There are currently 4 components of the Email Engine:

1. **Email Orchestrator** - The email orchestrator is the entry point for all email requests. This piece will break down the email request payload to determine what features are required, e.g. if the body needs to be generated by DocFusion and if any attachments need to also be generated or password protected. The email orchestrator will break down the features needed for the specific email request and persist this information to the Message Components database table. The email orchestrator then calls the Email Completion piece.
2. **Email Completion** - The email completion part of the engine is responsible for either sending emails that are ready (i.e. attachments are generated and/or password protected) or sending the email request to all offered features (meaning if there are any Message Components then the completion engine will handle them). If the message components stored in the MsgComponents DB are all “completed“, the completion engine will determine which service provider topic to send the email request to and send it. If the message components are still “New“ or “Pending“ the completion engine will send the request to the relevant feature service bus topic and wait for the message component to enter the “Completed“ state. This piece is called by the other pieces of the email engine. Initially, when the email orchestrator receives and breaks down the request and every other time that the other feature pieces update the MsgComponents DB.
3. **Email DocGen** - This is a feature piece of the email engine. It handles any body/attachment generations that need to take place. This piece triggers when the DocGenComplete service bus topic contains a message. Meaning, the email DocGen piece is triggered whenever a piece of the email has been successfully generated. Any feature piece updates the relevant message component in the MsgComponents DB and then calls Email Completion so that the completion piece can determine if the email needs any other features or can be sent to the service provider.
4. **Email Password Protection** - This is also a feature piece of the email engine. It handles any attachments that need to be password protected. This piece triggers when the PassProtectComplete service bus topic contains a message. Meaning, the email password protection piece is triggered whenever a document has been successfully password protected. Any feature piece updates the relevant message component in the MsgComponents DB and then calls Email Completion so that the completion piece can determine if the email needs any other features or can be sent to the service provider.