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Interim Text to 9-1-1  
Working Group Update  
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Co-Chairs:

Brian Daly, AT&T

Gregg Vanderheiden, TRACE



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## Interim Text to 9-1-1 Subcommittee

- This group is charged with developing a recommendation and draft language for the full committee with regard to Pre-NG9-1-1 Mobile Text to 9-1-1 Solution(s).
- March 2012 EAAC recommendation:
  - EAAC Supports as an interim solution for text to 9-1-1, at a minimum, SMS, and other technologies as appropriate, with a three digit short code 9-1-1
- Additional provisions from the EAAC recommendations that relate to the subcommittee work:
  - Text to 911 before NG911 enabled
  - Recommendation T1.2: Interim Mobile Text Solution:

The EAAC recommends that the FCC work with Department of Justice, industry, academia, consumer groups and public safety entities to develop an interim solution that can be rapidly deployed to provide nationwide access to 9-1-1 services through industry standards-based mobile text communications solution(s) to provide critical coverage for this important constituency during the transition to NG9-1-1.

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## Subcommittee Assumptions

- Using any number besides 9-1-1 creates the problem that the user will probably never remember it when they have an emergency, if they ever knew that there was a number besides 9-1-1.
- This short-term solution should not necessarily be subject to all of the requirements of either voice 9-1-1 calls or long-term solutions so that it can be implemented in the near term and without extensively reworking the carrier, handset, or PSAPs systems.
- The FCC should work with consumers and industry to secure any needed additional liability protection for all entities that are implementing these new text to 9-1-1 calls.

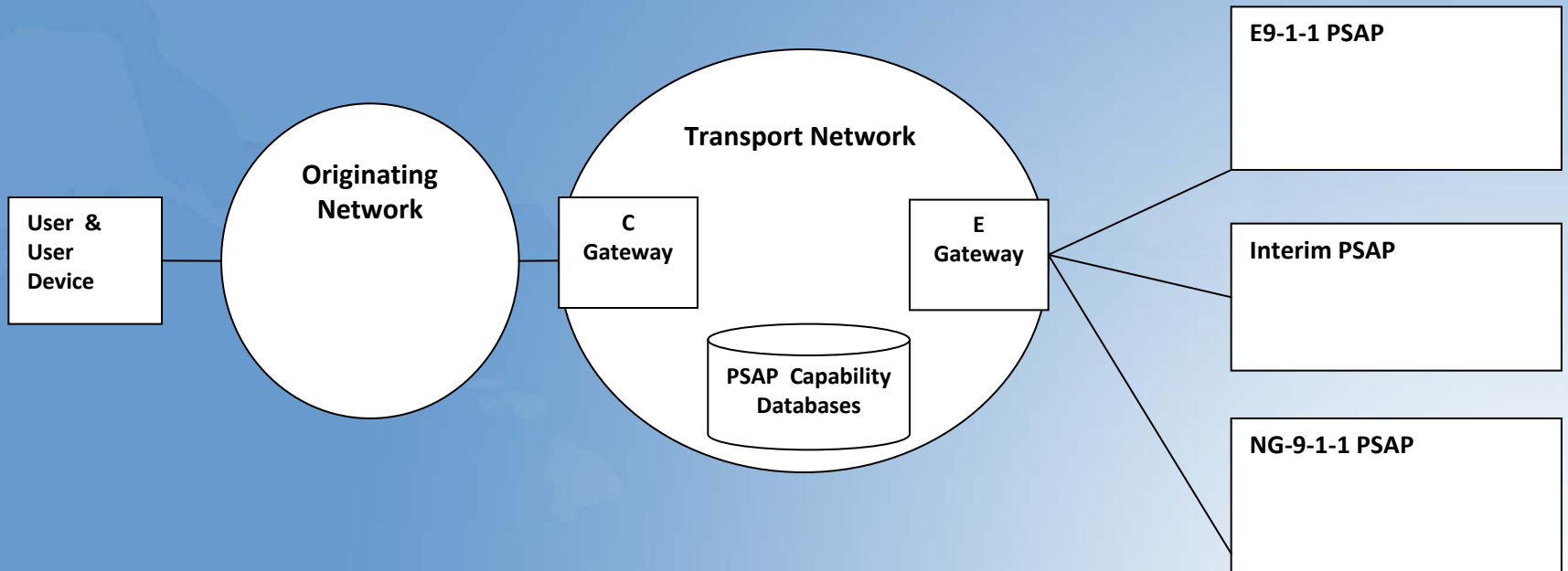
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## Subcommittee Assumptions

- The EAAC believes that if the text message to 9-1-1 solution is not available to all people, with and without disabilities, that it would be too complicated for carriers and others to qualify some people as eligible and others as ineligible to make an SMS/text message call to 9-1-1 during emergency situations. The liability issues from denying access to unregistered callers would complicate it further.
- The EAAC directed for this subcommittee to take this topic up in 2012 and submit a separate report on this important topic.
- From a consumer standpoint, direct access via mobile text to 9-1-1 is a critical goal.

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## High Level Architecture



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## Interim Text to 9-1-1 Subgroups

- Subcommittee created 4 subgroups
  - Each to focus on one section of the problem
- Subgroups were defined as follows:
  - User View – Originating Devices
  - Originating Devices & Networks
  - Transport Networks
  - PSAP end

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## Subcommittee Progress

- Presented draft set of findings at the September EAAC meeting
- Several conference calls held since last meeting
- Developed outline for the report from the subcommittee
- First pass at identifying common ground across the four subteam's findings
- Developed timeline to complete report

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## DRAFT REPORT OUTLINE



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## Draft Report Outline

1. EXEC SUMMARY
2. Overview
  1. How it relates to long term
  2. What the charge was
  3. What it became and why
  4. USE CASES - summary and pointer to appendix
3. User Needs and Constraints
  1. Text communication Method
  2. Devices
  3. User experience or the user's call flow

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## Draft Report Outline

4. Originating Devices and Networks
  1. Though the 9-1-1 call may originate with the user in the "originating Network" - users will both originate calls, and receive callbacks from the PSAP. So users must be able to receive emergency calls as well as make them.
  2. Includes any conversions needed at border of originating networks where they meet transport network(s)
5. Transport Networks, including TCC
  1. Includes any conversions needed at border of Transport networks where they interface with PSAPs or PSAP networks.
6. PSAP end
  1. Legacy PSAPS
  2. NG 9-1-1 PSAPS
  3. PSAP networks

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## Draft Report Outline

7. Issues
  1. Proprietary interim solutions – Proprietary
    1. Opportunities, issues
  2. Responsibilities and policy
    1. Decision on who is responsible for what
      1. to get this built
      2. to maintain
      3. to pay for
8. Actions needed to build this (what is not already in place)
  1. Education and Outreach
  2. Ensure that a 3 digit 911 SMS can be sent
  3. Need some standards in place to make it work - interoperate
  4. PSAP request to receive services from participating entities

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## Draft Report Outline

9. Conclusion

10. Recommendations

11. APPENDICES

1. USE CASES

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## FIRST PASS AT IDENTIFYING COMMON GROUND



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## Common Ground Process

- Based on the sub-team findings presented at the September EAAC meeting, develop a spreadsheet showing the areas identified in the draft findings to identify common
  - As well as areas of difference

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Area	Subteam 1	Subteam 2	Subteam 3	Subteam 4
Direct Access	Users have DIRECT access to 9-1-1 services. There are no third parties sitting in the path between callers and telecommunicators			
Order of short-term interim solutions	Implement native SMS first, followed by over-the-top SMS, then native messenger applications, and real-time text	Interim Text-to-911 must use the Existing Standards-based Network Architectures and Capabilities	SHALL initially handle only SMS text originations but be standards-based and extendable to handle other text protocols	The FCC should require Short Message Service (SMS) as the initial deployment priority for text to 9-1-1. Other forms of interim media and text for 9-1-1 services already in-place should be considered for national level support/delivery and worked in parallel to SMS
Method of Contact	Sending a text message using the three-digit code 9-1-1		network SHALL convey text messages directed to the short code "9-1-1" from a user's terminals to the routing service which will select the geographically appropriate PSAP	Should use digits 9-1-1 and not require a 9-1-1 voice call to be placed first

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## TIMELINE & NEXT STEPS FOR SUBCOMMITTEE





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Subcommittee 1 Activity	Start	Complete	Responsible	Notes
1. Complete the list of issues to be addressed				
1. Brian completes list of issues		10/5	Brian D	
2. subleaders review and add issues and post to list		10/8	BD & Subleader group	
3. Full sub-committee reviews and finalizes as first draft of list of issues		10/9	EAAC1	
2. Review annotated report outline with full EAAC1 subcommittee		10/9	EAAC1	
1. Review draft slides for EAAC1 subcommittee presentation to full EAAC		10/9	GV&BD slides; EAAC1 review	Include schedule in presentation
3. Present any results to date at the EAAC full committee		10/12	GV&BD	
4. Drafting team start on a draft	10/10		GV, BD, RH, CV, KM, others?	
5. Full sub-committee debates the issues and comes to consensus (in parallel with Drafting)	10/10	10/17	EAAC1	
Includes evaluation of options for proprietary solutions in place or near future	10/10	10/17	EAAC1	
6. Drafting committee brings draft to full subcommittee for discussion		10/17	EAAC1	Include any rationale for SC1 extension to plan managed deployment

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7. Iteration of steps five and six	10/17	10/31		
Report draft finalized		11/5		
8. Sub-committee submits report to the EAAC for review and comment		11/9	EAAC1	
1. Comments due back to subcommittee for discussion		11/26	EAAC	
9. Sub-committee resolves any comments		12/7	EAAC1	
1. EAAC1 prepares and approves final report		12/12	EAAC1	12/13 Face to face prior to EAAC?
10. Sub-committee submits report to full EAAC		12/12	GV&BD	
1. Address any comments from EAAC to the final report		1/9	EAAC1	Prior to 1/11/2013 EAAC meeting
11. Final report discussion at EAAC		1/11	GV&BD	

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## A Way Ahead

- Interim Text to 9-1-1 Subcommittee will work to gain consensus on each of the subgroup recommendations as it prepares its final report and recommendations
  - Each subgroup will finalize draft conclusions and recommendations
  - Similar recommendations across subgroups will be consolidated into a single overall recommendation
- Final Interim Text to 9-1-1 Subcommittee Report & Recommendations document to be presented in the December EAAC meeting