



2020
Annual **INCOSE**
international workshop
Torrance, CA, USA
January 25 - 28, 2020

Telecommunications

www.incose.org/IW2020

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CHAIR

John Risson (johnrisson@anacom.com.au)

MEMBERS

9 active, 22 in WG community

CO-CHAIRS

Susan Ronning (s.ronning@adcomm911.com)

Dan Spencer (dan@spencertech.com.au)

INCOSE CONNECT ADDRESS



<https://connect.incose.org/WorkingGroups/Telecommunications/SitePages/Home.aspx>

INCOSE WEB PAGE



<https://www.incose.org/incose-member-resources/working-groups/Application/telecommunication>

Charter Summary



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WG PURPOSE/MISSION

To improve delivery of telecommunications solutions by enhancing the systems engineering body of knowledge for telecommunications applications.

To enable telecommunications systems stakeholders and providers to better support their users:

- Critical and emergency services personnel;
- Federal and municipal governments, utilities and transportation agencies;
- Enterprise and consumer users of commercial telecommunications services; and
- The broader public

WG GOAL(S)

To improve delivery of telecommunications services and solutions by demonstrating practical application of systems engineering best practices.

To enhance the systems engineering body of knowledge for telecommunications applications.

To develop a community of telecommunications specialists within INCOSE.

To promote, encourage, supervise and perform research where it improves practice of systems engineering for telecommunications.

WG SCOPE

The working group will address telecommunications systems engineering across the whole life cycle: needs gathering; requirements, architecture and modelling; verification and validation; operation and maintenance; growth and evolution.

IW Outcomes



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IW Outcomes

Reviewed 2 draft technical publications for communication service providers and critical infrastructure stakeholders:

- Model-Based Systems Engineering for Communication Network Upgrades;
- A Systems Model for Critical Communications Networks.

Identified collaboration opportunities with other INCOSE working groups e.g., Critical Infrastructure Protection and Recovery.



Planned Work past IW



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PLANNED ACTIVITIES

Collaborate with the Critical Infrastructure Protection and Recovery working group.

Run a panel session and INCOSE booth at International Wireless Communications Expo 2020, 30 Mar to 3 Apr.

Engage with at least 2 technical working groups of the European Telecommunications Standards Institute.

Present at Systems Engineering Test and Evaluation (SETE2020) conference in Brisbane, 11 to 13 May.

PLANNED WORK PRODUCTS

Paper, "A Systems Model for Complex Communications Networks" by Thomas Manley, Susan Ronning, Bill Scheible.

Paper, "Model-Based Systems Engineering for Communication Network Upgrades" by Fabrice Lestideau, John Risson, Dan Spencer.

Guide for the Application of Systems Engineering to Large Communication Network Systems

Insight article, "Designing Critical Communications Networks to Withstand Daily Events and Failure Incidents"

2 primers for (critical) communications stakeholders.