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**Title:** eCash Vecna Integration Estimate

1. **Overview**

Currently, eCash is hosted in our internal network. In order to expose the service to external partners such as Vecna, we are proposing to leverage Sentinet, a SOA middleware that allows us to set up a virtual proxy in the DMZ. This will also allow us to take advantage of the A4 security token service for authentication without having to add this to our internal services. Mike Faulkinbury and his team (SOA Infrastructure) will be deploying the DMZ layer of our solution.



1. **Effort**

(8 points = team \* 2 weeks based on yearly planning)

| **Feature** | **Description** | **Team** | **Points** |
| --- | --- | --- | --- |
| Modify Interface (Contract) | * Input - hide a Boolean property on the current contract that indicates whether or not to save credit card info * Input - add the ability to send metadata such as terminal/kiosk * Output – Transaction Id should not be null able; all transactions should have one despite failure or success. * Faults - need to create explicit faults/status codes rather than return default fault with exception details; logging * Regression test eCash service | AI Services | 3 points |
| Deploy –  Partner Integration | * Open firewall ports from Sentinet to eCash * Deploy code to staging environment * Issue certificate in partner integration environment – we will provide the initial certificate and validate * Create 14.2 release branch (code freeze) * Enroll certificate in partner integration – after validation, we will have the client (Vecna) enroll for their own certificate | AI Services | 1 points |
| Configuration – Partner Integration | * Set up virtual endpoints and security in partner integration Sentinet | SOA Infrastructure | N/A |
| Configuration - Production | * Configure production hardware for Sentinet node * Set up virtual endpoints and security in production Sentinet |  |  |
| Deploy –  Production | * Production release activities * Deploy code to production environment * Label 14.2 release branch * Enroll certificate in production – the client (Vecna) will enroll for certificate in production * Provision production hardware | AI Services | 2 |
| **Total Points** |  |  | **7 points** |

1. **Duration**

|  |  |  |
| --- | --- | --- |
| **Sprint** | **# Weeks** | **Features** |
| 1 | 2 | * Modify Interface (Contract) * Deploy – Partner Integration |
| 2 | 2 | * Configuration – Partner Integration |
| 3 | 2 | * Configuration – Production * Deploy - Production |
| **Total** | **6** |  |

1. **Hard Costs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Environment** | **Hardware Needed** | **Shared?** | **Exists?** | **Cost** |
| Partner Integration | Certificates (2) | No | No | $ ??.?? |
| Partner Integration | 1 Node Server - 2 core, 4GB ram | Yes | Yes | $ 0.00 |
| Production | Certificate (1) | No | No | $ ??.?? |
| Production | 2 Node Servers - each 2 core, 4GB ram | No | No | $ ??.?? |
|  |  |  | **Total Cost:** | **$ ??.??** |

1. **Risks**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Description** | **Impact**  (Visibility/Priority) | **Mitigation Plan** |
| 1 | eCash may not perform well enough for load (1000/hour) |  | Do some performance testing to ensure and do some optimization of code, if needed. |
| 2 | May not be able to get the production hardware provisioned in a timely manner based on past experience with IT |  | Have them start building the servers at the beginning of the project so that they have 4 weeks to set it up before needing to validate with client. |