

TCCA CCBG Management Group

LIAISON STATEMENT

Title: **Standardisation of Critical Communications over Broadband (v1.2)**

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From (source): TCCA CCBG Management Group

Contact(s): tony.gray@tandcca.com

To: ETSI TC TCCE

Copy to: Chair, 3GPP SA
Chair, 3GPP SA1
Chair, ETSI TC-RT

Response to: Tony Gray, Chairman TCCA CCBG
(if applicable)

Attachments:
(if applicable)

Introduction

TCCA CCBG is working on the future of Critical Communications over Broadband through its UR (Users Requirements) and SA (System Architecture) working groups, in a joint effort by representatives from the Users community and from the industry. TCCA CCBG has become a recognized forum, including toward 3GPP for which TCCA is now a MRP (Market Representative Partner).

The Critical Communication Community has been successful to trigger standard evolution in 3GPP for key enablers (Group Communications Systems Enablers for LTE (GCSE_LTE), Proximity Services (ProSe)) that should be made available starting in 3GPP Release 12, planned for publication by end of 2014. TCCA CCBG has been a key contributor to 3GPP working groups.

It became apparent in the Critical Communication Community that 3GPP enablers alone would not deliver a complete solution and the 3GPP systems shall be complemented by a Critical Communication application layer. No current global standards for Critical Communication application layer exist that operate across multiple access technologies (3G, 3.5G, 4G, WiFi, Satellite, etc) and that address evolution of and co-existence with current narrow band systems (TETRA, Tetrapol, GSM-R, P25..).

TCCA CCBG SA has produced a reference model for Critical Communication Systems, based on inputs from Users translated into use cases and into high level system requirements, and taking into account the latest outcomes from 3GPP Public Safety work items (GCSE-LTE and ProSe). This reference model introduces a Critical Communications Application, which is the core engine of critical communication over broadband systems.

Critical Communication Application Standard

TCCA CCBG is aware that ETSI TC TCCE is already working on an application level standard for Critical Communications features over an IP bearer, including 3GPP LTE network. On the other way round, TCCA CCBG knows that ETSI TC TCCE is aware of the work of TCCA CCBG SA group to produce an over-reaching architecture and a set of requirements.

TCCA CCBG wants to emphasize the importance of this work, in particular the Infrastructure to Mobile interface that it considers as the first priority for standardization. The other interfaces will be expected over

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time, notably the interworking interface between Critical Communications systems (CCA to CCA interface), e.g. for cross border operations.

TCCA CCBG wants to emphasize the importance of timely completion of the standard for Critical Communications over Broadband. A first set of enablers will be made available by 3GPP standards with Release 12, planned for publication by end of 2014. It is very likely that 3GPP enablers will be further incorporated in subsequent 3GPP releases.

TCCA CCBG believes that a standard will be needed as soon as possible after the relevant functionalities are stable in the underlying 3GPP network. Especially, an early version of the standard, which is able to work on what is completed in 3GPP release 12 and upgradable to release 13 evolutions, should be highly desired, in order to allow first deployments from 2016, e.g. UK Public Safety, and to support spectrum allocation requests from the Critical Communication Community in Europe.

TCCA CCBG and other user communities around the world expect that the new standard for Critical Communications over Broadband will be a common global standard. TCCA CCBG expects that the different SDO will liaise and collaborate to meet this globalisation's objective and to rationalize the standardization efforts.

ETSI TC TCCE is the natural SDO in Europe to undertake such standardization efforts.

ETSI has proved in the past its capability to develop globally adopted standards for this industry.

Conclusion

TCCA CCBG asks ETSI TC TCCE to continue standardization activities on Critical Communication Broadband systems, taking into account the reference model produced by the CCBG SA group, in a timely manner so that a first set of specification for the "Infra CCA to Mobile CCA" interface will be made available soon after the first 3GPP evolutions for Public Safety by end of 2014.

TCCA CCBG also asks ETSI TC TCCE to organise cooperation and coordination with other SDOs, as relevant, to reach a globalisation for the produced standard for CCB systems.

Supporting Members and Organizations are listed below:

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Supporting Organisation	Category	ETSI Membership
P3 communications GmbH	Consultant	Yes
Dutch Public Safety 'Shared Services Centre Control Rooms and Communication'	Government operator which operates the Public Safety C2000 network	Yes
French Ministry of the Interior	Government operator which operates the French public Safety networks and its end users	Yes
German Ministry of the Interior BDBOS	Government operator which operates the German Public Safety network and its end users	No
European Utility Telecom Council	Utility representative body	Yes
ASTRID Belgium	Public Safety operator	Yes
Motorola Solutions	Manufacturer	Yes
Sapura plc	Manufacturer	Yes
Airwave	Public Safety Operator	Yes
Selex ES	Manufacturer	Yes
Cassidian	Manufacturer	Yes
Teltronic	Manufacturer	Yes
Thales	Manufacturer	Yes
Analysys Mason	Consultant	Yes
Rohill	Manufacturer	Yes
Hytera	Manufacturer	Yes
Frequentis	Manufacturer	No
AGURRE – Users association representing: <ul style="list-style-type: none"> • RATP • SNCF • RFF • SANEF • EDF • SYTRAL • ADP • Air-France 	Users	No
Alcatel-Lucent	Manufacturer	Yes
International Union of Railways (UIC)	The worldwide international organisation of the railway sector including 197 members across all 5 continents	Yes