



GadgEon

Engineering Smartness

DATA CENTER AND CENTRAL OFFICE MONITORING

Data Center and Central Office Monitoring



Customer was experiencing difficulties supporting many different variants of their platform

Results / Outcomes

- GadgEon came up with a SOM-based solution with a homogenous HW/SW platform to cater to all variants of the customer's product.
- Monitoring and alarm handling system
- 3 different management interfaces are supported: Web GUI, CLI, and SNMP V2/V3
- IP security features compliant with Federal Standards



System Description

Challenge

- Customer experienced high total cost of ownership due to multiple HW/SW platforms

Feasibility Study and Documentation

- Requirements Gathering & Analysis, competitive product study,
- H/W Architecture development and finalization
- Component selection of all components and BOM management.

Embedded Linux Based Firmware

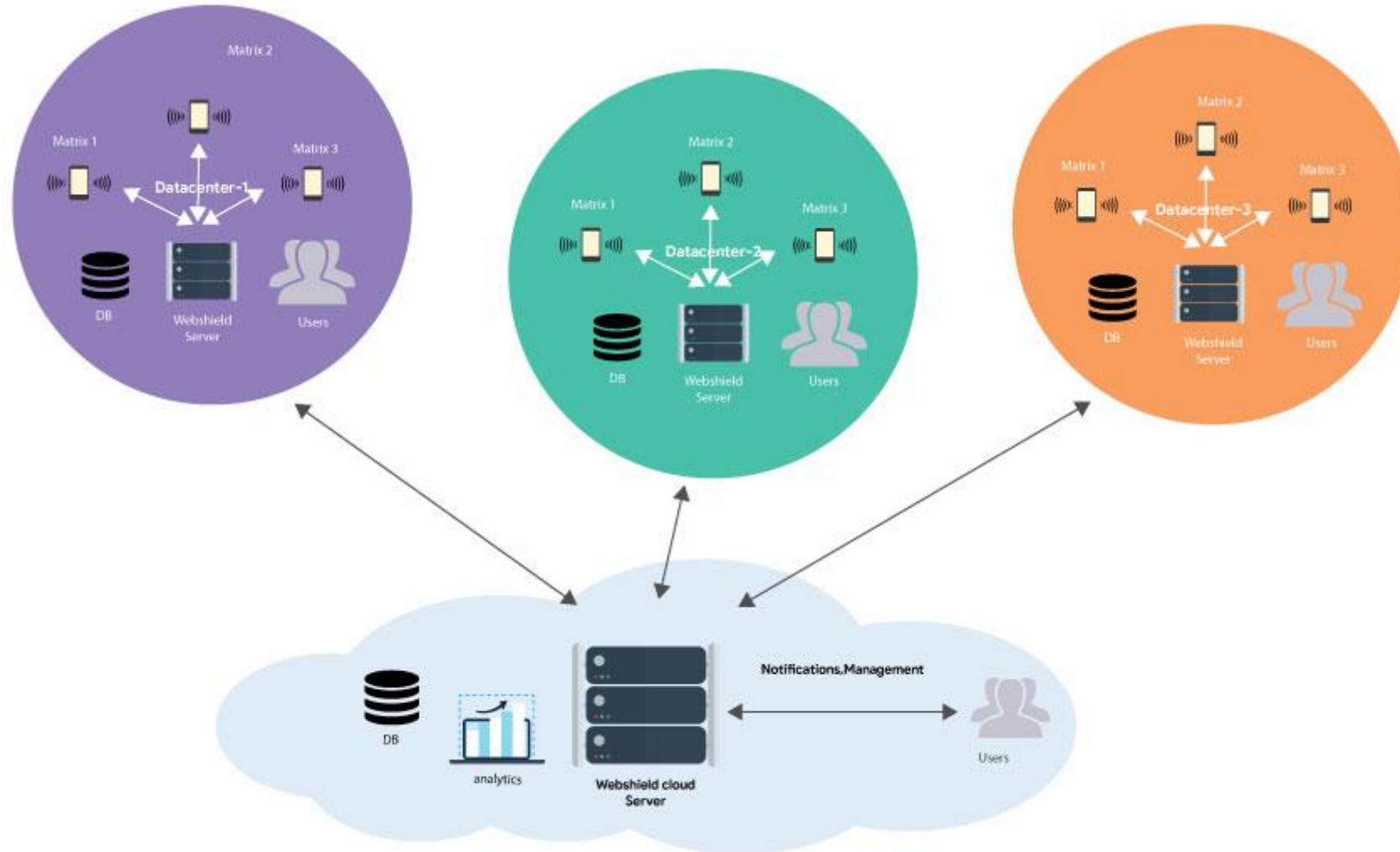
- Boot Manager – multiple boot options with priorities
- User Interfaces : WebGui, SNMP, SHELL
- Database Manager using POCO Library(sqlite)
- Operating system abstraction layer using POCO libraries
- Hardware abstraction for cards/ports and other resources
- License Management
- Device Security
- Firmware Upgrade
- SDK which includes all platform, libraries and Application software
- Core functionality of Event Monitoring, Event Generation and Notification
- Porting of Product variants includes porting of various protocols to the new framework

Continuous Integration

- Jenkins with Robot Framework



Data Centre Monitoring – Cloud Architecture



THANK YOU



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