ITU Workshop on "Security Aspects of Blockchain" (Geneva, Switzerland, 21 March 2017)

Session 2 Chairperson's Reports

Geneva, Switzerland, 21 March 2017

Session 2
Session title: Applications and use-cases of blockchain and their needs for security technologies

- Moderator's name – Patrick Curry

- This session considers major applications of blockchains, their different functional characteristics and some example use cases. The session goes on to list the fundamental security and trust mechanisms on which blockchains, containing regulated data, depend. Its objectives are to describe major application areas, major functional characteristics and their variation across application areas, example use cases and fundamental security and trust mechanisms upon required within a compliant blockchain, across blockchains and around blockchains.

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Session 2
Presentations and brief summary

1. *A Security Perspective on Blockchain Use Cases @ Swisscom*
    David Watrin, Swisscom

2. *Blockchain: Definitions, Use Cases & Challenges*
    Siân Jones, Credits

3. *Blockchain's Brave New World*
    Haydn Jones, Blockchain Hub

4. *Blockchains – risk or mitigation?*
    Patrick Curry, BBFA & Kyckr

[Peter Randall, SETL – apologies]

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Session 2
Results & Conclusion

- Much more to discuss. Innovation is happening – move fast

- Some recommendations to SG17

  - Coordinate with TC307, SC27 and others. Liaison is not enough

  - Focus on other sectors, not just fintech

  - Focus on real change, not theory. Look at new use cases

  - Expect many, many small chains & federations of chains

  - Assurance in the blockchain. High quality, non-repudiation

  - Assured external dependencies

    - Authentication of all entity types – person, device and organisation

    - Federation is essential. PKI federation could replace proof of work

    - Trusted attribute providers. Particularly ROLO for organisational ID & attributes

  - Link to ISO270XX and Cybersecurity frameworks. And to Internet governance

  - Include law enforcement

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