

## **GII Security - Research, Technical Developments and Standards**

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The Global Information Infrastructure promises to revolutionize electronic commerce, revive and energise government, and provide new and open access to the information society. Consequently security for GII is of critical importance to individuals, businesses and governments: both for privacy protection, and security and reliability, to provide the right levels of confidence and assurance in using this information infrastructure.

Work is being undertaken at different levels:

- ◆ standardisation effort is being applied within ISO/ISE and ITU-T, and at national level (e.g. the ANSI IISP);
- ◆ research is being carried at national, regional and global levels (e.g. global interoperability of broad networks, global emergency response networks, telecoms networks for government on-line, trans-European networks in telecommunications);
- ◆ pilot programs (e.g. the G7 Pilots);

There are many security issues to be considered and many areas of research into the security and assurance of telecoms networks to be covered. This presentation reviews some of the requirements and topics for research and standardisation currently being discussed for GII Security.

Ted Humphreys is Director of XiSEC Consultants a company based in the UK specialising in information systems security. His company is currently working in the area of Trusted Third Parties and PKI, Internet/Intranet security, telecoms security, digital signature and encryption techniques and applications.

He is the convenor of Working Group 1 within ISO/IEC JTC1/SC27. His group develops management standards for IT security and they have also currently started work on GII Security. He is also the editor of an ESTITTP standard on Key Management and Key Escrow/Recovery Services.