshed URL with a URL stored in a local database, wherein the local database stores a URL corresponding to a locally stored source file; and

performing a refresh operation on a to-be-refreshed URL stored in the database.

2. The method according to claim 1, wherein the URL stored in the database is determined based on a local back-to-source log, wherein the local back-to-source log comprises a back-to-source URL.

3. The method according to claim 1, wherein the performing a refresh operation on a to-be-refreshed URL stored in the database comprises:

deleting, from the at least one to-be-refreshed URL, a URL that does not exist in the database, to obtain at least one to-be-refreshed URL that exists in the database; and

performing the refresh operation on the at least one to-be-refreshed URL that exists in the database.

4. The method according to claim 1, wherein the first refresh request is from an auxiliary device, and at least one to-be-refreshed URL from the auxiliary device is obtained by the auxiliary device filtering at least one to-be-refreshed URL from a load balancing device.

5. A uniform resource locator (URL) refreshing method in a content delivery network (CDN), comprising:

receiving a second refresh request from a load balancing device, wherein the second refresh request comprises at least one to-be-refreshed URL from the load balancing device;

filtering the at least one to-be-refreshed URL from the load balancing device based on an identification stored in a local database, to obtain at least one filtered to-be-refreshed URL, wherein the local database is configured to record an identification of a source file stored in a storage device of a node including the load balancing device; and

transmitting a first refresh request to the storage device of the node including the load balancing device, wherein the first refresh request comprises the at least one filtered to-be-refreshed URL, and the storage device filters the at least one filtered to-be-refreshed URL and performs a refresh operation on the at least one filtered to-be-refreshed URL that is filtered again.

6. The method according to claim 5, wherein the identification of the source file is a domain name and the method further comprises:

receiving a back-to-source log transmitted by the storage device of the node including the load balancing device, wherein the back-to-source log comprises a back-to-source URL; and

determining storage of the local database based on the domain name in the back-to-source URL.

7. A uniform resource locator (URL) refreshing apparatus in a content delivery network (CDN), comprising:

a receiving module configured to receive a first refresh request, wherein the first refresh request comprises at least one to-be-refreshed URL;

a comparing module configured to compare the at least one to-be-refreshed URL with a URL stored in a local database, wherein the local database stores a URL corresponding to a locally stored source file; and

a refreshing module configured to perform a refresh operation on the to-be-refreshed URL stored in the database.

8. A uniform resource locator (URL) refreshing apparatus in a content delivery network (CDN), comprising:

a receiving module configured to receive a second refresh request from a load balancing device, wherein the second refresh request comprises at least one to-be-refreshed URL from the load balancing device;

a filtering module configured to filter the at least one to-be-refreshed URL from the load balancing device based on an identification stored in a local database, to obtain at least one filtered to-be-refreshed URL, wherein the local database is configured to record an

identification of a source file stored in a storage device of a node including the load balancing device; and

a transmitting module configured to transmit a first refresh request to the storage device of the node including the load balancing device, wherein the first refresh request comprises the at least one filtered to-be-refreshed URL, and the storage device filters the at least one filtered to-be-refreshed URL and perform a refresh operation on the at least one filtered to-be-refreshed URL that is filtered again.

9. A storage device, comprising a memory and a processor, wherein

the memory stores a computer program that is executable by the processor; and

the processor, when executing the computer program, performs the method according to any one of claims 1 to 4.

10. An auxiliary device, comprising a memory and a processor, wherein

the memory stores a computer program that is executable by the processor; and

the processor, when executing the computer program, performs the method according to claim 5 or 6.

11. A content delivery network (CDN) node, comprising:

a storage device configured to receive a first refresh request, wherein the first refresh request comprises at least one to-be-refreshed content delivery network (URL); compare the at least one to-be-refreshed URL with a URL stored in a local database, wherein the local database stores a URL corresponding to a locally stored source file; and perform a refresh operation on a to-be-refreshed URL stored in the database.

12. The CDN node according to claim 11, further comprising:

a load balancing device configured to transmit a first refresh request to the storage device.

13. The CDN node according to claim 11, further comprising an auxiliary device configured to:

receive a second refresh request from a load balancing device, wherein the second refresh request comprises at least one to-be-refreshed URL from the load balancing device;

filter the at least one to-be-refreshed URL from the load balancing device based on an identification stored in a local database, to obtain at least one filtered to-be-refreshed URL, wherein the local database is configured to record an identification of a source file stored in storage devices of the node; and

transmit a first refresh request to the storage device of the node, wherein the first refresh request comprises the at least one filtered to-be-refreshed URL.

14. A computer readable storage medium, wherein the computer readable storage medium stores machine-executable instructions that, when being called and executed by the processor, causes the processor to perform the method according to any one of claims 1 to 6.