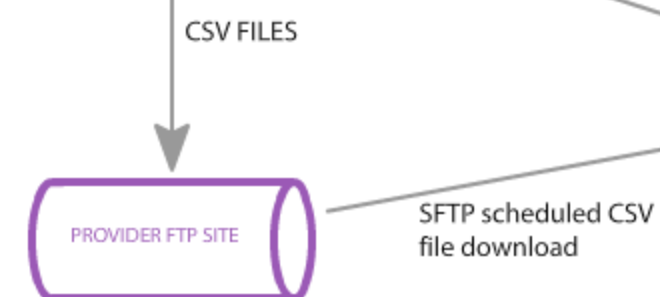
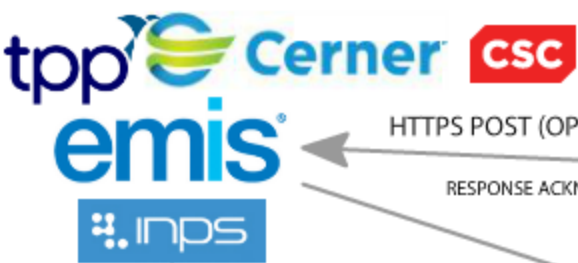


## DATA PROVIDERS (Publishers)



Acknowledgement Response Web Service  
+PostMessage()

## LOAD BALANCER

Inbound SOAP/REST Web Service  
+PostMessage()

Scheduled Message Poller  
+DownloadFTPFiles()  
+GetXMLFiles()

BUSINESS RESPONSE  
ACKNOWLEDGEMENT

Response Queue Reader  
+ReadNextMessage()  
+PostToSender()

## ENDEAVOUR DATA SERVICE (Summary Design)

## CASSANDRA NODES



Message Identity Check  
+ReadMessageEnvelope()  
+ValidateSender()  
+ValidateMessageType()  
+PostMessageToLog()  
+PostToInboundQueue()  
+ReturnResponseAcknowledgement()  
+LogAnyErrors()

Inbound Queue Reader  
+ReadNextMessage()  
+MessageTransform()  
+PostToEventLog()  
+PostToResponseQueue()  
+PostToInterimQueue()

Interim Queue Reader  
+ReadNextMessage()  
+RunDataDistributionProtocol()  
+MessageTransform()  
+PostMessageToLog()  
+PostToSubscriberQueue()  
+PostBadMessagesToDLQ()

Subscriber Queue Reader  
+ReadNextMessage()  
+PostToSubscriberWebService()

## RABBITMQ



- Inbound queue added as required
- Queue assigned to specific organisation through node configuration
- More than one organisation can be assigned to the same queue
- ServiceId is used as the session key to enforce ordering



- Interim queue added as required
- Queue assigned to specific organisation through node configuration
- More than one organisation can be assigned to the same queue
- ServiceId is used as the session key to enforce ordering
- Messages that can't be processed added to 'dead letter queue'



- Subscriber queue configured for each subscriber endpoint



- Communicates with every service
- Eg, reconfigure on the fly



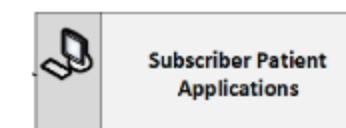
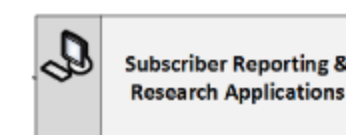
- Business acknowledgements (sent back to message sender)



HTTPS POST

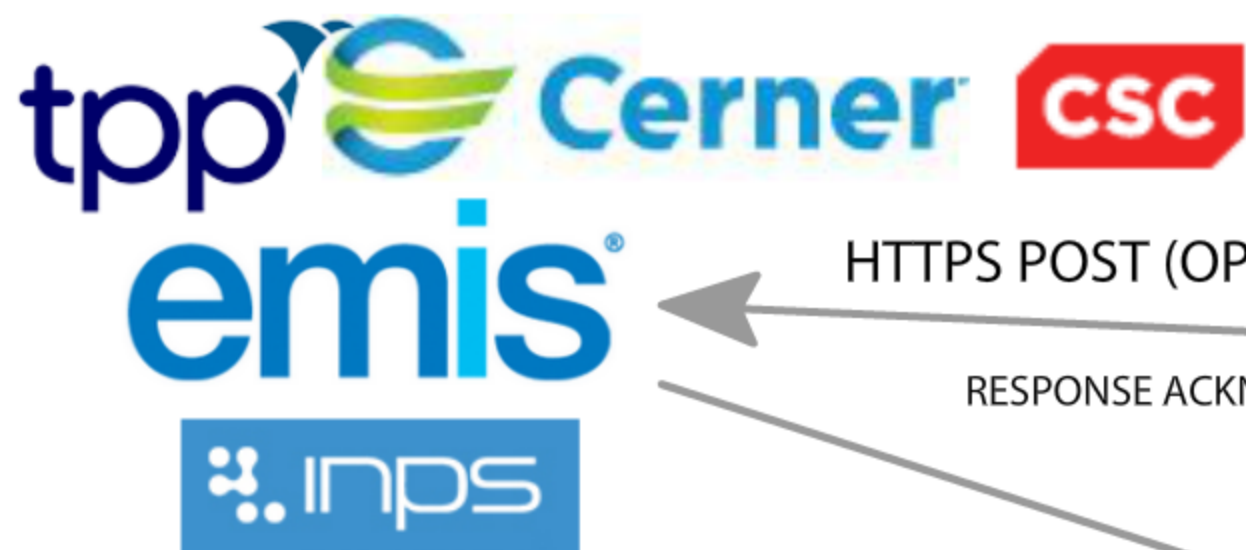
## DATA CONSUMERS (Subscribers)

Subscriber Web Service  
+PostMessage()





## DATA PROVIDERS (Publishers)



CSV FILES

HTTPS POST (OPENHR / HL7)

RESPONSE ACKNOWLEDGEMENT

SFTP scheduled CSV  
file download

LOAD  
BALANCER

**Scheduled Message Poller**

+DownloadFTPFiles()

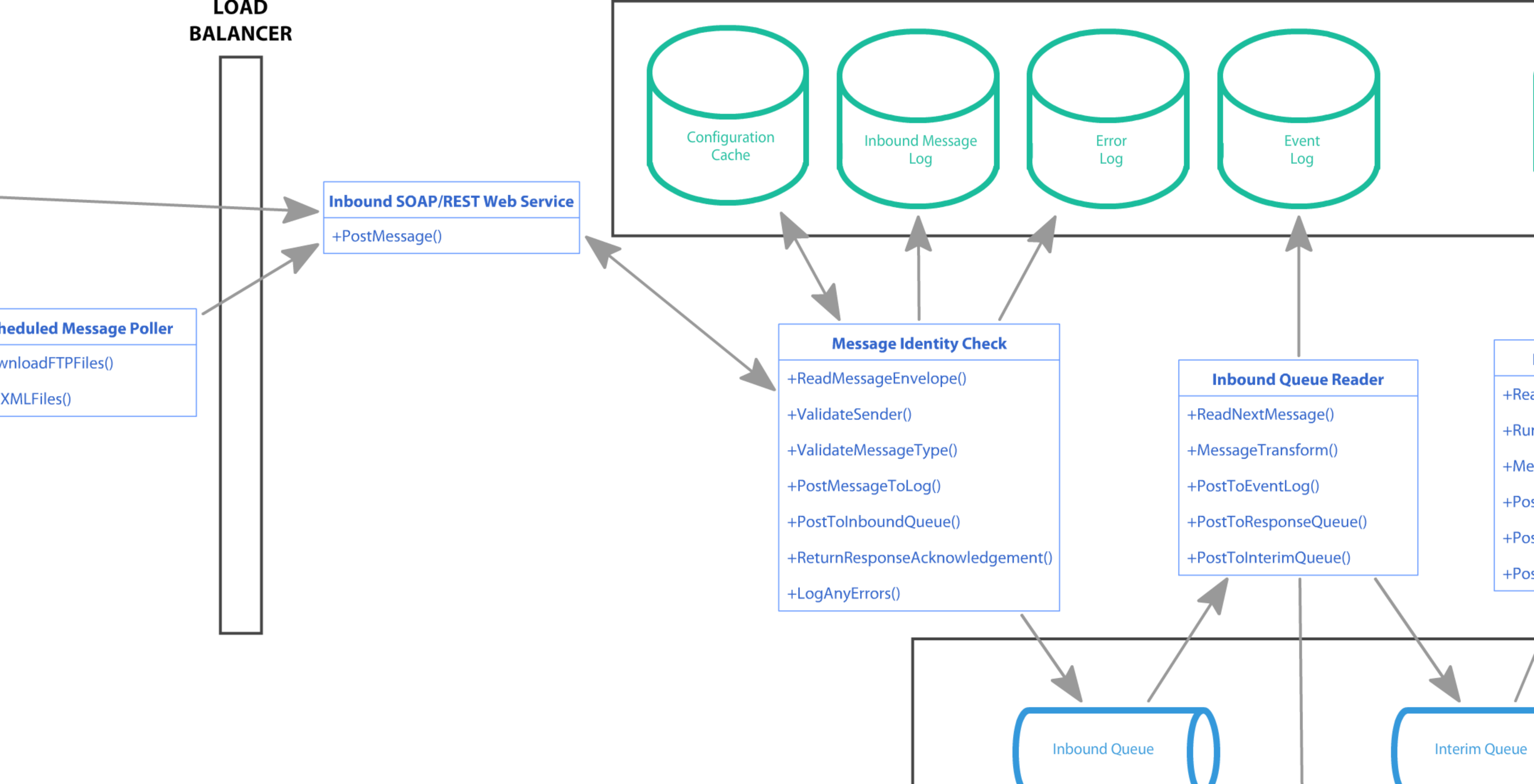
+GetXMLFiles()

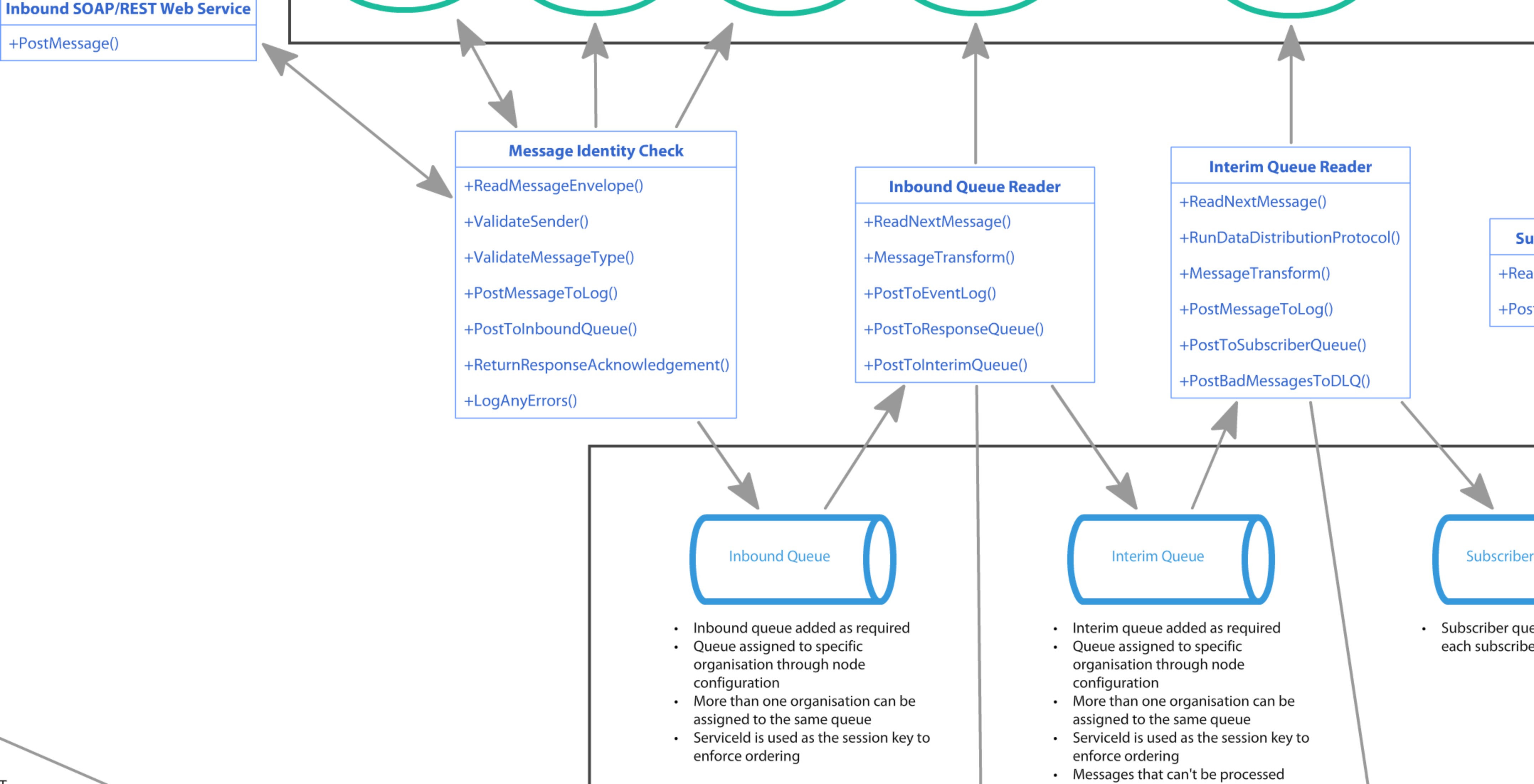
**Inbound SOAP/REST Web Service**

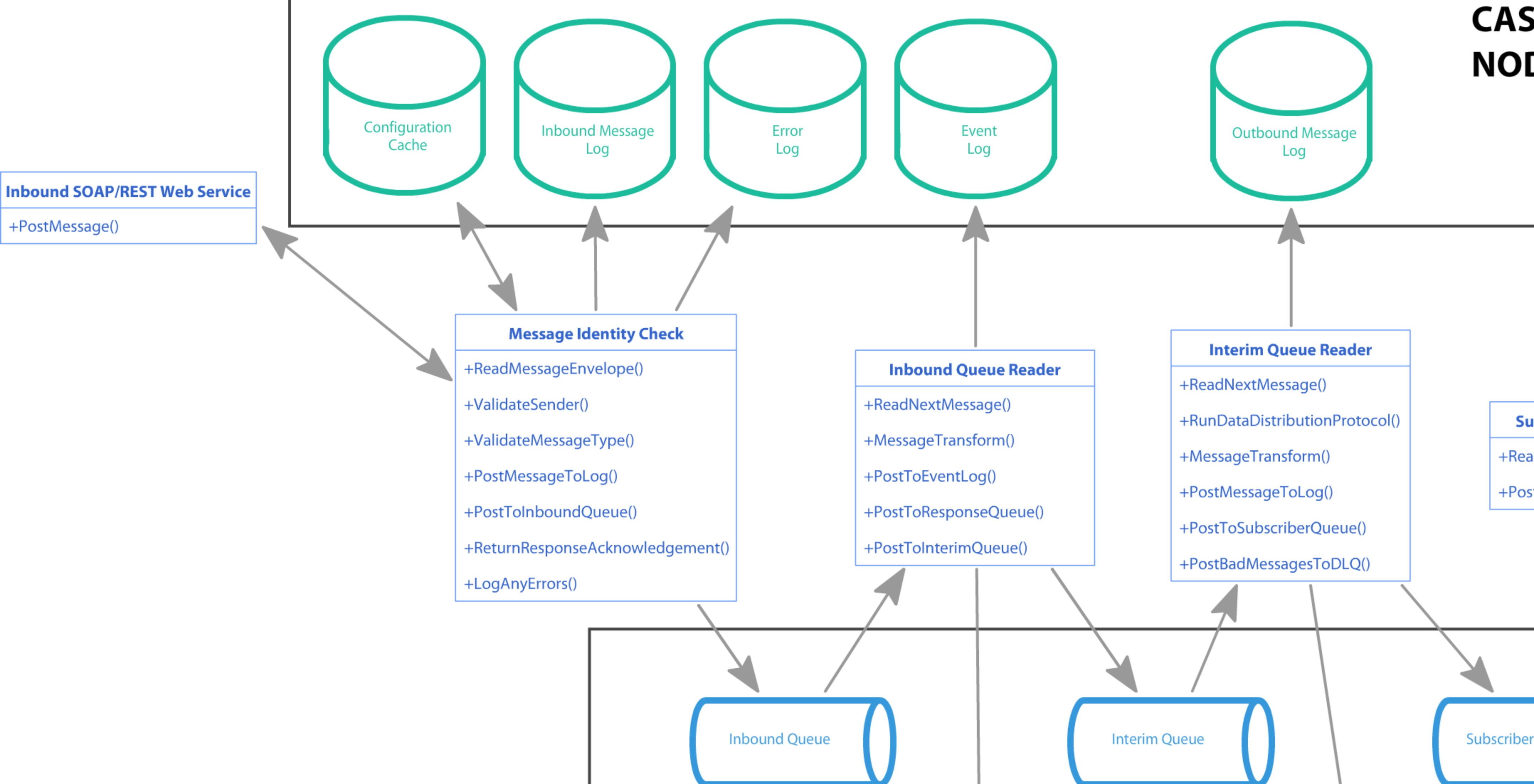
+PostMessage()

**Acknowledgement Response Web Service**

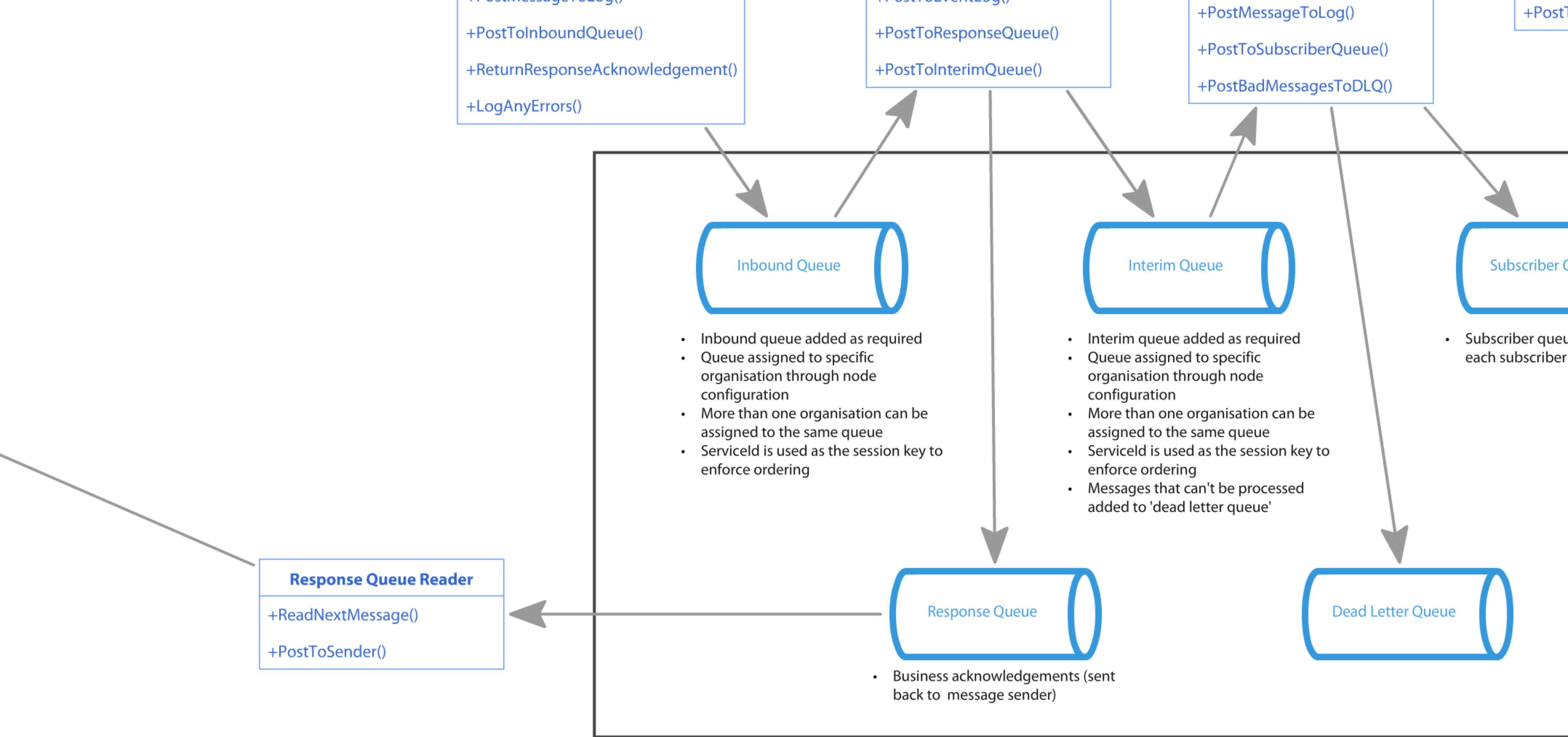
Configur  
Cach

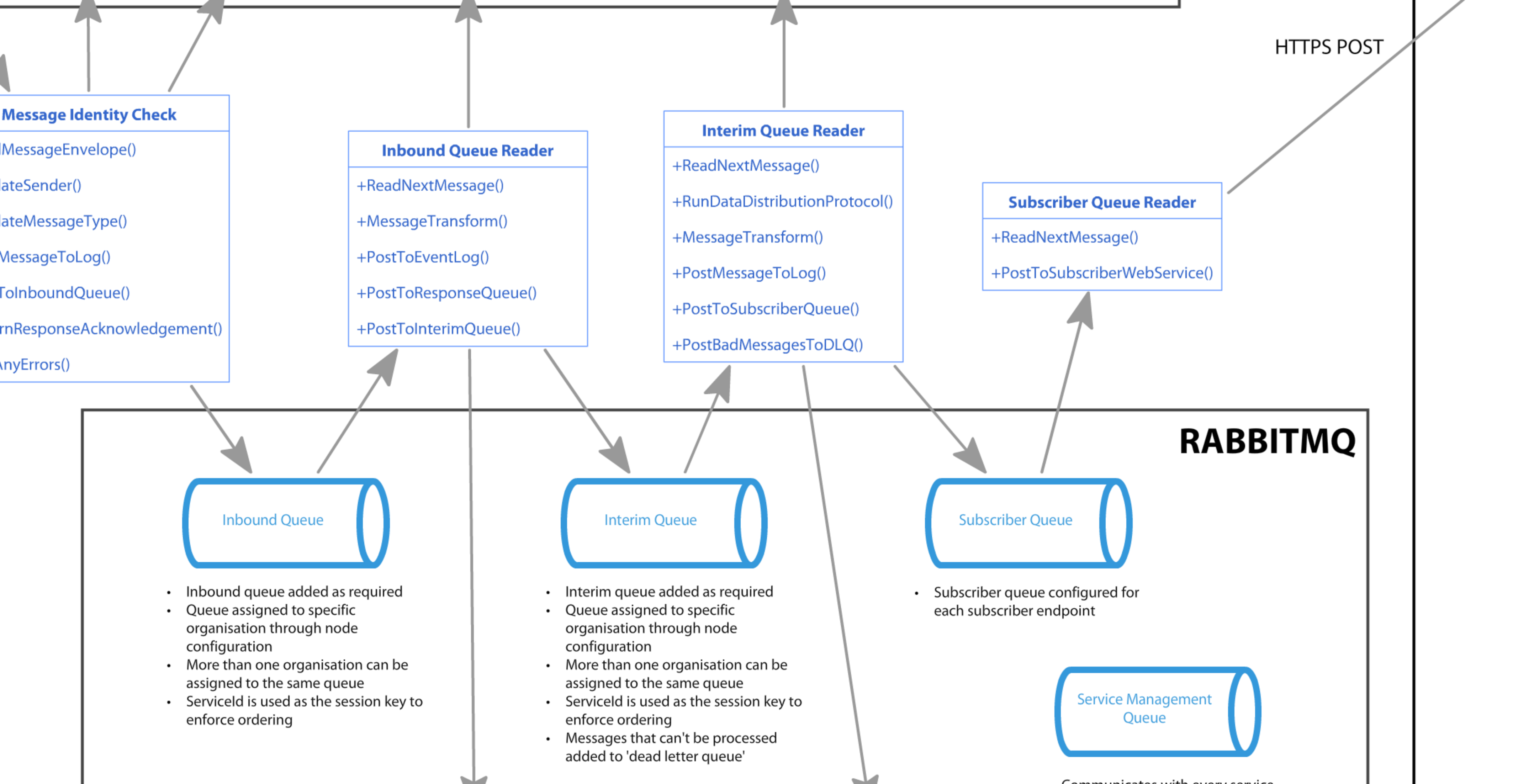


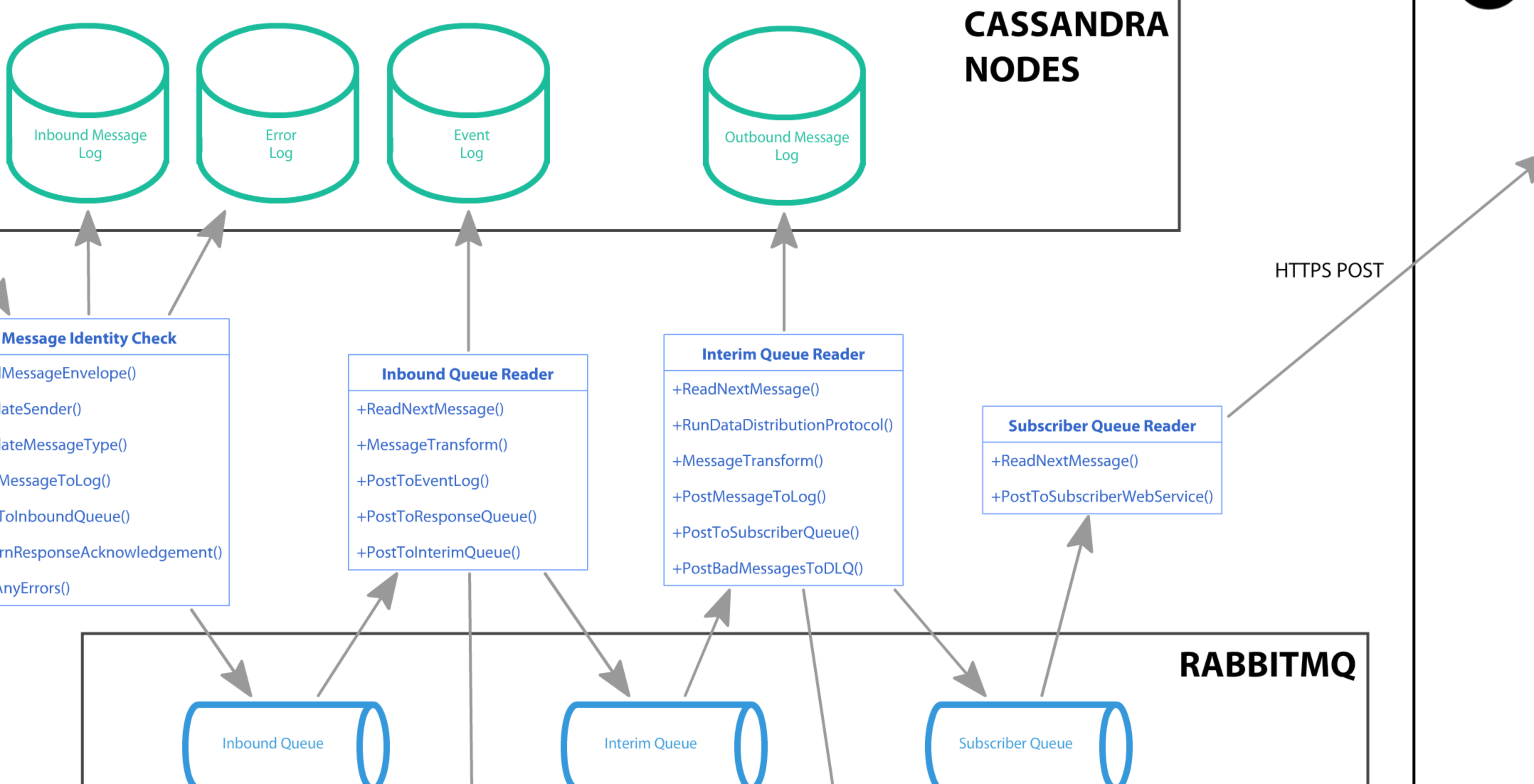




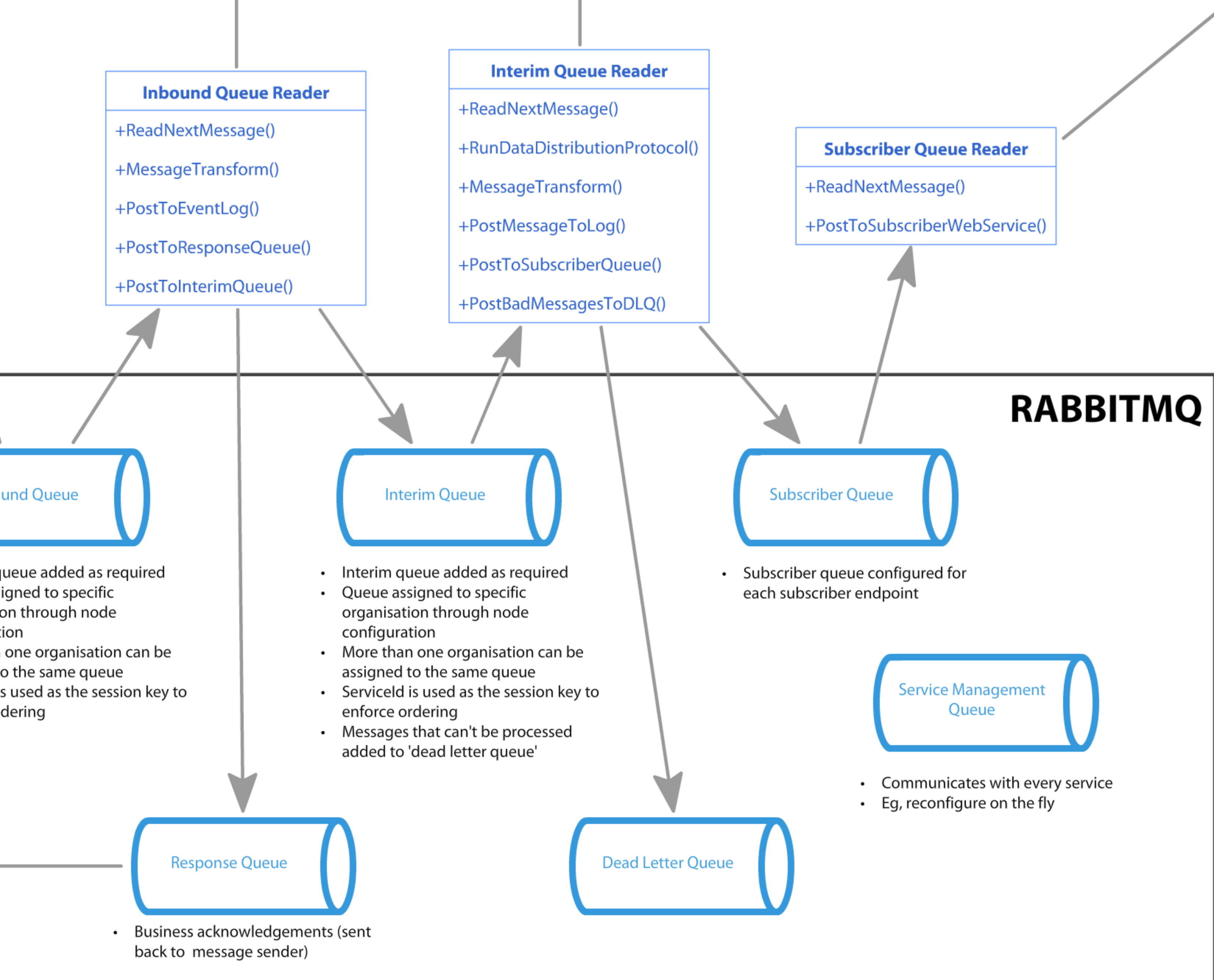




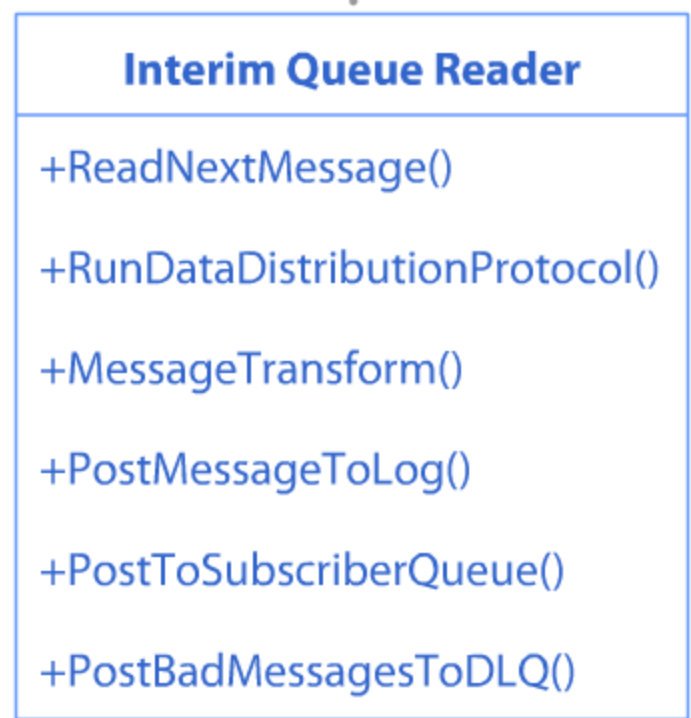
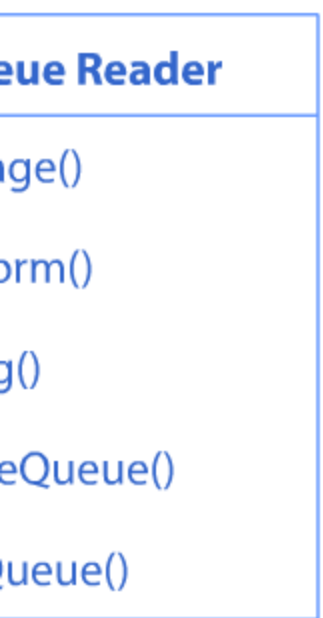
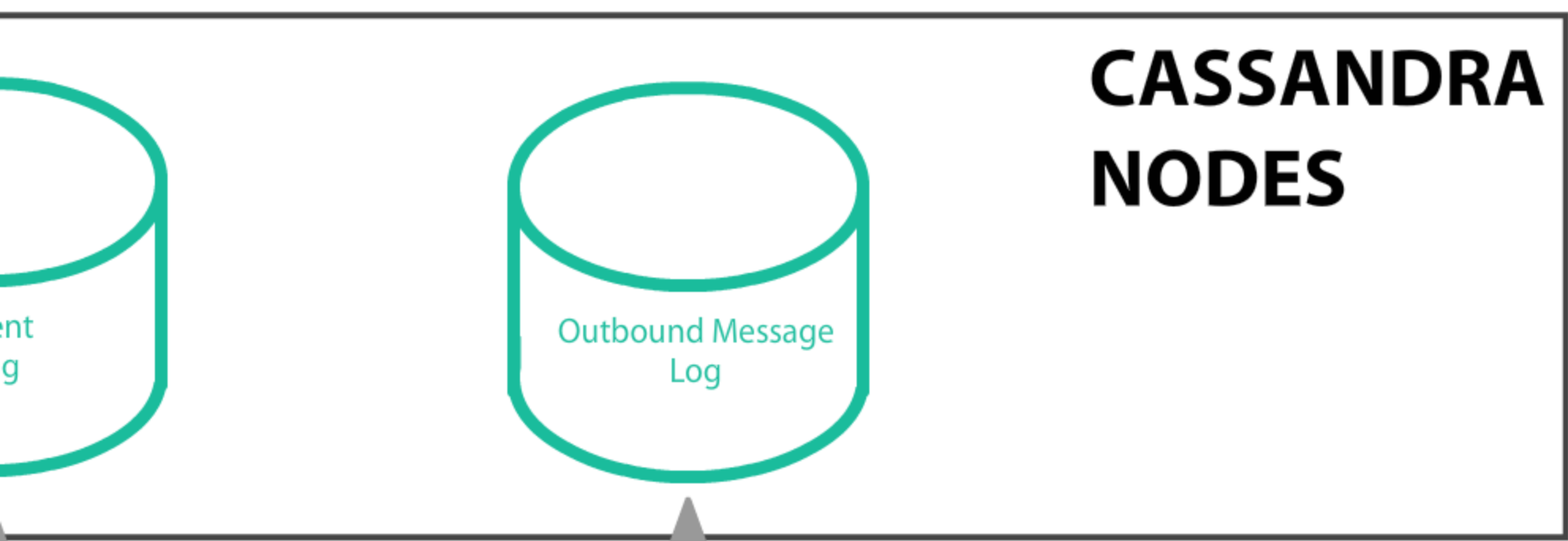








# (Summary Design)



HTTPS POST



## DATA CONSUMERS (Subscribers)

