CLAIMS

1. A method, comprising:

sending a query request to a processing system, wherein the query request comprises labeling information that uniquely identifies data that is needed to provide a target service;

receiving a query result corresponding to the query result from the processing system, wherein the query result comprises data that indicates whether data associated with the labeling information exists locally at the processing system; and

determining whether the data needed to provide the target service has already been completely received, based at least in part on determining whether the query result indicates that the data associated with the labeling information exists locally at the processing system;

wherein in the event that the query result indicates that the data associated with the labeling information does exist locally at the processing system, the method further comprises:

determining that the data needed to provide the target service is not completely received from the processing system; and

sending a data acquisition request to request priority for sending the data associated with the labeling information.

2. The method of claim 1, wherein the labeling information comprises an identifier associated with a receiving system and an identifier associated with the target service.

3. The method of claim 1, wherein the labeling information comprises a service type associated with a source that generated data that is needed to provide the target service and a time identifier that identifies a time segment in which the generated data that is needed to provide the target service is located.

4. The method of claim 1, wherein in the event that the query result indicates that the data associated with the labeling information does not exist locally at the processing system, further comprising:

determining that the data needed to provide the target service is completely received from the processing system; and

providing the target service based at least in part on received data associated with the labeling information.

5. The method of claim 1, wherein in the event that the query result indicates that the data

associated with the labeling information does exist locally at the processing system, further comprising:

receiving the data associated with the labeling information from the processing system.

6. A receiving system, comprising:

one or more processors configured to:

send a query request to a processing system, wherein the query request comprises labeling information that uniquely identifies data that is needed to provide a target service;

receive a query result corresponding to the query result from the processing system, wherein the query result comprises data that indicates whether data associated with the labeling information exists locally at the processing system; and

determine whether the data needed to provide the target service has already been completely received based at least in part on determining whether the query result indicates that the data associated with the labeling information exists locally at the processing system;

wherein in the event that the query result indicates that the data associated with the labeling information does exist locally at the processing system, wherein the one or more processors are further configured to:

determine that the data needed to provide the target service is not completely received from the processing system; and

send a data acquisition request to request priority for sending the data associated with the labeling information; and

one or more memories coupled to the one or more processors and configured to provide the one or more processors with instructions.

7. The receiving system of claim 6, wherein in the event that the query result indicates that the data associated with the labeling information does not exist locally at the processing system, wherein the one or more processors are further configured to:

determine that the data needed to provide the target service is completely received from the processing system; and

provide the target service based at least in part on the received data associated with the labeling information.

8. The receiving system of claim 6, wherein in the event that the query result indicates that the data associated with the labeling information does exist locally at the processing system, wherein the one or more processors are further configured to:

receive the data associated with the labeling information from the processing system.

9. A method, comprising:

receiving a query request from a receiving system, wherein the query request comprises labeling information that uniquely identifies data that is needed to provide a target service;

determining whether data associated with the labeling information exists locally;

generating a query result based at least in part on the determination of whether the data associated with the labeling information exists locally;

sending the query result to the receiving system, wherein the receiving system is configured to use the query result to determine whether data that is needed to provide the target service has already been completely received at the receiving system;

receiving from the receiving system a data acquisition request to request priority for sending the data associated with the labeling information; and

prioritizing to send the data associated with the labeling information to the receiving system.

10. The method of claim 9, wherein the labeling information comprises an identifier associated with the receiving system and an identifier associated with the target service.

11. The method of claim 9, wherein the labeling information comprises a service type associated with a source that generated data that is needed to provide the target service and a time identifier that identifies a time segment in which the generated data that is needed to provide the target service is located.

12. The method of claim 9, further comprising, prior to receipt of the query request:

receiving the data associated with the labeling information from a sending system; and

sending the data associated with the labeling information based at least in part on a

scheduling strategy.

13. The method of claim 9, wherein determining whether the data associated with the labeling information exists locally comprises querying a local database for the data associated with the labeling information.

14. A processing system, comprising:

one or more processors configured to:

receive a query request from a receiving system, wherein the query request comprises labeling information that uniquely identifies data that is needed to provide a target service;

determine whether data associated with the labeling information exists locally;

generate a query result based at least in part on the determination of whether the data associated with the labeling information exists locally;

send the query result to the receiving system, wherein the receiving system is configured to use the query result to determine whether data that is needed to provide the target service has already been completely received at the receiving system;

receive from the receiving system a data acquisition request to request priority for sending the data associated with the labeling information; and

prioritize to send the data associated with the labeling information to the receiving system; and

one or more memories coupled to the one or more processors and configured to provide the one or more processors with instructions.