CLAIMS

1. A connectivity component for configuring data communication with an application flow in an integration system, the connectivity component comprising:

an information storage device adapted to store connection configuration information associated with one or more application flows;

a registration module adapted to receive connection configuration information associated with an application flow, wherein the received connection configuration information relates to at least two different connection routes to the associated application flow, wherein connection configuration information for at least one of the at least two different connection routes comprises at least one of client libraries for data transport to the associated application flow or client libraries for data transport from the associated application flow, and to add or remove the connection configuration information to/from the information storage device based on the availability of the application flow;

a configuration component configured to identify stored connection configuration information, associated with an application flow, based on a first client initiating a connection to the application flow; and

a communication component adapted to communicate the identified connection configuration information to the first client, wherein the identified connection configuration information comprises a plurality of connection routes for selection by the first client based on factors comprising network subnet, type of transport, current latency of transport, reliability of transport, communication schedule, size of data and complexity of data, and wherein the communication component is adapted to notify the first client of a change in availability of at least one of the plurality of connection routes.

2. The connectivity component of claim 1, wherein the registration module is configured to receive the connection configuration information associated with an application flow from at least one of an off-premise server, an on-premise server, an off-premise agent, or an on-premise agent.

3. The connectivity component of claim 2, wherein the off-premise server comprises a cloud server.

4. The connectivity component of claim 1, wherein connection configuration information for a connection route further comprises connection details for the application flow.

5. The connectivity component of claim 1, wherein the communication component is adapted to establish a secure tunnel for communicating the identified connection configuration information.

6. The connectivity component of claim 1, wherein communication component is further configured to receive an application flow request from the first client, and wherein the configuration component is configured to identify stored connection configuration information for the first client based on the received application flow request.

7. The connectivity component of claim 6, wherein the application flow request comprises at least one of an application name, a flow identifier, a data payload, or entry point data.

8. A switch module, the switch module comprising:

a connectivity component, wherein the connectivity component comprises:

an information storage device adapted to store connection configuration information associated with one or more application flows;

a registration module adapted to receive connection configuration information associated with an application flow, wherein the received connection configuration information relates to at least two different connection routes to the associated application flow, wherein connection configuration information for at least one of the at least two different connection routes comprises at least one of client libraries for data transport to the associated application flow or client libraries for data transport from the associated application flow, and to add or remove the connection configuration information to/from the information storage device based on the availability of the application flow;

a configuration component configured to identify stored connection configuration information, associated with an application flow, based on a first client initiating a connection to the application flow; and

a communication component adapted to communicate the identified connection configuration information to the first client, wherein the identified connection configuration information comprises a plurality of connection routes for selection by the first client based on factors comprising network subnet, type of transport, current latency of transport, reliability of transport, communication schedule, size of data and complexity of data, and wherein the communication component is adapted to notify the first client of a change in availability of at least one of the plurality of connection routes.

9. The switch module of claim 8, wherein the registration module is configured to receive the connection configuration information associated with an application flow from at least one of an off-premise server, an on-premise server, an off-premise agent, or an on-premise agent.

10. The switch module of claim 9, wherein the off-premise server comprises a cloud server.

11. The switch module of claim 8, wherein connection configuration information for a connection route further comprises connection details for the application flow.

12. A server device, the server device comprising:

a switch module, wherein the switch module further comprises:

a connectivity component, wherein the connectivity component further comprises:

an information storage device adapted to store connection configuration information associated with one or more application flows;

a registration module adapted to receive connection configuration information associated with an application flow, wherein the received connection configuration information relates to at least two different connection routes to the associated application flow, wherein connection configuration information for at least one of the at least two different connection routes comprises at least one of client libraries for data transport to the associated application

flow or client libraries for data transport from the associated application flow, and to add or remove the connection configuration information to/from the information storage device based on the availability of the application flow;

a configuration component configured to identify stored connection configuration information, associated with an application flow, based on a first client initiating a connection to the application flow; and

a communication component adapted to communicate the identified connection configuration information to the first client, wherein the identified connection configuration information comprises a plurality of connection routes for selection by the first client based on factors comprising network subnet, type of transport, current latency of transport, reliability of transport, communication schedule, size of data and complexity of data, and wherein the communication component is adapted to notify the first client of a change in availability of at least one of the plurality of connection routes.

13. The server device of claim 12, wherein the registration module is configured to receive the connection configuration information associated with an application flow from at least one of an off-premise server, an on-premise server, an off-premise agent, or an on-premise agent.

14. The server device of claim 12, wherein connection configuration information for a connection route further comprises connection details for the application flow.

15. The server device of claim 12, wherein the server device is adapted to act as a switching component between an on-site server and an off-site server.

16. The server device of claim 12, wherein the server device is adapted to implement a part of a SaaS architecture.

17. A computer-implemented method for configuring data communication with an application flow in an integration system, the computer-implemented method comprising:

storing, in an information store, connection configuration information associated with one or more application flows;

receiving connection configuration information associated with an application flow, wherein the received connection configuration information relates to at least two different connection routes to the associated application flow, wherein connection configuration information for at least one of the at least two different connection routes comprises at least one of client libraries for data transport to the associated application flow or client libraries for data transport from the associated application flow;

adding or removing the connection configuration information to/from the information store based on the availability of the application flow;

identifying stored connection configuration information, associated with an application flow, based on a first client initiating a connection to the application flow;

communicating the identified connection configuration information to the first client, wherein the identified connection configuration information comprises a plurality of connection routes for selection by the first client based

on factors comprising network subnet, type of transport, current latency of transport, reliability of transport, communication schedule, size of data and complexity of data; and

notifying the first client of a change in availability of at least one of the plurality of connection routes.

18. The computer-implemented method of claim 17, wherein receiving the connection configuration information associated with an application flow is from at least one of an off-premise server, an on-premise server, an off-premise agent, or an on-premise agent.

19. The computer-implemented method of claim 17, wherein the off-premise server comprises a cloud server.

20. The computer-implemented method of claim 17, wherein connection configuration information for a connection route further comprises connection details for the application flow.

21. The computer-implemented method of claim 17, wherein communicating the identified connection configuration information comprises establishing a secure tunnel for communicating the identified connection configuration information.

22. The computer-implemented method of claim 17, further comprising:

receiving an application flow request from the first client, and

wherein identifying stored connection configuration information comprises identifying stored connection configuration information for the first client based on the received application flow request.

23. The computer-implemented method of claim 22, wherein the application flow request comprises at least one of an application name, a flow identifier, a data payload or entry point data.

24. A computer program product for configuring data communication with an application flow in an integration system, the computer program product comprising:

a computer readable storage medium having program instructions embodied therewith, the program instructions executable by a processing unit to cause the processing unit to perform a method comprising:

storing, in an information store, connection configuration information associated with one or more application flows;

receiving connection configuration information associated with an application flow, wherein the received connection configuration information relates to at least two different connection routes to the associated application flow, wherein connection configuration information for at least one of the at least two different connection routes comprises at least one of client libraries for data transport to the associated application flow or client libraries for data transport from the associated application flow;

adding or removing the connection configuration information to/from the information store based on the availability of the application flow;

identifying stored connection configuration information, associated with an application flow, based on a first client initiating a connection to the application flow;

communicating the identified connection configuration information to the first client, wherein the identified connection configuration information comprises a plurality of connection routes for selection by the first client based on factors comprising network subnet, type of transport, current latency of transport, reliability of transport, communication schedule, size of data and complexity of data; and

notifying the first client of a change in availability of at least one of the plurality of connection routes.

25. The computer program product of claim 24, wherein receiving the connection configuration information associated with an application flow is from at least one of an off-premise server, an on-premise server, an off-premise agent, or an on-premise agent.