

- Alerts and Notifications Engine – sends conditional (when a business rule is met), unconditional (when down time alerts of a provider is communicated) or event alerts (when a newly registered organization wishes to establish a trusted relationship with a consumer, in which case the consumer is notified)
- Role Mapper – maps roles and services (services are accessible only to the assigned roles)
- Analytic and Reporting Engine
- Business Rules and Workflow Engine
- Security Wrapper – security measures to conform to integrity and authenticity of information exchanged and service invocation
- Management GUI – Dashboard

Advantages of EIE

- Uses Web services. Information exchange is possible between disparate Enterprise and partners.
- Registers new partners or organizations, locates the partners, locates their services, provides role-based access to the partner's data in a secure and controlled manner
- May extend to have a dashboard to monitor, manage and analyze the service exchange, manage the partner profiles, analyze and report the enterprise data etc.
- May be coupled with Business Analytics to suggest optimal transaction profile, best supplier in a real time fashion, track supplier history, credibility and other ratings
- EIE is built on a hosted application model. Due to its SOA based design, the components of the Hub itself is exposed as Web services
- The EIE is Scalable, Extensible and Customizable. It is based on a hosted model and hence can be exposed as PaaS or SaaS
- The EIE can also be extended to have adaptive features which will allow transformation of data and communication between enterprises which are in-capable to talk through XML etc. (Inclusion of legacy systems, native systems is possible)
- Design of a centralized distributed EIE Engine can prevent risks associated with a centralized system like single point of failure etc.

Products like Mule ESB, Oracle SOA Suite, Apache Active MQ etc. are products which provides solutions to the problems discussed above, but each have their own advantages and limitations.

Conclusion:

Alignment of Organizational Goals with the underlying technological capabilities is a necessity. The closer the goals translate into each other, higher the business value QoS.

The EIE uses the existing technologies to overcome the prevailing limitations. The engine provides simplified solutions to the Business Integration Problems.