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# HPE Aruba Clearpass and TUT– our Journey

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# Agenda

- Why Clearpass?
- TUT and Datacentrix implementation
- Value Realization





# Why Clearpass

# Why Clearpass

- Original RFP was for LAN Upgrade which included network management and monitoring solution (IMC + UAM or similar)
- Needed a unified and simple NAC for the WiFi environment to manage and monitor
- Needed a solution that could leverage multiple sources of authentication.
- TUT looked at the proposed solution for Clearpass and the functionality. Liked the vendor agnostic, policy based solution
- Decision to acquire IMC and Clearpass on the fact that the solution would be simple to use for management and technical staff.



# **TUT and Datacentrix implementation**

# TUT and Datacentrix implementation

- Datacentrix were required to install Clearpass as part of the LAN upgrade and Network Management and Monitoring project
- Eduroam is a roaming solution for academic institutions to enable students and staff to access WiFi at any participating campus worldwide – teething problems to link Eduroam to Clearpass – TUT and Datacentrix worked together to solve.
- Datacentrix assisted in training technical staff on use of the solution to troubleshoot issues
- Management staff have access to view statistics and dashboards.
- Project was successfully signed off



# Value Realization

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- Technical Staff are able to clearly see why authentication fails
- Management Staff are able to use the dashboards to make operational decisions, viz:
  - Where to focus application development – most users are Android based devices
  - Does the campus need 802.11ac Wave 2 Access Points – majority of devices are entry level Android devices – 802.11n/ac Wave 1 is adequate for the next 5 years
  - Large amounts of data used by top 10 users
  - Investigate possible user and password sharing
  - Solution can be used to identify possible misuse of WiFi
  - Changes to the environment can be tracked via command accounting, which is part of AAA
  - Granular enough to restrict technical staff from executing specific commands

# Conclusion

- Clearpass is now the AAA server for APN, VPN, wireless network and network switch management
- Easy to troubleshoot authentication failures
- Investigating the feasibility to expand the solution to include wired network points and guest access management
- Want to expand the solution to the rest of the campuses so that onsite teams have a view of what is happening in their environment
- Journey has just started, and there is a lot of work to still do, but, with this solution will help to achieve TUT's objectives.



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