**Project Definition**

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| Background | Objectives |
| IP address management (IPAM) has previously been manual and static within CD. This is changing and new DNS and DHCP implementations are being adopted. With the new paradigm of dynamic and disposable environments, an IPAM solution is needed that can handle this situation. | The Project Should allow:   * Suitable administration of/interaction with the DHCP and DNS systems (TBC). * Suitable reporting on the state of the DHCP and DNS systems and overview reporting of the IP state of all CD environments. * Suitable API. * Suitable manual interface. |
| Desired Outcomes | Project Scope & Exclusions |
| Create an IPAM system that is capable of managing, tracking, and reporting the IP state of CD’s environments. | The project scope is the creation of an automatic IPAM system for CD. |
| Constraints & Assumptions | Project Tolerances |
| * A maximum of two Associate Devops Engineers will be assigned full time. * The project will run for 4 months. * A Devops Engineer or Senior Devops Engineer will be available for consultation and approval. * Technology must comply with CD SRE standards, and new technology must receive managerial approval. * All pertinent CD SRE policies and procedures must be followed. * Organisation of work will be done via Scrum. | The Project goes into exception when there it is more than a week (5 working days) behind schedule. |
| Users & Stakeholders | Interfaces |
| Primary Stakeholder is CD SRE, who will be represented in the following way:  Product Owner: David Oliveira/Peter Street | Any needed interfaces will be provided through your Supervising Engineer or Scrum-master. |

**Project Product Description**

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| Composition | Development Skills Requires |
| The project should deliver an automated IPAM system for CD with monitoring and reporting. | N/A |
| Quality Expectations | Acceptance Methods and Acceptance Responsibilities |
| The system is expected to follow the CD SRE IaC principles. The system is expected to function as automatically as possible. The system is expected to be documented such that suitably experienced/qualified engineers are able to use and maintain it with reverse engineering it. | The project is complete in one of two scenarios:   1. The technology is found to be unworkable or impractical. 2. The technology module is available for Terraform to use in any non-prod environment. |

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| Project Approach | The project will be managed in-house in a simple way by the assigned engineers. The project delivery will be done through Scrum. Technology to be guided by your lead engineer and/or CD SRE. |
| Project Management Team Structure | Project Manager: Team (supervised).  Product Owner: David Oliveira Scrum-master: Peter Street/David Oliveira  Supervising Engineer: TBC. |
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