



# AGENDA

## LOS ANGELES REGIONAL INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY

### JOINT OPERATIONS & TECHNICAL COMMITTEE MEETING

Tuesday, September 29, 2015 • 1:00 p.m.

LA-RICS Headquarters – Large Conference Room  
2525 Corporate Place, Suite 200, Monterey Park, CA 91754

Los Angeles Regional Interoperable Communications System Authority (the “Authority”)

#### **AGENDA POSTED: September 25, 2015**

Complete agendas are made available for review at the designated meeting location. Supporting documentation is available at the LA-RICS Office located at 2525 Corporate Place, Suite 200, Monterey Park, CA 91754 during normal business hours and may also be accessible on the Authority’s website at <http://www.la-rics.org>.

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#### **OPERATIONS COMMITTEE**

##### **Members:**

1. **Mehrdad Larijaniha**, City of Los Angeles, CAO
2. **Kevin Nida**, City of Los Angeles, Fire Dept.
3. **Sean Fox**, City of Los Angeles, Police Dept.
4. **Matias Farfan**, City of LA, Office of Chief Legislative Analyst
5. **Ted Pao**, County of Los Angeles, CEO
6. **Chris Bundesen**, County of Los Angeles, Fire Dept.
7. **Scott Edson - Chair**, County of Los Angeles, Sheriff’s Dept.
8. **Cathy Chidester**, County of Los Angeles, DHS
9. **Jose Santome**, Los Angeles School Police Dept.
10. **Chris Donovan**, Los Angeles Area Fire Chiefs Assoc.
11. **Paul Cooper – Vice Chair**, LA County Police Chiefs Assoc.
12. **Darrell George**, California Contract Cities Association
13. **VACANT** – At Large #3
14. **Paul Villalobos**, At Large #4 – Monterey Park PD

##### **Alternates:**

**Martin Enriquez**, City of Los Angeles Fire Dept.  
**Martin Enriquez**, City of Los Angeles Fire Dept.  
**Vacant**  
**Cheryl Banares**, City of Los Angeles CAO  
**Sherry Collister**, County of Los Angeles CEO  
**Kirby Neese**, Los Angeles County Fire Dept.  
**Alex Radovic**, Los Angeles County Sheriff’s Dept.  
**Vacant**  
**George Sandoval**, Los Angeles School Police Dept.  
**Vacant**  
**Shelly Vander Veen**, LA County Police Chiefs Association  
**Vacant**  
**Vacant**  
**Vacant**

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#### **TECHNICAL COMMITTEE**

##### **Members:**

1. **Mehrdad Larijaniha**, City of Los Angeles, CAO
2. **Kevin Nida - Chair**, City of Los Angeles, Fire Dept.
3. **Tri Nguyen**, City of Los Angeles, Police Dept.
4. **Matias Farfan**, City of LA, Office of Chief Legislative Analyst
5. **Ted Pao**, County of Los Angeles, CEO
6. **Scott England**, County of Los Angeles, Fire Dept.
7. **Alex Radovic -Secretary**, County of Los Angeles, Sheriff’s Dept.
8. **Jose Betance**, County of Los Angeles, DHS
9. **Jose Santome**, Los Angeles School Police Dept.
10. **Steven Page**, Los Angeles Area Fire Chiefs Assoc.
11. **Steve Hronek**, Los Angeles County Police Chiefs Assoc.
12. **Phil Wagner**, California Contract Cities Association.
13. **VACANT** – At Large #3
14. **Elliot Kase**, At Large #4 – Alhambra Police Department

##### **Alternates:**

**Martin Enriquez**, City of Los Angeles Fire Dept.  
**Martin Enriquez**, City of Los Angeles Fire Dept.  
**Sean Fox**, City of Los Angeles Police Dept.  
**Cheryl Banares**, City of Los Angeles CAO  
**Sherry Collister**, County of Los Angeles CEO  
**Vacant**  
**Al Ortega**, Los Angeles County Sheriff’s Dept.  
**Vacant**  
**George Sandoval**, Los Angeles School Police Dept.  
**Eric Zanteson**, Los Angeles Area Fire Chiefs Association  
**Vacant**  
**Vacant**  
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**Vacant**

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##### **Officers:**

**Patrick Mallon**, Executive Director  
**Susy Orellana-Curtiss**, LA-RICS Project Team



**NOTE: ACTION MAY BE TAKEN ON ANY ITEM IDENTIFIED ON THE AGENDA**

**I. CALL TO ORDER**

**II. ANNOUNCE QUORUM – Roll Call**

**III. APPROVAL OF MINUTES**

A. August 25, 2015 – Regular Meeting Minutes

Agenda Item A

**IV. REPORTS**

B. LA-RICS/ICIS MOU

Agenda Item B

**V. NEW BUSINESS – (None)**

**VI. ACTION ITEM**

C. Security Plan

Agenda Item C

D. Training Plan Resolution

Agenda Item D1 – D2

E. Operations Plan Resolution

Agenda Item E

F. Ad Hoc Committee Draft Resolution

Agenda Item F



**VII. ADMINISTRATIVE MATTERS – (None)**

**VIII. MISCELLANEOUS – (None)**

**IX. PUBLIC COMMENTS**

**X. ITEMS FOR FUTURE DISCUSSION AND/OR ACTION BY THE BOARD**

**XI. ADJOURNMENT AND NEXT MEETING:**

Tentatively scheduled for Tuesday, October 27, 2015, at 10:00 a.m., at the LA-RICS Headquarters, 2525 Corporate Pl., Large Conference Room, Monterey Park, CA 91754.



## COMMITTEE MEETING INFORMATION

Members of the public are invited to address the LA-RICS Committee on any item on the agenda prior to action by the Committee on that specific item. Members of the public may also address the Committee on any matter within the subject matter jurisdiction of the Committee. The Committee will entertain such comments during the Public Comment period. Public Comment will be limited to three (3) minutes per individual for each item addressed, unless there are more than ten (10) comment cards for each item, in which case the Public Comment will be limited to one (1) minute per individual. The aforementioned limitation may be waived by the Committee's Chair.

*(NOTE: Pursuant to Government Code Section 54954.3(b) the legislative body of a local agency may adopt reasonable regulations, including, but not limited to, regulations limiting the total amount of time allocated for public testimony on particular issues and for each individual speaker.)*

Members of the public who wish to address the Committee are urged to complete a Speaker Card and submit it to the Committee Secretary prior to commencement of the public meeting. The cards are available in the meeting room. However, should a member of the public feel the need to address a matter while the meeting is in progress, a card may be submitted to the Committee Secretary prior to final consideration of the matter.

It is requested that individuals who require the services of a translator contact the Committee Secretary no later than the day preceding the meeting. Whenever possible, a translator will be provided. Sign language interpreters, assistive listening devices, or other auxiliary aids and/or services may be provided upon request. To ensure availability, you are advised to make your request at least 72 hours prior to the meeting you wish to attend. (323) 881-8291 or (323) 881-8295

SI REQUIERE SERVICIOS DE TRADUCCION, FAVOR DE NOTIFICAR LA OFICINA CON 72 HORAS POR ANTICIPADO.

The meeting is recorded, and the recording is kept for 30 days.



# **REGULAR JOINT COMMITTEE MEETING OPERATIONS & TECHNICAL MINUTES**

**LOS ANGELES REGIONAL  
INTEROPERABLE COMMUNICATIONS SYSTEM AUTHORITY**

August 25, 2015  
LA-RICS – Large Conference Room  
2525 Corporate Place, Suite 200, Monterey Park, CA 91754

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**Operations Committee Members Present:**

**Mehrdad Larijaniha**, City of Los Angeles, CAO  
**Kevin Nida**, City of Los Angeles, Fire Department  
**Sean Fox**, City of Los Angeles, Police Department  
**Ted Pao**, County of Los Angeles, CEO  
**Chris Bundesen**, County of Los Angeles, Fire Department  
**Scott Edson**, County of Los Angeles, Sheriff's Department  
**Cathy Chidester**, County of Los Angeles DHS/EMS  
**Chris Donovan**, Los Angeles Area Fire Chiefs Association  
**Paul Cooper**, Los Angeles County Police Chiefs Association  
**Darrell George**, California Contract Cities Association  
**Paul Villalobos**, At Large #4/City of Monterey Park, Police Department

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**Operations Committee Alternate Members Present:**

**Martin Enriquez**, City of Los Angeles, Fire Department  
**Cheryl Banares**, City of Los Angeles, Chief Legislative Analyst Office  
**George Sandoval**, Los Angeles School Police Department

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**Technical Committee Members Present:**

**Mehrdad Larijaniha**, City of Los Angeles, CAO  
**Kevin Nida**, City of Los Angeles, Fire Department  
**Tri Nguyen**, City of Los Angeles, Police Department  
**Ted Pao**, County of Los Angeles, CEO  
**Scott England**, County of Los Angeles, Fire Department  
**Alex Radovic**, County of Los Angeles, Sheriff's Department  
**Jose Betance**, County of Los Angeles DHS/EMS  
**Steven Page**, Los Angeles Area Fire Chiefs Association  
**Steve Hronek**, Los Angeles County Police Chiefs Association  
**Elliot Kase**, At Large #4/City of Alhambra, Police Department

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**Technical Committee Alternate Members Present:**

**Martin Enriquez**, City of Los Angeles, Fire Department  
**Cheryl Banares**, City of Los Angeles, Chief Legislative Analyst Office  
**George Sandoval**, Los Angeles School Police Department

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**Absent:**

**Matias Farfan**, City of Los Angeles, Chief Legislative Analyst Office  
**Jose Santome**, Los Angeles School Police Department  
**Phil Wagner**, California Contract Cities Association

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**Officers Present:**

**Patrick Mallon**, LA-RICS Executive Director  
**Susy Orellana-Curtiss**, LA-RICS Project Team

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**I. CALL TO ORDER**

Operations Committee Chairman Scott Edson called the meeting to order.

**II. ANNOUNCE QUORUM – Roll Call**

Commander Scott Edson and Technical Committee Chairman Kevin Nida took roll call for each Committee with both having reached quorum.

**III. APPROVAL OF MINUTES (A)**

**A. January 13, 2015 – Special Meeting Minutes**

Committee Member Mehrdad Larijaniha called the first, Committee Member Steve Hronek called the 2nd.

**MOTION APPROVED.**

**IV. REPORTS (B)**

**B. Director's Report – Pat Mallon**

Director Mallon reported that a few more member cities opted-out since the last committee meeting. The Board of Directors has requested a review of the funding plan options and asked to have a recommended alternative funding plan. There is an Ad Hoc Finance Committee which is comprised of representatives from the city, county and independent cities. The hope is to be able to provide the Board with a draft document for review at the September meeting, with final approval in October. This will then give member cities at least 45 days to review.



In regards to the LTE Project, Executive Director Mallon stated that the deadline for the BTOP grant of September 30, 2015, is fast approaching. As of this date, there are 41 sites completed; 21 under construction and 2 more sites to start construction. LAPD Pacific Station is back into the mix as it had been previously removed. Approval was needed from NTIA and a letter was sent to NTIA providing them with a status report of the site. This site is 40 percent complete right now, that will give us a total of 79 sites; 78 of which are LTE sites, including 15 Cell on Wheels (COW). With the Corrective Action Plan that was submitted and approved around May 1<sup>st</sup>, the deployment includes 15 COWs. Deployment of those 15 COW sites includes 3 at County sites: one at Sheriff's STARS Center in Whittier and the other two are located in Antelope Valley. There are 2 CHP sites and 10 Southern California Edison sites located throughout the region. The aforementioned sites should be completed by the end of September.

In regards to the LMR Project Director Mallon reported that the final designs are on hold. The City of LA requested to review the coverage with some alternatives to be proposed by Motorola. The City received the recommendation a couple of weeks ago and we hope to have an answer back from them within the next week.

The Environmental Impact Report (EIR) is pending completion and will be ready to release for comments as well as some documentations that need to be submitted to FEMA in compliance with the National Environmental Policy Act (NEPA). We are hopeful that FEMA will issue a Problematic Environmental Assessment Report which allows construction on those sites. There has been an exchange of information with some consultants on this issue and will be submitting it to FEMA.

In regards to the Grant Status, the BTOP grant expires on September 30, 2015. Due to the reduction in the number of sites, NTIA reduced the grant funds from \$154.6M to \$117M, which is creating a challenge in getting the project closed-out within the adjusted grant amount.

In-kind and cash matches are reduced from almost 29 percent to 15.05 percent.

For the LMR grants, there are still funds remaining under UASI 2011, 2012 and 2013. UASI 2014 and 2015 funds are pending action by the UASI Authority.

V. **NEW BUSINESS (C-F)** – Rick Burke, Televate

For details of his presentation, please refer to the attached document. (Attachment 1)

C. PSBN Status

Please refer to attached document presented by Rick Burke.



D. Security Planning

Mr. Burke stated that a security policy is necessary to ensure secured flow of information between all member-users of the PSBN and to establish a governance structure.

Mr. Burke stated that LA-RICS and the PSBN have to comply with NPSTC defined security requirements. A comprehensive statement of requirements was developed over the years regarding security of the network and LA-RICS has to comply with it.

He recommended that the Operations & Technical Committees consider nominating an Acting Security Officer to lead a one month effort to propose a governance structure and draft security policies for committee consideration. The goal is to complete the proposed security program plan and policies by September 30, 2015 and present it to the committees at their next meeting.

He also recommended the development of a Public Key Infrastructure (PKI) approach and vendor relationship. Mr. Burke stated that PKI is the common practice within the information technology environment to protect the security of the data. This certificate is assigned to various applications and communications and authenticated through a Certificate Administrator. There are three options they were proposed;

- Deploy a PKI and have LA-RICS become its own certification of authorization. This option is expensive and takes a great deal of time.
- Contract with a certified Certificate Administrator for hosted PKI services, which is also costly to maintain.
- Partner with the LA County Sheriff's Department and leverage their vendor contract. The complexity of procurement is low and the price is more economical than the other two options.

E. Another particular component of the PKI required from Motorola is an OMA-DM certificate due to the pending provisioning of devices needed now. Operational / Training Planning

Mr. Burke stated that a comprehensive training program was established through the contract with Motorola. It will give users, executives and potential users within the organizations the ability to operate the network. There is a one year warranty/maintenance period with Motorola that can be extended annually





beyond that for the next 5 years. LA-RICS does have the option to take over operations of the network.

F. Agency Onboarding Planning

Onboarding and device management approach is a shared responsibility between LA-RICS and its member agencies regarding how devices will be activated and maintained locally and supported by LA-RICS and through the Motorola contract.

Procurement of devices through the RFSQ process will provide us the ability to purchase devices.

Communication with member agencies regarding the type of devices they need is necessary. LA-RICS will provide assistance via a 24/7/365 service desk support. In order to establish a line of communication, we should identify IT contact of all member agencies to get them onboard to the network.

A question was raised by Committee Member (CM) Larijaniha regarding who would be considered for the Network Security Officer and Rick Burke responded by stating that a Network Security Officer or a CIO who would lead the committee in developing the governance program, should be chosen, preferably from within the member organization.

Rick Burke recommended to have a member of the committee work side by side with them and come back to the Operations and Technical Committees with plans for each item; training, PKI and security.

Chair Edson asked Rick Burke on the PKI options for LA-RICS, what is the substantial lift between Option 2 and 3 as it relates to LASD resources.

Rick Burke responded it does not use much of the County resources. The County vendor allows LA-RICS to "piggy back" on the County's existing contract and will reduce the costs to LA-RICS and its members. He added that it is a viable approach.

Chair Edson commented that nominating LASD Data Security in conjunction with working with County CIO Data Security to resolve Item C & D and move forward with exploring Option 3 for the PKI's would also cover C & D. In reference to item F, LASD CJIS/CLETS teams can work with this committee and identify IT contacts, so that it would solve C, D & E but of course contingent upon talking to data security staff and making sure that it is not a larger overhead than we all think it is. That would be my motion to go ahead and move forward with that.



CM Mehrdad Larijaniha added that it is a good idea to have a work group with key members of County and LA City CIO to make sure that there are no discrepancies between the policies and procedures as we go forward.

Chair Edson agreed with CM Mehrdad Larijaniha's suggestion and asked him to provide contacts.

CM Mehrdad Larijaniha asked Jim Hardimon if there would be proprietary functionality, he responded no.

Chair Edson said he is concerned about provisioning. He said he wants to make sure that all devices in the network belong to public safety users only and their profile would not be given out to any third party users. Rick Burke agreed.

Chair Nida stated it would be a good idea to go with the working group. It would also be a good idea to go on consensus or we can make a motion. We will then push out a document to staff members, specifically on what we need for Items C,D & F and then solicit volunteers for the deadline and that way we will get the opportunity to take the information back to our respective agencies to see what kind of participation is available and report back to the members. That way, it's transparent and we will have as many people as needed to bring the information back to each member agency.

Rick Burke responded to Chair Edson's question on the timeline of completion, and stated two weeks will be good in order to meet the grants requirement.

## VI. ACTION ITEM (G)

### G. REVIEW THE DRAFT MEMORANDUM OF UNDERSTANDING (MOU) BETWEEN ICIS AND LA-RICS AND MAKE RECOMMENDATIONS TO THE BOARD.

Discussion of Agenda Item G - Enclosure 2 – Draft MOU between LA-RICS and ICIS

**Paragraph #1** - Chair Edson moved the option to accept as edited and Committee Member Larijaniha as seconded.

**Paragraph #2** - The Committees agreed to table this section for now. Chris Odenthal commented that they had a meeting with Jim Hardimon and his team, who is the contractor for both LA-RICS and ICIS. They discussed what would be the appropriate manner to interconnect both systems. He said that there are a variety of different options, but the Inter-Subsystem Interface (ISSI) was the



appropriate path to interconnect the two systems together. It also meets the requirements and goals of LA-RICS. (See Attachment 2)

CM Chris Donovan commented that the MOU provides the framework for a working relationship between LA-RICS and ICIS. He added it provides both organizations the opportunity to develop a system of systems.

CM Alex Radovic asked Chris Donovan if an MOU is necessary or just a document which outlines an integration plan. He responded that based on the feedback he gathered an MOU would be the best.

Ray Edey commented that the sole purpose of this MOU is to establish the working group for the Technical Committee. He added that the MOU has something to do with the freezing of UASI 2014 and 2015 funds for interoperable communications. He said Judge Bonner recommended that we proceed with the MOU.

CM Steve Hronek said that the MOU is the policy piece between the two organizations to iron out all the technical and voting issues.

Vice Chair Paul Cooper said that this is the framework for both entities to play in the same sandbox together. We should not be bogged down with all the technicalities of what the two organizations can do. He said the working group would just extend out that amount of time and would hold the funding which would support LA-RICS and ICIS.

Chair Nida reiterated that a Technical Working Group would be established to work out all these issues. He said the Operations and Technical Committees are advisory and if we don't come to a consensus today this document will still go to the Board and they will make a decision on it.

**Paragraph #3** was accepted by the Committee. No comments were made.

**Paragraph #4** was accepted by the Committee. No comments were made.

**Paragraph #5** - Chair Edson said this section will be tabled at this time.

**Paragraph #6** was accepted by the Committees. No comments were made.

**Paragraph #7** – Chair Edson said that this section will be tabled at this time.



In regards to Paragraph 7, Ted Pao said that this is purely an MOU to interconnect the two systems. He did not see any value having the statement included in the MOU.

Chair Edson asked what the “system of like systems.” CM Steve Hronek responded that it’s a bunch of cities having individual systems and linking them together to the master system that are of like technology.

**Paragraph #8** The Committee has deferred this section to the Legal Team for their review. Susy Orellana-Curtiss stated that some comments arose when this item was presented to the Legislative Committee. It was stated that any correlation between this MOU dictating or guiding how funding would occur was not really the purpose of the MOU. This should not a vehicle to dictate how funding will be distributed.

**Paragraph #9** – The Committee has agreed that this section will be tabled at this time.

Sgt. Al Ortega said that it is the same as Paragraph #2. The Committees agreed.

Ted Pao said we have already procured the ISSI connection. We have already committed to connecting to ICIS, and it is already in the contract.

Chair Nida said if we look at paragraph 8. Is this the key to the whole thing? How the funding will be decided by the UASI Board. They want us to develop the MOU so we can work together and have something on paper moving forward.

**Paragraph #10** The Committee has agreed that this section be tabled at this time.

Chair Edson asked who added Paragraph 10 to the MOU? Ray Edey responded they did. He stated the feedback inserted here from ICIS came out as the product after it had gone to the lawyers and Board Members. There was a concern expressed about the difference in loading capacity between LA-RICS and ICIS and the desire that it can actually come after the fact as the product of the joint task force. It was a concern of operating on each other’s systems and a matter of routine.



Chair Edson asked if that statement will help or hurt other items that were tabled regarding loading, like sections 2 and 9.

**Paragraph #11a.** The Committee has agreed that this section will be tabled at this time. Steve Hronek said this section possibly conflicts with other paragraphs in the MOU.

**Paragraph #11b.** The Committee has agreed that this section will be tabled at this time. Ted Pao preferred the staff review and do minor edits.

**Paragraph #11c.** The Committee has agreed to defer this section to the Legal Team for their review.

**Paragraph #11d.** The Committee has agreed to put this section to the table at this time. John Lenihan stated that this paragraph needs operational input.

Chair Edson stated based on John Lenihan's comment, maybe we double the number of representatives, so we can have 50/50 Technical and Operational, and we refer to Legal on the last point about the committee being advisory to UASI.

Ray Edey asked if it is necessary to double the number of representatives.

Chair Edson changed the number of representatives to 2 for Technical and 2 for Operational.

**Paragraph #11e.** The Committee has agreed to defer this section to the Legal Team for their review.

**Paragraph #11f.** The Committee has agreed to defer this section to the Legal Team for their review.

**Paragraph #11g.** The Committee has agreed to defer this section to the Legal Team for their review. Chair Edson said that sections 11e to 11g are contingent upon each other. We can't really call out Judge Bonner or make those approvals without legal discussions. He suggested the Legal Team figure out who approves what and the aspect that it is.

CM George Sandoval made a point that the last sentence of section 11b should be deferred for legal review. Chair Edson agreed.



Chair Edson asked for a motion to accept that all items that were discussed. Mehrdad Larijaniha called the first motion and Sean Fox made the second.

**VII. ADMINISTRATIVE MATTERS – (None)**

**VIII. MISCELLANEOUS – (None)**

**IX. PUBLIC COMMENTS – (None)**

**X. ITEMS FOR FUTURE DISCUSSION AND/OR ACTION BY THE BOARD – (None)**

**XI. ADJOURNMENT AND NEXT MEETING.**

Motion to adjourn was called by Chair Edson. MOTION WAS APPROVED.



**MEMORANDUM OF UNDERSTANDING BETWEEN LA-RICS AND ICIS**

1. This Memorandum of Understanding (MOU) is entered into by the Joint Powers Authority (JPA) for the Los Angeles Regional Interoperable Communications System (LA-RICS) and the JPA for the Interagency Communications Interoperability System (ICIS) in order to interconnect for the purposes of emergencies and pre-planned events, further the goal of achieving Land-Mobile-Radio (LMR) interoperability for all public safety first responder agencies operating in the County of Los Angeles.

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2. The overall LMR goal for both LA-RICS and ICIS is that radios used by first and second responders in Los Angeles County (the County) should work and be able to communicate, as needed, on a channel or frequency or talk groups, with any and all other first and second responders operating in the County, without patches or other cumbersome workarounds.

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3. The consequences of not achieving LMR interoperability will be profound, especially during and following a large-scale disaster or terrorist attack within the County. Interoperability will likely save lives. It will also facilitate mutual aid requests and response to law enforcement and fire emergencies that cannot be handled by and/or go beyond the capacity of one jurisdiction or which implicate multiple jurisdictions within the County.

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4. LA-RICS has contracted for and is in the process of building a county-wide LMR interoperable system.

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5. ICIS was formed in 2003 and is an existing County-wide operating system to govern the development of an LMR interoperable system within Los Angeles County for member and subscribing agencies. ICIS has been fully operational since 2004 and is an existing single-platform Project 25 digital trunked LMR system operating throughout the county in support of thirty-seven public safety agencies and twenty-three 9-1-1/Dispatch Centers. ICIS members and cities actively migrating to ICIS membership are optimizing existing interoperable system cells, and replacing non-interoperable system sites, through the installation of upgraded communications equipment at existing towers and rooftop locations.

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~~6. The LA-RICS LMR system will be based on the installation of communication facilities at new and existing monopole and lattice tower and roof top sites throughout the County.~~

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~~7. The ICIS LMR system is a system of like systems. It links existing LMR systems in the member cities of ICIS by trunking repeater towers owned and maintained by member cities and linking them to a Central Switch or Master Site located in Glendale. Each member maintains its own system cell on a platform that is standardized to the ICIS system and employs the same technologies.~~

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~~8. Limited funding is available to achieve the region's goal of interoperability. To be effective, efficient, and responsible with the funding available, it is necessary to maximize uses of existing infrastructure and the uses of the infrastructure that is planned to be built.~~

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Comment [GP1]: To Legal for review

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~~9. It is in the best interests of both LA-RICS and ICIS to achieve an overarching LMR system that enables first responders in the County immediately to communicate via radio, as and when needed and pursuant to appropriate protocols, on a dedicated channel or frequency or talk group, with radios being used by any and all other first responders in the County, without patches or workarounds/work-arounds.~~

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~~The purpose of this joint system access agreement is to establish interoperability for purposes of essential communications during the course of official public safety operations and field emergencies. Resources of either system shall not routinely roam into nor operate upon the others network in a manner that unnecessarily adversely affects a cells loading capacity. Systems may restrict the access to and loading of their network on a cell by cell basis at the discretion of the system cell owner in order to preserve essential capacity and capability.~~

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~~10. Therefore, both LA-RICS and ICIS, through their respective governing boards, mutually agree to the following:~~

~~a. The goal of achieving an overarching LMR system will be achieved by adopting a "system of system" (SoS) approach. A SoS will build on existing P-25 compliant systems and avoids unnecessary duplication of repeater towers and central switches. Under a SoS, cities and entities with existing systems will continue to own, control and maintain them and will make them available to all other members and public safety agency participants as part of the larger County-wide interoperable system by means of interfacing and integration technologies. System owners may employ reasonable and appropriate system loading limitations necessary to ensure~~

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~~said access does not interfere with that system's vital operations. Access to and sharing of existing systems will be via interfaces and integration agreed to by both the LA-RICS and ICIS governance bodies.~~

b. ~~As part of the SoS approach, ICIS and LA-RICS, as soon as the latter becomes operational, will be integrated, interfaced, or linked to create interoperability. For purposes of this agreement, integrated, interfaced, or linked means the technological joining of both the LA-RICS and ICIS LMR systems to effectively enable the systems to operate as a single platform for purposes of interoperability, as well as the policy level approval of cross-platform radio programming, talk group access, and encryption sharing, or linked to create interoperability.~~

c. ~~This MoU may be amended as needed to include any cities and entities desiring to integrate or link their systems as part of the SoS approach to either the LA-RICS or ICIS platform.~~

Comment [GP2]: To Legal for review

d. ~~A joint technical committee of LA-RICS and ICIS will be formed immediately no later than thirty (30) days following conclusion of the LA-RICS Opt-Out Period, but no later than thirty (30) days hereof, and tasked to study and determine the best technical and operational design to accomplish an integration or linking of the two systems to create interoperability across the County. The joint technical committee will be selected by the JPA Chairs of LA-RICS and ICIS. Each will select up to three two (23) technical representatives and two (2) operations representatives. The joint technical committee shall function as an advisory body to the Urban Area Security Initiative (UASI) Approval Authority.~~

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Comment [GP3]: Last sentence- to Legal for review.

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e. ~~Because a significant portion of the region's interoperability effort is being funded through the UASI Urban Area Security Initiative (UASI) grants, the technical committee will be chaired by a designee of the UASI Approval Authority. At this time, the Approval Authority's designee is the Honorable Robert C. Bonner. Should for any reason Judge Bonner not be able to fulfill these responsibilities, the Approval Authority shall designate an alternate.~~

Comment [GP4]: To Legal for review

f. ~~The joint technical committee shall involve representatives of the LA-RICS and ICIS contractor, Motorola Solutions, in their discussions, as needed to define the process and timeline for integration. Judge Bonner (or the~~

~~Approval Authority's designee) shall provide written updates regarding the progress of the joint technical committee to the Approval Authority.~~

Comment [GP5]: To Legal for review

~~g. The joint technical committee will develop a report containing its recommended integration, interface, or linking plan. The plan shall include a timeline that jointly identifies and prioritizes recommended design, equipment, and installation needs. The joint technical committee shall provide their report and recommendation to the JPA boards of LA-RICS and ICIS for their approval within 90 days of the effective date of this MoU. Judge Bonner shall approve the recommended integration plan and present it to the Approval Authority.~~

Comment [GP6]: To Legal for review

This memorandum of understanding is effective on \_\_\_\_\_, 2015.

THE LOS ANGELES REGIONAL  
INTEROPERABLE COMMUNICATIONS  
SYSTEM AUTHORITY

THE INTERAGENCY  
COMMUNICATIONS  
INTEROPERABILITY SYSTEM

A California Joint Powers Authority

A California Joint Powers Authority

By: \_\_\_\_\_  
Print Name:  
Its:

By: \_\_\_\_\_  
Print Name:  
Title:

## LARICS Security Subcommittee (LSS) Charter

The LA-RICS Information, Communications and Technology (ICT) Security Subcommittee reports to the LA-RICS Technical and Operations Committees and is responsible for assisting the Committee in planning and establishing Security governance, policies, procedures and best practices to minimize risk for the LA-RICS Public Safety Broadband Network (PSBN).

The Subcommittee is responsible for overseeing the following functional areas to assist LARICS in completing its PSBN deployment and recommending a plan for the long term Security needs of LA-RICS. The focus will be on the PSBN core and access networks not devices owned and/or operated by the Member Agencies.

1. Developing and recommending the implementation of security policies, standards, and procedures.
2. Recommending the assignment of responsibilities for Network Security Monitoring to an entity or to an individual.
3. As directed by the Board of Directors, perform audits, risk assessments, and compliance checks.
4. Recommending suitable policies and procedures for the Network Security Operation Center.
5. Reviewing and recommending the security aspects of computing and network components for deployment on the network with the emphasis on prevention of security breaches.
6. Recommending minimum required security controls to be in place for Member Agencies to participate in and utilize the LARICS network.
7. Leveraging work of others to the greatest extent possible such as FirstNet and other network operators.
8. Defining and recommending procedures for handling e-discovery requests.
9. Defining and recommending logging and data retention best practices for the network.
10. Working with LA-RICS engineers, employees, consultants to encourage appropriate security controls are in place.
11. Defining and recommending a Plan for a Computer Emergency Response Team (CERT) to be in place to handle ICT security incidents.
12. Defining and recommending business continuity and disaster recovery plans.
13. Develop and recommending job description for selection of employees or contractors responsible for PSBN ICT Security functions.
14. Regularly reporting back to the Tech/Ops Committee and bringing recommendations forward for approval.



Los Angeles Regional Interoperable  
Communications System (LA-RICS) Project

# Ad-hoc Committee LTE Presentation

September 21, 2015

**AGENDA ITEM D1**

# Presentation Agenda

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- Call to Order
- PSBN Status
- Training Plan Overview
- Deployment Class Information
- Training Schedule Overview
- Adjournment and Next Meeting

# PSBN STATUS

# PSBN Construction Status

- ❑ Total Site Count: 77
  - PSBN Sites: 63
    - LTE Sites - 62
    - MW only - 1
  - COW Sites:
    - 14
  
- ❑ Status as of Monday 9/21/15
  - Construction complete
    - Construction Substantially Complete – 51
    - On-going construction - 13

# OPERATIONS PLAN



# PSBN Operations Plan

- ❑ Motorola to provide one year of operations and maintenance (O&M) services that begin after system acceptance
  - LA-RICS option to extend the service agreement on a year by year basis for up to 15 years
    - Within the second year LA-RICS can notify MSI on a month by month basis
  
- ❑ LA-RICS needs to develop a long-term PSBN O&M service plan
  - Contract includes training that covers all expected operations services
  - Motorola notified a year before LA-RICS takes over operations services
  - Discussions with potential city and county service providers should begin well in advance of transition
  - Limited help desk, trouble reporting and triage during normal business hours would be undertaken by LA-RICS

# LA-RICS Operations Services

- ❑ LA-RICS will provide a local service desk
  - Service desk will be located at a NOC work station with the ability to view PSBN alarms and statuses
  - Stakeholders will provide in-house contacts for PSBN related issues
    - The stakeholder in-house troubleshooting may escalate PSBN issues to the local service desk
    - The local service desk will escalate issues to MSI as needed
  - The local service desk will provide the following services:
    - Support for connectivity troubleshooting
      - BTOP purchased devices
        - » LA- RICS will hold the warranty for the devices, but the stakeholders will be responsible for the device management
      - 3<sup>rd</sup> party purchased devices
        - » Stakeholders may contact the service desk to troubleshoot connectivity issues
        - » Device related issues are the responsibility of the stakeholder
    - Support for User Profile provisioning
      - LA-RICS will provision user profiles for all devices
    - Stakeholder PSBN Issues
      - The service desk will function as the LA-RICS POC for stakeholder PSBN issues
    - PSBN issues
      - Any MSI initiated issues will contact the local service desk as the POC for LA-RICS

# Motorola Proposal Training Overview

- ❑ Training will be delivered using a combination of online training and field based instructor-led training sessions
- ❑ Training facilities to be provided by LA-RICS
  - Minimum of 8-students and 1-trainer (up to 12 acceptable to LA-RICS)
  - A few training modules directed to 24-students and 1-trainer
- ❑ Training facility to provide broadband connectivity to access the LA-RICS **Operations Support Platform** (OSP) terminal
- ❑ Video Taping
  - Not allowable for Ericsson training module
  - Allowable for MSI classes
- ❑ Recommendation to identify a basic Training Plan Schedule based upon the services provided in each phase
  - Deployment, Warranty and Transition

# MSI Proposed Training Schedule

- ❑ MSI has currently incorporated the schedule shown below into their project schedule:

Training		126.0d	12-Jun-15 A	25-Feb-16
LTE_SI_1325	Training Plan Submitted and Approved	16.0d	12-Jun-15 A	15-Sep-15
LTE_SI_1190	Operator Training	40.0d	30-Sep-15	24-Nov-15
LTE_SI_1200	Technician Training	40.0d	25-Nov-15	27-Jan-16
LTE_SI_1210	System Manager/Admin Training	20.0d	28-Jan-16	24-Feb-16
LTE_SI_1180	6.4 - Training Complete	0.0d	25-Feb-16	25-Feb-16

- ❑ LA-RICS does not agree with the proposed schedule and the current strategy to approving the MSI Training plan is as follows:
  - Prepare and deliver 9 training modules now (Deployment phase)
  - Delay decision on the remaining modules until LA-RICS has had an opportunity to work through the details with the Tech Ops committee, expected resolution sometime before the end of the year
    - The remaining classes and scheduling (Maintenance and Transition phases) require more review before approval
    - Televate has been in communication with MSI regarding clarifications and modifications to the Training Plan
- ❑ Mike DiPiero, Susy and the Tech and Ops committee have been notified of our plan to address the Training. The approach has been approved and identified to be acceptable within our contract with MSI and the NTIA grant requirements.
  - The Training Plan approach will be reviewed with the LA-RICS lawyer Mike Simon

# Training Schedule Suggestions

- ❑ Recommend dividing the training plan into multiple approvals
  - The contract allocates:
    - A.6.4 - \$ 733,339 allocated to the training
    - A.2.12 - \$11,048 allocated to the approval of the Training Plan
  - Training Phase 1: **Deployment (Initial Training)**
    - Recommendation that LA-RICS approve and schedule nine (9) training modules by the end of this year
      - Online Introductory Classes
        - » Online - AAE1603: Public Safety LTE System Overview
        - » Online - RDS0003: Basic Networking
      - Advanced LTE Networking for LMR Professionals
        - » NST762: Networking Essentials
        - » LTE2005: Public Safety LTE Architecture and Signaling
      - Motorola Device Management
        - » Online - AAE1407: Public Safety LTE Vehicular Subscriber Modem (Technical)
        - » Online - AUE1400: Public Safety LTE Vehicular Subscriber Modem (User)
        - » LTE2006-P: Public Safety LTE System Provisioning
      - Agency Device Admin/Local NOC/Help Desk Technical course
        - » LTE2006-A: Public Safety LTE System Administration
        - » LTE2007: Public Safety LTE Applied Networking
    - Services to be provided by **April 1, 2016 (including finished training)**
      - Device management, installation and provisioning
      - Device connectivity troubleshooting
      - LA-RICS help desk
      - PSBN status & alarms surveillance

# Training Schedule Suggestions cont...

- Training Phase 2: **Warranty** (Engineer/Technician Training)
  - Job Roles included
    - Routing Technician
    - RAN Technician
    - Core Technician
  - Services to be provided by **TBD (including finished training.)**
    - Core, RAN and Network
      - » Operations
      - » PSEN Connectivity Support
      - » Troubleshooting
      - » Basic LET Modifications
        - » Addition of MW path, network connections, agencies, and applications
      - » Bandwidth allocations, analyzation and restriction
- Training Phase 3: **Transition**
  - Job Roles included
    - Routing Technician
    - RAN Technician
    - Core Technician
  - Complete LA-RICS PSBN Network management, troubleshooting, maintenance and operations (**Transition date TBD by AD-HOC Committee**)
    - Include ongoing contract with 3<sup>rd</sup> party specialized services as needed
      - » Tier 3 NOC support
      - » Network Optimization

# Motorola Proposal Training Overview (cont.)



- ❑ Training plan addresses the following Job Roles as identified in the LA-RICS proposal:
  - Core Technician (MME, EPG, HSS/PCRF, OSS-rc, SAPC, DSC)
  - Core Routing Technician (Core Transport – Routers, Firewalls, Switches)
  - Ran Technician (eNodeB)
  - Applications Management (Network Management Applications e.g. DM, OSP)
  - Backhaul Technician (Microwave, SOME, Ericsson mini-link)
- ❑ LA-RICS needs to identify a training coordinator
  - Al Ortega has been previously suggested
- ❑ Prospect for LA County, LA City and other member agencies to provide personnel for training
  - Provisioning
  - Device Management
  - On-going Operations and Maintenance (O & M)
- ❑ Recommendation for the stakeholders to identify end users to receive instruction as train-the-trainers

# Staffing Schedule

- ❑ LA-RICS will need to fulfill two positions to support Operations
  - Network Operations Center (NOC) Technician
    - Troubleshoot, upgrade, and administer the LA-RICS LTE multiple vendor systems
    - Operate, administer, and perform advanced maintenance of the LA-RICS LTE network elements, systems and platform applications
    - Perform equipment diagnostics & -troubleshooting procedures
    - Take corrective actions to ensure uninterrupted network service utilizing NOC support subsystems
    - Produce accurate trouble tickets and activity reports.
    - Serve as the technical lead during troubleshooting events
  - Help Desk Technician
    - Duties include but not limited to:
      - Field incoming end user requests and device related requests and issues
      - Document all pertinent customer information and troubleshooting steps
      - Triage services requests and forward to the appropriate Tier II and Tier III issue resolution providers
      - Effectively communicate with customers
      - Provision LTE devices and assume responsibility for device inventory management
- ❑ **Availability of NOC Technician and Help Desk Technician drives the Training Plan schedule**



# Initial Phase of Classes: Deployment

- ❑ AAE1603: Public Safety LTE System Overview – 2 hours
  - Class Prerequisites: None
  - Attendees: Suggest class be made available to anybody interested in understanding LTE
  
- ❑ RDS0003: Basic IP Networking - 2.5 hours
  - Class Prerequisites: None
  - Attendees: Suggest class be made available to anybody that would like a better understanding of basic networking
  
- ❑ NST762: Networking Essentials – 5 days
  - Class Prerequisites: Basic understanding of computer operating systems. Understanding of basic Motorola communications systems is highly recommended
  - Attendees: Suggest class be made available to any party unfamiliar with IP networking that will be involved with the PSBN networking
  
- ❑ LTE2005: Public Safety LTE Architecture and Signaling – 5 days
  - Class Prerequisites: Basic understanding of computer operating systems. Understanding of basic Motorola communications systems is highly recommended
  - Attendees: Technicians involved in troubleshooting LTE communications, Agency Tier 1 support & **LA-RICS Help Desk**



# Initial Phase of Classes: Deployment cont... LA-RICS

- ❑ LTE2006-P: Public Safety LTE System Provisioning – 2 days
  - Class Prerequisites: RDS003 Basic IP Networking & AAE1603: Public Safety LTE System Overview
  - Attendees: Agency trainers responsible for Motorola device management & provisioning on behalf of their respective agency
- ❑ LTE2006-A: Public Safety LTE System Administration – 3 days RB10
  - Class Prerequisites: RDS003 Basic IP Networking & AAE1603: Public Safety LTE System Overview. (suggest LTE 2006-P)
  - Attendees: Agency administrators are responsible for managing Motorola devices and users on behalf of their agency
- ❑ LTE2007: Public Safety LTE Applied Networking – 5 days RB11
  - Class Prerequisites: LTE 2005
  - Attendees: Network Operations Center personnel. **Suggest LA-RICS Help Desk**
- ❑ AAE1407: Public Safety LTE Vehicular Subscriber Modem (Technical) – 1 hour
  - Class Prerequisites: • Public Safety LTE System Overview (AAE1603)
  - Attendees: Agency identified Motorola VML750 device installation lead
- ❑ AUE1400: Public Safety LTE Vehicular Subscriber Modem (User) – 1 hour
  - Class Prerequisites: None
  - Attendees: Suggest class be made available to an agency identified trainer to provide basic information regarding Motorola VML 750

## Slide 15

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**RB10**

Is this class focused on the Moto router? Does the future NOC Tech also need to attend this class?

Rick Burke, 9/21/2015

**RB11**

Cannot offer this class before we have identified the NOC and HD Techs and not sure they will be on board by then? Made need to identify risks?

Rick Burke, 9/21/2015

# Televate Training Plan Comments

- ❑ Request a more detailed Course Syllabus of:
  - NST762: Networking Essentials
  - LTE2005: Public Safety LTE Architecture and Signaling
  - LTE Applied Networking (LTE 2007)
- ❑ Request a list of class requirements for each class
  - Format similar to the 'LTE2006-P\_Training Requirements-comments' document
  - Require list of class requirements for every class right now
  - Identify how far in advance each class needs to be scheduled
    - Suggestion that each class be scheduled 60 days ahead of schedule
- ❑ Negotiate the number of students for online classes
  - Initial 9 classes include material that are relevant to general audience. All material is not technical in nature
    - Request that each class be available to at least 12 attendees RB13
- ❑ Awaiting clarification from MSI regarding what core networking training should be included for core the equipment
  - Question posed to MSI via e-mail 9/17/15
  - Some of the equipment that has been referenced:
    - Fortigate 1000C Firewall
    - Fortigate 800c Firewall
    - IBM GX7800 IDS
    - Brocade IDX-7750
    - Brocade ICX-6610
    - Brocade 6910
    - BlueCat DNS server

## Slide 16

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### **RB13**

Should we mention that the number of online classes is a maximum of 25 and need to own these classes. What about the ability to copy training materials? What about course swapping and the need to determine which modules we maintain and swap for others, like more RAN?

Rick Burke, 9/21/2015

# ADJOURNMENT AND NEXT MEETING

# Adjournment and next meeting

## ❑ Initial Class Offering

- Approve/Modify initial 9 classes
- Identify schedule for initial classes
- Identify LA-RICS Training Coordinator
  - Contact Stakeholders for inclusion in training classes

## ❑ Training Plan Schedule

- Identify schedule for reviewing additional training plan information
- Identify schedule for reviewing and finalizing the training plan schedule

# BACKUP MATERIALS



# Training Course Overview

Key	Current Plan		Recommendations
<b>Number of Classes</b>	<ul style="list-style-type: none"> <li>40 Training Modules</li> </ul>		<ul style="list-style-type: none"> <li>One class offered three times</li> </ul>
<b>Class Format</b>	<ul style="list-style-type: none"> <li>27 Class / 11 Online / 2 Virtual</li> </ul>		<ul style="list-style-type: none"> <li>On online classes offered three times</li> </ul>
<b>Vendor Offering</b>	<ul style="list-style-type: none"> <li>30 Ericsson / 10 Motorola</li> </ul>		
<b>Class Student Focus</b>	All	2	
	Users	2	
	Technicians	2	
	Core, Routing, RAN, and Backhaul Technicians	3	
	Core Technicians	11	
	Core and Routing Technicians	8	<ul style="list-style-type: none"> <li>Noted missing Core network training</li> </ul>
	RAN Technicians	1	<ul style="list-style-type: none"> <li>Increase in RAN classes?</li> </ul>
	Backhaul Technicians	8	<ul style="list-style-type: none"> <li>Reduction of backhaul classes?</li> </ul>
	EPC Technicians and Engineers	1	
	Applications Management	1	
	Applications	1	

# PSBN Operational Rolls and Responsibility Matrix



Task	MSI	LA-RICS	Members
Network Operations – Year One	X		
Network Operations - Future	?	?	?
Customer Care		X	X
Device Provisioning		X	
Device Management			X
Device Warranty Management - BTOP		X	
Device Warranty Management - Members			X
Application Services (IT/Firewall)			X
On-Boarding New Agencies		X	X
Billing and Collections		X	
Roaming (inter-carrier roaming)		X	X

## LA-RICS Training Plan Status

The Ad-hoc Operations Committee recommends that LA-RICS divides the Motorola Training Plan into three different phases: Deployment, Warranty and Transition. The Deployment Phase will consist of classes identified by the end of September that will be offered and completed no later than the end of the approved PSBN testing period. (Tentatively identified as April 1, 2016)

Due to the current construction schedule and the availability of the network, the classes and schedule for the Warranty and Transition phases will be approved by LA-RICS no later than December 31, 2016

Motorola will be paid per the completion of the training in incremental amounts. The training plan will not be considered fully approved until the approval of the Warranty and Transition Phases. Motorola will not be paid for the Training Plan until the full approval of the Training Plan.

The classes identified during the Deployment phase are listed below. Any party that has comments, suggestions or objections to the list of classes to be included within the Deployment phase must provide their comments no later than the September 29, 2015 Tech and Ops Meeting.

- The Ad-hoc Committee recommends that LA-RICS approve and schedule nine (9) training classes for the Deployment phase:
  - Online Introductory Classes
    - Online - AAE1603: Public Safety LTE System Overview
    - Online - RDS0003: Basic Networking
  - Advanced LTE Networking for LMR Professionals
    - NST762: Networking Essentials
    - LTE2005: Public Safety LTE Architecture and Signaling
  - Motorola Device Management
    - Online - AAE1407: Public Safety LTE Vehicular Subscriber Modem (Technical)
    - Online - AUE1400: Public Safety LTE Vehicular Subscriber Modem (User)
    - LTE2006-P: Public Safety LTE System Provisioning
  - Agency Device Admin/Local NOC/Help Desk Technical course
    - LTE2006-A: Public Safety LTE System Administration
    - LTE2007: Public Safety LTE Applied Networking

## **LA-RICS Operations Subcommittee Charter**

### **Description**

The LA-RICS Operations Sub-Committee reports to the LA-RICS Technical and Operations Committees and is responsible for assisting the Committee in planning and establishing Operation governance, policies, procedures and best practices for the LA-RICS Public Safety Broadband Network (PSBN).

### **Purpose**

The subcommittee is responsible for overseeing the following functional areas to assist LA-RICS in completing its PSBN deployment and recommending a plan for the long term Operational needs of LA-RICS. The focus of the Subcommittee will be on the PSBN not including devices owned and/or operated by the Member Agencies. This focus will include recommending and planning tasks associated with the following categories:

1. Developing and implementing operation policies, standards, and procedures.
2. Recommending the assignment of responsibility for Network Operation Monitoring and Subscriber Support to an entity or to an individual.
3. Identify the plan, policies and responsibilities for implementing devices and subscription on the PSBN
4. As directed by the Board of Directors, perform audits, risk assessments, and compliance checks.
5. Recommend suitable policies, procedures, and proper implementation for the Network Operations Center (NOC) and Help Desk including:
  - a. Services
  - b. Staffing
  - c. Policies
  - d. Procedures
  - e. Finances
  - f. Implementation Timeline
6. Reviewing and recommending proper interoperability aspects for computing and network components for deployment on the network.
7. Provide training plan guidelines and prerequisite requirements for operation personnel.
8. Provide Standardized Operations Procedures for PSBN functions.
  - a. Network Operations Center (NOC)
  - b. Help Desk
9. Provide Operations practices to ensure they meet the operational needs of first responders.
10. Implement security measures as directed by the LA-RICS ICT Security Subcommittee.
11. Defining and recommending operational responsibility areas between LA-RICS and the Member Agencies.

12. Working with LA-RICS engineers, employees, consultants, and agency operations staff to encourage appropriate operations procedures are in place.
13. Identify a Working Group to provide a Disaster Recovery Plan for PSBN to ensure rapid restoration of PSBN services.
14. Develop and recommend plans for new business (agency on-boarding), business continuity, and disaster recovery planning.
15. Regularly reporting back to the Technology and Operations Committees and generate recommendations for approval.

### **Resolution to Approve the Security Subcommittee Charter**

Whereas the Technology and Operations Committees has a need to make timely decisions about technical matters related to Information, Communications and Technology Security matters and whereas specialized expertise that does not exist within the Committee,

Be it is Resolved that a Security Subcommittee be formed with the Charter as presented and modified.

### **Resolution to Approve the Operations Subcommittee Charter**

Whereas the Technology and Operations Committees has a need to make timely decisions about technical matters related to Network Operations of the PSBN and whereas this work requires in-depth study,

Be it is resolved that an Operations Subcommittee be formed with the Charter as presented and modified.

### **Resolution to Approve Aspects of the PSBN Training Plan**

Whereas the Technology and Operations Committees assigned the study of the PSBN Training Plan to an AdHoc Subcommittee and that subcommittee recommends that the Deployment Phase of the Training Plan from MSI be adopted,

Be it is resolved that the Deployment Phase Training Plan is approved as presented and modified.