TSA Virtual Surgeries 2021









TSA PRIORITIES

THE VOICE OF AUTHORITY IN TEC

Our voice in Health, Housing and Care sectors to enhance the understanding, development and adoption of technology in care. We will serve as trusted, authoritative representative of the TEC community and ensure members and sector are more broadly represented with decision makers in government and beyond.

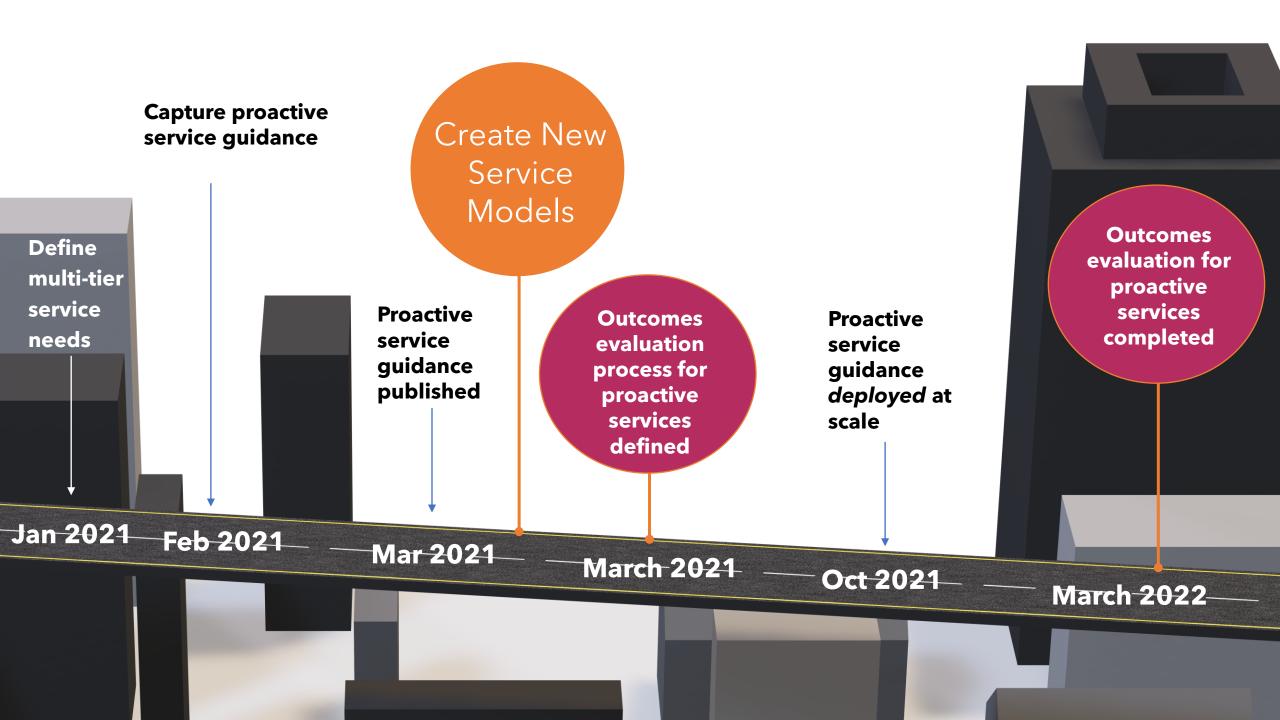
THE TEC KNOWLEDGE HUB

We will be the trusted source of knowledge for those working in the broad Health, Housing and Care sector and our memberships. We will establish a knowledge-based community of practice and an information-rich hub for novel connections that match needs and opportunities.

THE TEC PROFESSIONAL BODY

We will set and maintain professional standards in Technology Enabled Care through the development of the QSF. We will develop and implement quality standards that drive the practical delivery of technology solutions, improving outcomes for people. We will build skills and enhance the standing of organisations and people working in the care sector.



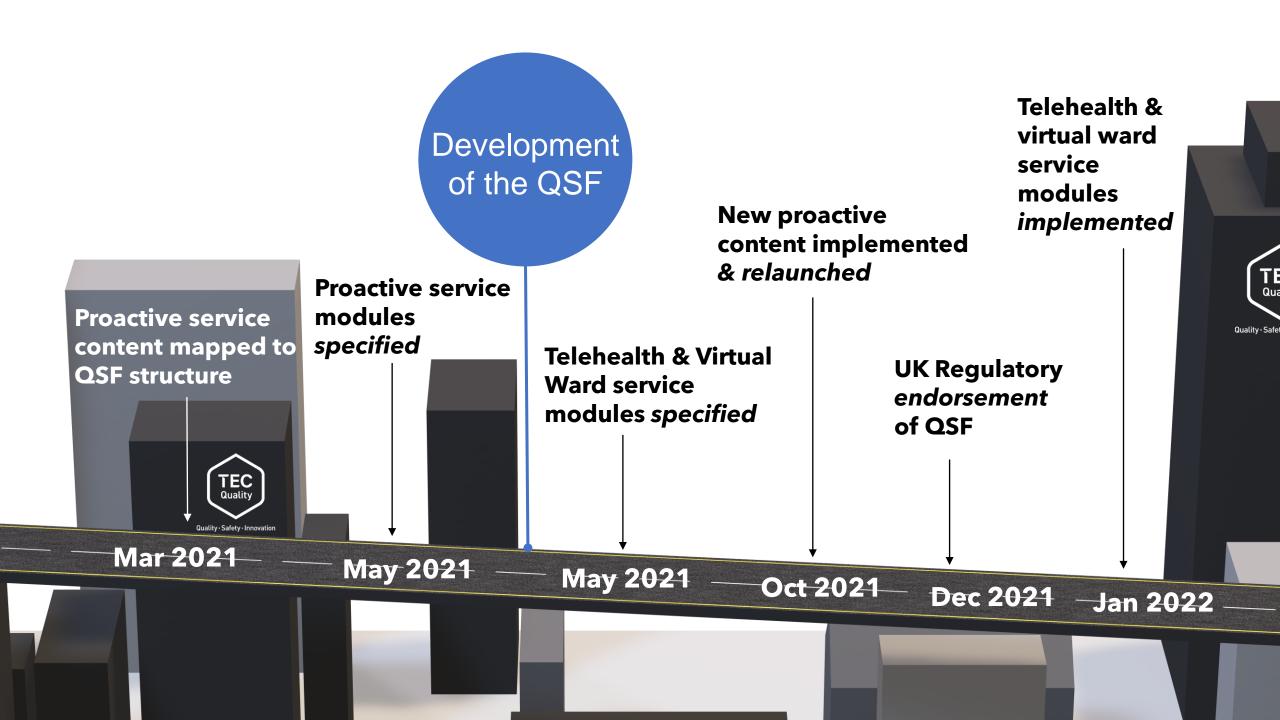








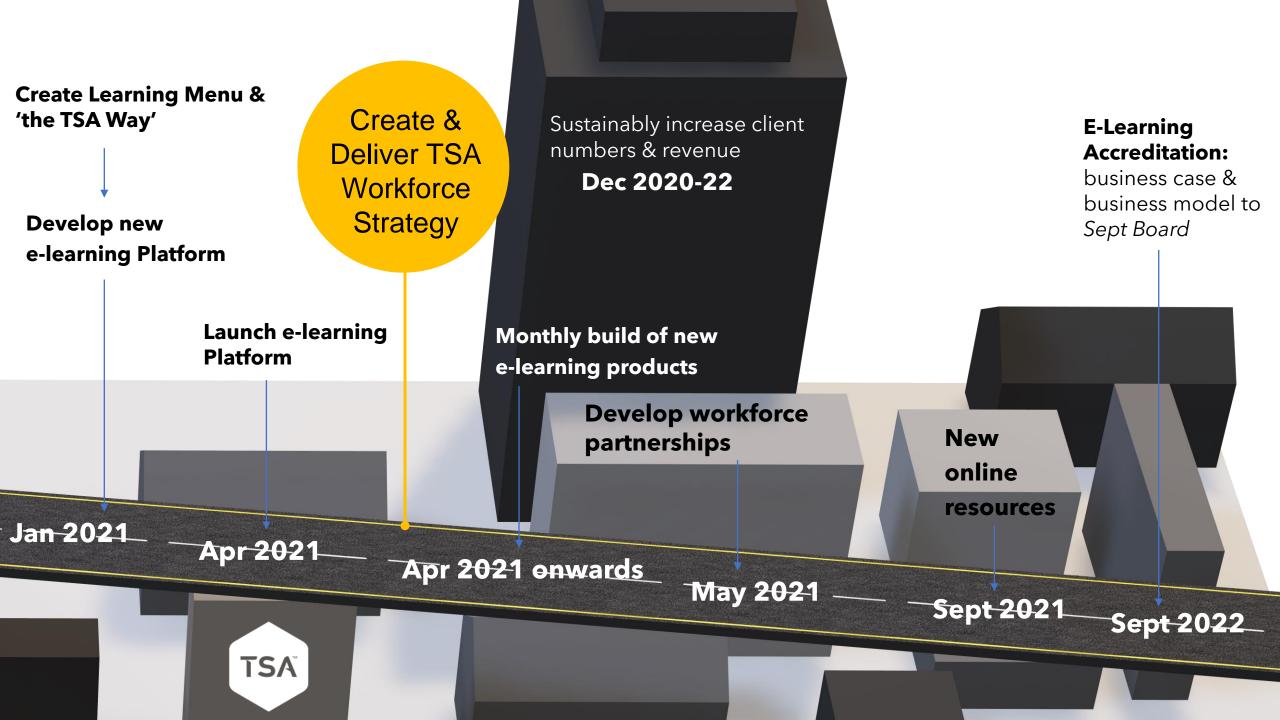
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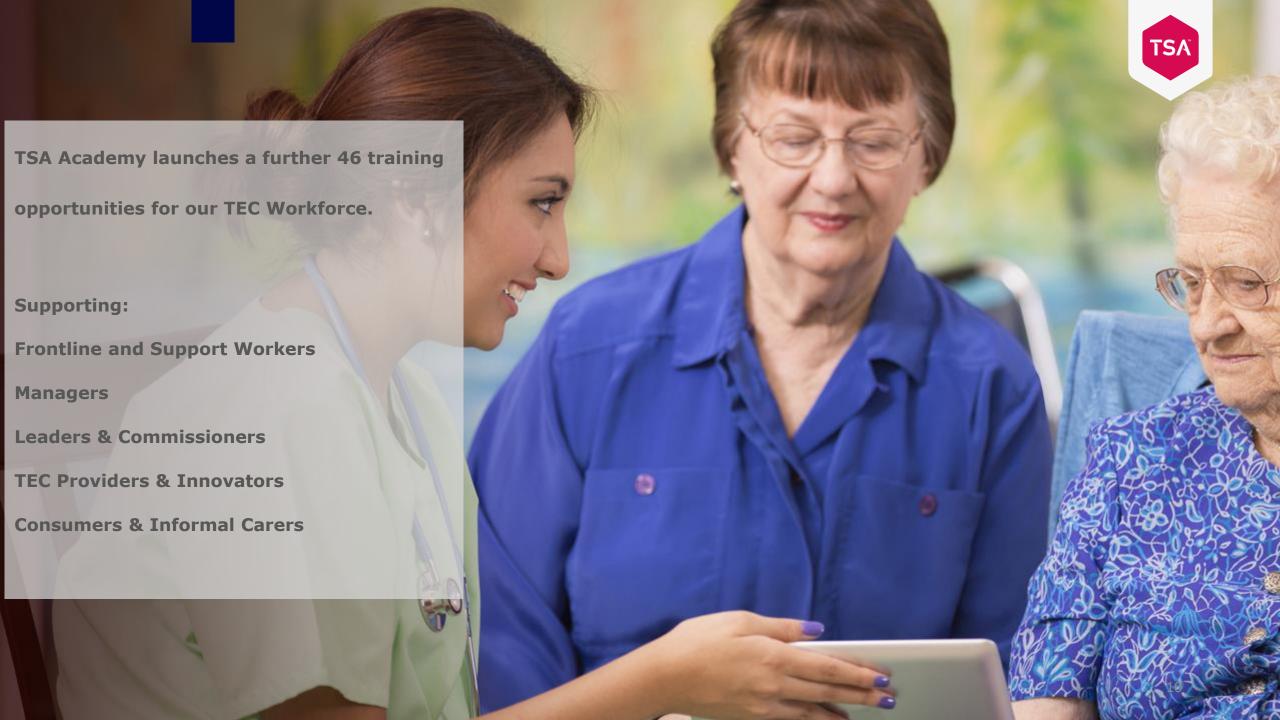




ACADEMY

Developing your people to deliver exceptional care





Expanding the services we offer

Digital Champion & Ambassador Programmes

Service User Led Training

Tech-Buddies

Digital Mentoring

Change & Transformation Consultancy

Workforce Research & Analysis

Learning Needs Analysis





Tailored to suit your needs

In-house Face to Face Training

Virtual Classroom & Webinars

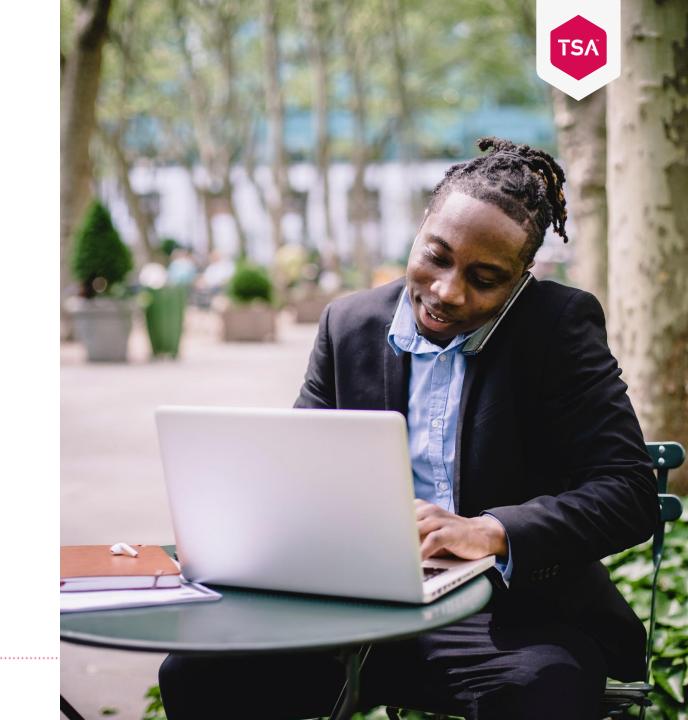
'TECBites'

Coaching

Mentoring & Peer Learning

Blended Learning

Tools & Guides







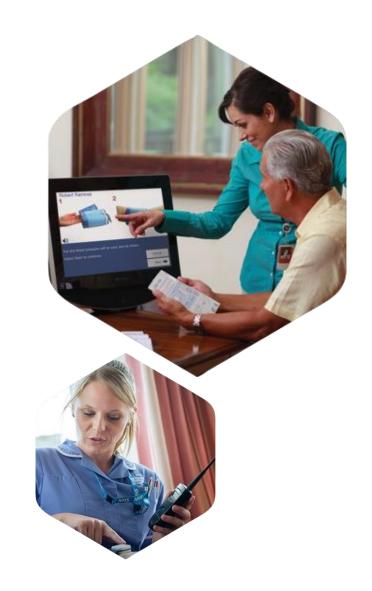


All IP — The story so far.....

TSA is assisting its members with the journey from Analogue to Digital:

- Publications
- Webinars
- Special Interest Groups
- Guidance

We aim to push standards, influence the commissioning landscape, simplify the jargon, offer advice around 'Analogue on Digital' and share best practice.



All IP — Publications

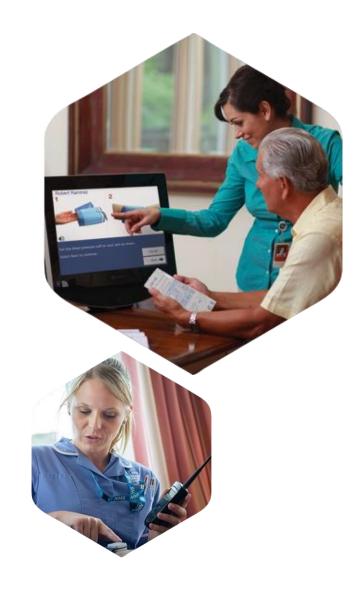
Openreach Exchange Migration Spreadsheet

https://www.tsavoice.org.uk/downloads/excel sheets/list of fttp exchanges ja n20.xlsx

- Exchange Name
- Location
- Migration Date
- Region
- Post Code

Telephone Number lookup

https://availability.samknows.com/broadband/exchange_search



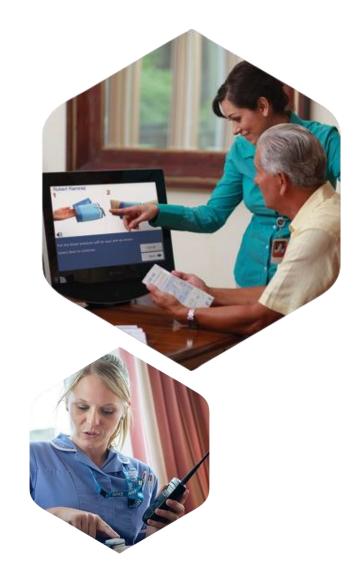


All IP — Publications

Analogue to Digital migration considerations

https://www.tsa-voice.org.uk/downloads/pdfs/allip migration and reliability assurance final.pdf

- Funding
- Communication to the vulnerable
- Digital skills
- Power Failure protection
- Peripherals
- SIM networks
- Resilience
- Testing
- Interoperability



All IP – Webinars

https://www.tsa-voice.org.uk/events/webinars/

ALL IP: The burning platform of PSTN & ISDN

Presenters

- Openreach
- OFCOM
- BT
- Talk Talk

Topics

- Roll-out of Digital
- Protection of the vulnerable
- Power failure mitigation
- Testing of Analogue on Digital
- Live Q&A



All IP – Webinars

https://www.tsa-voice.org.uk/events/webinars/

ALL IP Digital Alarm Devices: Getting up to Speed

Presenters

- Alcuris
- Appello
- Chiptech
- Chubb
- Doro
- Everon
- Tynetec
- Possum
- Telealarm
- Tunstall

Topics

- Digital Protocols
- Testing
- Deployment
- Stock
- Protocols
- Interoperability
- Proactivity
- Live Q&A

Commissioner Panel

- Rachel Falconer, NHSx
- Kevin McSorley, Radius Housing
- Aaron Edwards, Cardiff Council
- Chris Barton, Glasgow City Council
- Ann Williams, Liverpool City Council



All IP – Webinars

https://www.tsa-voice.org.uk/events/webinars/

ALL IP ARC Platform: The foundation to end to end digital

Presenters

- Tunstall
- Skyresponse
- Jontek
- Enovation
- Doro
- Chubb
- Appello

Topics

- Digital
- Deployment
- Protocols
- Interoperability
- Flexibility
- Proactivity
- Live Q&A

Commissioner Panel

- Penny Hobson, Health and Social Care Northern Ireland
- Aaron Edwards, Cardiff Council
- Gillian Bland, East Renfrewshire Council
- Antony Dixon, Nottingham City Homes





All IP – Special Interest Groups



 SIG01 Collation of test and real world data for the use of analogue TEC devices on digital networks (TM)

SIG04 Not currently live but under review as European stands evolve and require TSA support for development (PF)

• SIG06 Update of guidance relevant to Digital devices and their interaction with ARCs using mobile and fixed networks (TM)

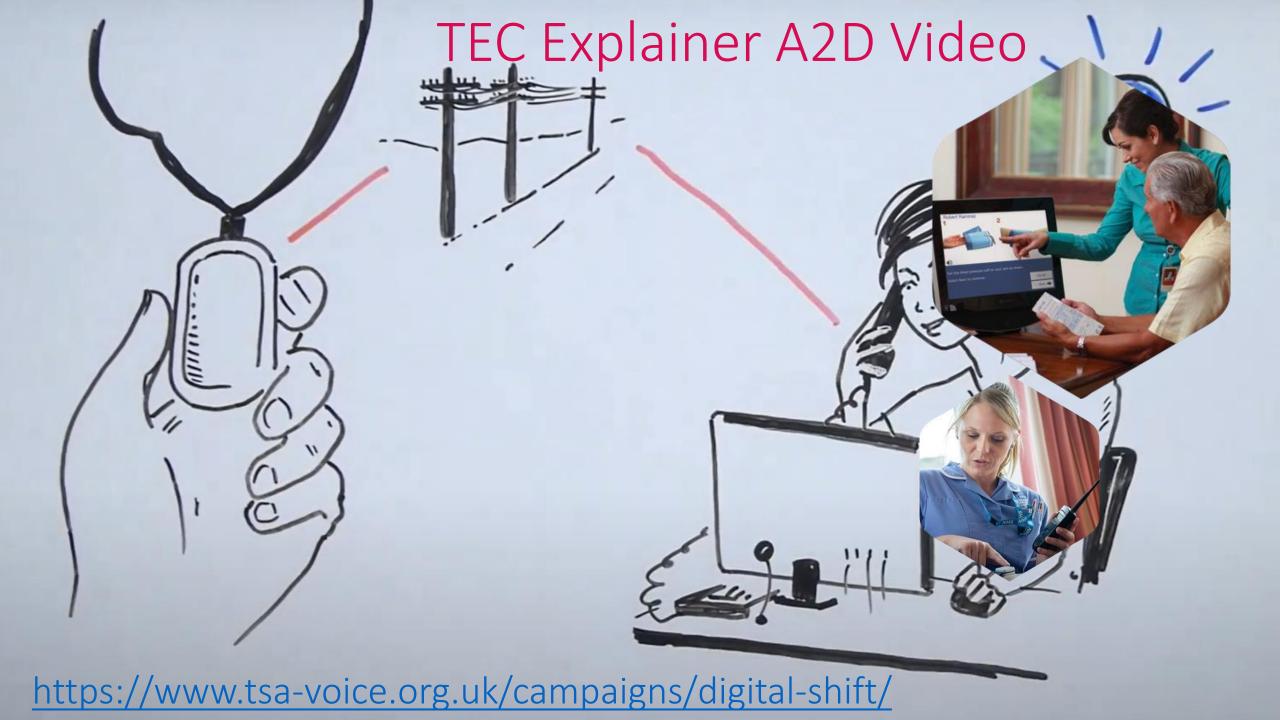
• SIG07 Collation of case studies and guidance for the use of IoT devices within the TEC sector and how that use will evolve for critical TEC alerting (ND)

that use will evolve for critical TEC alerting (ND)

SIG08 Focused on the production of standards and guidance for the service availability and reliability of Alarm Receiving Platforms. Consideration to widening the scope to non-ARC platforms and digital TEC devices (SS)

 SIG11 Guidancé on the use of data and standards for driving proactive and preventative care models from within the TEC sector





SIG01 Analogue over Digital testing example

Site	Impairment	Jontek (BS8521)		PNC8 (TT92)		UMO (CPC)	
		Audio Exchange		Audio Exchange		Audio Exchange	
ВТ	0	Poor	OK	Poor	OK	Poor	OK
ВТ	1	Good	OK	Good	OK	Good	OK
ВТ	2	Good	OK	Good	OK	Good	OK
ВТ	3	Poor	ОК	Poor	OK	Poor	OK
ВТ	4	Very Poor	OK	Very Poor	OK	Very Poor	OK
VM	0	Poor #1	OK	Poor	OK	Poor #1	OK
VM	1	Poor #1	OK	Good	OK	Poor #1	OK
VM	2	Good	OK	Good	OK	Good	OK
VM	3	Good	OK	No Audio	OK	Poor #1	OK
···· VM	4	Very Poor #1	ОК	Very Poor	OK	Very Poor #1	OK

SIG01 Initial Testing Narrative

- Audio quality testing may indicate that the default setting should be centred around level 1- 2
- ARCs handling calls in Simplex seem to more flexible/tolerant to the slight distortion/audio clipping being experienced on some of the calls.
- Some ARCs will not allow IP calls to be placed to the ARCs via an end users router due to the VPN requirements. Certification encryption needs to be tested
- No handshake failures were experienced from the PSTN/GSM units using various protocols/ARC combinations when selecting any of the line impedance settings available.
- There is a scenario whereby if a call is answered using the pendant and incorrectly hung up by the caller, the unit goes on to emit the "Hang up now/siren" tones.
 This can be hung up using the pendant however should be automatically sensed to prevent service user distress.





SIG01 Analogue over Digital test devices

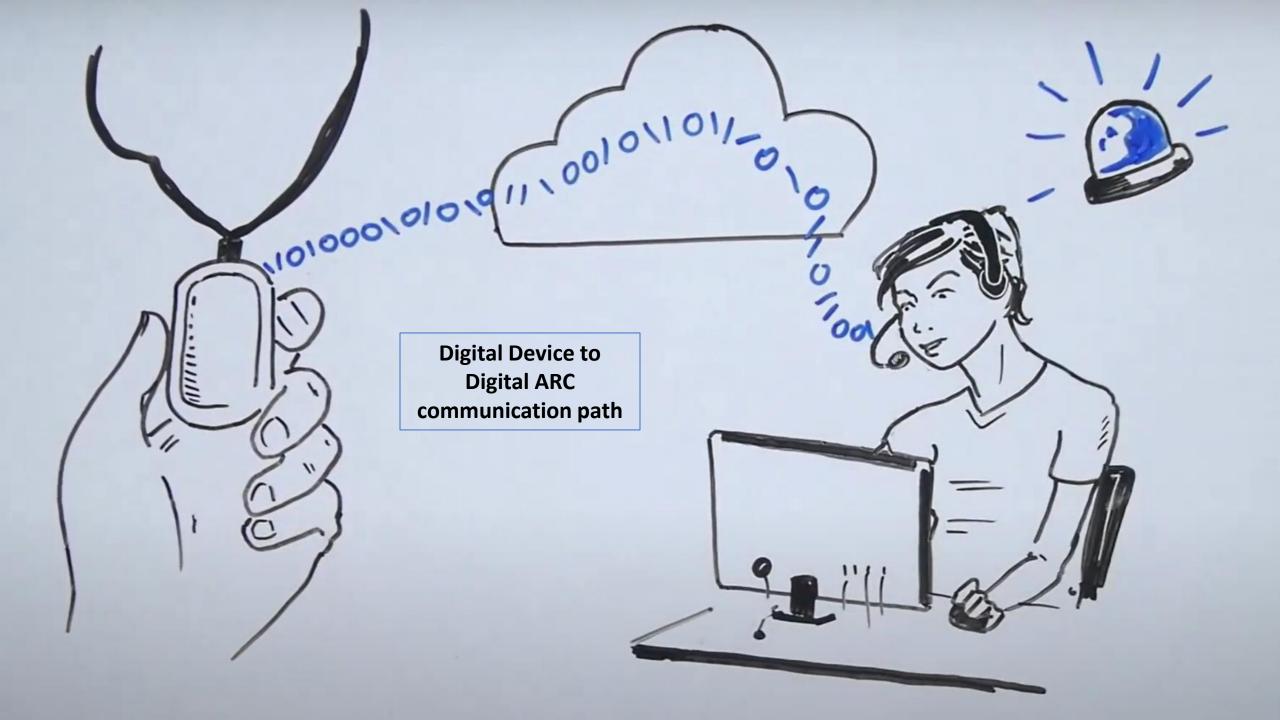
Manufacturer	Analogue Product
Tunstall	Lifeline Vi+
Tunstall	Lifeline Vi
Tunstall	Lifeline GSM
Tunstall	Lifeline Connect+
Tunstall	Lifeline Connect (post 2012)
Tunstall	Lifeline Connect (pre 2012)
Tunstall	Lifeline 4000
Tunstall	Lifeline 1000
Tunstall	Lifeline 400
Tunstall	Care Assist
Tynetec	Reach
Tynetec	Sayphone2
Chubb	Careunity
Chubb	Intellilink
Novo	PSTN/GSM

All IP – Guidance: Common Analogue Protocols

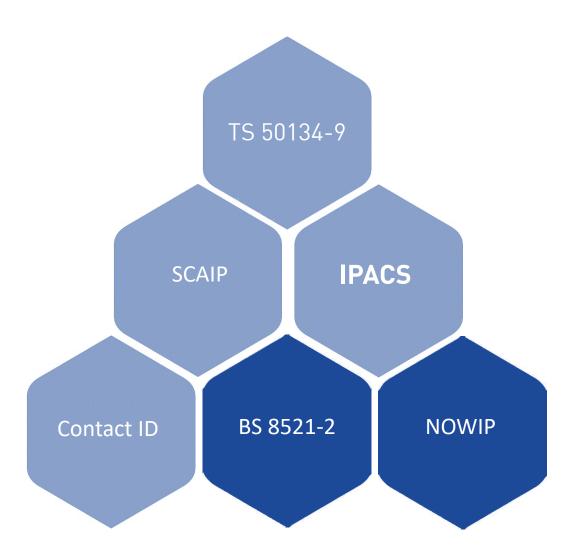


- BS8521 British Standards certified (DTMF) multi-platform alarm protocol
- TT21 DTMF protocol
- TT21 Single Tone STMF protocol used in Tunstall device to Tunstall ARC only, more resilient protocol than DTMF commonly used in GSM based (mobile) units
- TT92 DTMF protocol
- TT92 Single Tone STMF protocol used in Tunstall device to Tunstall ARC only
- TTNew typically In operation in grouped living
- TTOId Still in operation in some grouped accomodation, unlikely to work with digital





All IP – Guidance: Common Digital Protocols



- TS 50134-9 CENELEC ratified interoperable digital protocol, derived from SCAIP, certified and published by British Standards
- **SCAIP** Original digital interoperable protocol developed in Sweden
- **IPACS** Tunstall proprietary digital protocol, Tunstall state is a stronger digital protocol than either SCAIP or TS50134-9
- Contact ID Digital protocol developed within the security industry, commonly used in for digital social alarm communications in Australasia
- BS 8521-2 Interoperable digital protocol used in grouped accomodation, based on NOWIP, certified and published by British Standards
- NOWIP Original digital protocol developed for grouped accomodation, superseded by BS 8521-2



The TS50134-9 Digital Interoperable protocol data fields



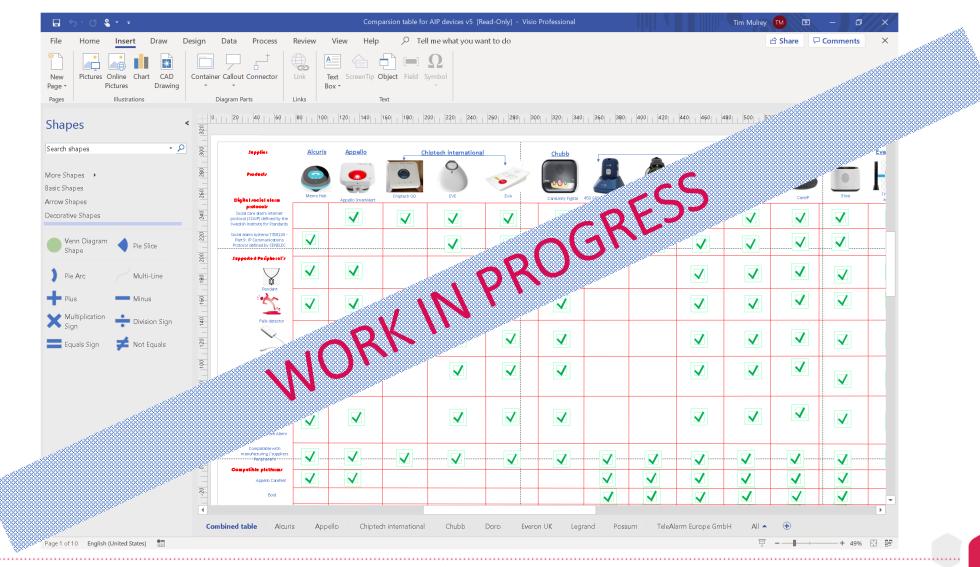
Code	de Device Type		
0	Reserved for future use		
1	Reserved for future use		
2	Local unit & controller		
3	Personal trigger/pendant		
4	Fixed trigger		
5	Fall trigger/detector		
6	Personal attack pendant		
7			
8			
9			
10	,		
11	Pill dispenser		
12	Bed monitor		
13	Mat sensor		
14	Door sensor		
15	Wandering sensor		
16	Enuresis detector		
17	Epilepsy detector		
18	Occupancy detector		
19	Heart rate monitor		
20	Environmental monitor		
21	(Natural) gas detector		
22	Lighting circuit monitor		
23	Smoke detector		
24	Heating system monitor		
25	Heat detector		
26	Carbon monoxide gas detector		
27	Bogus caller switch		
28	Intruder detector		
29	Boundary detector		
30	Automatic) man down detector		
31	System monitor		
32	Communication link monitor		
33	Flood detector		
34	Bath sensor		

Code	Device Status
0	Reserved for future use
1	Reserved for future use
2	Reserved for future use
3	Absent/away
4	Reserved for future use
5	Reserved for future use
6	Reserved for future use
7	Reserved for future use
8	Reserved for future use
9	Alarm (automatic)
10	Alarm (manual)
11	Reserved for future use
12	Armed
13	Reserved for future use
14	Battery failure
15	Battery high/full/recharged
16	Battery low
17	Reserved for future use
18	Bypass
19	Reserved for future use
20	Reserved for future use
21	Closed
22	Closed too long
23	Communication link, IP, failure
24	Communication link, mobile network, failure
25	Communication link, POTS, failure
26	Communication link, primary, failure
27	Communication link, redundant, failure
28	Reserved for future use
29	Reserved for future use
30	Disarmed
31	Reserved for future use
32	Error, code
33	Reserved for future use
34	Reserved for future use

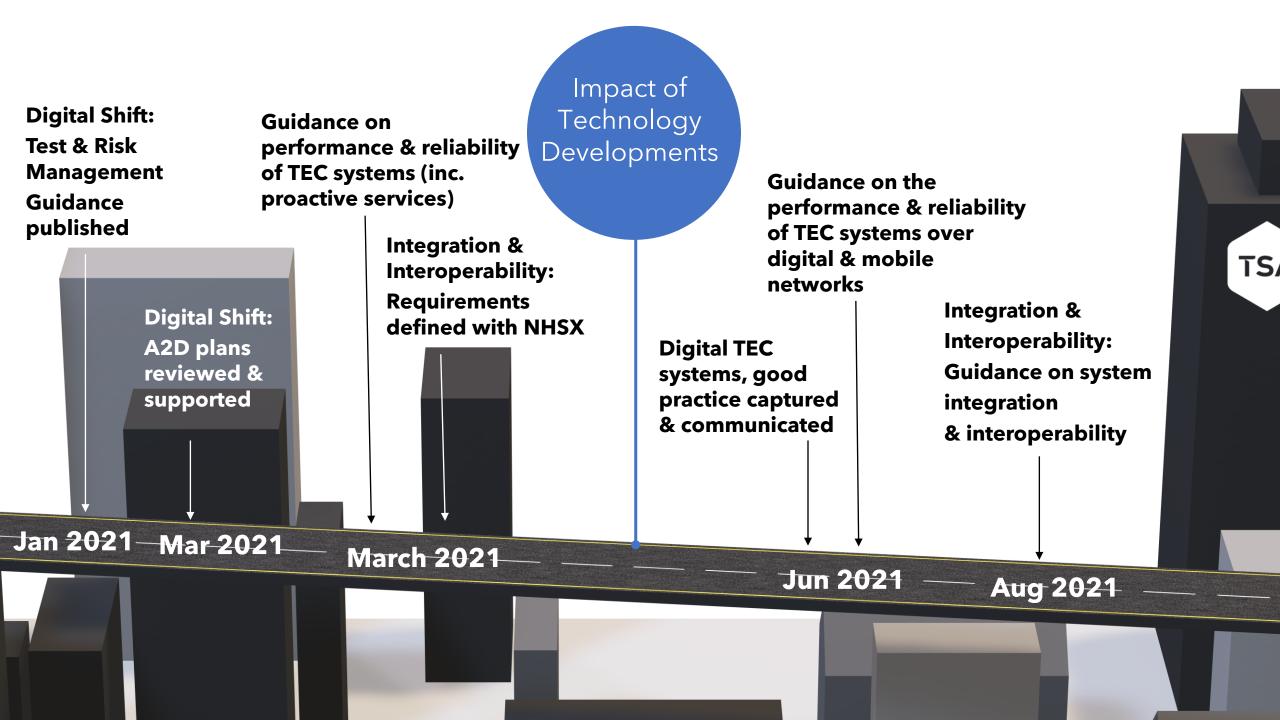
Code	Device Location	
0	Reserved for future use	
1	Reserved for future use	
2	Home	
3	Away	
4	Reserved for future use	
5	Reserved for future use	
6	Inside	
7	Outside	
8	Area	
9	Zone	
10	Basement	
11	Bath room / WC	
12	Bed room	
13	Dining room	
14	Floor	
15	Garage	
16	Garden	
17	Garden, back	
18	Garden, front	
19	Geo fence	
20	Gym	
21	Kitchen	
22	Laundry	
23	Relax	
24	Sauna	
25	Stairs	
26	Study room	
27	Work shop	
28	Loft	
29	Shed	
30	Temporary address	
31	Summer house	
32	Winter cottage	
33	Mobile w/o fixed location	
34	Reserved for future use	



SIG06 – Guidance: Digital Comparison Chart



TSA



Q&A











ITEC VIRTUAL CONFERENCE

22-25 March 2021

www.iTECconf.org.uk





VIRTUAL CONFERENCE 22 – 25 March 2021

Conference Theme: Citizen Powered Futures



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