

# Trust

## Trustworthiness

Trusted

Trust: Who? What? When? Why? How?

#### Certification / Assessment is a spectrum



GAFAT
Websites | Apps

















Self Asserted Basic Check Self Certified

Independent Verification

Independently Assessed System

Independently Assessed Services

Physical

















#### Independent assessment of Services



#### Trust Framework | Scheme

#### tScheme Profiles and Process

## **Identity Service**

Service elements Rules of the road Controls

## PKI Network | Service

Service elements
Rules of the road
Controls

#### Modular Profiles for configurability



#### **Identity Profiles**

- ☐ Identity Provider
- ☐ Identity Registration
- ☐ Credential Management
- ☐ Credential Verification | Authentication
- ☐ Attribute Registration
- ☐ Physical Token Issuance

#### **PKI Profiles**

- ☐ Certification Authority
- ☐ Registration
- Certificate Generation
- Certificate Dissemination
- ☐ Certificate Status Management
- ☐ Certificate Status Validation
- ☐ Signing Key Pair Management (optional)

Profiles provide the scaffolding or chassis for the rules of the road and controls to be plugged into

#### **t** Scheme The Approval journey Select required tScheme Select Independent Agree Outline **Profiles for Trust** Specification of Service UKAS approved Framework | Scheme Assessor S<sub>3</sub>A Apply for Registered Registered Work with Assessor **Applicant Status Application Status** towards final audit Timescales | S3A Clarifications Final Audit Report Final tScheme tScheme and Quality Audit Board **Approved** Assurance

## Approval Journey - Headlines



Can be completed within 3 months, can take longer

Incremental costs along the way

tScheme fees

Assessor fees

Assessors are UKAS approved - must be a legal entity minimum of two individuals required

#### Building and Maintaining tScheme Profiles



Market
Requirements
New Services

Independent Assessor Feedback

Improvements | New Profiles

Regulation & Legislation

GDPR | PSD 2 | AML 4

Approved Services
New Features Changes



Independent | Expert | Proactive | Stable

Gather > Develop > Test > Update > Approve > Publish > Adopt > Manage



## Threat Vectors Current and Emerging

Legislation | Legislation Automation | Al TSP's | ASP's

#### Societal Trends

Trust | Security | Privacy Inclusion | Portability Person Centred Design

#### **Market Trends**

Attribute Exchange Open API's Transparency | Portability

#### Technology Trends

Automation | Al Blockchain | Distributed Ledgers |Biometrics Elliptic curve cryptography

#### tScheme approval easier to get if you have..



**ISO 27001** Certification is an auditable Information Security Management System and mechanism of selecting a control, defining how you inspect it and how you correct it where the control is not being followed or is not working as expected.

**ISO 9000 Certification** is a means of demonstrating why an organisations service is of a given quality which in of itself can feed into the evidence for an assessment / audit against the tScheme profiles.

**tScheme profiles** are written as a set of controls and a chassis to enable assessment of a service against these controls to ensure they deliver the

expected levels of service and trust.

## Summary - tScheme ......

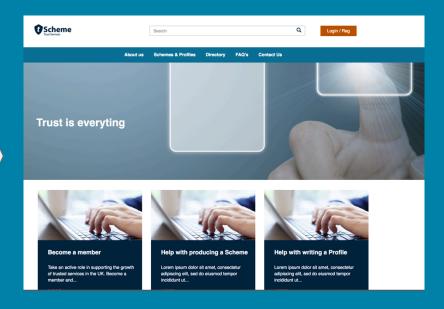


Is used where high levels of trust are required is trusted, independent and available now profiles can be applied to any Trust Framework or Scheme can develop new profiles for new requirements approval is open to any organisation | service assessors are independent and we are seeking more... has been delivering means to establish trust since 2000

### tScheme is growing and changing.....







## Growth: Demand for Trust in Digital Economy