Messaging

Internal to the DPN network, messaging is the mechanism employed for inter-node communication.

Example Scenarios

Scenarios of when DPN nodes exchange messages include:

- · Content is ingested into a DPN first node and needs to be replicated across DPN replicating nodes
- Upon successful ingest and replication of DPN content, a DPN first node informs the entire DPN network of a registry entry creation
 For audit purposes, a DPN node requests the registry entry for a specific DPN package
- In the event of content loss or corruption, a DPN node requests a specific DPN package
- etc

Technology

In order not to prescribe any given implementation, DPN messaging need only abide by AMQP. The messaging architecture is distributed and federated. By distributed what is meant is that there is no external message broker or messaging infrastructure to the DPN nodes themselves. What is meant by feder ated is that all of the DPN message brokers are interconnected and ensure that messages are replicated across nodes as if there were a single, logical message broker.