

# Policy Refinement Using Automatic Composition of Management Web Services in a Policy-based Autonomic Communications Environment



Das rasante und stetige Wachstum des Internets führt zu einer steigenden Komplexität der Netzwerk-Administration. Herkömmliches Netzwerk-Management, bei dem Administratoren von Hand statische Konfigurationen erstellen und anpassen, ist dieser steigenden Komplexität nur noch sehr eingeschränkt gewachsen. Ideal wäre es, wenn sich die Netze analog zum vegetativen Nervensystem des Menschen verhielten und eine ganze Reihe von Vitalfunktionen ohne Aktivierung der kognitiven Bereiche des Gehirns funktionierten. Dieses Verhalten wird oft als Autonomic Communications bezeichnet, wobei die kognitiven Bereiche hier der Arbeitskraft der Administratoren entspricht. Policy-basiertes Management wurde bereits vor 15 Jahren diskutiert. Netzadministratoren sollen dabei das gewünschte Verhalten der Netze mit Hilfe strukturierter Regeln (Policies) definieren. Zwar hat Policy-basiertes Management nur zum Teil Einzug in aktuelle Netzwerk-Komponenten gehalten, die bisherigen Forschungsergebnisse machen es jedoch zu einem geeigneten Baustein von Autonomic Communications. Um Automatisierung voranzubringen, muss es Administratoren möglich sein, das gewünschte Verhalten des Netzes lediglich mit Hilfe von Policies auf einer hohen Abstraktionsebene vorzugeben. Diese abstrakten Policies, die meist unabhängig von technischen Details sind, müssen dann auf konkretere, technische Policies heruntergebrochen werden (Policy Refinement), nach Möglichkeit automatisiert. In diesem Buch wird ein Policy-basiertes Management-System vorgeschlagen, das als Basis für eine Autonomic-Communications-Umgebung dienen soll. Der Schwerpunkt liegt dabei auf der Automatisierung des Refinement-Prozesses. Das entwickelte Verfahren verwendet eine Middleware, die auf Web-Services basiert. Sämtliche zu

administrierende Komponenten bieten  
Konfigurations- und  
überwachungsfunktionalität als  
Web-Service an. Diese Web-Services

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**Automatic Policy Refinement Using OWL-S and Semantic** Policy Refinement Using Automatic Composition of Management Web Services in a Policy-Based Autonomic Communications Environment [Torsten Klie] on **Academic paper: Automatic policy refinement using owl-s and** Jun 5, 2006 In this paper, we use policies, defined as configuration constraints on David Trastour , Robert Fink , Feng Liu, Changerefinery: assisted refinement of high-level IT Bio-inspired Policy Based Management (bioPBM) for Autonomic .. Domain-Independent, Composable Web Services Policy Assertions. **Towards Automatic Composition of Network Management Web** Policy Refinement Using Automatic Composition of Management Web Services in a Policy-based Autonomic Communications Environment. PhD-Dissertation **Policy Refinement Using Automatic Composition of Management** Jun 7, 2004 POLICY 04 Proceedings of the Fifth IEEE International Workshop on Policies for . conference on Modelling autonomic communication environments, on Application of Semantic Web Technologies to Web Communities, p.1-14, for an autonomic knowledge delivery service, Proceedings of the Second **Download - Council of European Professional Informatics Societies** Policy Refinement Using Automatic Composition of Management Web Services in a Policy-based Autonomic Communications Environment. PhD-Dissertation **Policy Refinement Using Automatic Composition of Management** Scopri Policy Refinement Using Automatic Composition of Management Web Services in a Policy-based Autonomic Communications Environment di Torsten **Policy Based Management for Internet Communities** 41 Autonomic Systems in Network and Service Management and Roaming in WiMAX, 3G and Wi-Fi Networks Using RII Composition: Jorge Llacer-Gil de Rames Universal, Ubiquitous and Intelligent. Web. (The full schedule of UPGRADE is available .. loop are controlled in turn by a policy based management. **Proceedings of the Seventh IEEE International Workshop on** Several authors propose the use of policy-based network management

(PBNM) Translating HLP into LLP is called policy refinement. In this paper, we will show the use of automatic Web services composition as a In this section, we will describe our proposed architecture for autonomic communications (see Figure 1). **L: Autonomic Policy-based Management using Web Services (PDF** Oct 29, 2007 Automatic Policy Refinement Using OWL-S and Semantic Policy Refinement with Web Service Composition Policy-based Network Management Autonomic Communications .. Use a lighter Web service environment. **Department of CS 12 - Torsten Klie - Lehrstuhl fur Informatik 12** Policy Refinement Using Automatic Composition of Management Web Services in a Policy-based Autonomic Communications Environment **Ontology-Based Network Management - ACM Digital Library** Things paradigm [2] as a refinement of Internet of Things has explored of the changes in users, devices or environmental context. aware composition application of smart things using policies munications protocol to Web-based communications protocol. been several researches for automatic service composition., **Policy Refinement Using Automatic Composition of Management** to explain how to refine user-level policies using SWRL rules into environment for traffic classification. The main management has prompted the emergence of policy-based . techniques for service composition and conflict analysis .. Modelling Autonomic Communications Environments, MACE, 2007, pp. 65. 79. **Autonomic Policy-based Management using Web Services** An autonomic management system to use Web services, a technology that is independent from and communication. Several based management have been recently developed (e.g. OASIS .. use aNeMaC effectively in a production environment, several technique for policy refinement in policy-based management. **Context-aware Service Composition Framework in Web-enabled** In the era of e-business, the traditional business services are greatly challenged by the ever-increasing demands from customers with various backgrounds a. This paper proposes a situation calculus based approach to dynamically manage can implement service model verification and automatic composition. **Autonomic Policy-based HAN Traffic Classification using** Automatisches Policy-Refinement mit Hilfe von semantischen Infrastruktur- Klie: Policy Refinement Using Automatic Composition of Management Web Services in a a Policy-based Autonomic Communications Environment. 2nd IEEE Int. Workshop on Modelling Autonomic Communications Environments (MACE), San **Introduction - Institut fur Betriebssysteme und Rechnerverbund** Sep 1, 2009 Ontology-Based Network Management: Study Cases and Lessons Learned . A., Berrocal, J.: Ontology-based policy refinement using SWRL rules for workshop on Modelling Autonomic Communications Environments, September 22-26, automatic composition of network management web services. **A Peer-to-Peer Registry for Network Management Web Services** Jun 7, 2004 POLICY 04 Proceedings of the Fifth IEEE International Workshop on Policies for . Bei-shui Liao , Ji Gao, An automatic policy refinement mechanism for workshop on Modelling Autonomic Communications Environments, Borje Ohlman, Goal-Based Service Creation Using Autonomic Entities, **Torsten Klie - Institut fur Betriebssysteme und Rechnerverbund** management. Semantic Web services, described in OWL-S, as well as policies work in a Home Area Network (HAN) environment and give an outlook on future research In this paper, we will show the use of automatic Web services composition as a 2 Policy-based Architecture for Autonomic Communications. **Policy Refinement Using Automatic Composition of Management** 26. Jan. 2011 As a staff member of the research group Communications and Multimedia at . Klie: Policy Refinement Using Automatic Composition of Management Web Services in a a Policy-based Autonomic Communications Environment. and Lars Wolf: Autonomic Policy-based Management using Web Services, **Cauldron: A Policy-Based Design Tool - ACM Digital Library** Bio-inspired Policy Based Management (bioPBM) for Autonomic Bio-inspired as communication technologies has led to an increase in network management complexity. . System with Automatic Policy Selection and Creation Capabilities by Using a . Domain-Independent, Composable Web Services Policy Assertions. **Informatik 12 - Torsten Klie - Lehrstuhl fur Informatik 12 - Friedrich** **Dynamic Management of e-Business Services: A Situation Calculus** Published in: International journal of business process integration and management : IJBPIIM. - Olney Policy refinement using automatic composition of management Web Services in a policy-based autonomic communications environment. Services with Real Workloads A Classification-Based Approach to Policy Refinement Networks An Autonomic Approach to Verify End-to-End Communication Quality Realising Adaptive Web Services through Automated Policy Refinement Towards Automatic Composition of Network Management Web Services **Semantic pattern templates for automating business choreography** Policy Refinement Using Automatic Composition of Management Web Services in a Policy-based Autonomic Communications Environment (Englisch) **Automatic Policy Refinement Using OWL-S and Semantic** Autonomic communication systems address this issue. Policy-based management is an approach to simplify management by the use of rules. Semantic Web services, described in OWL-S, as well as policies make use of our simple network Network (HAN) environment and give an outlook on future research challenges. **Torsten Klie -**

**Institut für Betriebssysteme und Rechnerverbund** uses Web services and automatic Web services composition as a complementary technique to policy refinement in order to automate policy-based management