**2020 – 2021 Performance Business KPI Draft**

Version\_0.1

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**Personal Object**

**Project Index: [0]**

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| Project Name | Quantum Safe Gateway/VPN |
| Project Manager | Xu Jia |
| Category | Business-Innovation |
| KPI Detail | 1. Make a control center system with web interface for users to monitor all quantum safe gateways' information and control the gateways' function. 2. Improve Quantum-Safe-VPN project code quality and Setup VPN-Docker image. |
| Measures and Achievements Description | 1. Build gateway control hub website (front end and back end program). |
| * Progress: Finished main web frame and server program, under improvement. |
| 1. Build gateway device information display and function control dashboard. |
| * Progress: Finished individual gateway information display dashboard, editing and improving the gateway function control web panel. |
| 1. Build gateway communication state topographic map website. |
| * Progress: Finished the draft website with database, under improvement. |
| 1. Improve the Quantum-Safe-VPN code quality and code documents. |
| * Progress: Start at 09/07/2020, under working. |
| 1. Build Quantum-Safe-VPN docker image for software deployment. |
| * Progress: Built the first docker image for program setup, under improvement. |
| Start data | 26/04/2020 |
| Due date | 31/12/2020 |
| Status | On Track |

**Project Index: [1]**

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| --- | --- |
| Project Name | Smart Grid Security and IOT Firmware Attestation |
| Project Manager | Wong JunWen |
| Category | Business-Innovation |
| KPI Detail | 1. Design firmware attestation protocol for different IOT devices. |
| Measures and Achievement Description | 1. Build firmware registration and attestation system for IOT people counting sensor device. |
| * Progress: Finished and ready for demo. |
| 1. Build Trust Zone attestation system for executable program on Raspberry PI. |
| * Progress: Finished and ready for demo. |
| 1. Build firmware attestation system for drone. |
| * Progress: Finished program and the demo video, under improvement. |
| 1. Build firmware attestation system for security camera. |
| * Progress: Built a target detection camera with Raspberry PI and the firmware attestation system, under improvement. |
| Start data | 26/04/2020 |
| Due date | 01/09/2020 |
| Status | On Track |

**Project Index: [2]**

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| Project Name | CSI OT Platform Enhancement |
| Project Manager | Peter Goi Lim Ping |
| Category | Business-Innovation |
| KPI Detail | 1. Improve the SingTel-CSI OT platform and the HMI program. 2. Implement different cyber security attack demos on the OT platform based on Dr. Shantanu’s research. |
| Measures and Achievement Description | 1. Enhancement of CSI OT Platform with new attack scenarios (False-Data injection attack, Black-out Attack, False-Command injection attack and Power-Grid attack). |
| * Progress: Finished the prototype of False-Data injection attack and Black-out attack, other attack demo are under development. |
| 1. Build cyber attack control web portal and integrate with the old one. |
| * Progress: Finished the main frame of the web page and the back-end server program, under development. |
| 1. Build power generator model control program for the OT-platform. |
| * Progress: Created power generator model auto-control device and related control UI program, under improvement. |
| 1. Improve the original OT platform HMI with the new feature and assets (Power-Grid model, Input motor, Power i/p & o/p LED Display, Power Processing System and Alert / Buzzer System). |
| * Progress: Built training HMI, PLC control panel and railway control HMI to control the new assets, under improvement. |
| Start data | 26/04/2020 |
| Due date | 31/12/2020 |
| Status | On Track |

**Project Index: [3]**

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| Project Name | HTX biometric project |
| Project Manager | Poh Geong Sen |
| Category | Business-Innovation |
| KPI Detail | 1. Provide assistance for HTX biometric project’s android mobile app development and message encryption part. |
| Measures and Achievement Description | 1. Develop biometric Android App key storage part for biometric data encryption. |
| * Progress: Finished the first key storage prototype, under improvement. |
| 1. Try to integrate the data encryption code into Android Trust Zone. |
| * Progress: Built trust App and trust client, under development. |
| Start data | 11/05/2020 |
| Due date | 31/12/2020 |
| Status | On Track |

**Library Object**

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| --- | --- |
| Category | IT - Application Development |
| KPI Detail | 1. Document 100% of coding changes for each application. |
| 1. Increase code production rate to 300 lines per day by this year. |
| 1. Learn 2 new programming languages by this year. |