



tScheme:
*independent regulation
for electronic trust services*

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tScheme *is*

- The industry-led, independent regulator granting **approval** to electronic trust services meeting agreed ‘best-practice’ criteria
- A not-for-profit organisation incorporating a broad range of stakeholders:
service providers, technology companies, government, users and relying parties



tScheme-Approved Service Marks



Digital Certificate services

- » PKI-based Certification & Registration Authorities



Identity services

- » e.g. authenticated Electronic Identity for access to Government Gateway applications



Community (Closed User Group) services

- » demonstrating commitment to best practice
- » assuring corporate governance objectives



Outsourced services

- » Facilities Management
- » Certificate factories



tScheme-Ready component services



tScheme *also is*

- an independent industry voice for the promotion of secure electronic transactions
- a growing source of expertise on best-practice in the implementation and management of electronic identity services
- an independent voice to government on electronic Trust Service industry matters
- a source of user advice and information on service applications & case studies
- a reference point on market needs and user priorities



Benefits of independent regulation

- Fledgling electronic trust services
- Innovative service offerings
- Evolving business applications

require

- Regulatory focus based on true customer priorities
- Expert support for procurement decisions
- Added value through ‘best-practice’ consolidation
- Flexible & supportive regulatory approach
- Industry-led, internationally-shared objectives



tScheme *current Members (Q1 2004)*

- **APACS**
 - **Barclays**
 - **Royal Bank of Scotland**
 - **Royal Mail**
 - **British Chambers of Commerce**
 - **BT**
 - **Intellect**
 - **CBI**
 - **III (Taiwan)**
 - **ACCA**
 - **Microsoft**
 - **Experian**
 - **e-Centre**
 - **IBM**
 - **Vodafone**
- plus key participants:*
- **DTI**
 - **Cabinet Office (CSIA)**
 - **InterForum**

***Total Members' investment in cash & expert resources =
£2M to end 2003***



tScheme *context*

- Directive 1999/93/EC (Digital Signatures Directive)
 - an Article 3.2 & 7.1(a) voluntary ‘accreditation’ scheme
- UK Electronic Communications Act 2000 (ECA)
- *tScheme*’s objective is to continue to be the preferred way of fulfilling Part I of ECA – avoiding the need for legislation



tScheme *and Electronic Identity*



Issues for the networked economy

from Home Office ID Fraud report - July 2002:

- Identity authentication = validation + verification:
 - Attributed Identity [risks include false information; document theft; forgery]
 - Biographical Identity [risks appear lower - harder to plant false records]
 - Biometric Identity [risks include untried on a large scale; database integrity]
- at the point of Issue: verifying a ‘real-world’ identity
- at the point of Use: authenticating an ‘electronic’ identity



Electronic Identity service approvals

- Government Gateway an early major relying party
 - » HMG Identity Verification requirements [HMGVInd] included
- Other external standards & guidelines anticipated
 - » e.g. Federated Identity ‘circles of trust’
- *tScheme* as independent regulator:
 - expert focus on service best-practice definition
 - developing approval criteria from credential issue to life-cycle management



e-Government Strategy Framework

Identity validation & verification:

[HMGVInd]

- Registration Levels
 - Level Zero (risk of minimal damage)
 - Level One (risk of minor damage)
 - Level Two (risk of significant damage) * *meets JMLSG identification guidance*
 - Level Three (risk of substantial damage)
- Face-to-Face or Remote Registration – minimum requirements
- Types of evidence & number of items required:
 - **Personal statement**
 - » Unique individual details
 - » Material for cross-checking
 - **Documentary evidence**
 - » Personal documents (attributed identity)
 - » Active in the community (biographical identity)
 - **Third party corroboration**
 - » Professional or Commercial source
 - **Existing relationship**
 - » Knowledge gained through an existing formal documented relationship

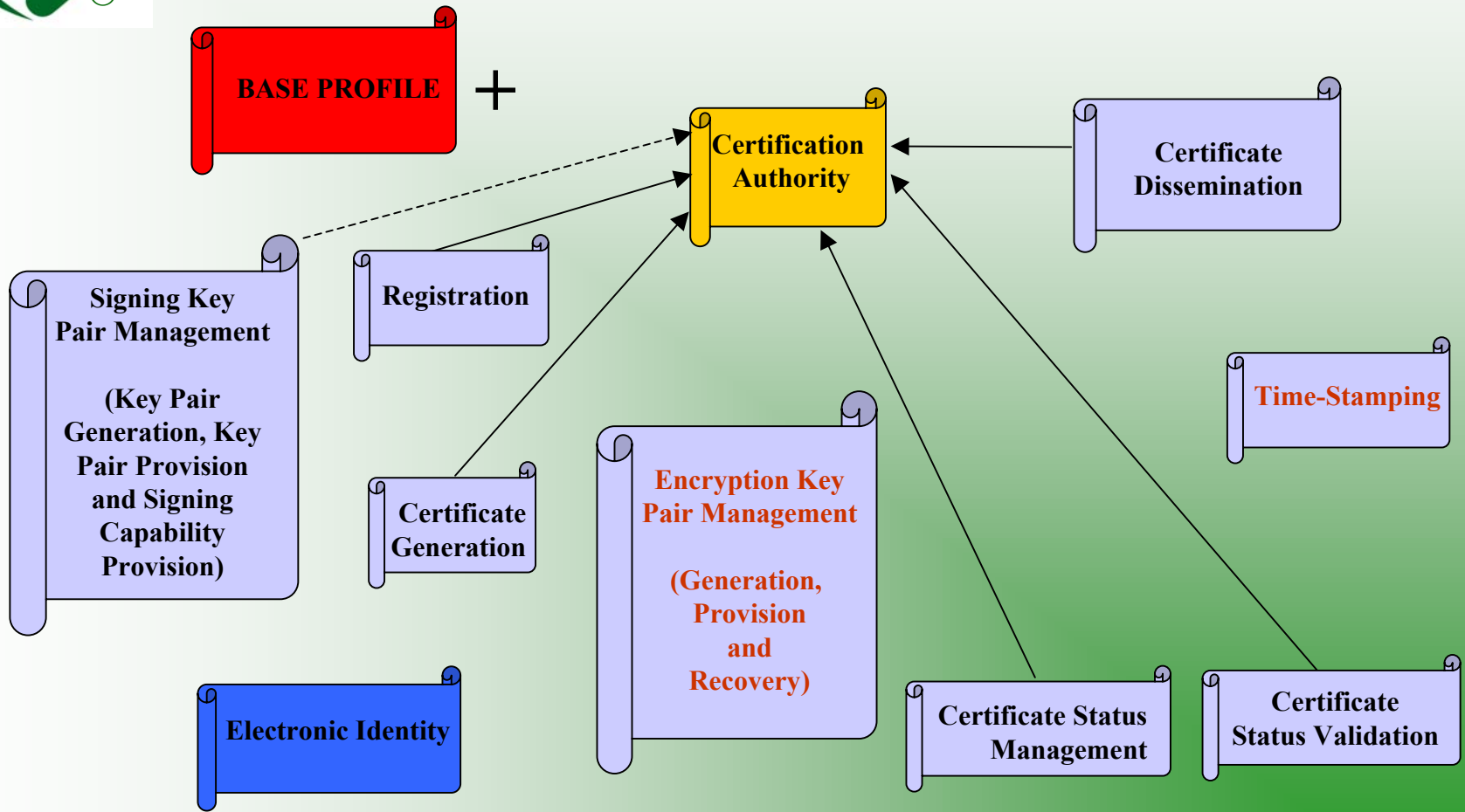


tScheme

Approval Profiles and Processes



tScheme Approval Profiles – current series:





tScheme *and Electronic Identity*

- Approval Profile [tSd0108] headline criteria:
 - » Service information
 - » Proxy verification
 - » Data protection compliance
 - » Registrant agreement
 - » Relying party agreement
 - » Secure delivery of credentials
 - » Recognised Verification Requirements
 - » Record maintenance



Trust Service Approval - potential future scope

- Encryption key-pair management services
- Time-stamping services
- *tScheme*-Ready component services
- ‘Identity-based encryption’ services
- ‘Empowerment model’ services
- ‘Trust-enabled’ services

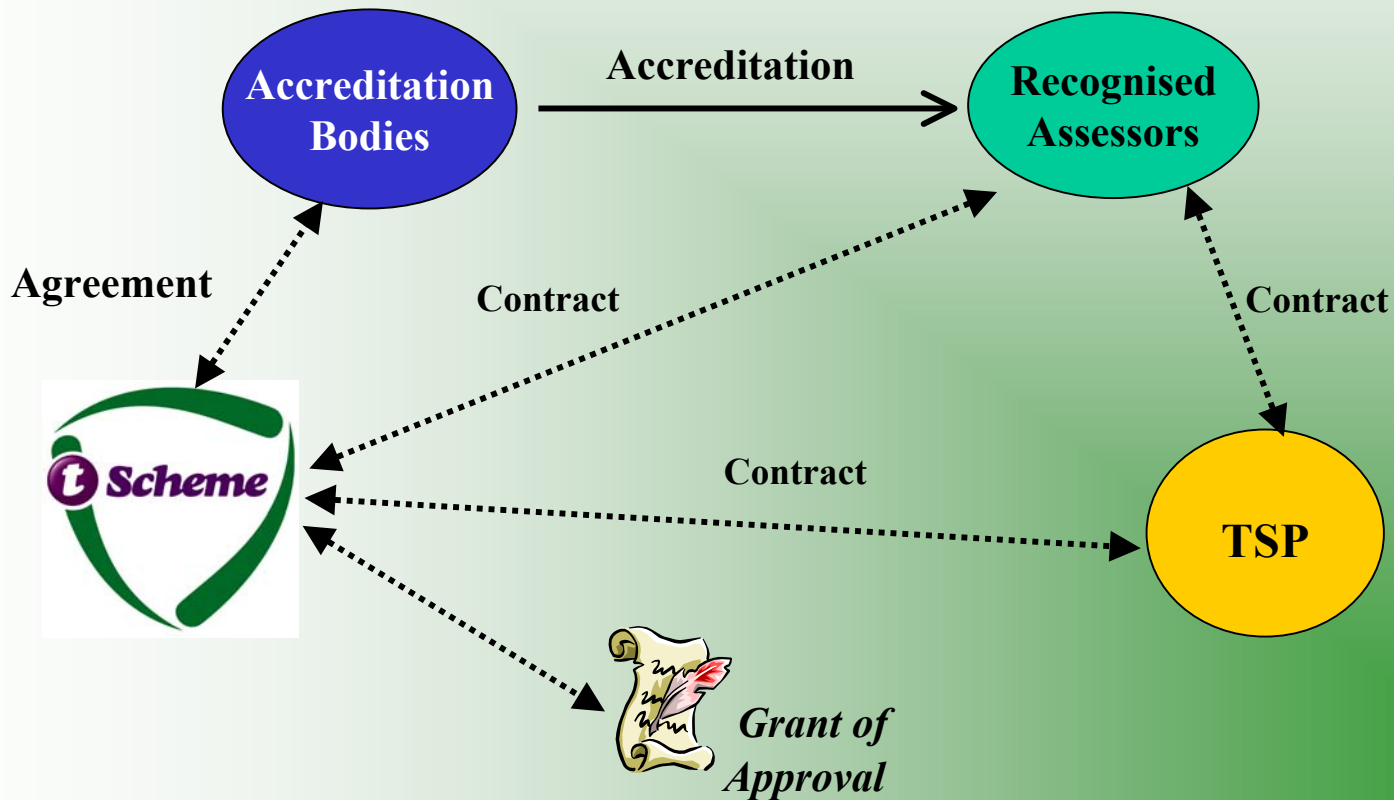


tScheme Approval focus: on operational Trust Service models

- Business probity and management competence
- Management and security policies and procedures
- Assurance of technical infrastructure
- Suitability of personnel
- Compliance with applicable legislation
- External relationships involved in service delivery
- Service-related policies and procedures
- Financial resources consistent with liabilities
- Procedures for dispute resolution



Approval Process





Process flexibility

- Accreditation of assessors + IAF assurance
= *scope for international harmonisation*
- Accredited Assessment bodies
= *existing Certification-Body skills enhancement*
- Development of industry best-practice criteria
» *including for 'closed community' systems*
- Applicability of relevant existing standards
» *ISO 17799, EESSI...*
- Peer scheme Mutual Recognition objectives
= *Faster route to wider implementation*



tScheme *present value (1)*

- 5 current ‘tScheme-Approved Service’ Grants
 - full Grant details at <https://www.tScheme.org/directory>
- 9 Approval Profiles - consolidation of industry best practice
 - future Profiles anticipated as services evolve
- 300+ individually-tagged assessment criteria
 - also enabling ‘tScheme-Ready’ component service assessment



tScheme *present value* ***(continued)***

- Required Assessment Procedures document
 - plus ‘Guidance for Assessments’; ‘Preparing for Assessment’
- Model Assessment Reports & Service specification templates
 - including a precise Service Description requirement
- Model Agreements
 - Grant of Approval, Registered Applicant, Recognised Assessors
- “*tScheme* Guide to Securing Electronic Transactions”
 - published at www.tScheme.org and available for translation

**NB: available now for use in any *tScheme* process –
including licensing of *tScheme* IPR**



tScheme and the EC Directive

tScheme is the leading voluntary scheme:

- aiming at enhanced levels of certification-service provision [including Qualified Certificates]
- operating as a framework for developing levels of trust, security and quality for the evolving market
- encouraging development of best-practice
- all service providers are free to adhere and benefit
- fully objective, transparent, proportionate and non-discriminatory



tScheme *international goals*

- Enhancing the value of electronic trust services
 - through awareness creation and consistent standards
- Enhancing the value of service Approvals:
 - for Trust Service Providers
 - for users and relying parties
- *tScheme* offers an underlying mark of assurance for ‘Mutual Recognition’ between peer schemes



tScheme - *Peer Schemes*

Mutual Recognition initiative:

- Workshop programme sponsored by *tScheme* & DTI
 - launch event on 12 December 2002
 - second event on 16 September 2003 with further dates proposed
- Discussion papers published & Domain established:
 - » www.ViTAS-cig.org
- Shared Code of Practice topics:
 - » Accreditation and Assessments
 - » Basic approval criteria
 - » Service-specific approval criteria
 - » Publication of recognised status



tScheme *as independent regulator*

- promoting industry best-practice
 - addressing emerging services e.g. Electronic Identity
 - creating an efficient and flexible regulatory approach
 - applying internationally-recognised standards
 - enabling ‘light-touch’ legislation
- = *practical and relevant market regulation***



find us at:

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