

C# Data Encryption, 3-11-2013

“Encoders: Andrey Taranov, Vlad Taranov, ...”

Problem Definition

- Encrypt a string with a math multiplier.
- Windows Phone and Windows 8 Store Apps.
- Currently this app is half way done and should be done in about 1-3 months.
- We are using Visual Studio 2012 and coding the app in C# with XAML.

Research/Analysis

- After starting the app on Visual Studio we realized how easy it is to code in C# compared to Objective C or Java. Things are much smoother and having access to the Apps Isolated Storage in a quick and easy manner allowed us to create this application with minimum problems. The hardest part is getting the math done right. Other than that it was straight forward.

Proposed Solution

- A user types in a Textbox a string and then chooses a multiplier or some math equation to turn the string into a random bunch of numbers. You choose your starting point for the letters; So lets say that A = 23, then B would be 24. These alphabet numbers would be tried against the users selected equation. The result is a bunch of gibberish. To get back to your original string you try the inverse of your equation against the random string to produce your original.

Potential Applications

- This app could be used to encrypt a text string and then have it saved to the phone. The encrypted string can then be sent out via email or Text Message. The string will look like a bunch of gibberish but if you know the multiplier or whatever math was used, you could decrypt the string. A million people could have the gibberish but only the one with the multiplier knows what it means.

