A close up of a logo

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## PROJECT PROPOSAL

### **Team Name: The Day-2 After Tomorrow**

### **Proposal Team**

|  |  |  |
| --- | --- | --- |
| **Name** | **Email** | **Role** |
| Alex Thompson | [althomp2@cisco.com](mailto:althomp2@cisco.com) | Developer |
| Loren Garby | [logarby@cisco.com](mailto:logarby@cisco.com) | Developer |
|  |  |  |

### **Overview**

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| --- |
| **[Q] What is the title of your project?** |
| Enhancing SD-WAN Reporting and Analytics |

|  |
| --- |
| **[Q] What is the customer use case for your project?** |
| Our customers are looking for a way to quickly and easily view reporting and analytics of their SD-WAN environment for Day-2 monitoring. They are looking for a tool that makes it easy for them to consume all of the reporting information provided by vManage. |

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| **[Q] What problem(s) does your project solve?** |
| vManage currently has a limited scope for Day-2 operations and is lacking in reporting to third party collectors like Splunk or ServiceNow as well as open source tools like Grafana. Our project will integrate one or more of these tools with vManage to provide better visibility of the customer’s deployment. Our project will augment the existing limited Day-2 operations and visibility with open source and third-party tools in an automated fashion. |

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| **[Q] Please provide an overview of your proposed project?** |
| We will use Python to poll a production vManage server for existing environmental, topological, and logical constructs of the fabric and present them to the user in an easy to consume manner. The goal will be to provide a straight-forward interface that allows the customer to quickly monitor the health of their SD-WAN environment, be alerted to urgent messages, |

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| --- |
| **[Q] Please provide any architecture/design artifacts supporting your proposal?** |
| We will be leveraging the SD-WAN Ansible Automation to spin up testing environments as we develop our project:  <https://wwwin-github.cisco.com/ciscops/sdwan-workshop> |

### **Customer Impact**

Expected Customer Impact

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Relevancy** | **Revenue** | **New Addressable Markets** |
| **Your Customer** | NOAA |  | 300+ router SDWAN deployment |
| **Federal Customer** | USDA |  | 4000+ router SDWAN deployment |
| **Generic Customer** | Applicable to anyone interested in SD WAN, who uses a tool such as Splunk, Service now, and/or Grafana |  |  |

## Project Technologies and Products

### Technologies

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| --- | --- |
| **Technology** | **Details** |
| Python | Python programming language |
| vManage API | <https://sdwan-docs.cisco.com/Product_Documentation/Command_Reference/Command_Reference/vManage_REST_APIs> |
| Grafana | <https://grafana.com/> |
| Splunk | <https://www.splunk.com/> |
| JSON |  |

### Products

|  |  |
| --- | --- |
| **Product** | **Details** |
| Cisco Viptela SD-WAN |  |
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## Anticipated Resources

### Physical and Virtual Resources

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| --- | --- |
| **Resource** | **Details** |
| CPN vManage | CPN (Cisco Public sector Network) lab has a production SD-WAN fabric and vManage controller we can leverage |
| Devnet SD-WAN sandbox | <https://devnetsandbox.cisco.com/RM/Diagram/Index/4fb544ad-c88c-4227-8b09-5d35aa26a63b?diagramType=Topology> |
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### Team Resources

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| --- | --- |
| **Resource** | **Details** |
| Jason King | Technical resource and CPN PoC |
| Chris Hocker | Technical resource and CPN PoC |

### Business Unit Resources

[Q] What Business Unit resources are required? Is it a person or something else (software, feature, etc.)?

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| --- | --- |
| **Resource** | **Details** |
| NA |  |
|  |  |

## High Level Project Plan

### Tasks

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| --- | --- | --- |
| **Task** | **Owner** | **Details** |
| Install test environment for Grafana, Splunk, ServiceNow | Alex/Loren |  |
| Build tooling to export reporting via vManage API to Grafana | Alex |  |
| Build tooling to export reporting via vManage API to Splunk | Loren |  |
| Build tooling to export reporting via vManage API to ServiceNow | Alex |  |
| Build tooling to export alerts via vManage API to Webex Teams | Loren |  |