**TC Recertification Questionnaire – 2013**

DATE : 1/21/2013

*DEMOGRAPHICS*

1. TECHNICAL COMMITTEE (TC) NAME: Data Storage Technical Committee (DSTC)
2. TC CHAIR AND OTHER OFFICERS:

Chair: Haitao (Tony) Xia

Vice Chair (Industry): Xinde Hu

Vice Chair (Academic): Sedat Olcer

Secretary: Brian Kurkoski

Treasurer: Kui Cai

1. YEARS IN POSITION: All officers were elected in December 2012
2. YEAR OF NEXT ELECTION: December 2014
3. REPORTING AUTHOR: Haitao (Tony) Xia

AFFILIATION: LSI Corporation

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FAX:

1. NUMBER OF TC MEMBERS:

* 2009: 177 persons
* 2010: 177 persons
* 2011: 177 persons
* 2012: 177 persons

1. AVERAGE NUMBER OF ATTENDEES TO TC MEETINGS: 15 persons
2. TC URL: <http://committees.comsoc.org/spfs/index.html>
3. HOW OFTEN IS WEBSITE UPDATED? The website is updated whenever there is a new event such as a call for papers or upon request. Minutes of the last TC meetings and newsletters are uploaded to the TC webserver immediately after the closure of the meetings. Information on newly joining/already existing members are added/updated upon request.
4. TC E-MAIL EXPLODER: The DSTC email list is handled by the DSTC Secretary.
5. IS THERE AN OFFICIAL MEMBERSHIP LIST? (if not, describe membership criteria): Yes, DSTC has an official membership list, it can be found at DSTC website.
6. DO YOU HAVE AN “ACTIVE” MEMBERSHIP TIER AND WHAT ARE THE ELIGIBILITY CRITERIA FOR ACTIVE MEMBERSHIP? Yes, we do have an “Active” membership tier and the eligibility criteria are described in Paragraph 1 of the P&P on the web site.
7. DO YOU HAVE A POLICY&PROCEDURES DOCUMENT? IF SO, DOES IT COVER THE FOLLOWING ITEMS? Yes, we do have a Policy&Procedures document, and it is also posted in DSTC website. All the following listed items are covered.

* Definition of elected and appointed officers, as well as nomination and election procedures;
* Membership criteria and eventual tiers;
* Planning, announcement and conduction of TC meetings;
* Budget and expenses;
* Support of COMSOC activities, such as publications, meetings and membership development;
* Support of COMSOC activities in standardization;
* Information dissemination activities, such as newsletter and web pages, and other areas as appropriate;

(If these points are not included in you P&P document, it should be reformulated appropriately and approved.)

#### DISCIPLINES

1. TC CHARTER (as it appears in your website): The Data Storage Technical Committee (DSTC) serves as COMSOC’s focal point in the area of data storage technologies such as signal processing and coding for data storage, data storage systems, cloud storage and mobile storage, and emerging technologies related to data storage. The Technical Committee plays an active role in stimulating and organizing leading-edge data storage symposia, workshops, sessions and tutorials at ICC, Globecom, ICNC and Intermag. DSTC also works with publication departments of COMSOC to organize timely journal and magazine publications.
2. OTHER TCs WITH PARTIAL OVERLAP IN AREAS OF INTEREST: Ad-Hoc TC on Cloud Communications & Networking: cloud storage is becoming an area of interests in Ad-Hoc TC pays attention to.

#### ACTIVITIES

1. CONFERENCES/WORKSHOP/SYMPOSIA/PANELS/TUTORIALS YOUR TC IS ACTIVELY INVOLVED IN (such as having members in TPC, having endorsed COMSOC co-sponsorship, etc.; please specify if the events are/are not cosponsored by COMSOC): ICC, Globecom, ICNC, Intermag, all are cosponsored by COMSOC.
2. PUBLICATIONS YOUR TC IS ACTIVELY INVOLVED IN (such as having members as Editor in Chief, associate editors, etc.; please specify the kind of involvement and whether the publications are IEEE or not): (1) IEEE Transactions on Magnetics, Prof. JR Cruz is the Editor, (2) IEEE JSAC Special Issue on “Data Communication Techniques for Storage Channels and Networks”, Prof. Olcer, etc from DSTC are editors and the journal was published in February 2010, it includes 17 papers. (3) IEEE JSAC Special Issue on “Communication Methodologies for the Next Generation Storage Systems”, Prof. Dolecek, etc from DSTC are editors, and target publication date is second quarter of 2014.
3. DOES YOUR TC USUALLY ADVANCE CANDIDACIES FOR IEEE/COMSOC AWARDS (such as best paper awards, career awards, international research awards, etc.)?

Yes, we do advance candidacies for IEEE/COMSOC Awards such as best paper/student paper award each year.

1. STANDARDIZATION COMMITTEES AND PROJECTS YOUR TC IS ACTIVELY INVOLVED IN:
2. DOES YOUR TC HAVE A LIAISON TO THE COMSOC STANDARDS BOARD? IF NO, EXPLAIN WHY NOT. IF YES, SHARE THE TC LIAISON’S EXPERIENCE, INCLUDING ISSUES, SUCCESS STORIES, AND SUGGESTIONS TO IMPROVE THE RELATIONSHIP BETWEEN TCs AND STANDARDIZATION ACTIVITIES. Yes, our past Chair, Tiffany Li, is the liaison to the COMSOC STARNDARDS BOARD.
3. IDENTIFY THE MEMBERS YOUR TC HAS ADVANCED FOR IEEE COMSOC DISTINGUISHED OR EXPERT LECTURER POSITIONS IN THE LAST 3 YEARS: Prof. J.R. Cruz, Distinguished Lecturer for IEEE COMSOC, 2009-2010.
4. IDENTIFY THE MEMBERS YOUR TC HAS SUCCESSFULLY ADVANCED FOR CONSIDERATION AS IEEE SENIOR MEMBERS OR FELLOWS IN THE LAST 3 YEARS: Senior members: George Mathew, Haitao Xia, Indukumar Kalhasthi and Fatih Erden; Fellow: Bane Vasic, Vijayakumar Bhagavatula
5. LIST THE AWARDS YOUR TC IS CURRENTLY ASSIGNING (best paper, career, etc.): Best paper award and best student paper award every year.
6. IDENTIFY THE TCs WITH WHICH YOUR TC IS (OR SHOULD BE) COLLABORATING? (please provide specific instances): Data Storage TC is collaborating with COMSOC Ad-Hoc Technical Committee on Cloud Communications & Networking. Prof. Alex Dimakis and Prof. Riccardo Raheli attended its TC meetings regularly on behalf of Data Storage TC, and work with them closely on their need of support for distributed cloud storage.
7. LIST THE MAIN ACTIVITIES OF YOUR TC IN THE LAST 3 YEARS (2009 to 2012, with specific information like titles, locations, TC involvement, etc.): (1) promote TC members to become IEEE Senior Member and Fellow, 4 persons have been promoted to Senior Members and two persons have been promoted to Fellows. (2) Nominate and award best paper and best student paper in data storage area every year. (3) Publish JSAC Special Issues on “Data Communication Techniques for Storage Channels and Networks” in February 2010, it includes 17 papers. (4) Organize Symposium on Data Storage Technologies and Applications in IEEE ICNC 2012 and ICNC 2013. There was no such symposium for pervious ICNC conference such as ICNC 2011. (5) Nominated Prof. JR Cruz as IEEE COMSOC Distinguished Lecturer for 2009-2010. (6) Organize Data Storage Tracks at ICC and Globecom every year.

*GENERALITIES*

1. HOW FREQUENTLY (AND IN WHAT OCCASIONS) DO YOUR TC MEMBERS MEET? Twice a year, we have TC meetings at ICC and Globecom to discuss Data Storage related activities.
2. MENTION WHAT YOU CONSIDER THE MAJOR ACHIEVEMENT OF YOUR TC IN THE LAST 3 YEARS: (1) Data Storage TC organizes ICC and Globecom Data Storage track every year. (2) Organizes a Journal of Selected Areas on Communications publication for data storage related papers in 2012, (3) Organizes a symposium of data storage related technology in ICNC 2012 and ICNC 2013.
3. LIST THE MAIN PROBLEMS YOUR TC HAD IN THE RECENT PAST (relationship with conferences TPC, with COMSOC officers, etc.)
4. WHAT COULD COMSOC DO TO HELP YOUR TC IN ITS OPERATIONS?

Making our website more visible through different links and relatively easy to approach for people trying to look for resources in this area.

A). We would like to have the template of the COMSOC website so that we can follow the same theme and same style

B). We would like to have a more visible address such as [www.dstc.ieee.org](http://www.dstc.ieee.org) or [www.ieee.org/datastorage](http://www.ieee.org/datastorage) or [www.ieee.org/dstc](http://www.ieee.org/dstc).

C). We would like to have visible links from COMSOC website directly to our website.

1. WHAT ARE YOUR PLANS TO INCREASE YOUR GLOBAL MEMBERSHIP (AND, IN PARTICULAR, YOUR INDUSTRY MEMBERSHIP)?

Having a more visible website will definitely help. Details can be referred to by the answers given in Q29. Also, we would like to notify the IEEE members working in Flash storage industries so that they can contribute as members.

1. HOW OFTEN DO YOU ROTATE TC CHAIRS (present Bylaws rule is every two years)?  
   Every two years, an election will be held to select new TC Chairs.

#### NEW AREAS

1. LIST ANY TECHNICAL AREAS YOU CONSIDER WORTH OF BEING INCUBATED IN THE EMERGING TECHNOLOGY COMMITTEE TO POSSIBLY BECOME A NEW TC:  
   Signal processing and Coding for Non-volatile memory-based storage systems. Storage software and systems, especially related to the system-level data/signal processing.

### ADDITIONAL COMMENTS

1. PLEASE ADD ANY ADDITIONAL INFORMATION PERTINENT TO RECERTIFICATION AND/OR COMMENT ON ANY ASPECT OF THIS SURVEY: