

# Digital Signatures Beyond the PC

David Jeal, Product Manager  
8th November 2001



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## Vodafone View of Digital Signatures

**“Mobile e-commerce (and in particular 3G applications) can only be delivered by using digital signatures. There is simply no other way of doing it... and we understand the tools needed to do it in a recognisably secure way”**

Mike Walker, Vodafone Group R&D Director & Raddichio Board

Member



## Situation Review...

**Vodafone is the largest issuer of Smartcards (SIMs) and card-readers (mobile 'phones) in the world**

**The mobile phone is an integrated and contactless Smartcard device**

**My mobile 'phone is "on" and with me all the time**

- Not stuck in the office on my desk or at home in my TV

**Mobile 'phones enable a "secure framework" to extend across many channels**

- Voice, SIM-Toolkit, WAP, GPRS, 3G, Fixed Internet, Digital-TV, Retail

**The mobile 'phone is socially inclusive**



## Security Framework Concept

**Underpins ALL applications**

**Separates "application" from "security"**

**A strong, consistent security solution**

**Standard, not bespoke, implementations**

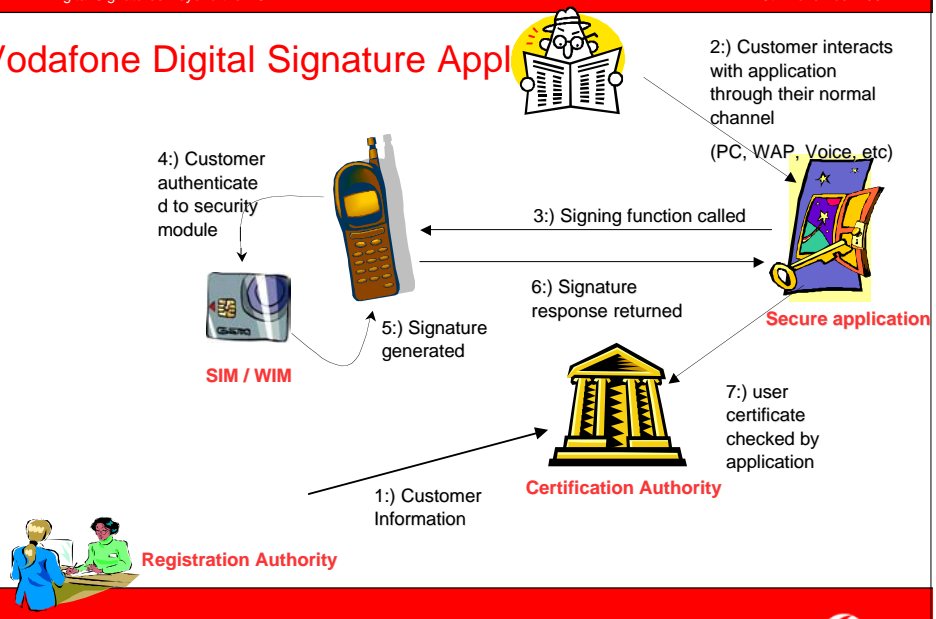
**Leverages a preferred user experience**

**A capability to realise mobile commerce applications**

**Private or Public Authentication**



# Vodafone Digital Signature Appl



## The User Experience



## Mobile 'Phone as Personal Trusted Device...

It's mine and always with me  
I understand it (... it's a phone!)  
I depend on it and look after it  
It knows where I am (and when)  
It can authenticate me to all my "applications"  
More available than PCs (and by 2005, than TVs)  
The SIM-card is recognised as a tamper-resistant device



## Summary...

Security can only be provided usefully and effectively through a consistent, strong "secure framework"

Applications should map onto the "secure framework"

Applications should be independent of network bearer

Experienced, specialist advice/guidance is essential

Applications **MUST** add value and be meaningful in a user's daily lifestyle... encouraging usage



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