

ENIGMA MESSAGES WITH REPEATED LETTERS – PART 1

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September 2013

Introduction

This series of Enigma challenges is about messages which contain only repeated single letters ("GG") or repeated groups of letters (like "ALPHAALPHA"), encrypted by the Enigma I, which uses 3 rotors selected out of 5.

The challenges of this series are of an increasing level of difficulty, the easiest is pen-and-paper only, others may be solved using existing tools, the most difficult one may require programming and/or special adaptations of existing tools or software code available on the Internet.



Challenge and Hint

The attached ciphertext is the result of encrypting a plaintext message consisting of repeating the same letter with an Enigma machine.

What is the (repeated) letter in the plaintext message? The answer is a single capital letter.

Hint with a fictive example:

If the original message was a series of 45 time "G" the correct solution would be G.

This challenge is quite easy if you understand how the Enigma works.



Useful links

- 1. A general description of the Enigma and successful attacks in WWII:
 - http://en.wikipedia.org/wiki/Enigma_machine
- 2. Another informative site about the Enigma and its internal functioning:
 - http://users.telenet.be/d.rijmenants/en/
- 3. An Enigma simulator:
 http://users.telenet.be/d.rijmenants/en/enigmasim.htm
- **4.** Ideas (and code) for cryptanalysis of the Enigma using modern methods:
 - http://practicalcryptography.com/cryptanalysis/breaking-machine-ciphers/cryptanalysis-enigma/

