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| **INVENTION SUBMISSION FORM** | | | | | | | | | | | | | | |
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| **Status** | DRAFT  FINAL | | | **Created** | | | | 11/30/2017 12:45 PM | | | **Last Update** | | 11/30/2017 1:02 PM | |
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| **Inventor** | Oscar E. Ganteaume | | **LGS Co-Inventor(s)** | | | | First MI. Last | | | **3rd Party Co-Inventor(s)** | | | |  |
| **Title** | Dynamic Resource Allocator Framework | | | | | | | | | | | | | |
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| **Describe the Art** | *Technology Area:* Select Area *Portfolio:* Select Area *Purpose:*  License  Protect  Strategic *Observability:* Medium | | | | | | | | | | | | | |
| Description | Dynamically allocates and deallocates resources to a running systems based on monitored parameters | | | | | | | | | | | | | |
| Problem | Current processing frameworks use a fixed, predefined set of resources whether they are been used or not | | | | | | | | | | | | | |
| Patents/Literature | List any patents/literature you reviewed in developing your invention | | | | | | | | | | | | | |
| Key Features | Monitors resources utilization such as CPU, memory, running tasks and starts/stops virtual machines based on utilization rate | | | | | | | | | | | | | |
| Prototypes/Sketches | I have Power Point and Visio sketches that I have used for previous presentations | | | | | | | | | | | | | |
| Tables/Graphs | Yes, have a user case where cost savings are shown | | | | | | | | | | | | | |
| **Business Opportunity** | *Primary Use:* Government Enter%50 | | | | *Secondary Use:* Commercial Enter%50 | | | | | | | *Tertiary Use:* Select Area Enter% | | |
| Description | Both sectors, government and commercial, can use this technologies as a cost saving tool | | | | | | | | | | | | | |
| Commercialization | < 2 years I have an existing prototype that just need to be productized | | | | | | | | | | | | | |
| Competition | I am not aware of any competition. I scoped the current technologies exposed at AWS re:invent and did not find same technology | | | | | | | | | | | | | |
| Customers | Any government, commercial, and educational institution that uses cloud services | | | | | | | | | | | | | |
| Other Solutions | Incorporating Machine Learning would improve the commerciality of the technology | | | | | | | | | | | | | |
| Technology Licensing | It is intended to be offered as a service and therefore teaching how to use it would be required | | | | | | | | | | | | | |
| Ongoing R&D | Yes, there is an IOS sponsored IR&D which I used to develop the prototype | | | | | | | | | | | | | |
| Design-around | Yes, designed the framework to be cloud provider agnostic so it could be used in different environments | | | | | | | | | | | | | |
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| **USG Contract or Sub** | Enter Number | **Non USG Contract** | | | | Enter Number | | | **LGS Contract Manager** | | | | | Enter Name |
|  | | | | | | | | | | | | | | |
| **Public Release** | Enter Name | | | | | | | | | | | | | |
| **Non-Disclosure Agree** | Enter Name | | | | | **Third Party Disclosure** | | | Enter Name | | | | | |
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| **Additional Document** | Enter Name(s) and attach | | | | | | | | | | | | | |

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| **FOR OFFICE USE** | | | | | | | |
| **LGS Review** | Select Value Select Approval  **Chief Technical Officer**  **General Counsel**  **Invention/Patent Manager** | | | | | | |
| **Docket Number** | **Patent** | | **Filing** | | **Years Left** | **Maintenance Fee** | |
| 46850.##### | #,###,### | Select Date | ##/###### | Select Date | ## | Select Quarter | $##,### |
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