



**Report of the Meetings**  
**Between**  
**W3C Global Business Development leader**  
**And**  
**ICT Industries in India**

**W3C India**  
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## Introduction

W3C India office ([www.w3cindia.in/](http://www.w3cindia.in/)) organized a series of meetings with World Wide Web Consortium ([W3C](http://www.w3c.org/)) delegation with the Indian ICT Industry, academic institutes and the companies incubated in the Web related area.

The goal of these meeting was to reach out to all the stakeholders of W3C standards [Areas: Web accessibility, Mobile Web, Web application development, Internationalization of Web, Web services technologies including the cloud based services, Speech technology, etc.] and enhance their involvement in the evolution of these standards.

W3C India office has to engage with these stakeholders for active dialogue for possible membership of W3C as affiliate members in their specific area of interest and also as institutional member for the organization to remain ahead in the ICT global competitive world. The innovation labs of Multinational and Indian companies also need to be brought on-board for meaningful participation to happen from India.

## **1<sup>ST</sup> Meeting of W3C India with Industries, 4th April 2011(Mobile Industries & Associations)**

The 1<sup>st</sup> meeting with World Wide Web Consortium (W3C) delegation with the Mobile Industries & Associations, academic institutes and the companies incubated in the Mobile Web related area was held on 4<sup>th</sup> April 2011 at Department of Information Technology, New Delhi, India.

### **Agenda for the 4<sup>th</sup> April, 2011 meeting at DIT, New Delhi**

Sl. No.	Name of the Speakers	Topic
1.	Shri N. Ravi Shanker, Joint Secretary, Department of Information Technology, Govt. of India and Patron, W3C India Office	“Inaugural address”
2.	Mr. Alan Bird, global business development leader, W3C	“Value of W3C Membership to be on the cutting edge of Global competition in the ICT environment”
3.	Ms. Swaran Lata, Country Manager, W3C India Office	“Efforts of W3C India towards evolution, promotion and proliferation of W3C standards”
4.	Mr. R.K.Pathak, DDG, Industry Promotion, Deptt. of Telecommunication, Govt. of India	“Leveraging the Telecommunication centres of excellence for joint efforts towards convergence of Standards”
5.	Mr. R.K Upadhyay , Advisor , Telecom Regulatory Authority of India	“Role of the regulator in growth of mobile services”
6.	Mr.Pankaj Mohindroo, President, Indian Cellular Association.	“Status of Mobile Industry in India and associated challenges of standardization”
7.	Sanjay Diwan (IMI mobile)	"Standardization of Device Applications in reference to WAC"
8.	Maj Abhijit Bhattacharjee (Luna Ergonomics)	“Standardization for supporting languages on phone”
9.	Vijay Narayana Sarojha, Nokia	

## Major Participation

<b>Industries</b>
Black Berry India
Intel India
Adobe Systems India Pvt Ltd
Ictect, Inc , USA
Oracle India Pvt. Ltd
Tech Mahindra Ltd.
Google India
Nokia India
IMI Mobile
Lenovo India
CA Technologies
<b>Industry Associations</b>
Telecom Equipment & Services Export Promotion Council, Govt. of India
TEC(Telecommunication Engineering Centre)
TRAI(Telecom Regulatory Authority of India)
ICA(Indian Cellular Association)
IAMAI(Internet & Mobile Association of India)
NASSCOM
CSI(Computer Society of India)
CEWIT(Centre of Excellence in Wireless Technology)





## Deliberations

### **Shri N.Ravi Shanker, Joint Secretary, Department of Information Technology**

In his inaugural keynote, Shri N.Ravi Shanker, JS, DIT elaborate his vision and mentioned that W3C India and all industries and Industries Associations need to work together towards the goal of web for all.

### **Swaran Lata, Country Manager, W3C India**

Swaran Lata, Country Manager, W3C India addressed the participants and mentioned that, the objective of the meeting is to reach out to all the stakeholders of Mobile Telecom ecosystem and enhance their involvement in the implementation of W3C Mobile standards in India . In her talk she told about growth of mobile subscriber in India and how 3G will helps in improving mobile services in India. She also talked about the need Long Term Evolution approach and the goals, features of LTE-advanced. She also elucidated about the Synchronized Multimedia Integration Language (SMIL) which encompasses SMS, MMS and Web based services in mobile domain.

### **Mr. Alan Bird, global business development leader, W3C**

Mr. Alan Bird told about the Usage of Open web platform in various technologies like Television, Mobile, and Gaming. He addressed the W3C next generation priorities for Mobile, Television etc. He said that web is increasing Government transparency, efficiency, and lowering costs. He told about the various standards may improve the Government Data like open linked data, Accessibility, Security and Privacy. He talked about the formation of new Interest Groups and proposed workshops related to the web standards.

### **Mr. R.K Upadhyay, Advisor, Telecom Regulatory Authority of India**

Mr. R.K Upadhyay addressed the growth of wireless technology in India and fall of wire line subscriber in India. He talked about the various issues related to the text entry through mobiles like different keypads, different encodings, Choice of characters placed on different keys, Height and width of characters displayed on the keypad. He said that TRAI will do the needful for promoting the use of Indian Languages for promoting the availability of web for all.

### **Mr. Pankaj Mohindroo, President, Indian cellular Association**

Mr. Pankaj Mohindroo elucidated about the status of Mobile Industry in India and associated challenges of standardization in India. He said that ICA is willing to give the full support in the evolution of W3C standards.

### **Vijay Narayana Sarojha, Nokia India**

Mr. Vijay Narayana Sarojha talked about the various issues related to the display of Indian languages on mobiles like issues in Data transmission, Fonts, text rendering. He also talked about relevant encoding used for data transmission. He offered collaborative work with W3C India in mobile fonts, rasterizer engine and Keypad standardization in India languages.

### **Sanjay Diwan, IMI Mobile**

Mr. Sanjay Diwan talked about the Wholesale Applications Community (WAC) which is an open, global alliance formed from the world's leading telecoms operators.

WAC will unite a fragmented applications marketplace and create an open industry platform that benefits the entire ecosystem, including applications developers, handset manufacturers, OS owners, network operators and end users. The main aim of WAC is to Accelerate and expand the market for applications, Create more compelling applications, Provide greater choice for users.

### **Abhijit Bhattacharjee, Luna Ergonomics**

Mr. Abhijit Bhattacharjee told that today with 500 million phone users in India alone, the overwhelming majority unable to write in English, it has become imperative to support Indian languages on phones. The standardization on this subject revolves around 3 topics: a means to type, fonts and rendering, encoding issues. Challenges of dealing with keypads, metrics for evaluation.

## **Outcome of the meeting held on 4<sup>th</sup> April 2011**

1. Initiation in the formation of Business and Incubator Community Groups of Mobile Web Initiative in India.
2. Initiation in the collaboration with major industries and industry Associations like Nokia, Google, NASSCOM, ICA, CSI etc.
3. Initiation in the development of Rasterizer and layout engines for mobiles.
4. Major industries are willing to give the full support in the evolution of W3C standards in India.

## Participants List

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## 2nd Meeting of W3C India with Industries, 5th April 2011(Indian Software Industries)

The 2<sup>nd</sup> meeting with World Wide Web Consortium (W3C) delegation with the Industry, academic institutes and the companies incubated in the Web related area was held on 5<sup>th</sup> April 2011 at Department of Information Technology, New Delhi, India.

### Agenda for the 5<sup>th</sup> April, 2011 meeting at DIT, New Delhi

Sl. No.	Name of the Speakers	Topic
1.	Shri N. Ravi Shanker, Joint Secretary, Department of Information Technology, Govt. of India and Patron, W3C India Office	"Inaugural address"
2.	Mr. Alan Bird, global business development leader, W3C	"Value of W3C Membership to be on the cutting edge of Global competition in the ICT environment"
3.	Ms. Swaran Lata, Country Manager, W3C India Office	"Efforts of W3C India towards evolution, promotion and proliferation of W3C standards"
4.	Ms.Rama Vedashree, Vice President, NASSCOM	"Leveraging W3C Standard to enhance e-Gov Reach"
5.	Mr. M.D.Agrawal, President, Computer Society of India	"Local language enablement of ICT through Internationalization of W3C standards"
6.	Venkatesh Hariharan ,Google	"Growing the Internet in India-Priorities and challenges"
7.	Ayush Joshi ,Ictect, Inc.,USA	"Intelligent Content for Policies and Procedures"
8.	Sanjeev Gupta ,Accenture	"Standards to Increase Accessibility in India"
9.	Mr. Deepak Singla ,CA Technologies	"Standardization and Implementation Issues"
10.	Angiah Santhanaswamy (Adobe Systems India Pvt Ltd)	"Compliance to Standards is Key to Interoperability"

## Major Participation

<b>Industries</b>
Black Berry
Tata Consultancy Services
Adobe Systems India Pvt Ltd
Nokia
Ictect, Inc , USA
IBM
Microsoft
Google
Infosys
CA Technologies
<b>Industry Associations</b>
IAMAI(Internet & Mobile Association of India)
NASSCOM
CSI(Computer Society of India)
FISME
MAIT
FICCI

## Deliberations

### **Swaran Lata, Country Manager, W3C India**

Swaran Lata, Country Manager, W3C India addressed the participants and mentioned that, the objective of the meeting is to reach out to all the stakeholders of ICT industries and enhance their involvement in the evolution of W3C mobile standards. She talked about the challenges of web services in Indian languages and need of internationalization in E-Governance applications. She addressed the best practices to be adapted for the implementation of web services in Indian languages. She told about the objectives of W3C India and standardization process of W3C.

### **Mr. Alan Bird, global business development leader, W3C**

Mr. Alan Bird told about the Usage of Open web platform in various technologies like Television, Mobile, and Gaming. He addressed the W3C next generation priorities for Mobile, Television etc. He said that web is increasing Government transparency, efficiency, and lowering costs. He told about the various standards may improve the Government Data like open linked data, Accessibility, Security and Privacy. He talked about the formation of new Interest Groups and proposed workshops related to the web standards.

### **Mr. Som Mittal, President, NASSCOM**

Mr. Som Mittal talked about the e-Governance Solution's Exchange, an initiative of NASSCOM to foster closer interaction and connect between Government and IT Industry, on eGovernance initiatives in India. He told about the requirements to follow the W3C standards. He said that there is a need to first identify the priorities areas of W3C standards. He told that e-Gov Reach Portal can be leveraged for dissemination of W3C Standards to SME members of the Industry.

### **Mr. M.D. Agrawal, President, Computer Society of India**

Mr. M.D. Agrawal talked about the Local language enablement of ICT through Internationalization of W3C standards through CSI research & education. He talked about the barriers & opportunities in inclusive growth of ICT. He talked about the special Interest groups of CSI. He told that CSI SIGs can be partner for implementation of W3C standards.

### **Ayush Joshi, Ictect, Inc.**

Mr. Ayush Joshi told us about the policy and procedure challenges faced in India .He also show XML tool which help in solving the problem of XML Content architecture solution and benefit for using XML tool made by their company.

### **Sanjeev Gupta (Accenture)**

Mr. Sanjeev Gupta told us about the physical, educational and low internet penetration disability in India. He also talked about the Accessibility barriers in India. He also told us about the person having disability have right to use internet information for their use. He also talked about the different standards like Web standard, resource standard and policy standard. He told us about the accessibility policies in India.

### **Angiah Santhanaswamy, Adobe India**

Mr.Angiah Santhanaswamy talked about the needs and the benefit of PDF Standard. He also told us the how PDF standards help in making PDF Presentation precise form and layout standards. He also told us that PDF support electronic signatures as well as digital signature or it can also used to approve the document or validate its authenticity. He also told us about the specific feature of different languages are added in to the PDF in 1.4.He also told us about the two levels of PDF. He also told us about the PDF reliable exchange and use of PDF for Universal Access. He also told us that PDF become an ISO Standard.

### **Deepak Singla (CA Technologies)**

Mr.Deepak Singla told us about the “Standardization and Implementation Issues” with respect to various Enterprise Management Solutions (EMS) which are deployed in all IT Infrastructure intensive projects. Considering that W3C works on developing web standards, therefore we would like to present a case before W3C on standardizing the requirements for EMS in all ICT initiatives so that all such projects face limited implementation as well as performance issues.

## **Outcome of the meeting held on 5<sup>th</sup> April 2011**

1. Major industries and Industries associations are ready to enhance their involvement in the evolution of W3C standards.
2. Initiation in the evolution of Open Linked data and Web Open Type Format (WOFF).
3. Proposed workshop on XML Content design schema.
4. Linkage of W3C India in the e-gov Reach portal for dissemination of W3C standards to SME members.
5. Adoption and participation in the development of new standards like Web and TV, Real time communications, Security and Policy etc.

## Participants List

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