Consider the design of an enterprise system for financial trading, which operates on-line, allowing traders to access financial data such as share prices, to analyse this data, eg, for price trends, to view their own portfolio of shares, and to sell and buy shares.

Only users who are registered and logged-in to the system are permitted to carry out any of the above functions. In addition, a client host must pass security checks before requests from the client are allowed to be accepted.

Trader data such as passwords is held in a separate database to portfolio data, which consists of lists of share data for particular companies.

The financial data used by the system comes from a variety of external sources such as stock exchanges, and the format supplied by these sources may change. It should be easy to change the system to deal with such format changes without affecting the core business functionality of the system. Likewise, the system may issue buy and sell instructions to an external trading service, with a specific format of data.

Identify suitable EIS patterns that could be used with this system and show these patterns in an overall architecture diagram of the system.