To: Professor Krasso

From: David Tarvin

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Subject: From Legacy to SOA

The purpose of our transitioning from a legacy architecture to a service-oriented architecture (SOA) is to provide “loose coupling” of the systems from each other. That simply means that we will be making the network such that we can modify and update each system individually without worrying about it impacting the other systems. The SOA provides communications between the systems through an Enterprise Service Bus (ESB). As you can see from the diagram, all messages from the client to the systems and between the systems goes through the ESB. This means the systems do not need to speak the same language as each other in order to communicate.

We want to begin the transition with the internal systems we use in operating the database itself. We will start the transition with the GitLab system. That is the repository we use for our code. Transitioning it first will make transitioning the other systems easier. This will be used as a feasibility test of the migration process. If this succeeds, we next want to transition the Active Directory System, which is how the database for our network operates. Our plan is to complete these two transitions over a period of six months each.

After measuring the success of the first two transitions, and assuming it makes sense to do so, we want to transition the systems that relate specifically to employees. We will transition payroll, recruiting, and employee systems. We transition these sytems before transitioning the other systems because they do not involve our relationships with our customers, meaning there is a reduced risk to the company if something goes wrong. Finally, we will transition the other systems – budget, procurement and contract systems, and the service desk system.

References

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