

ITSF 2010 – Closing Thoughts

What have we learnt?

- *“The third hand is the second hand”*
 - *Dave Allen YouTube video*
- TIE = **Time** Interval Error = Relative **Phase**
 - Which is how we measure traffic timing: **“Synchronisation”**
- **Synchronisation** = Syntonisation
- **Synchronization** = Syntonization
- **Phase** = Epoch alignment = **Time Synchronisation**
 - Which is the relative **Time** error between two locations
- Could be relative to UTC – Coordinated Universal **Time**
- ..and then there’s **Time** of Day
 - Which is 24 seconds different to GPS **Time**

So All Clear Now!!

- NGN = Next Generation Networks
- NGN = Now Generation Networks
- PDV = Packet Delay Variation
- PDV = Pretty Damn Violent
- GMT = Greenwich Mean Time
- GMT = Guinness Makes Thought

Metrics

- Mirror Mirror on the Wall – Who is the fairest of them all?
- TDM Timing
 - TIE, MTIE, TDEV
- NGN – Now Generation Networks
 - PDV, minTDEV, MATIE, MAFE,
 - FWPR, minFWPR
 - parMTIE

The Microsecond Challenge

- What can we do with the PDV ugly duckling?
- Can we turn it into the microsecond swan?
- Examine Use Cases – Who are the Users?
 - Fixed Telecom Carriers
 - Mobile Telecom Operators
 - Cable Operators
 - Digital Broadcasters
 - Power Generation & Distribution
 - Financial Services

Between the Papers

- Networking Opportunities
- Coffee Breaks
- Lunch Breaks
- Ice Breaker
- Time Lord Dinner



Thankyou

- Speakers
- Sponsors
- Avren Events
- Shelbourne Hotel
- ITU – Greg Jones
- IEEE – Alpesh Shah, Peter Lefkin
- Steering Group
- Bells!

ITSF 2010 - Statistics

	No of Delegates	New Delegates	Countries represented	New for 2010	Pints of Guinness Consumed
Rome 2009	130	-	20		0
Dublin 2010	148	58	22	Slovenia Mexico	1,674

Feedback

- Bring back Tutorials
 - Basics still important for delegates new to the technology
- Clearer Slideware
 - Typeface, colour contrast
- Contributions sooner
 - Enables moderation by Session Teams
- Latest Presentations Available “on-line”
- More??

Next Year – ITSF 2011

<http://www.avrenevents.com/home.asp?Event=ITSF2011>



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EDINBURGH, UK
1ST - 3RD NOV 2011

ITSF

TIME &
SYNCHRONISATION
IN TELECOMS

ITSF 2012 – Nice France

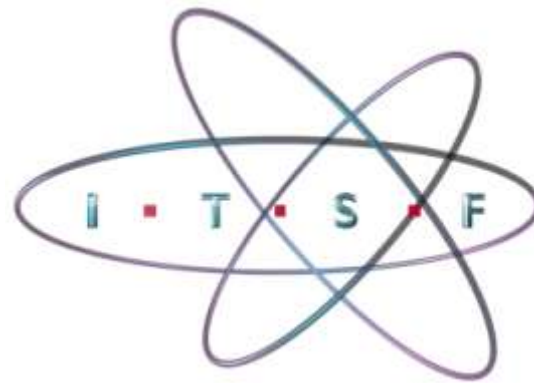


ITSF 2011 - Ideas

- Keynotes
- Testing, Metrics, Measurement Ports
- Primary (Time & Timing) Technologies
- Complementary Technologies
- Threats & Mitigation
- Other Users
- Standards

...and finally....

- <http://www.youtube.com/watch?v=VSSGiA4f5cs>



Thank You Everybody

See You in Edinburgh!