



Deliverable

72

Final Report on Dissemination Activities

WP14 Dissemination

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CCLRC

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Version 1

TrustCoM

A trust and Contract Management framework enabling secure collaborative business processing in on-demand created, self-managed, scalable, and highly dynamic Virtual Organisations

SIXTH FRAMEWORK
PROGRAMME

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Executive Summary

This report details the dissemination activities in the first three years of the Trustcom project with a focus on the third year. Dissemination in the first two years has been plentiful, the third year continues this visibility, and the trend identified in the second year from conference presentations towards journal publication. The third year has also brought out demonstrations of the tools directed towards business audiences to build towards the exploitation of the Trustcom results both in commercial products.

Introduction

This report details the dissemination activities in the first three years of the Trustcom project but focuses on the third year of the project. The remainder of this introduction briefly summarises the dissemination strategy defined in D5, D23, and D39 before assessing the performance of the project against the plan.

Dissemination was recognized as one of the central activities within the TrustCoM project and all partners contributed to the achievement of its tasks. The objectives of the dissemination activity were:

- To ensure the dissemination of the project results to a wide reaching audience to make the community aware of the results of Trustcom and encourage the research community to refine them;
- To establish TrustCom's presence as the leading technical project on Virtual Organisations to encourage adoption of the results of Trustcom;
- To influence decision-making bodies and improve the development of the market sector through the adoption of the results of Trustcom;
- To inform and promote activities with the public at large to encourage end users to have requirements for the services they use to conform to the results of Trustcom.

Dissemination drew upon the results in all technical workpackages and informed the strategic exploitation plans of the consortium by ensuring maximum uptake of the consortium results and maximising the benefit to the IT community at large. However,

commercial exploitation and standardisation activities are addressed in separate workpackages and are outside the scope of this deliverable.

The dissemination activities were organised according to the intended target audience namely:

- Dissemination to peers in research
- Dissemination to other industrial and commercial organisations
- Liaison with other EU projects and the Commission
- Dissemination to the General Public

The plan also varied over the lifetime of the project with initial dissemination aimed at research peers directly or through liaison with other project and the EC, then as the project progressed, more dissemination was directed towards industrial audiences. There was never any pro-active dissemination plan to address the general public, although it was acknowledged that the project would take advantage of any opportunities that arose.

Dissemination to peers in research.

Within the domain of research peers, Trustcom addresses several different communities, including:

- Trust
- e-business
- Virtual organisations
- Security
- Web Services
- Grid technologies

One strategy that Trustcom has adopted to make an impact in each domain without our general effort being dissipated among too many audiences, has been to focus on one conference from one domain each six months, and make a significant impact there.

Most papers have been presented at:

- iTrust on trust and security (11)
- eChallenges on e-business (9)
- PRO-VE on Virtual Organisations (4)

Other conference papers appear to have been presented at single conferences, addressing the target audience.

In terms of international coverage, most presentations were in Europe although there have been 10 major presentations at US conferences, and a few in Asia.

Dissemination to other industrial and commercial organisations.

A handout flyer and 12 side leaflet were produced which were disseminated at many events where TrustCoM project members were attending, if not speaking.

A general slideset including demonstration videos was developed, based around business arguments for Trustcom that can be presented to Trustcom companies. It was intended to be sampled for business fairs and application audiences where it has been used.

A few of the events at which TrustCoM has been presented can be categorized as business events rather than research ones, but it is hard to assess the impact that has been made to this audience.

Liaison with other projects and the Commission

Trustcom staff have been active in Clusters and Commission initiated collaboration activities with other projects in Enterprise Interoperability, Digital Ecosystems, Grid Technologies, SOA, Legal-IST. CCLRC are leading the trust and security workpackage in the CoreGrid NoE where the Trustcom results have been presented at workshops. Along with direct contact with individual IST projects, these have ensured that participants in other projects are aware of TrustCoM, even if they have not followed up that interest. There has been considerable interest recently while consortia are forming for new project proposals where it is acknowledged that TrustCoM has already addressed many of the issues that they are now planning as the next topics for research.

Dissemination to the general public.

The plan did not emphasise dissemination to the public, although it would be positive for the project if available. In practice no dissemination to the public has taken place in the third year.

Dissemination in the first 36 months

The instances of dissemination by the project in the first 24 months have been:

months	1-6	7-12	13-18	19-24	24-36
public web site	1	-	-	-	-
journal or magazine articles, book chapters	2	2	0	15	9
conference & workshop presentations with published papers	22	2	22	17	45
Tutorials	2	0	1	3	1
Seminar or invited talks at conferences/ workshops	1	1	15	8	8
Summer school participations	0	2	0	0	0
Panel sessions in conferences and several other panel participations	3	0	2	0	0
Workshop inside another conference	1	0	1	1	1
CEC Concertation & Cluster events	2	0	4	-	4

Contacts with other EU projects	<i>many</i>	<i>many</i>	<i>many</i>	<i>many</i>	<i>many</i>
press releases	1	1	0	0	0

1.1 Dissemination Actions in year 3.

The dissemination activities for the first 2 years have been reported already, and all archived publications are listed in Annex 1. Those from the third year are listed below. Some of this dissemination is also reported elsewhere as collaboration, standardisation or exploitation activities. Some of the publications reported here were also reported in 2005 when they were submitted for publication.

It is worth noting that two best paper awards were presented to TrustCoM papers in 2006, one at a workshop in Manchester, the other at an international conference in Palo Alto, California. These show that the TrustCoM work is not only passing the standard review criteria for conferences (many of which only accept 10% of submissions), but is even reaching the higher standard of best paper in the conference.

Conference Presentations

1. E. Bertino, J. Crampton, F. Paci, Access Control and Authorization Constraints for WS-BPEL, In Proceedings of IEEE International Conference on Web Services, Chicago, September 2006
2. D. Brucker, J. Doser, B. Wolff. "A Model Transformation Semantics and Analysis Methodology for SecureUML" presented at the 9th International Conference on Model Driven Engineering Languages and Systems (MODELS2006), October 1-6, 2006, Genova, Italy.
3. David Chadwick. "Authorisation using Attributes from Multiple Authorities" in Proceedings of WET-ICE 2006, June 2006, Manchester, UK (**best paper award in Security Workshop**).
4. David Chadwick, Gansen Zhao, Sassa Otenko, Romain Laborde, Linying Su, Tuan Anh Nguyen. "Building a Modular Authorization Infrastructure", All Hands Meeting, Nottingham, Sept 2006.
5. David W Chadwick, Sassa Otenko and Tuan Anh Nguyen. "Adding Support to XACML for Dynamic Delegation of Authority in Multiple Domains" Proc of 10th IFIP TC-6 TC-11 Int Conf, CMS 2006, Heraklion, Crete, Greece, Oct 19-21, 2006. Springer LNCS Volume 4237/2006, pp67-86.
6. Theo Dimitrakos *Towards an adaptive Web Services B2B Security Gateway for security distributed transactions* European Conference on Web Services, Zurich, Dec 2006
7. Theo Dimitrakos TrustCoM project presentation EU projects session, iTrust 2006, the 4th International Conference on Trust Management, Pisa, Italy, May 2006
8. Theo Dimitrakos, Andreas Maierhofer, Leonid Titkov and David Brossard, Extendable and Adaptive Message-Level Security Enforcement Framework, International Conference on Networking and Services 2006, Palo Alto, California, Summer. (**best paper award**)

9. Pablo Giambiagi, Olaf Owe, Anders P. Ravn, and Gerardo Schneider. Language-based support for service oriented architectures: Future directions. In ICISOFT (1), pages 339-344, Setúbal, Portugal, September 2006. INSTICC Press.
10. D Golby (BAE Systems), M D Wilson, L Schubert (HLRS), C Geuer-Pollmann (Microsoft Innovation Centre) An assured environment for collaborative engineering using web services Proc. 13th ISPE INTERNATIONAL CONFERENCE ON CONCURRENT ENGINEERING: Research and Applications (CE '06), Antibes, France, 18-22 Sep 2006, Concurrent Engineering '06; IOS Press
11. Haller, J.; Schubert, L. & Wesner, S. (2006), Private Business Infrastructures in a VO Environment, *in* Paul Cunningham & Miriam Cunningham, ed., 'Exploiting the Knowledge Economy - Issues, Applications, Case Studies'. eChallenges 2006
12. Hasselmeyer, P.; Qu, C.; Schubert, L.; Koller, B. & Wieder, P. (2006), Towards Autonomous Brokered SLA Negotiation, *in* Paul Cunningham & Miriam Cunningham, ed., 'Exploiting the Knowledge Economy - Issues, Applications, Case Studies'. eChallenges 2006
13. Mahler, T.; Arenas, A. & Schubert, L. (2006), Contractual Frameworks for Enterprise Networks & Virtual Organisations in E-Learning, *in* Paul Cunningham & Miriam Cunningham, ed., 'Exploiting the Knowledge Economy - Issues, Applications, Case Studies'. eChallenges 2006
14. Hasselmeyer, P.; Koller, B.; Schubert, L. & Wieder, P. (2006), Towards SLA-Supported Resource Management, *in* 'HPCC06 Conference Proceedings'. The Second International Conference on High Performance Computing and Communications (HPCC-06), Munich, Germany from Wednesday September 13th to Friday September 15th, 2006
15. Y. Karabulut, Euro-Southeast Asia ICT Forum 2006 (EUSEA 2006), Trustcom VO/BPM presentation/demo, Singapore, June 2006
16. Y. Karabulut, CommunicAsia 2006, Trustcom VO/BPM presentation/demo, Singapore, June 2006
17. Mecella, M. Ouzzani, F. Paci, E. Bertino -An Access control framework for Conversation-based Web Service. In Proceedings of World Wide Web Conference, Edinburgh, May 2006
18. PathTrust: A Trust-Based Reputation Service for Virtual Organization Formation, Kerschbaum and Haller and Karabulut and Robinson, 4th International Conference on Trust Management, 2006
19. Philip Robinson, Florian Kerschbaum, and Andreas Schaad, From Business Process Choreography to Authorization Policies 20th Annual IFIP WG 11.3 Working Conference on Data and Applications Security, July 31-August 2, Sophia Antipolis, France. LNCS 3193, Springer.
20. A Svirskas, B Roberts, M D Wilson Peer-To-Peer Business Communities: Mapping Public Choreography Protocols to Individual Implementation

Mechanisms Proc. IADIS Web Based Communities 2006 Conference, San Sebastian, 26-28 Feb 2006

21. A Svirskas (Vilnius U), M D Wilson, R Roberts (Kingston U) Role and Application of Pluggable Business Service Handlers in Web Services Choreographies. Baltic Conference on Databases and Information Systems (Baltic DB&IS'06), Vilnius, Lithuania, 04-06 Jul 2006, in Databases and Information Systems V, eds. Olegas Vasilecas, Frontiers in Artificial Intelligence and Applications (IOS Press) (2006)
22. A Svirskas, B Roberts, I Ignatiadis, M D Wilson VIRTUAL ORGANIZATION MANAGEMENT USING WEB SERVICE CHOREOGRAPHY AND SOFTWARE AGENTS Proc. 7th IFIP Working Conference on Virtual Enterprises (PROVE'06), Helsinki, Finland, 25-27 Sep 2006.
23. M D Wilson, B M Matthews **Invited Keynote:** The Semantic Web: Prospects and Challenges Proc. Baltic DBIS 2006 (Baltic DBIS 2006), Vilnius, Lithuania, 03-06 Jul 2006
24. M Wilson, A Arenas, D Chadwick (Kent U.), T Dimitrakos, J Doser (ETH), P Giambiagi (SICS), et al (11) The TrustCoM approach to enforcing agreements between interoperating enterprises Proc. Interoperability for Enterprise Software and Applications Conference (I-ESA'06), Bordeaux, France, 21-24 Mar 2006

Conference Tutorial

K. Twidle and E. Lupu. Policy-based Self Managed Cells. Tutorial given and UKUbinet 2006, July 2006, London UK – the tutorial included a significant hands-on session using the policy service.

Conference Workshops

BT Organized the EU projects session at iTrust 2006, the 4th International Conference on Trust Management, Pisa, Italy, May 2006.

Workshop Presentations

1. D. Brucker, J. Doser, B. Wolff. "An MDA Framework supporting OCL" presented at the 6th OCL Workshop, October 2006, Genova, Italy
2. D. Brucker, J. Doser, B. Wolff. "Semantic Issues of OCL: Past, Present and Future" presented at the 6th OCL Workshop, October 2006, Genova, Italy
3. David Chadwick, Controlling VO access to your resources, presentation at the Grid Computing Now! Workshop on Virtual Organisations and Grids: Applications, Patterns and Infrastructures, NeSC Edinburgh, 21 Nov 2006.
4. A Comprehensive Security Architecture for Dynamic, Web Service Based Virtual Organizations for Businesses, Deitos and Kerschbaum and Robinson and Haller, Jochen, ACM Workshop on Secure Web Services
5. K. Dietz, Y. Karabulut, P. Leidner, An Overview of Security Requirements for eBidding in the Public Sector, Group Workshop on Decision and Negotiation, June 2006, Karlsruhe, Germany

6. Theo Dimitrakos, *Securing B2B collaborations*, Challengers European Research Coordination Action, Jan-07, Paris
7. Theo Dimitrakos, *Web Services Security Gateway demonstration (focus: federation services and XML security)*, Demonstration & Presentation to ESFORS workshop and NESSI - Security Technical Working Group, Paris, Sep '06
8. Theo Dimitrakos, Research challenges for the convergence of SOA platforms and next generation networking, SOA for Enterprise Interoperability Interoperability cluster DG INFSO D4 In conjunction with the ICT for Business Information Day, Feb-07
9. Theo Dimitrakos, Presentation at the VO Management and Security TWGs, European Grid days, Sep '06, Brussels.
10. Christian Geuer-Pollmann, IT-Sicherheitsforschung und Technologietransfer beim European Microsoft Innovation Center (EMIC), presentation at secure-it.NRW, Aachen, 25 Oct. 2006.
11. Gustav Boström, Pablo Giambiagi and Tomas Olsson. Quality of Service Evaluation in Virtual Organizations Using SLAs. 1st International Workshop on Interoperability Solutions to Trust, Security, Policies and QoS for Enhanced Enterprise Systems (IS-TSPQ 2006), March 2006.
12. Pablo Giambiagi, Sakyibea Darko-Ampem and Maria Katsoufi. Secure Negotiation in Virtual Organizations. Advances in Quality of Service Management (AQuSerM 2006), Hong Kong, China. October 2006.
13. Jochen Haller, "A Stochastic Approach for Trust Management", International Workshop on Security and Trust in Decentralized/Distributed Data Structures (STD3S), 2006
14. Ignacio Soler, SLA Management and Reputation in a Dynamic Virtual Organisation, presentation at Grids@Work, the CoreGRID Industrial Conference, Nice, Nov 30 - Dec 1 2006.
15. S. Ristol, TrustCom Framework for Trust and Contract Management. Presentation at the EU DG INFSO&Media Service-Oriented Computing Workshop, Brussels, 27 June 2006
16. Lutz Schubert, Contract Based VO Management: issues and potential solutions, presentation at the Grid Computing Now! Workshop on Virtual Organisations and Grids: Applications, Patterns and Infrastructures, NeSC Edinburgh, 21 Nov 2006.
17. A Svirskas (Vilnius U.), J Bedzinskas (Vilnius U.), B Roberts (Kingston U.), I Ignatiadis (Kingston U.), M D Wilson Adaptive Business Protocol Support in Service Oriented B2B Collaborations Proc. International Workshop on Process Integration of Collaborative Enterprises (PINCET), Manchester, UK, 26-28 Jun 2006
18. M.D.Wilson, From VOMS to TrustCoM: VO Management from academia to business, presentation at the Grid Computing Now! Workshop on Virtual

Organisations and Grids: Applications, Patterns and Infrastructures, NeSC Edinburgh, 21 Nov 2006.

19. M.D.Wilson, Standards and Technologies for the Grid. Presentation at the Challengers Workshop on Interaction of European and International Grid Communities, Pisa 11-12 Oct 2006.
20. M.D.Wilson, TrustCom Framework for Trust and Contract Management. Presentation at the Workshop on Agents and Grids: towards the intelligent grid, NeSC Edinburgh, 19-20 Feb 2007.
21. "Security and Trust in IT Business Outsourcing: a Manifesto" by Artsiom Yautsiukhin, Fabio Massacci, Yuecel Karabulut, Florian Kerschbaum and Philip Robinson, 2nd International Workshop on Security and Trust Management, Hamburg, Germany.

CEC Concertation & Cluster events

1. M.D.Wilson, Cluster: Presentation at the EU DG INFSO&Media Unit D5 Enterprise Interoperability Roadmap Consultation Meeting, 10 Jan 2006 in Brussels
2. M.D.Wilson TrustCom Framework for Trust and Contract Management. Presentation at the EU DG INFSO&Media Unit D5 Ecosystems cluster meeting, 10 Feb 2006 in Brussels
3. M.D.Wilson, TrustCom Framework for Trust and Contract Management. Presentation at the EU DG INFSO&Media Unit D5 Policy Workshop on "New Organisational Working Concepts for European SMEs' Competitiveness", 11 May 2006 in Brussels
4. M. D. Wilson, TrustCom Framework for Trust and Contract Management. Presentation at the EU DG INFSO&Media Workshop on Software and Service Architectures and Infrastructures, 24th January 2007 Brussels

Journal Articles & Book Chapters

1. D. Basin, J. Doser, T. Lodderstedt. "Model Driven Security: from UML Models to Access Control Infrastructures" in ACM Transactions on Software Engineering and Methodology, Vol. 15, Number 1, 2006
2. D.W. Chadwick. "Unifying Grid and Organisational Security Mechanisms" in "Security in Distributed, Grid, and Pervasive Computing", Edited by Prof. Yang Xiao, to be published by Auerbach Publications, CRC Press 2006
3. D.W.Chadwick. "Dynamic Delegation of Authority in Web Services" in "Securing Web Services: Practical Usage of Standards and Specifications". Edited by Dr Panayiotis Periorellis, Newcastle Univ. to be published by Idea Group Inc. early 2007
4. Theo Dimitrakos, *Formal Aspects in Security and Trust - FAST'06 conference proceedings*, Lecture Notes in Computer Science book series, Aug-06

5. Ivan Djordjevic, Theo Dimitrakos, Nadia Romano, Damian Mac Randall, Pierluigi Ritrovato, *Dynamic Security Perimeters for Inter-Enterprise Service Integration.*, Future Generation Computer Systems. The International Journal of Grid Computing: Theory, Methods and Applications, Elsevier Journals publisher. Dec-07
6. Paul Kearney, *Trust and Security in Virtual Organisations*, BT Technology Journal Vol. 24 No. 2, Apr-06
7. B. Sadighi Firozabadi and M. Sergot. The Role of Agreements in Virtual Organisations. In Scandinavian Studies in Law Volume 49 A Proactive Approach. Jure Law Books, Stockholm, 2006.
8. A Svirskas, B Roberts, M D Wilson TOWARDS ARCHITECTURE OF MANAGED DYNAMIC VIRTUAL ORGANISATIONS FOR E-BUSINESS COMMUNITIES
INTERNATIONAL JOURNAL OF WEB BASED COMMUNITIES 2 (2) (2006)
9. S.L.Keoh, E. Lupu and M. Sloman. Secure Formation, Evolution and Management of Ad-Hoc Communities. A revised version of the paper is in preparation for being re-submitted to ACM Transactions on Information Systems Security.

Technical Reports

Eds. M D Wilson, A Arenas, L Schubert (HLRS) The TrustCoM Framework for trust, security and contract management of web services and the Grid - V2, RAL Technical Reports, RAL-TR-2006-003 (2006)

Eds. E Lupu (Imperial College), M D Wilson State of the art survey on trust, security and contract management in web services and Grid computing RAL Technical Reports, RAL-TR-2006-009 (2006)

Other events where the Trustcom Leaflets have been distributed.

SICS Industry Day, March 27th, 2006. Stockholm, Sweden.

Y. Karabulut, Demo session chair on 4th international conference on trust management, Pisa, Italy

Ignacio Soler, The 3rd Grid@Asia & GFK 2006 International Joint Workshop, 11-13 Dec 2006, Seoul, Korea.

GGF10 – Athens (Feb 06), iTrust 2006 (May 06), ICNS'06 (July 06), FAST 2006 (Aug 06), ESFORS (Sept 06), European Grid Days (Sept 06), Challengers Workshop (Jan 07), ECOWS'06 (Dec 06), various BT customer events and Open Days (throughout the year), various BT customer interactions (throughout the year).

Other Press, industrial events etc...

1. D. Basin. "Model Driven Security" talk at the First International Conference on Availability, Reliability, and Security, April 2006, Vienna, Austria.

2. D. Basin. "Model Driven Security" talk at the Computer Science Department Seminar at University of Luxembourg, September 2006
3. D. Basin. "Data Protection: from Policies to Mechanisms" talk at the International Conference on Emerging Trends in Information and Communication Security (ETRICS2006), June 6-9 2006, Freiburg, Germany
4. D. Basin. "Data Protection: from Policies to Mechanisms" talk at the "Informatik 2006" Symposium of SwissICT, April 2006, Brunnen, Switzerland.
5. David Chadwick presented a research seminar at the University of Southampton, attended by the Computer Science department and the OMII development staff, entitled "Building a modular Authorisation infrastructure".
6. David Chadwick will also be giving the same presentation in February 2007 to the security researchers at Royal Holloway London.
7. Theo Dimitrakos, Ivan Djordjevic, Andreas Maierhofer , *Grid & Web Services Security / TrustCoM project presentation, Demonstration & presentation at One BT Security Event, March '06*
8. Theo Dimitrakos, Ivan Djordjevic, Andreas Maierhofer , *Grid & Web Services Security / TrustCoM project presentation, Demonstration & presentation at BT's ICT Venture Open Day, March '06*
9. Theo Dimitrakos, Ivan Djordjevic, Andreas Maierhofer , *Grid & Web Services Security / TrustCoM project presentation, Demonstration & presentation at BT's Strategic Research Open Day July-06*
10. Theo Dimitrakos , *SOA Security Gateway presentation Presentation at SAP Research, Palo Alto, USA July-06*
11. Theo Dimitrakos, David Brossard *Web Services Security Gateway demonstration (focus: Federated Access Control), Demonstration & Presentation at XACML3.0 vendor workshop, Nov-06*
12. Theo Dimitrakos, David Brossard *Web Services Security Gateway demonstration (focus: Federation Services) Demonstration & Presentation to IAM technologies, Adastral UK Nov-06*
13. Theo Dimitrakos, *Web Services Security Gateway demonstration (focus: federation services and XML security) Demonstration & Presentation to ESFORS workshop and NESSI - Security Technical Working Group, Paris Sep-06*
14. Pablo Giambiagi. Dynamic Virtual Organizations: Still a Chimera? SICS Industry Day, Stockholm, Sweden. March 27th, 2006.
15. Babak Sadighi, Erik Rissanen and Ludwig Seitz. Presentations of Delegent's access control model and architecture at BT Labs, Ipswich, UK. November, 2006

IST results service article on TrustCoM:

<http://istresults.cordis.europa.eu/index.cfm/section/news/tpl/article/BrowsingType/Features/ID/82577>

was used by Innovations Report, ITobserver, CRNAustralia and VNUNet:

http://www.innovations-report.com/html/reports/information_technology/report-67292.html

<http://www.it-observer.com/news.php?id=6553>

<http://www.crn.com.au/story.aspx?CIID=39862>

<http://www.vnunet.com/vnunet/news/2159719/euro-boffins-aim-build-online>

A reference to TrustCoM in the Spanish Association of Consulting Companies:

http://www.consultoras.org/frontend/plantillaAEC/noticia.php?id_noticia=4927&id_seccion=23

Annex 1: TrustCoM Archival Research Publications: 2004-2006.

1.2 Journal papers and Book chapters

1. Bandara A., E. Lupu and M. Sloman "Policy-based Management" submitted for consideration in view of publication in the Elsevier Handbook of Network and System Administration.
2. D. Basin, J. Doser, T. Lodderstedt. "Model Driven Security: from UML Models to Access Control Infrastructures" in ACM Transactions on Software Engineering and Methodology, Vol. 15, Number 1, 2006
3. E. Bertino, A. C. Squicciarini, I. Paloscia, L. Martino Ws-Ac: a fine grained Access Control model for Web Services World Wide Web, Kluwer. Status: Accepted for publication
4. E. Bertino, A. C. Squicciarini, L. Martino, F. Paci An adaptive Access Control model for Web Services International Journal of Web Services Research (JWSR).
5. E. Bertino, L. Martino "Security for Web Services - Standards, Systems and Research Issues". Chapter for a Springer-Verlag monograph on testing and analysis of Web services/service-oriented applications.
6. D.W. Chadwick. "Unifying Grid and Organisational Security Mechanisms" in "Security in Distributed, Grid, and Pervasive Computing", Edited by Prof. Yang Xiao, to be published by Auerbach Publications, CRC Press 2006
7. D.W.Chadwick. "Dynamic Delegation of Authority in Web Services" in "Securing Web Services: Practical Usage of Standards and Specifications". Edited by Dr Panayiotis Periorellis, Newcastle Univ. to be published by Idea Group Inc. early 2007
8. Theo Dimitrakos, Ivan Djordjevic, Damian Mac Randal, Mateo Gaeta, Pierluigi Ritrovato. **A Dynamic Security Perimeter Solution for Grid-enabled Virtual Organisations.** *Software Practice and Experience Journal.*
9. T. Dimitrakos, S. Ristol, M. Wilson. **TrustCoM: A Trust and Contract Management Framework for Dynamic Virtual Organisations.** *ERCIM News Magazine.* August 2004.
10. A.J.I. Jones and X. Parent, 'Normative-informational positions – a modal logical approach'. Submitted to a leading international journal.
11. A.J.I. Jones and X. Parent, 'A convention-based approach to Agent Communication Language'. Submitted to a leading international journal.
12. J. I. Jones and Steven O. Kimbrough, 'A Convention-Based Approach to a Formal Language for Business Communication'. Submitted to a leading international journal.
13. A.J.I. Jones and S. O. Kimbrough, 'A note on modelling speech acts as signalling conventions'. In S.O. Kimbrough and D.J. Wu, eds., *Formal*

Modelling in Electronic Commerce (FMEC), International Handbooks on Information Systems, pp. 325-342, Springer, Berlin, Germany, 2005, ISBN 3-540-21431-3

14. Claudia Keser, **WorkForce Management**, *Management Science*
15. B. Sadighi and M. Sergot. "The Role of Agreements in Virtual Organisations", the *Journal of Scandinavian Law Studies*, November 2005.
16. B. Sadighi Firozabadi and M. Sergot. The Role of Agreements in Virtual Organisations. In *Scandinavian Studies in Law Volume 49 A Proactive Approach*. Jure Law Books, Stockholm, 2006.
17. S.L.Keoh, E. Lupu and M. Sloman. Secure Formation, Evolution and Management of Ad-Hoc Communities. A revised version of the paper is in preparation for being re-submitted to *ACM Transactions on Information Systems Security*.
18. Mahler, Tobias; Bing, Jon. Contractual Risk Management in an ICT Context – Searching for a Possible Interface between Legal Methods and Risk Analysis. In Wahlgren, Peter. *A Proactive Approach. Scandinavian Studies in Law*, Vol. 49, 2006.
19. F. Vraalsen & Mahler, Tobias "Model-based enterprise security risk analysis using CORAS" in Idea Group book "Advances in Enterprise Information Technology Security".
20. Paper on approaches to federation in a BT Technology Journal issue on Identity Management. The paper makes use of knowledge gained within TrustCoM and references the TrustCoM web site and papers. The issue overall has been well received in BT and is being distributed to BT customers interested in Identity Management
21. A Svirskas, R Roberts, MD Wilson. Towards the architecture of managed dynamic virtual organisations for e-business communities, *International Journal Web Based Communities*, 2 (2) (2006).
22. Wilson MD Trust in computer mediated virtual organisations in Putnik & Cunha (Eds) *Encyclopedia of Networked and Virtual Organizations*, Idea Group Reference; accepted for publication.
23. Alvaro E. Arenas, Michael Wilson, Brian M. Matthews , Trust and Security in Virtual Organisations, Submitted to *Journal of Parallel and Distributed Computing*, special issue on security in grids and distributed systems Elsevier

1.3 Refereed Conference Papers

1. Alvaro Arenas, David Chadwick, Theo Dimitrakos, Jurgen Doser, Pablo Giambiagi, David Golby, Christian Geuer-Pollman, Jochen Haller, Stølen Ketil, Tobias Mahler, Lorenzo Martino, Xavier Parent, Santi Ristol, J Sairamesh, Lutz Schubert, Nilufer Tuptuk, The TrustCoM approach to

enforcing agreements between interoperating agents. Submitted to I-ESA '06, Bordeaux, France, March 2006.

2. A Arenas, I Djordjevic, T Dimitrakos (BT), L Titkov (BT), J Claessens (European Microsoft Innovation Centre), C Geuer-Pollman (European Microsoft Innovation Centre), E Lupu (Imperial College), N Tuptuk (Imperial College), S Wesner (High Performance Computing Centre Stuttgart), L Schubert (High Performance Computing Centre Stuttgart) Toward Web Services Profiles for Trust and Security in Virtual Organisations Proc. *6th IFIP Working Conference on Virtual Enterprises (PRO-VE 2005)*, Valencia, Spain, 26-28 Sep 2005
3. E.Bertino, E.Ferrari, G.Mella, "Flow Policies: Specification and Enforcement" Proceedings of 23rd IEEE International Performance Computing and Communication Conference, April 15-17, 2004, Phoenix (AZ).
4. E.Bertino, E.Ferrari, A.C.Squicciarini, L. D. Martino Trust-X: A comprehensive XML framework for trust negotiation. Accepted at eChallenges 2004 TrustCom workshop
5. E. Bertino, I.Ray, A.C.Squicciarini, E.Ferrari "Anonymity Preserving Techniques in Trust Negotiations". PET Workshop, Dubrovnik May 30th 2005.
6. E. Bertino, A.C. Squicciarini, D. Mevi, "A Fine-Grained Access Control Model for Web Services", IEEE International Conference on Services Computing (SCC'04), SHANGHAI, CHINA, September 15 - 18, 2004
7. E.Bertino, E.Ferrari, A.C.Squicciarini, "Privacy-Preserving Trust Negotiation". Accepted at *Workshop on Privacy Enhancing Technology (PET2004)*, Toronto (Canada), 26-28 May, 2004.
8. David Chadwick, 9th World Continuous Auditing and Reporting Symposium, May, 2005
9. David Chadwick, Operational Models for Reputation Systems, iTrust Conference, May 2005
10. David Chadwick, Terena Networking Conference, Gave presentation on Secure Audit Web Service, June 2005
11. Theo Dimitrakos Paul Kearney Ivan Djordjevic and Leonid Titkov Architecting a platform, iTrust 2005
12. Theo Dimitrakos, Paul Kearney, David Golby. **Towards a Trust and Contract Management Framework for Dynamic Virtual Organisations.** eChallenges 2004. IOS publishers.
13. T. DIMITRAKOS, I. DJORDJEVIC, D. MAC RANDAL, M. GAETA, G. LARIA, P. RITROVATO, N. ROMANO. **Enabling Dynamic Security Perimeters for Virtual Collaborations.** eChallenges 2004. IOS publishers.
14. Ivan Djordjevic, Theo Dimitrakos, Chris Philips **An Architecture for Dynamic Security Perimeters of Virtual Collaborative Networks** Proceedings of the 9th IEEE/IFIP Network Operations and Management Symposium (NOMS 2004) IEEE CS, (April 2004)

15. Ivan Djordjevic, Theo Dimitrakos **Towards Dynamic Security Perimeters for Virtual Collaborative Networks**. In Proceedings of the 2nd International Conference on Trust Management. Lecture Notes in Computer Science 2995, Springer-Verlag, (March 2004)
16. M. Gaeta, P. Ritrovato, G. Laria, N. Romano, S. Wesner, B. Serhan, T. Dimitrakos, D. Mac Randal. **Trust, Security and Contract Management Challenges for Grid-based Application Service Provision**. 2nd International Conference on Trust Management. Lecture Notes in Computer Science 2995, Springer-Verlag (March 2004)
17. Pablo Giambiagi, [Contract-Based Collaboration in Virtual Organizations \(TrustCoM's Perspective\)](#), 1st International Workshop on UN/CEFACT Modelling Methodology. March 10, 2005. Stockholm.
18. Christian Geuer-Pollmann, How to Make a Federation Manageable, Lecture Notes in Computer Science, Volume 3677, Sep 2005, Pages 330 – 338 CMS 2005, 9th IFIP TC-6 TC-11 Conference on Communications and Multimedia Security, 19-21 September 2005, Salzburg, Austria.
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