

UKNOF Jan 2014

NICC Standards

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Agenda



- What is NICC?
- Why UK standards?
- A potted history of NICC
- Current Activity
- Membership

What is NICC?



- NICC is the design authority for the UK telecoms network
- We deliver interoperability standards for UK telecoms networks
- Our standards, which draw upon those developed in international fora, underpin
 - Interworking of traditional telephony networks
 - Interworking of next generation networks
 - Commercially neutral access networks
 - Number portability, Calling Line Identity
 - Network Security
 - End-to-end service quality



Why uk standards?





National standards are bad

International standards are good

So why have UK standards?





In general we don't!

NICC Standards works in two spaces:

- Profiling international standards
- Driving international standards



Why UK standards?

Profiling international standards:

- International standards generally have options
- There needs to be some liaison to agree which options are used
- NICC develops the UK profile
- e.g. SIP



Why UK standards?

Driving international standards #1:

- International agencies & blank sheets of paper don't mix
- Concepts are better socialised before going straight to an international agency
- Sometimes the business needs dictate a national solution which is then socialised internationally



Why UK standards?

Driving international standards #2:

- Profiling, writing test specs & testing identifies flaws
- We can then take these back into international agencies
- e.g. SIP UNI



A history of nicc





The history of NICC is the history of UK competitive telecoms

- Established in 1990s as a committee of Oftel
- With Ofcom emphasis on co-regulatory approach, NICC Standards was spun off as an industry owned body



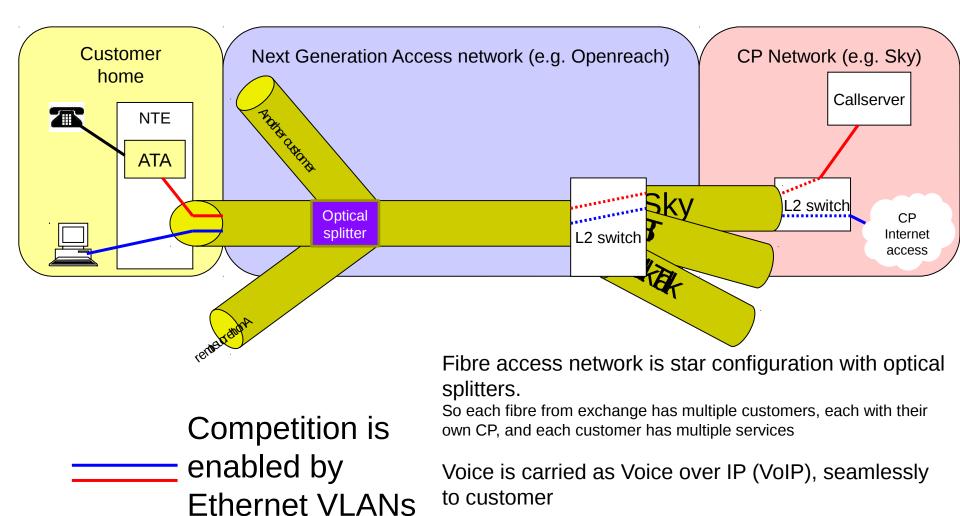


Some NICC achievements

- The C7 protocols that have interconnected UK voice networks for the last 25 years
- Calling Line Identity standards
- Number portability
- Location for 999 service
- Access Network Frequency Plan that allows local loop unbundling
- Standards allowing competition in Next Generation Access
- SIP interconnect standards

Case study: Next Generation Access (FTTH)





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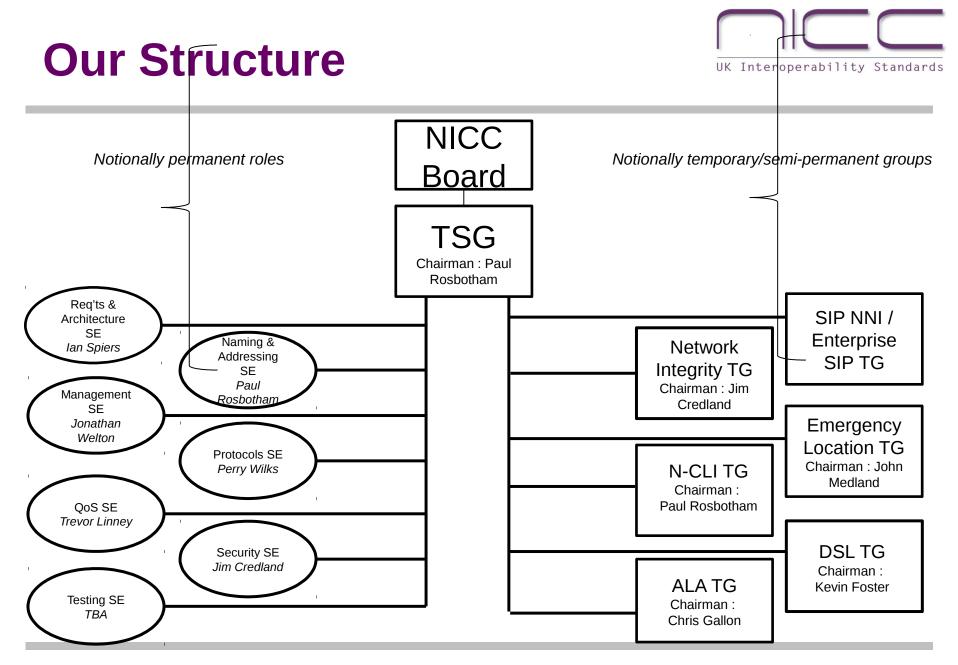
Case study : Next Generation Access



- Transport layer is called Active Line Access (ALA)
 - Requirements for Ethernet Interconnect and Ethernet ALA (ND1642)
 - Architecture for Ethernet ALA (ND1644)
 - Ethernet ALA Service Definition (ND1030)
 - ALA UNI specification (ND1031)
 - ALA NNI specification (ND1036)
 - Management specs...(ND1649, ND1651)
- Voice application layer is called NGA-Telephony
 - NGA telephony : Architecture & Requirements (ND1645)
 - NGA telephony : SIP User Profile (ND1033)
 - NGA telephony : Management (ND1646)



Current activity



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Standards Delivered in 2013

DSL TG

ND1436 – Wires only VDSL2 test plan

SIP NNI/Enterprise SIP TG

- ND1647 SIP NNI Basic Voice Architecture
- ND1035 SIP NNI Signalling Interface

ALA TG

- ND1417 ALA management & provisioning architecture
- ND1649 B2B L2C for ALA
- ND1651 B2B L2C XML standard for ALA
- ND1031 ALA UNI specification

Nuisance Calling / CLI TG

ND1437 – Nuisance Call Tracing





DSLTG

- ND1517 Exchange-based VDSL2
- ND1518 DSM techniques
- ND1516 Vectoring use cases

SIP NNI/Enterprise SIP TG

- ND1034 Corporate SIP Signalling Interface
- ND1035 SIP NNI Signalling Interface (v2)
- ND1037 SIP NNI interworking specification

Network Integrity TG

 (Potential) update to ND1407, prevention of dial thru fraud, to reflect SIP PBXs





ALA TG

ND1652 – NGA-T management XML specification

N-CLI TG

- Update to ND1437 Nuisance Call Tracing
- ND1016 CLI Guidelines

Emloc

- ND1432 Use cases for ND1638
- ND1514 Report on Emergency services over IP



Membership

NICC members



NICC membership is open to anyone with an interest in the UK telecoms market. We have approximately 50 members

Traditional fixed Communications Providers:

e.g. BT, Virgin, Gamma, Colt, TalkTalk, Sky, KCOM

Mobile Providers:

e.g. Vodafone, Everything Everywhere, Three. Telefonica

Internet telephony providers:

e.g. Magrathea, Ikanos

Equipment vendors:

e.g. Ericsson, Telent, Ftel, Genband, Huawei. ECI

Government/regulators:

Ofcom, BIS, CPNI

Annual membership fees:

for Full Members - £2,500 plus VAT for Associate Members — £1,250 plus VAT

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Any Questions?

Or contact: nicc@theiet.org