



upperside conferences

19/22 MARCH 2013 MARRIOTT PARIS

V6 World

CONGRESS 2013

Going Mobile.



JUNIPER
NETWORKS

GOLD SPONSORS



ERICSSON



HUAWEI

PLATINUM SPONSORS

TUESDAY 19 MARCH 2013 TECHNICAL TUTORIAL

08.30 WELCOME, REGISTRATION AND COFFEE

09.30 Global IPv6 overview & technology refresh

Describing the protocols and techniques:
Dual-stack
Miscellaneous tunneling techniques, 6PE, CGN
Deploying IPv6 at the SP core and SP Broadband Access Networks

10.30 COFFEE BREAK

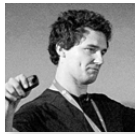
11.00 Multicast MPLS Routing protocols and provisioning

12.30 LUNCH

14.00 IPv6 network security: Threats & mitigations in a service provider network Overview of operational implicational elements

16.00 END OF THE TECHNICAL TUTORIAL

Adressed by **Andrew Yourtchenko** and **Gunter Van De Velde** | CISCO



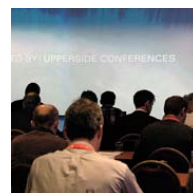
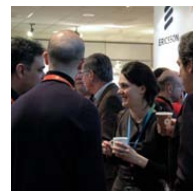
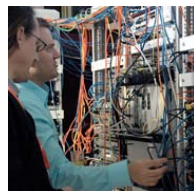
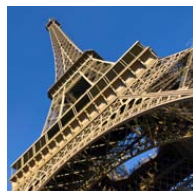
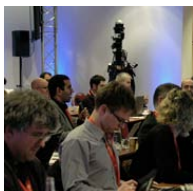
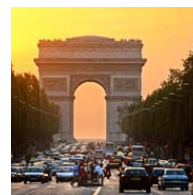
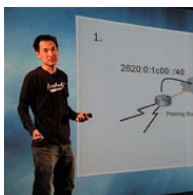
platinum sponsors



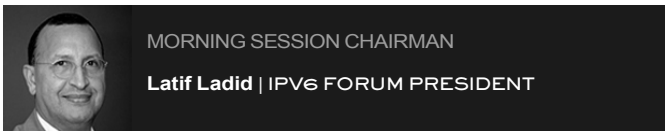
gold sponsors



advisory partners



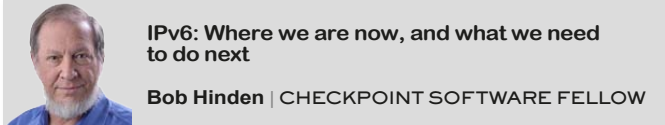
07.45 WELCOME, REGISTRATION AND COFFEE



MORNING SESSION CHAIRMAN

Latif Ladid | IPv6 FORUM PRESIDENT

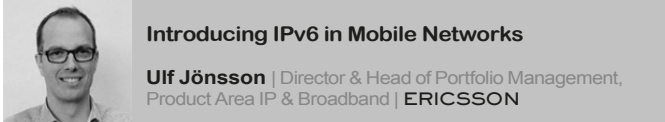
08.30 INTRODUCTION SPEECH



IPv6: Where we are now, and what we need to do next

Bob Hinden | CHECKPOINT SOFTWARE FELLOW

09.00 KEYNOTE ADDRESS



Introducing IPv6 in Mobile Networks

Ulf Jönsson | Director & Head of Portfolio Management, Product Area IP & Broadband | ERICSSON

09.30 KEYNOTE ADDRESS



Mark Townsley | CISCO FELLOW

V6 IN MOBILE NETWORKS: IMPLEMENTATION ISSUES

10.00 Guidelines for IPv6 Deployment and Transition in Mobile Networks

Discussing the impact of IPv6 on mobile network deployments. Investigating applicability of available IPv6 transition mechanisms, further provides guidelines and recommendations for IPv6 deployment and transition.

Suman Choudary | HUAWEI

10.30 COFFEE BREAK

11.00 On Packet Routing in Mobile Packet Cores

Addressing the challenges of new mobile network design including individualized IPv4 and IPv6 packet routing taking (in-line) service delivery with data center resources into consideration. How to manage mobility operations for mobile nodes on an individual basis while considering (in-line) services that need to be deployed for mobile nodes.

Alessandro Duminuco | CISCO

11.30 Cosmote Greece: How to Introduce IPv6 in a Mobile Network

Cosmote is the largest mobile operator in Greece, with subsidiaries in Albania, Bulgaria and Romania, and is member of DT Group since 2008. Discussing the organization regarding the introduction of ipv6 technology, pilot projects, time plan, the problems faced (and still facing) and the business drivers.



George Manousakis

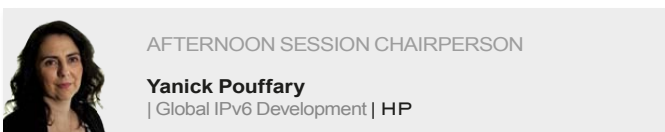
| COSMOTE MOBILE TELECOMMUNICATIONS

12.00 IPv6 in IMS

IMS supports dual stack towards Access Networks and internally, so operators can deploy IPv6 end to end. In case of a mix of clients using IPv4 and IPv6, IMS supports different configurations about how to handle IP addresses (e.g. convert from IPv4 to IPv6, from IPv6 to IPv4, or the preferred if possible, do not convert).

Mohammed Issa | Systems Manager, IMS | ERICSSON

12.30 LUNCH



AFTERNOON SESSION CHAIRPERSON

Yanick Pouffary

| Global IPv6 Development | HP

14.00 V6 Mobility Survey

Presented by the IPv6 FORUM



V6 AND HANDSETS

14.20 IPv6 on 3GPP Mobile Handsets

Describing the implications of IPv6 support on 3GPP User Equipment in general, and handsets in particular. Discussing the general IPv6 requirements for client-mode devices as well as for devices that perform IPv6 tethering to local area networks, including the typical WLAN, but also to Bluetooth-Low Energy for constrained 'Internet of Things' nodes.



Teemu Savolainen | Principal Researcher | NOKIA RESEARCH CENTER

14.50 How to Bring IPv6 Support to Handsets

Göran Ekberg | IPv6 Feature Area Responsible | SONY MOBILE

V6 IN MOBILE NETWORKS: USE CASES

15.20 Verizon: Supporting IPv6 as a Part of LTE Deployment

Discussing technical IPv6 implementation issues of the largest mobile carrier in the US. Possibly the highest IPv6 penetration of any mobile carrier in the world. Reporting 50% of IPv6 traffic growth in two months.

Samir Vaidya | VERIZON WIRELESS

15.50 T-Mobile: Evolving toward IPv6-only Services - The Mobile Perspective

Discussing current IPv4 architectures in mobile networks and the evolution towards IPv6-only services. Walking through T-Mobile USA's decision to choose NAT64/DNS64 and how 464XLAT will help mitigate the need for IPv4 addresses on mobile phones.

Cameron Byrne | Technical Staff Architect | T-MOBILE USA

16.20 COFFEE BREAK



16.40 Upgrading the Slovenian Emergency Response Teams with Mobile IPv6

Discussing the practical use of mobile IPv6 in real world and harsh environment (fire brigade).

Jan Zorz | GO6 INSTITUTE

17.10 From Mobile Handset to Global Backbone without Dropping a Bit

Independent of protocol (v4 or v6) we all like to see our Internet traffic flow smoothly and without packet loss; but does IPv6 have the same care and completeness when it comes to looking after those precious bits? Covering the routing of IPv6 from within the mobile network all the way to the other end.



Martin J. Levy | HURRICANE ELECTRIC

17.40 Deutsche Telekom: Current and Future IPv6 Works in the 3GPP Environment

Learning from our IPv6 experience gained during IPv6 trials. Detailing various factors impacting the IPv6 readiness in mobile networks.

Ales Vizdal | Head of IP System Design | DEUTSCHE TELEKOM

18.00 PANEL

Going Mobile with IPv6: Deployment Plans, Successes, and Challenges Ahead

While the recent leap in commercial IPv6 deployment and usage began in the residential ISP space, the mobile industry is poised to take the leadership role in 2013. This panel brings together Service Providers, Equipment Vendors and Handset Makers to discuss not only where we are, but what to expect in the future and what challenges lie ahead.



Moderator
Alain Fiocco
CISCO

Participants:

Cameron Byrne | Technical Staff Architect | T-MOBILE USA
Samir Vaidya | VERIZON WIRELESS
George Manousakis | COSMOTE MOBILE TELECOMMUNICATIONS
Lorenzo Colitti | GOOGLE
Fredrik Garneij | Senior Systems Manager IPv6 | ERICSSON
Martin J. Levy | HURRICANE ELECTRIC
Jan Zorz | GO6 INSTITUTE
Teemu Savolainen | Principal Researcher | NOKIA RESEARCH CENTER
Dean Cheng | HUAWEI
Göran Ekberg | IPv6 Feature Area Responsible | SONY MOBILE

19.00 END OF THE CONFERENCE DAY ONE
19.45 COCKTAIL RECEPTION LEVEL 0

07.45 WELCOME, REGISTRATION AND COFFEE



CHAIRMAN

John Brzozowski | COMCAST CABLE

SESSION BYOD



09.00 A Flood of Employee-owned Mobile Devices Are Coming. Are you Ready?

Understanding the challenges of bring your own device (BYOD) and how companies should be prepared for supporting a BYOD strategy in an IPv4/v6 connected world.

Yanick Pouffary | Global IPv6 Development | HP

09.30 Migrating Corporate Wi-Fi Networks to IPv6 and the Implications of BYOD

Address a number of requirements needed when considering an IPv6 deployment in an Enterprise Wireless LAN. Educating the attendee on include security, client mobility, the visibility of these clients and the ability to manage them, and network efficiency. With this knowledge, they will be able to better plan and benefit from the deployment of IPv6 in their network.

Bill Rubino | Marketing Manager | CISCO

10.00 COFFEE BREAK

10.30 Mobile Network Group Identification in Machine-to-Machine and Fixed Mobile Convergence



In Fixed Mobile Convergence, the devices connected to a mobile network belonging to a single customer such as smart phone, pad or PC need to be identified using group addressing in order to give the same QoS and also to help upcoming applications such as photo sharing.

Behcet Sarikaya | Senior Research Engineer | HUAWEI

V6 AND HOME NETWORKING

11.00 Home Networking in the IETF

The IETF Homenet working group is standardizing techniques for automatic IPv6 prefix assignment, routing across multiple subnets, naming and service discovery, as well as automatic border detection and security. Giving an overview of the challenges the working group is facing, a consensus achieved thus far, and a vision for what is left to accomplish going forward.



Ole Troan | co-author of the IETF Homenet Architecture

11.30 Advance IP Home Networking

John Brzozowski | COMCAST CABLE

12.00 Demonstrating How IPv6 Home Networking is Easy



Describing how my home network works, how adding IPv6 is easy by migration from tunnel to native Comcast, how people use IPv6 but don't know it.

Bob Hinden
| CHECKPOINT SOFTWARE FELLOW

12.30 LUNCH

14.00 Extreme IPv6 Networking at Home

IPv6-only networking.
Home automation
All devices addressable from the global Internet
Automatic home networking

Jari Arkko | ERICSSON

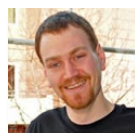
V6 ONLY IN THE CLOUD AND THE CORE

14.30 Replacing MPLS: TeraStream, a Native IPv6 Architecture

Introducing TeraStream, a drastically simplified native IPv6 network, based on the infrastructure cloud model, controlled under a realtime OSS. Within TeraStream, we are using the large IPv6 address space to provide advanced functionality to the user, and replace complex protocols like MPLS.

Ian Farrer | Senior Architect | DEUTSCHE TELEKOM AG

15.00 IPv6-only Data Centres using IPv4-IPv6 Translation



Discussing an alternative to incremental dual-stack: making the leap straight to IPv6-only operation. This approach may potentially help reduce the pressure for increasingly scarce IPv4 resources, and reduce the complexity of the overall platform.

Tore Anderson | REDPILL LINPRO AS

15.30 Segment Routing – IPv6 Use-Cases



Explaining how segment routing can be applied to IPv6 to resolve problems such as multi-path, disjoint path and traffic engineering without requiring LDP or RSVP-TE.

Clarence Filsfils | CISCO

15.50 Describing MAP

By mapping aggregate prefixes in IPv4 and IPv6, «Mapping of Addresses + Port» (MAP) utilizes the massive scale of the IPv6 routing system to deliver IPv4 as a service within the routing infrastructure of an IPv6 network.



Mark Townsley | CISCO FELLOW

16.10 Lw4over6: an Evolution of the DS-Lite Model

Service providers who decide to go with an IPv6-only access model still need to provide an IPv4 service to their customers. When many devices and applications in the home are still IPv4 only, solutions like NAT64 are not applicable. Lw4over6 is a straight-forward evolution of the DS-Lite model in which an IPv4 service is offered as an overlay for the IPv6 access network. Lw4over6 goes one step further, by making the AFTR (DS-Lite concentrator) stateless, thus enabling lower cost deployment and instant fail-over.



Alain Durand | Director, Office of CTO, Platform System Division | JUNIPER NETWORKS

16.40 COFFEE BREAK

17.00 Sunsetting IPv4

Turning off IPv4 definitively can be seen as the final phase of the migration to IPv6. Analysing the difficulties arising when sunseting IPv4, and identifying the gaps resulting in additional work.

Simon Perreault | VIAGENIE and **Tina Tsou** | HUAWEI

17.30 The Killer App is Automation in the Cloud

The pace of change in IT infrastructure and services has never been greater. New opportunities abound with the shift to cloud computing and the explosion of mobility.



Organizations must automate infrastructure and workload provisioning to remain relevant and compete in the new economy, yet much of the opportunity is only available using IPv6. Thoughts on where the biggest opportunities are and some practical advice will be presented.

Paul Zawacki | Enterprise Architect | ORACLE

18.00 Cloud as a Driver for IPv6



IPv6 provides capabilities and functionality that enable the deployment of a more scalable, a more feature rich and easier to operate Cloud. Discussing several such IPv6 specific benefits to cloud deployment and operation. Reviewing the current status of IPv6 support by Cloud Service Providers.

Ciprian Popoviciu | President and CEO | NEPHOS6

18.30 END OF THE CONFERENCE DAY TWO

08.15 WELCOME, REGISTRATION AND COFFEE



MORNING SESSION CHAIRMAN
Eric Vyncke | CISCO



AFTERNOON SESSION CHAIRMAN
Lee Howard | Director, Network Technology |
TIME WARNER CABLE

V6 AND SECURITY

09.00 Latest Developments in IPv6 Security



Presenting the latest developments in IPv6 security from a standardization and best practices perspective. IPv6 is a live protocol and will continue to evolve based on the experience we gain through deployment, operations and innovation.

Ciprian Popoviciu | President and CEO | NEPHOS6

09.20 Balancing End-user Security and End-to-end Connectivity

How can a SP fulfill the promise of IPv6 end-to-end connectivity? Some CPE act as the IPv4 NAPT and block all inbound traffic, others are simply accepting all inbound traffic. Describing a new IETF draft which tries to balance security and connectivity by allowing inbound traffic except for some exceptions. This design is currently in use by one European provider.

Ragnar Anfinen | ALTIBOX

09.40 Security Headaches Caused by Fragmentation

In the IPv4 world, it was common to use Access Control List (ACL) in a stateless manner, notably in routers and switches, to enforce a 'good enough' security. In IPv6, this may well not be the case as fragmentation in IPv6 is different than in IPv4. Presenting the technical differences but also the security issues caused in stateless IPv6 firewall.

Eric Vyncke | CISCO

10.00 IPv6 Intrusion Detection Research Project

Even though the IPv6-Standard RFC 2460 has been approved for more than 12 years, there is still a certain lack of IPv6 network security expertise. Taking this into account, we created a set of firewall tests and set up an IPv6 honeynet as part of the project IPv6 IDS. The project is a collaboration between the Potsdam University, Beuth Hochschule Berlin, EANTC and STRATO and is financed by the Federal Ministry of Education and Research.



Authors: Carsten Rossenhövel and Sven Schindler

Carsten Rossenhövel | Managing Director | EANTC AG

10.20 COFFEE BREAK

IPv6 AND MEASUREMENTS

10.40 World IPv6 Launch Results and Statistics

Discussing what needs to be migrated to IPv6 and specific steps to get there, and also presenting some case studies and World IPv6 Launch results and statistics.



Deploy360 provides real-world IPv6 deployment information including detailed, technical how-to resources and educational articles, best current operational practices, case studies, and other in-depth information.

Jan Zorz | ISOC

11.00 PANEL

How to Measure IPv6?

There are multiple point of views and metrics about IPv6 world-wide deployment. This panel is about all those metrics and checking which one is the more relevant among IPv6 enabled web sites, traffic at Internet Exchange, residential penetration as measure by popular web sites or by the use of P2P programs, network prefixes allocation by RIR and their announcements on BGP, polling ISP and enterprises, ...

Moderator **Eric Vyncke** | CISCO

Participants:

Erik Kline | GOOGLE

Jan Zorz | ISOC

Martin J. Levy | HURRICANE ELECTRIC

Ron Broersma | Chief Engineer, Defense Research & Engineering Network | DREN

Lee Howard | Director, Network Technology | TIME WARNER CABLE

Alain Fiocco | CISCO

Alain Durand | Director, Office of CTO | JUNIPER NETWORKS

Franck Le Gall | IPV6 EUROPEAN OBSERVATORY

Ciprian Popoviciu | President and CEO | NEPHOS6

12.30 LUNCH

DEPLOYMENTS AND IMPLEMENTATIONS

14.00 IPv6 in OSS/BSS: Looking beyond Connectivity

Describing challenges of deploying IPv6 associated with IT systems and how it affects the whole mobile operations environment. It also demonstrates how, through careful assessment and thorough planning for IPv6 deployment including these businesses critical supporting systems, can help mobile operators to overcome these issues.

William Rubin | ERICSSON

14.30 Implementing IPv6 in RCS & RDS Network



More than 1 million RCS & RDS residential customers can now use native IPv6 on a dual stack PPPoE connection and 20% already do. Discussing this achievement, more specifically the history of IPv6 in this network, success factors and obstacles that we encountered.

Liviu Pislaru | IP Design Network Architect | RCS & RDS

15.00 Semantic IPv6 Prefix for Network Operations

IPv6, with a large address space, allows semantics to be embedded into addresses.



Introducing a framework and relevant considerations that embeds semantics into IPv6 prefixes, so that network devices can treat packets based on these explicit semantics.

Sheng Jiang | Senior Staff Engineer |
HUAWEI TECHNOLOGIES

15.30 Unified Intelligent IPv6 Deployment

Introducing a unified IPv6 transition technology platform, which provides another way to deploy IPv6 in a cost effective way and may be used to create a specific network cloud for IPv6.

Wang Jianquan | Director Network Technology Research Center |
CHINA UNICOM

16.00 Kabel Deutschland Use Case

Presenting Kabel Deutschland field trial of Dual Stack-Lite as an IPv4 to IPv6 transition technology. Describing the deployment of IPv4/IPv6 native dual-stack on a cable infrastructure.

Dr. Thomas Kuehne | Head of IP Network Design |
KABEL DEUTSCHLAND VERTRIEB

16.30 IPv6 the Transition is Here

Providing an overview of the study that ETSI conducted regarding implementing IPv6 in MSO(s). Overviewing the best practices to introduce IPv6 and highlighting the transition techniques that were selected to deal with IPv4 exhaustion for fixed and mobile users.



Wim Henderickx | Director Consulting Engineering IP |
ALCATEL-LUCENT

17.00 ETSI Standard for Cable Transition to IPv6

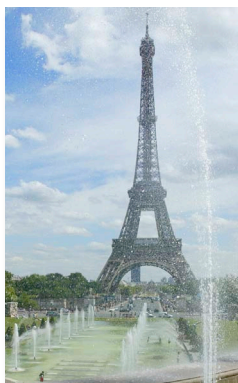
Overview of ETSI and Technical Body
Cable Network Transition to IPv6
Status of Technical Report / Technical Standard

Daryl Tanner | VIRGIN MEDIA

17.30 END OF THE V6 WORLD CONFERENCE 2013



Marriott
PARIS
RIVE GAUCHE HOTEL
& CONFERENCE CENTER



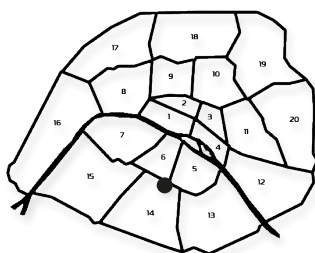
Situated in downtown Paris with direct access to major airports, the Marriott Rive Gauche Hotel & Conference Center is conveniently located by the Latin Quarter and Saint-Germain-des-Pres. The metro station nearby takes you directly to the Eiffel Tower, Champs Elysées, Montparnasse district and Notre Dame in less than half an hour.

All bedrooms are entirely renovated and are larger than the average 4 star Paris hotel bedrooms. They feature spectacular views, Marriott's supremely comfortable Revive® bedding and upscale shower products. The Great Room by 70s inspired designer R' Yves combines a European brasserie, cocktail bar and lounges as well as a take-away counter for guests to enjoy great food and a trendy atmosphere.

In the central Rive Gauche vicinity of France's capital city, this Marriott hotel provides excellent services and facilities for a successful business trip, week-end visit or a vacation away in this unique European destination.

All 617 Deluxe rooms, 89 Executive rooms and 51 Suites are fully renovated with Marriott design.

For guests in Executive rooms and Suites



17 Boulevard Saint Jacques
75014 Paris - France
Metro line 6: Saint Jacques or Glacière

the elegant Executive Lounge offers all day refreshments.

Free World Class® fitness center access and classes for Marriott hotel guests; massages available.

Luxurious Marriott Revive® bedding with down comforter, custom duvet, crisp linen and plush pillows.

Spacious work area at our downtown Paris hotel, secure high-speed Internet and connectivity panel.

All rooms feature iron and ironing board, tea and coffee making facilities and 24h room service.

Marriott Rewards Category 7

Deluxe room
€ 209.00 per night
1 King or 2 Twin/Single
One breakfast included

Executive room
€ 269.00 per night
Executive Lounge Access
1 King or 2 Twin/Single
One breakfast included

Junior Suite
€ 339.00 per night
Executive Lounge Access
1 King, 1 Sofabed
One breakfast included

To book your room:
<http://www.uppersideconferences.com>

Tel: ++ 33 (0)1 40 78 79 80
Fax: ++ 33 (0)1 45 88 43 93
Web: <http://www.marriott.com>

To book your room: <http://www.uppersideconferences.com>

V6 World

CONGRESS 2013

INTERNET



www.uppersideconferences.com
info@upperside.fr

TELEPHONE



33 1 53 46 63 80

FAX



33 1 53 46 63 85

POST MAIL



54 rue du Fbg St Antoine
75012 Paris - France

DATES AND VENUE

19/22 March 2013

Hotel Marriott Paris Rive Gauche
17, Boulevard Saint Jacques
75014 Paris
France

Metro line 6: Glacière

ORGANIZED BY

Upperside Conferences
54 rue du Faubourg Saint Antoine
75012 Paris
France
Telephone: ++ 33 (0)1 53 46 63 80
Fax: ++ 33 (0)1 53 46 63 85
email: info@upperside.fr
SIRET: 399.004.068.00033
VAT: FR12 399.004.068

TERMS OF PARTICIPATION

Full payment or Purchase Order is required for admission to the conference.

PAYMENT

Cards (Visa, Amex, Mastercard, Diner)
Bank transfer
Cheque and Travelers cheque.

REGISTRATION FEES

4 Day Event 19/22 March 2013
Technical Tutorial + Conference
€ 2,590.00 + VAT 19.6% € 507.64 = € 3,097.64

3 Day Conference 20/22 March 2013
€ 2,090.00 + VAT 19.6% € 409.64 = € 2,499.64

Technical Tutorial only 19 March 2013
€ 890.00 + VAT 19.6 € 174.44 = € 1,064.44

These passes include: access to the V6 World Conference, access to the exhibition and interop event; coffee breaks, luncheons, welcome reception and V6 World conference proceeding.

Set of lecture notes (Electronic version on USB key)
Euros 750.00. Delivery by Fedex included.

To register for **Dual Pass MPLS & Ethernet + V6 Word**
Please go to <http://www.uppersideconferences.com>

CANCELLATION CONDITIONS

Substitution of delegates is permitted at any time.

For all cancellations received before February 19, 2013, the entire registration amount will be refunded.

For all cancellations received after February 19, 2013 and before March 5, 2013 the registration amount less 10% administrative charge will be refunded.

For all cancellations received after March 5, 2013, regretably, no refunds can be made.

All notice of cancellation must be received in writing.

CONFERENCE PROGRAM MODIFICATIONS

Upperside Conferences reserves the right to make any necessary changes to the program. Every effort will be made to keep presentations and speakers as represented. However, unforeseen circumstances may result in the substitution of a presentation topic or a speaker.

CANCELLATION OF THE CONFERENCE

Payments will be refunded if the conference is cancelled by the organizer.

☐ I would like to register, I have read and accept registration fees, payment and cancellation policies.

Please tick and report the letter in the block below.

- ☐ **A** **4 Day Event** 19/22 March 2013 **Technical Tutorial + Conference** | € 2,590.00 + VAT 19.6% € 507.64 = € 3,097.64
- ☐ **B** **3 Day Conference** 20/22 March 2013 | € 2,090.00 + VAT 19.6% € 409.64 = € 2,499.64
- ☐ **C** **Technical Tutorial** 19 March 2013 | € 890.00 + VAT 19.6 € 174.44 = € 1,064.44
- ☐ **D** I am unable to attend, please reserve me a set of lecture notes. Euros 750.00 (+ VAT 19.6 % for French companies only)

	MR/MRS	FIRST NAME	FAMILY Name	EMAIL
☐ 1				
☐ 2				
☐ 3				

COMPANY	BOOKING CONTACT	
ADDRESS		
ZIP CODE	CITY	COUNTRY
TEL.	FAX	EMAIL

- ☐ ☐ ☐ ☐
- ☐ I enclose a cheque in favour of Upperside Conferences
- ☐ Please invoice my Company. Payment upon receipt of invoice

HOLDER															
EXPIRY DATE										CVC					

INVOICING ADDRESS IF DIFFERENT / REMARKS