

# WP4 Report

## Task 4.1

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## Document Info

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# 1. Introduction

This work package is led by UoS and SMU, aiming to report automated analysis of side channel attack on existing user authentication systems using CogTool+ software. As CogTool+ is capable to automatically simulate human behaviour and generating user performance data, CogTool+ serves the purpose as cross validation tool to compare with real human user data as well. In this report, we take two existing systems: Undercover **Error! Reference source not found.** and PIN (with 6 digits) as benchmark to test CogTool+ software. There has been previous research **Error! Reference source not found.** **Error! Reference source not found.** exploiting real human user data to deploy timing attack on these two systems. The objective is to reproduce some of the findings using simulated data generated by CogTool+ instead of real human user data.

## 2. Tasks

### 2.1 Sub-task

## 3. References (to be completed)

[1]

[2]

[3]