

CLAIMS

1. A service implementation method based on the financial information exchange FIX protocol, comprising:
 - receiving, by a service platform, a FIX message sent by a transmitting end, wherein the FIX message comprises different types of service data, and the service data is in the form of a character string (101);
 - searching a script list for a service script corresponding to the FIX message based on service type information in the service data, wherein the script list stores service scripts corresponding to different FIX protocol versions, and the service script comprises service logic (102); and
 - executing the service script and processing the service data based on the service logic (103).
2. The method according to claim 1, wherein the FIX message is encapsulated into a universal FIX message.
3. The method according to claim 1, wherein the method further comprises:
 - writing universal service logic into protocol code on the service platform, wherein the universal service logic is applicable to any service type.
4. The method according to claim 3, wherein after receiving the FIX message sent by the transmitting end, the method further comprises:
 - determining a message type of the FIX message based on message type information in the service data (305);
 - in response to determining that the message type indicates an application layer message, invoking an application layer method to execute universal service logic at an application layer (306); and
 - in response to determining that the message type indicates a session layer message, invoking a session layer method to execute universal service logic at a session layer (307).
5. The method according to claim 4, wherein invoking a session layer method to execute universal service logic at a session layer comprises:

when the universal service logic is reset sequence number logic at the session layer, if a session sequence number reaches a predetermined largest sequence number, resetting the session sequence number to 0; or

when the universal service logic is refuse transaction logic at the session layer, if resetting a session sequence number fails, refusing to process the FIX message; or

when the universal service logic is clear queue logic at the session layer, if a cache occupied by a message queue exceeds a predetermined cache threshold, clearing a cached FIX message in the message queue.

6. The method according to claim 1, wherein the method further comprises:

when a FIX service is added, obtaining a service script comprising service logic of the added FIX service; and

adding the obtained service script to the script list.

7. The method according to claim 1, wherein the method further comprises:

when a non-FIX-protocol-based packet, selecting a packet parser based on an encapsulation rule of the non-FIX-protocol-based packet; and

parsing a data stream of the non-FIX-protocol-based packet by using the packet parser to obtain service data.

8. The method according to claim 1, wherein the method further comprises sending a processed FIX message to a receiving end.

9. The method according to any one of claims 1 to 8, wherein the method further comprises performing distributed processing on a received FIX message by using a plurality of computing nodes, wherein each computing node processes a FIX message of at least one session.

10. A service implementation method based on the financial information exchange FIX protocol, comprising:

encapsulating, by a transmitting end, a FIX packet into a FIX message, wherein the FIX message comprises different types of service data and does not comprise service logic

corresponding to a detailed FIX protocol version, and the service data is in the form of the character string (201); and

sending the encapsulated FIX message to a service platform, so the service platform processes the service data based on a service script comprising service logic (202).

11. The method according to claim 10, wherein the encapsulating a FIX packet into a FIX message comprises encapsulating the FIX packet into a universal FIX message.

12. The method according to claim 11, wherein the encapsulating the FIX packet into a universal FIX message comprises extracting character strings from the header and the body of the FIX packet to assemble a universal FIX message.

13. A service implementation apparatus based on the financial information exchange FIX protocol, comprising multiple units (71, 72, 73) configured to perform operations according to any one of claims 1 to 9.

14. A service implementation apparatus based on the financial information exchange FIX protocol, comprising multiple units (91, 92) configured to perform operations according to any one of claims 10 to 12.

15. A service implementation system based on the financial information exchange FIX protocol, wherein:

the system comprises a service platform (101) and a transmitting end (102);

the service platform comprises the apparatus according to claim 13; and

the transmitting end comprises the apparatus according to claim 14.