



TR-50 CORRESPONDENCE

Please reply to:

Chair, TIA TR-50

tr50chair@tiacomm.org

Tuesday, September 18, 2012

TELECOMMUNICATIONS
INDUSTRY ASSOCIATION

HEADQUARTERS
2500 Wilson Boulevard, Suite 300
Arlington, VA 22201-3834
+1 703 907 7700

D.C. OFFICE
10 G Street, N.E., Suite 550
Washington, DC 20002
+1 202 346 3420 Main
+1 202 346 3421 FAX

tiaonline.org

To: Jonas Sundborg, <jonas.sundborg@ERICSSON.COM>
Convener of First Technical Plenary of oneM2M

This Liaison was developed within TIA TR-50 and was agreed during their meeting that convened on 2012-09-18.

We wish to both inform your organization of our ongoing work in the M2M space, and provide information regarding the deliverables that have resulted from our work.

a) Deliverables

The following published standards are available free of charge by following the instructions in the attached *TR-50 IHS Welcome Letter*:

TIA-4940.000: Smart Device Communications; List of Parts

TIA-4940.005: Smart Device Communications; Reference Architecture

For your information the following documents are currently in TIA ballot prior to publication as TIA standards:

PN-4940.000-A: M2M-Smart Device Communications; List of Parts

PN-4940.020: M2M-Smart Device Communications; Protocol Aspects; Introduction

PN-4940.022: M2M-Smart Device Communications; Protocol Aspects; Deploying and Securing Applications

PN-4940.050: M2M-Smart Device Communications; Capabilities.

For your information the following document is currently in TIA ballot prior to publication as TIA Telecommunications Systems Bulletin:

PN-4974: Smart Device Communications; Security Aspects.

b) Current Work Program

Having completed our initial work culminating in the publication of TIA-4940-005, *Smart Device Communications; Reference Architecture*, in the fourth quarter of 2011, we have embarked on the next phase of standards development. At our meeting of 2012-01-26, the Committee adopted the work program outlined below with target completion year-end 2012.

i) Protocol Aspects

We have initiated a project to develop the description of the protocols used between the entities in our Reference Architecture, PN-4940-020, Protocol Aspects; Introduction.

Our architecture does not impose a particular business model on implementers. We have initiated a project to provide normative information regarding the

(This correspondence represents "working papers". Therefore, contents cannot be viewed as reflecting the corporate policies or the views of the Telecommunications Industry Association or of any company. The Association, the companies and individuals involved, take no responsibility in the applications of this document.)

secure deployment of applications into a container that may belong to a third party, PN-4940-022, Protocol Aspects; Deploying and Securing Applications.

ii) Capabilities

The work within the Committee is access network agnostic. Consequently, a realization of, for example, the PoA entity in our reference architecture could rely on different and potentially simultaneously active network connections and changes in that network environment would need to be signaled to the applications. Consequently we have created a PN-4940-050, M2M-Smart Device Communications; Capabilities to detail the capabilities of the underlying software containers.

iii) Security Aspects

We consider security aspects to be critically important to the nascent M2M space, and have conducted a threat analysis, which we intend to publish as a Telecommunication Systems Bulletin, TSB-4940.

c) Future Work Program

At our meeting of 2012-09-18, the Committee adopted the work program outlined below for target completion year-end 2013.

i) Reference Architecture

To avoid any unnecessary delay in updating the Reference Architecture, we intend to initiate project PN-4940-005-A, M2M-Smart Device Communications; Reference Architecture. If there is no identified need to change the document, then the document need not be updated.

ii) Protocol Aspects

We intend to initiate a project to enhance the normative information regarding the protocols used between the entities in our Reference Architecture, PN-4940-020-A, M2M-Smart Device Communications; Protocol Aspects; Introduction.

Although the work within the Committee is access network agnostic, it seems pragmatic to use features in the underlying access network to optimize overall operation. We intend to initiate a project to provide normative information regarding mechanisms to discover and invoke features of the underlying transport network, PN-4940-021, M2M-Smart Device Communications; Protocol Aspects; Optimizing Access Network Capabilities.

We intend to initiate a project to enhance the normative information regarding the secure deployment of applications into a container that may belong to a third party, PN-4940-022-A, M2M-Smart Device Communications; Protocol Aspects; Deploying and Securing Applications.

iii) Capabilities

We intend to initiate a project to enhance the normative information regarding the capabilities of the underlying software containers, PN-4940-050-A, M2M-Smart Device Communications; Capabilities.

iv) Standard Objects

The work within the Committee is agnostic to the application domain. We intend to initiate a project to provide normative information regarding standard objects, including specifying basic capabilities, methods to install, discover and invoke capabilities within objects, message syntax, message semantics, and message exchange protocols. PN-4940-100, M2M-Smart Device Communications; Standard Objects; Introduction.

v) Security Aspects

We also consider security aspects to be critically important to the nascent M2M space, and have subject matter experts involved in all aspects of the development.

vi) Testing and Conformance

We intend to create PN-4940-200, M2M-Smart Device Communications; Interoperability, to develop requirements to promote interoperability, and with the intent that conformance may be demonstrated by qualified third parties.

d) Collaboration

We welcome opportunities for collaboration in any areas of mutual interest.

As a Formulating Group of a oneM2M Partner Type 1, and we note the undertakings from section 3.1 of the Partnership Agreement extracted below:

A Partner Type 1 shall undertake all the following:

- Avoid development of work that overlaps with the work of oneM2M, preventing fragmentation of the standardization of a global M2M solution;
- Submit for potential transfer, work that overlaps with the work of oneM2M as a contribution to oneM2M. Complementary work may be referenced by oneM2M;

Subsequent to an agreement on what work overlaps, the documents described above in *Deliverables* include potential candidates for transfer into oneM2M. We look forward to development of the oneM2M workplan so that we may mutually agree on what constitutes “work that overlaps with the work of oneM2M.” We will continue our work until the transfer process is implemented.

Peter W Nurse,
Chair, TIA TR-50

Cc: Jeff Hannah, TIA, JHannah@tiaonline.org
oneM2M_TPOfficers@LIST.ETSI.ORG

Att: TR-50 IHS Welcome Letter

TR-50 IHS Welcome Letter

Thank you for your business and welcome to IHS! You have just made a very valuable decision in choosing a subscription-based technical information solution from IHS – one that will facilitate critical decision making, support key work processes, and improve productivity across your organization. In an effort to help you more quickly maximize the value of your IHS solution, we've included resources in this email that will assist you in doing business with IHS and using the IHS Engineering Resource Center (ERC).

IHS Account Number: 5947105
Expiration Date: December 7th, 2012

Your Account Login Information:

Login Name: TIACC

Password: SDL385

ERC Login Instructions:

1. Go to <http://www.IHS.com>
2. Hover over Custom Login on the top right of the page
3. Under Design & Supply Chain, click **IHS – ERC** in the drop down menu.
4. Enter your Account Login and Password (above) in the text boxes that appear.
5. On the User Login Screen, click the link to register. (You will need to have 'cookies' enabled on your browser.)
6. On the registration page, complete your user profile
 1. Choose your own password. This password does not replace your Account Password (above) but will be requested if you attempt to change your profile information.
 2. If your account has been customized, you may be prompted to choose a location or other option in a pull-down menu at the bottom of the screen.
 3. Click Submit.
 4. If you need additional assistance [click here](#) for further instructions.
7. On the IHS Main Menu, select your IHS solution IHS Standards Expert
8. Scan the solution's homepage for product news, tips & training, etc., which will help you use your IHS solution most effectively.

Please let us know immediately any questions or concerns that you may have regarding your solution. Our single, most important objective is your satisfaction as our customer. As your partner for critical technical information, decision support tools, and related services, we're ready for you to put us to work.

Your IHS Sales Rep:

Telephone (US/Canada): 800 525 7052

Worldwide Locations: <http://www.ihs.com/Contact/worldwide-locations.htm>

Web: www.IHS.com

Your IHS Client Solutions Manager:

IHS Customer Support Center

Telephone (US/Canada): 800 447 3352

Telephone (Worldwide): +1 303 397 2295

FAX (Worldwide): +1 303 397 2599

Email: [Customer Support Request](#)

IHS Product Information:

<http://engineers.ihs.com/products/IHS%20Customer%20Tip%20Sheets.htm>

IHS Industry eNewsletters: <http://engineers.ihs.com/engineering/newsletters.jsp>

IHS Events: <http://www.ihs.com/Events/index.htm>

About IHS: <http://www.ihs.com/About-IHS/>