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| A black and white logo  Description automatically generated with low confidence | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION** **STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | **Focus Group on AI Native Networks** | |
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| **Title:** | | *Radar Monitoring - Report on* *ITU WTSA Hackathon 2024 – The continuous intruder monitoring* | | |
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| **Abstract:** | This document contains the submission report for team name “Omacs Squad” towards ITU WTSA Hackathon 2024 for use case *“The continuous intruder monitoring”.* |

## Use case introduction: “*The continous intruder monitoring*”

Unauthorized intruders are problems in our country and are difficult to track after they have destroyed our properties.

In this era of technology where cameras and sensors can detect the intruders are available and only not able to detect and track them. It is to our advanced technology to enhance the camera and detector such that they mark the intruders electronically such that they will be able to detected wherever they go.

This example highlights the power of technology to balance multiple priorities in real-time, enhancing both quality of life and electronic markers tracking.

Phase 1: Camera and sensors are installed to monitor intruder

Phase 2: When the intruders get into the premises, is detected and spray permanent electronic marker

Phase 3: The electronic markers are then uploaded in the cloud server and the intruder is started to be monitored.

Phase 4: All the movement of the tracked using electronic markers.

Clause-2: use case requirements

Clause-3: PS1: pipeline design

* AI /ML Concept used is weather prediction and resource requirement prediction.

Clause-4: PS2: xApp design

* Open RAN concept used is adaptive pre-scheduling parameters configuration by dynamically adjusting the scheduling

Clause-5: Relation to Standards.

Clause-6: Code submission details

Clause-7: Self-Testing results

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