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ANNUAL REPORT FOR: INCITS/T3
COVERING THE PERIOD: JUNE 2006 TO MAY 2007
TITLE OF SUBGROUP: OPEN DISTRIBUTED PROCESSING (ODP)

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SUBGROUP'S WEB SITE

T3 uses only the INCITS web site: [INCITS T3 WEB SITE](#)

1. EXECUTIVE SUMMARY

1.a Informal Description of Work

Develop a Reference Model of Open Distributed Processing (RM-ODP) to coordinate the development of distributed processing standards. Also, develop specific and related standards for components of ODP, which includes ASN.1, OSI System Management and OSI Directory Services, plus occasional JTC1 SC6 special interest topics.

T3 also serves as the US TAG for ISO SC 6.

Currently, all T3 projects are international.

1.b Overview of This Period

With the continue assistance from the INCITS Secretariat, T3's Program of Work is continues to be in reasonable form and for the most part, continues to be well within the embrace of the T3 membership.

OSI Directory, ASN.1, and Open Distributed Processing (ODP) activities continue to be very strong including the approval of new work items. However, the project called "The Directory" lost all of its sponsorship by the end of calendar year 2006 in that the project work is now considered mature and no future work is of interest.

Regarding the operation of the T3-based US SC 6 TAG, most of the problems related to the large number of SC 6 activities outside of T3's Program of Work and the T3 member expertise have been addressed through T3 member involvement and declining on selected technical areas (with the support of the INCITS Secretariat). The only known US support for SC 6 projects is in areas of ASN.1, selected areas by our Sony member, plus the interests of IEEE in SC6 WG1.

Electronic mail within T3 continues to be a most effective and efficient means of operation. It is now an absolute necessity for all aspects of the T3 program of work. The use of email as a chief means of communication has resulted in the development and subsequent dependency on several operational practices that greatly ease what would otherwise be an overwhelming work load.

T3 maintains its efficiency over its broad scope of work by operating through so-called Topic Leaders. The Topic Leader's responsibility is basically a subset of the IR's (all T3 projects are international). However, the IR continues to have overall responsibility. This has proven to be very successful in handling and focusing the broad topic area of T3. We plan on continuing this practice indefinitely.

Also there were no changes for this period on the topics OSI Systems Management and OSI Routing Protocols.

As has been the course over the last decade plus, T3 commends the INCITS Secretariat for the outstanding level of support and assistance.

The T3 Chair is most indebted to the members of T3 for their efforts in compiling this report.

2. SIGNIFICANT ACCOMPLISHMENTS

Over the last 6 periods, T3 continues with the INCITS Secretariat to refine the T3 operation of the SC6 US TAG. In this last period with the help of INCITS, T3 now appears to be near to having a stable Program of Work for SC 6 projects relevant to T3 and supported by its members.

For ODP: The ODP Enterprise Language standard was published in UML 3.00 for ODP which is now in FDIS.

Note that the work of SC7 WG19 on UML resulted in the UML PAS ballots leading to the full alignment of the ISO/IEC UML text in ISO/IEC 19501-1 with OMG UML 1.4.1 which has been published as ISO/IEC 19501-1.

Note the Enterprise Language Standard Rec. X.911 | ISO/IEC 15414 was published as 2002 collaborative text. ISO/IEC 15414:2002/CD Amd 1. Amendment 1 to ODP – Enterprise Language, is now incorporated in the ITU-T Pre-published April 2005 version of ISO/IEC 15414.

T3 has been submitting contributions to the continued work on the working draft for the revised ODP Reference Model. This may entail further derivative standards on the ODP Reference Model.

For The (OSI) Directory, Over the last period, T3 has reviewed two documents: ISO/IEC 9594-All: 2005 OSI - The Directory, X.509 Enhancements to Support Recognition of Authority Between PMIs and PDAM ballot ISO/IEC 9594-All : 2005 OSI - The Directory – Working document: Communications support enhancements (X.500 Series of Recommendations (2005)). Plus, T3 has also reviewed a variety of corrigenda.

Note that as of December 2006, T3 lost its Lockheed Martin member (who was the topic leader for this project) due to the dwindling international support for the project and the maturity of these standards. In that elements of this project may have some influence on other T3 projects (such as ASN.1), T3 will continue to respond to ballots and requests as long as it has the expertise to do so, although no new interest or support is expected.

For ASN.1, the committee completed work to fully support ISO 8601 in ASN.1, which was balloted and approved as amendments to most parts of ISO/IEC 8824 and 8825. The committee also completed work on Fast Infoset Security, which was balloted and approved as ISO/IEC 24824-3. This specifies the application of encryption and integrity to fragments of an XML Infoset that is serialized using the Fast Infoset specification.

The ASN.1 committee has also started work on PER encoding instructions which will allow PER encodings to be altered slightly to match encoding from legacy protocols not originally written using ASN.1. This involved amendments to ISO/IEC 8824-1 and 8825-2. Work also started on efficiency enhancements to ISO/IEC 8825-5 (Mapping XML Schema to ASN.1). The FPDAM ballots on these have been completed. The FDAM ballots are expected to begin in June or July of 2007.

The ASN.1 committee is also working on a new Edition of the ASN.1 standards that will incorporate all amendments and corrigenda.

International meetings of the ITU-T|ISO/IEC ASN.1 standards committee were held September 2006 in Ottawa, Canada, December 2006 in Geneva with ITU-T SG17, and April 2007 with JTC1/SC6 in Xi'an, China.

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Note that due to the mature status of most of the T3 projects, it is rare that T3 has the opportunity to publish new base standards. Rather, most work is in refinements and enhancements to base standards and their derivatives.

2.a Open Distributed Processing (ODP)

This former JTC1/SC33 project and other ODP-related projects have been in SC7 and managed by the US SC7 TAG since the 1999 period. Through a ratified agreement written by INCITS, T3

is permitted to carry out the ODP TAG activities in behalf of the US SC7 TAG. This single project now covers all SC7 ODP activities. All the SC07 ODP projects are now within WG19.

Note the Enterprise Language Standard Rec. X.911 | ISO/IEC 15414 was published as 2002 collaborative text. ISO/IEC 15414:2002/CD Amd 1. Amendment 1 to ODP – Enterprise Language, is now incorporated in the ITU-T Pre-published April 2005 version of ISO/IEC 15414.

The work of WG19, relevant to the interests of T3, is on

- UML Pas ballots - UML 1.4 has been published as ISO/IEC 19501-1.
- The project on UML for ODP – Enterprise Language standard was published in UML 3.00 for ODP is now in FDIS.
- Initiation of a new work item on an ODP Reference Model Revision.

For the future, T3 will focus on the revision work for the ODP Reference Model which is in working draft status.

Derivative standards from the ODP Reference Model continue.

OMG, as a PAS submitter to JTC1, may submit several OMG ODP specifications for future PAS ballot. T3 will prepare the US ballot responses on these OMG PAS Ballots which are assigned to SC07 WG19.

2.b OSI Directory

Over the last period, T3 has reviewed two documents: ISO/IEC 9594-All: 2005 OSI - The Directory, X.509 Enhancements to Support Recognition of Authority Between PMIs and PDAM ballot ISO/IEC 9594-All : 2005 OSI - The Directory – Working document: Communications support enhancements (X.500 Series of Recommendations (2005)). T3 has also reviewed a variety of corrigenda for this project.

The OSI Directory projects consist of defect resolution of the two mostly recently published editions of the directory specifications (2002 and the recently completed Fifth Edition). The 2002 edition of Parts 1 through 7 is the Fourth Edition. The 2001 edition of Part 8 is ISO/IEC Fourth Edition. The 2002 edition of Part 9 is the Third Edition. The 2002 edition of Part 10 is the Second Edition. The most recent editions will each be incremented by one. However, the common practice is to refer to the entire set of parts as an edition. Therefore the set of all parts published in 2002 are referred to as the fourth edition and the set of all parts of the most recent edition are referred to as the fifth edition.

Directory is placed within its own working group, W8, within ISO/IEC JTC 1 SC 6. The Collaborative Directory group maintained liaison with the Internet Engineering Task Force on both Lightweight Directory Access Protocol (LDAP) and Public Key Infrastructure Extension (PKIX) issues

The status of meetings internationally is unknown due to the loss of experts on this topic.

As of December 2006, T3 lost its Lockheed Martin member (who was the topic leader for this project) due to the dwindling international support for the project and the maturity of these standards.

In that elements of this project may have some influence on other T3 projects (such as ASN.1), T3 will continue to respond to ballots and requests as long as it has the expertise to do so, although no new interest or support is expected.

2.c ASN.1

The ASN.1 committee completed work on fully supporting ISO 8601 time types in ASN.1 which resulted in amendments to most parts of ISO/IEC 8824 and 8825. These were balloted and approved as ISO/IEC 8824-1 Amd. 3, 8825-1 Amd. 2, 8825-2 Amd. 2, 8825-3 Amd. 2, 8825-4 Amd. 2, and 8825-5 Cor. 1. The committee also completed work on Fast Infoset Security, which was balloted and approved as ISO/IEC 24824-3. This specifies the application of encryption and integrity to fragments of an XML Infoset that is serialized using the Fast Infoset specification in ISO/IEC 24824-1.

International meetings of the ITU-T|ISO/IEC ASN.1 standards committee were held September 2006 in Ottawa, Canada, December 2006 in Geneva with ITU-T SG17, and April 2007 with JTC1/SC6 in Xi'an, China, to progress work on PER Encoding Instructions and Internationalized Object Identifiers for supporting Unicode Labels for ASN.1 Object Identifier arcs.

Paul Thorpe, a T3 member and the editor of the ASN.1 standards continues to attend the meetings and actively participate in the ongoing ASN.1 standards work.

The T3 ASN.1 group plans to take the work in progress on PER Encoding Instructions and Internationalized Object Identifiers to completion as well as producing a new Edition of ASN.1. The next two international meetings are scheduled for September 2007 with ITU-T SG17 in Geneva, Switzerland and April 2008 in Geneva, Switzerland with JTC1/SC6 and ITU-T SG17.

2.d OSI Systems Management

There were no changes in this topic for this period. For convenience, the 2002 report is restated.

All Systems Management projects are now assigned to ITU and have been grouped under one project for convenience. Also included are the former projects of Open Distributed Management Architecture (ODMA) and Common Management Information Service (CMIS).

It is T3 understands that it has no formal responsibility to this activity. Due to our informal relationship with ITU Study Group members, T3 can at its discretion volunteer contributions to ITU work.

Standards in this project are managed by ITU-T, which fast tracks amendments and corrigenda at the JTC1 level as class A liaison for existing published Joint standards. New Standards for this project are ITU-T only, however. T3 is willing to provide US recommendations on these Fast Track amendments on corrigenda on these existing published Joint OSI management standards.

2.e OSI Routing Protocols

There were no changes in this topic for this period. For convenience, the 2002 report is restated.

During this reporting period, T3 has recommended the withdrawal of test standards of this project. There has been no other T3 activity on this project. If no further interest develops in the next reporting period, T3 will likely recommend its removal from the T3 program of work.

The following is included from last year's report to assist in recalling the background of this project:

This SC 6-related project is included for continuity and for information only. T3 has lost the members that supported these projects and currently has no technical expertise among the remaining members.

06.41 End System to Intermediate Systems Routing Exchange Protocol

All work is believed complete. The draft amendments 2 and 3 have not yet been published, and do not appear on the SC6 program of work. None of these amendments have yet been published by

ISO and the amendments do not appear on the SC6 program of work. The reason for lack of progress of the amendments 2 and 3 is unknown.

06.41.04 Intermediate System-Intermediate system intra-domain routing Protocol (ISO 10589)

The preliminary draft was published September 2000. Updated versions were published to the IETF on 07-04-01. The final version which was delivered back to the ISO was published on 08-22-01.

A Draft of ISO 10589 v2 was developed and has undergone an email editing meeting, ISO review, and IETF review. The FDIS vote was held on the proposed draft of ISO 10589. The proposed draft of ISO 10589 was voted down with French and US comments. The changes required by the US and French were integrated into the document and an email editing meeting was held. The resulting draft was also reviewed by the IETF. This draft satisfies all outstanding comments and is awaiting FDIS vote and then acceptance as a full International Standard. The FDIS ballot does not appear to have been resolved. Perhaps there was confusion when the US pulled out of SC6 (the editor of the FDIS was from the US).

At this point, it is expected that work related to this protocol is at an end. All future work is expected to take place in the IETF, with regards to Internet Protocol extensions.

3. SIGNIFICANT CHALLENGES

Please note that all T3 projects are international.

T3's continued and most significant challenge has been organizing and adapting to the demands incurred by being the US SC 6 TAG. T3 also recognizes that an equal amount, if not more, of such demands has also been incurred by the INCITS Secretariat. Although during this period the problem again lessens, a continued challenge, realized more by the INCITS Secretariat, has been determining the exact program of work as it applies to SC 6 US TAG. This has taken a great deal of effort to baseline.

T3 continues its process of permanently abstaining on certain SC 6 projects. As T3 becomes more aware of the complete SC 6 program, T3 will attempt to find new members that are interested other areas of SC 6. (Note T3 has been using the general guideline of having at least 3 interested members per project to form a reasonable consensus.)

4. EXPECTED CHALLENGES

The challenges for the next period are expected to be mostly those of the last five periods.

Of special note is that T3 is increasingly becoming a forum for US companies and agencies to protect their investment in previous standards work. This is due to the maturity of most of the T3 standards. What little new work exists in T3 are mostly refinements and enhancements of essentially long-term stable standards.

Again, revitalizing the membership so as to take on new international projects will be a challenge to T3.

5. COMMITTEE ACTIVITIES

5.a Previous Year's Meetings:

2006 MEETINGS			
MEETING	DATES	LOCATION	STATUS
50	Dec 8	Washington, DC	pending

5.b Next Year's Planned Meetings:

2007 PLANNED MEETINGS			
MEETING	DATES	LOCATION	STATUS
50	Dec 7	Washington, DC	pending

6. LIAISON ACTIVITIES

T3 Topic	Liaison
Open Distributed Processing (ODP)	US SC 7 TAG – IEEE working through INCITS MOU

The now eight year old MOU-based agreement with IEEE has worked very smoothly and is expected to do so for the future.

On administrative matters, the T3 Chair serves at the point of contact for liaisons. On technical issues, the respective T3 Topic Leader is the contact under the management of the T3 International Representative (IR).

(Note that T3 also leads the SC 6 TAG using the T3 officers in the same TAG positions.)

7. MEMBERSHIP AND OFFICERS

This last year, T3 has lost its previous Vice Chair who was also our “The Directory” topic leader. This was due to the loss of members participating in the “The Directory” international activities plus the loss of interest in standards that have become or are becoming static.

Nonetheless, interest in Open Distributed Processing (ODP), ASN.1, and our Sony member’s interest in SC 6 remains strong, hopefully providing a basis to recover the lost members.

On the positive side, there remains some possibility of picking up new members interested in other areas of ISO SC 6, particularly as related to the US TAG.

7.a Officers

Position	Name	Organization
Chair	Edward L. Stull	EL Stull & Associates, Inc.
Vice Chair	Paul Thorpe	OSS Nokalva, Inc.
International Representative	Thomas Rutt	Coast Enterprises LLC
Secretary	(assigned at meeting)	
Vocabulary	(assigned at meeting)	

T3 also has “topic” leaders that are essential to managing the large number of standards activities serviced by T3:

- ODP Tom Rutt
- OSI Directory <Tom Rutt temporarily filling in>
- OSI Systems Management Thomas Rutt
- ASN.1 Paul Thorpe

7.b Membership (as of May 2006)

American National Standards Institute

Deane, Matthew

Liaison

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Fax: 353-1-8199726
Dublin, 3 - Ireland
Voting

8. FUTURE TRENDS AND RELATED TECHNICAL ACTIVITIES

For ODP, T3 will focus on:

- The progression of the UML for ODP
- Revision work for the ODP Reference Model
- Derivative standards from the ODP reference model will continue

OMG, as a PAS submitter to JTC1, may submit several OMG ODP specifications for future PAS ballot. T3 will prepare the US ballot responses on these OMG PAS Ballots which are assigned to SC07 WG19. The US has stated its interest in assuring that all OMG standards can be aligned with ODP. If necessary, the US believes that the ODP standards should be modified as required to maintain this alignment.

For ASN.1, T3 plans to take the work in progress on PER Encoding Instructions, and Internationalized Object Identifiers to completion, as well as continuing work on a the next Edition of ASN.1. The next two international meetings are scheduled for September 2007 with ITU-T SG17 in Geneva, Switzerland and April 2008 in Geneva, Switzerland with JTC1/SC6 and ITU-T SG17.

For OSI -- The Directory, as of December 2006, the project has lost all sponsorship. No future work is expected on this project. The T3 membership plans to continue responding to ballots and other communications as long as it has the expertise to do so.

9. OTHER ADMINISTRATIVE INFORMATION

9.a Administrative Matters of Note

None.

9.b Procedural Matters of Note

As in the previous reporting periods, T3 continues to work with the INCITS Secretariat and national bodies to refine and reduce where possible the number of projects that must be maintained, particularly in those cases where there is little national or international body interest. T3 and the INCITS Secretariat must continue to determine what projects are important to the USA, while discarding those that are not. Again, T3 recognizes the continued and unrelenting efforts of the INCITS Secretariat in assisting T3. This support is vital to the successful operation of T3.

The large number of standards covered by T3 exacerbates many issues. In particular, from an assignment perspective, it is simply not feasible to maintain expertise on all topics that T3 should cover due to the assignments of sibling committees within ISO, particularly the broad scope of SC 6 TAG.

Because of its significance and for the reviewer's convenience, the below text is a restatement from previous reports regarding T3's mode of operation:

T3 continues to improve its efficiency by operating electronically through email and procedurally through topic leaders wherein the Topic Leader responsibility is basically a subset of the IR's (note that all T3 projects are international). However, the IR continues to have overall responsibility. But to reduce the workload on the IR due to the very large number of T3 standards and their broad scope, T3 is cautiously delegating an increasing number of IR responsibilities to its topic leaders. This delegation is absolutely essential for effective operation of T3.

Electronic mail is working extremely well in T3. This results in T3 having the need for only one meeting last period and foresees the same for the future. To better manage the email voting process the following rules were adopted by the committee:

All email votes are divided into two categories: expedited and non-expedited.

For e-mail votes that are expedited:

- 1- must have a fixed closing date less than the maximum of three weeks or the legal minimum
- 2- to pass, a majority of voting members responding in favor is required
- 3- subject line shall include: FAST T3 BALLOT
- 4- whether a member responds does not affect voting rights
- 5- originating officer shall not announce the votes until closing date
- 6- an officer of T3 must initiate the vote; the initial proposal and second must occur on the e-mail exploder

For e-mail votes that are not expedited:

- 1- shall have a fixed closing date greater than or equal the maximum of three weeks or the legal minimum
- 2- vote shall be delivered to the originating officer (sending to e-mail exploder is not required)
- 3- originating officer shall not announce the votes until closing date
- 4- subject line shall include: T3 BALLOT
- 5- voting members shall respond to two-thirds of votes between meetings to retain voting rights
- 6- SD2 rules for passing
- 7- an officer of T3 must initiate the vote; the initial proposal and second must occur on the e-mail exploder