Mathematical Mesh Part II: Uniform Data Fingerprint.

Uniform Data Fingerprint (UDF)

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<keyword>Cryptography

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<keyword>OpenPGP

<also>http://mathmesh.com/Documents/draft-hallambaker-udf.html

<bibliography="../bib.xml">

This document describes the naming and addressing schemes used in the Mathematical Mesh. The means of generating Uniform Data Fingerprint (UDF) values and their presentation as text sequences and as URIs are described.

Introduction

UDF URIs

The EARL is then rendered as a QR code:

<figuresvg="../Generated/UDFDigestEARLRAW.svg">QR Code with embedded decryption and location key

A printable invoice containing the QR code is now generated and sent to Alice.

Fixed Length UDFs

To share a secret of *L* bits with a threshold of *n* we use a *f(x)* a polynomial of degree *n* in the modular field *p*:

*f(x)* = a0 *+ a1.x + a2 + … an*

*f(x)* = a0 *+ a1.x + a2.x2*

*f(x)* = a0 *+ a1.x + a2.x2 + … an.xn*