

First Steps With WebSphere Message Broker: Application Integration for the Messy

Dave Crighton – WebSphere Message Broker L3 Service Delivery Lead
IBM Hursley – davicrig@uk.ibm.com

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Websphere Message Broker Performance Report

**Dino Quintero, Sebastien
Chabrolles, Chi Hui Chen, Murali
Dhandapani, Talor
Holloway, Chandrakant Jadhav, Sae Kee
Kim, Sijo Kurian, Bharath Raj, Ronan
Resende, Bjorn Roden, Niranjana
Srinivasan, Richard Wale, William
Zanatta, Zhi Zhang, IBM Redbooks**

Websphere Message Broker Performance Report:

Building Smarter Planet Solutions with MQTT and IBM WebSphere MQ Telemetry Valerie Lampkin, Weng Tat Leong, Leonardo Olivera, Sweta Rawat, Nagesh Subrahmanyam, Rong Xiang, Gerald Kallas, Neeraj Krishna, Stefan Fassmann, Martin Keen, Dave Locke, IBM Redbooks, 2012-09-07 MQ Telemetry Transport MQTT is a messaging protocol that is lightweight enough to be supported by the smallest devices yet robust enough to ensure that important messages get to their destinations every time. With MQTT devices such as smart energy meters, cars, trains, satellite receivers, and personal health care devices can communicate with each other and with other systems or applications. This IBM Redbooks publication introduces MQTT and takes a scenario-based approach to demonstrate its capabilities. It provides a quick guide to getting started and then shows how to grow to an enterprise-scale MQTT server using IBM WebSphere MQ Telemetry. Scenarios demonstrate how to integrate MQTT with other IBM products including WebSphere Message Broker. This book also provides typical usage patterns and guidance on scaling a solution. The intended audience for this book ranges from new users of MQTT and telemetry to those readers who are looking for in-depth knowledge and advanced topics.

IBM Operational Decision Management V8.0 Performance Tuning Guide David Granshaw, Daniel McGinnes, Pierre-Andre Paumelle, IBM Redbooks, 2013-01-29 IBM Operational Decision Management ODM is a family of products used by IT and business users to create and manage business decision logic throughout their organization. This IBM Redpaper™ publication offers advice on all aspects of performance including hardware architecture, authoring, quality of service, monitoring, and tuning. The advice is based upon preferred practices and experience gained from real customer situations. This paper is aimed at a wide ODM audience including IBM employees and customers and provides useful information to both new and experienced users. Although the product family is known as IBM WebSphere Operational Decision Management WODM at V8.0 with V8.0.1, the name is now simply IBM Operational Decision Manager ODM. The performance information in this paper is based on V8.0 of this product family and differences introduced with V8.0.1 are pointed out.

High Availability in WebSphere Messaging Solutions Bhushan Bharat, Sook Chua, Carolyn Elkins, Mark Scicluna, Wei-Dong Yang, IBM Redbooks, 2010-05-02 This IBM Redbooks publication is for anyone needing to increase WebSphere messaging availability, especially people interested in the new capabilities of WebSphere MQ and WebSphere Message Broker. It discusses and demonstrates solutions to provide high availability for WebSphere Messaging solutions. For the distributed platforms, this ranges from the traditional PowerHA™ for AIX to the new WebSphere MQ multi-instance queue managers and WebSphere Message Broker multi-instance brokers. For the appliance users, we included solutions for WebSphere DataPower. For enterprises that need continuous availability of WebSphere MQ messages, MQ Queue Sharing Groups and the CICS Group Attach features are demonstrated. The book includes guidance on HA options such as when you might need PowerHA or a similar solution for your platform when the multi-instance features work for your applications and when duplexing the coupling facility.

structures might be appropriate **InfoSphere Data Replication for DB2 for z/OS and WebSphere Message Queue**

for z/OS: Performance Lessons Miao Zheng,Ning Jiang Bin,Song Xiao Yu,Serge Bourbonnais,Yi Jin,IBM

Redbooks,2012-12-22 Understanding the impact of workload and database characteristics on the performance of both DB2 MQ and the replication process is useful for achieving optimal performance Although existing applications cannot generally be modified this knowledge is essential for properly tuning MQ and Q Replication and for developing best practices for future application development and database design It also helps with estimating performance objectives that take these considerations into account Performance metrics such as rows per second are useful but imperfect How large is a row It is intuitively and correctly obvious that replicating small DB2 rows such as 100 bytes long takes fewer resources and is more efficient than replicating DB2 rows that are tens of thousand bytes long Larger rows create more work in each component of the replication process The more bytes there are to read from the DB2 log makes more bytes to transmit over the network and to update in DB2 at the target Now how complex is the table definition Does DB2 have to maintain several unique indexes each time a row is changed in that table The same argument applies to transaction size committing each row change to DB2 as opposed to committing say every 500 rows also means more work in each component along the replication process This Redpaper™ reports results and lessons learned from performance testing at the IBM laboratories and it provides configuration and tuning recommendations for DB2 Q Replication and MQ The application workload and database characteristics studied include transaction size table schema complexity and DB2 data type **IBM Power Systems**

Performance Guide: Implementing and Optimizing Dino Quintero,Sebastien Chabrolles,Chi Hui Chen,Murali

Dhandapani,Talor Holloway,Chandrakant Jadhav,Sae Kee Kim,Sijo Kurian,Bharath Raj,Ronan Resende,Bjorn Roden,Niranjan Srinivasan,Richard Wale,William Zanatta,Zhi Zhang,IBM Redbooks,2013-05-01 This IBM Redbooks publication addresses performance tuning topics to help leverage the virtualization strengths of the POWER platform to solve clients system resource utilization challenges and maximize system throughput and capacity We examine the performance monitoring tools utilities documentation and other resources available to help technical teams provide optimized business solutions and support for applications running on IBM POWER systems virtualized environments The book offers application performance examples deployed on IBM Power Systems™ utilizing performance monitoring tools to leverage the comprehensive set of POWER virtualization features Logical Partitions LPARs micro partitioning active memory sharing workload partitions and more We provide a well defined and documented performance tuning model in a POWER system virtualized environment to help you plan a foundation for scaling capacity and optimization This book targets technical professionals technical consultants technical support staff IT Architects and IT Specialists responsible for providing solutions and support on IBM POWER systems including performance tuning *Managing Traffic Performance in Converged Networks* Lorne

Mason,Tadeusz Drwiega,James Yan,2007-09-04 This book constitutes the refereed proceedings of the 10th International

Teletraffic Congress ITC 2007 held in Ottawa Canada June 2007 Coverage includes IPTV planning and modeling network performance traffic engineering end to end delay in converged networks queuing models impact of convergence and divergence forces on network performance traffic management in wireless networks and network design for capacity and performance WebSphere Message Broker V7.0 Integration with WebSphere Adapter for SAP Software Ernese Norelus,Sreekumar Rajagopalan,IBM Redbooks,2010-02-16 This IBM Redpaper™ publication describes how to get started using WebSphere Adapter for SAP Software with WebSphere Message Broker These products enable processes and components to be integrated to include the exchange of information with an SAP server without special coding This paper shows how to use an adapter an application component to send requests to the SAP server or to receive events from the server The adapter creates a standard interface to the applications and data on the SAP server so that the developer of the application component does not have to understand the lower level details the implementation of the application or the data structures on the SAP server **IBM WebSphere MQ V7.1 and V7.5 Features and Enhancements** Cezar Aranha,Craig Both,Barry Dearfield,Carolyn (Lyn) Elkins,Alexander Ross,Jamie Squibb,Mark Taylor,IBM Redbooks,2013-02-28 This IBM Redbooks publication is divided into four parts Part 1 introduces message oriented middleware and the WebSphere MQ product It explains how messaging technologies are implemented in WebSphere MQ and shows how to get started with configuring a WebSphere MQ environment This part briefly lists the new features of WebSphere MQ V7 1 and V7 5 Part 2 introduces the enhancements to WebSphere MQ in Version 7 Release 1 It provides a description of the new features their business value and usage examples It describes enhancements to WebSphere MQ for multiplatforms and z OS Examples of features that are discussed in this part include multiple installation support for multiplatforms enhanced security with channel authentication records enhanced clustering improved availability and scalability on z OS and more Part 3 introduces the enhancements to WebSphere MQ in Version 7 Release 5 for multiplatforms It provides a description of the new features their business value and usage examples Examples of enhancements that are discussed in this part include new installation options such as the bundling of WebSphere MQ Advanced Message Security and WebSphere MQ Managed File Transfer Part 4 contains practical scenarios that demonstrate how the new features and enhancements work and how to use them In summary the introduction gives a broad understanding of messaging technologies and WebSphere MQ It helps you understand the business value of WebSphere MQ It provides introductory information to help you get started with WebSphere MQ No previous knowledge of the product and messaging technologies is assumed The remaining parts of this book discuss enhancements to previous versions of WebSphere MQ The information helps you understand the benefits of upgrading to WebSphere MQ V7 1 and V7 5 and how to implement the new functions Knowledge of WebSphere MQ V7 0 and earlier versions is assumed This book provides details about IBM WebSphere MQ product features and enhancements that are required for individuals and organizations to make informed application and design decisions prior to implementing a

WebSphere MQ infrastructure or begin development of a WebSphere MQ application This publication is intended to be of use to a wide ranging audience *IBM Intelligent Operations Center 1.6 Programming Guide* Hisham Abdel-Hafez, Sriram Balakrishnan, Jamie Caffrey, Eduardo Francellino, Sunil Mishra, Teresa Nascimento, Jayashree Ravichandran, Craig Scott, Nikolay Vlasov, IBM Redbooks, 2014-05-28 IBM Intelligent Operations Center is an integrated solution It provides a rich set of capabilities and line of business tools that business users with domain expertise and no technical background can use without customization IBM Intelligent Operations Center also provides services and extension points that developers can use to extend the IBM Intelligent Operations Center standard functions and develop capabilities specific to the domain and client requirements IBM Intelligent Operations Center includes an application based programming model that supports all the interactions with the solution components The programming model is based on industry standard Representational State Transfer REST and Java technologies IBM Intelligent Operations Center includes a full set of REST and Java application programming interfaces APIs that provide a simplified development environment and make the platform easy to extend and customize for a large community of developers This IBM Redbooks publication gives a broad understanding of the IBM Intelligent Operations Center 1 6 0 1 programming model and available extension points Many of the chapters describe working examples and usage scenarios that demonstrate how to extend the IBM Intelligent Operations Center base platform This book includes sample code that can be downloaded from the IBM Redbooks website The target audience for this book consists of solution architects developers technical consultants and solution administrators who will learn the following information The options available to extend the IBM Intelligent Operations Center solution programmatically How to configure customizations tailored to specific customer requirements How to use the available configuration tools to configure the solution without requiring programming Readers of this book will benefit from the IBM Redbooks publication *IBM Intelligent Operations Center 1 5 to 1 6 Migration Guide* SG24 8202 *Using WebSphere Message Broker V8 in Mid-Market Environments* Carla Sadtler, Vinicius D. G. Braganca, Minsung Byun, David Crighton, Kiran Darbha, Jefferson Lowrey, Pavel Malyutin, Abhinav Priyadarshi, Rashmi Katagall, IBM Redbooks, 2012-08-31 IBM WebSphere Message Broker is a lightweight advanced enterprise service bus ESB that provides a broad range of integration capabilities that enable companies to rapidly integrate internal applications and connect to partner applications Messages from business applications can be transformed augmented and routed to other business applications The types and complexity of the integration required will vary by company application types and a number of other factors Processing logic in WebSphere Message Broker is implemented using message flows Through message flows messages from business applications can be transformed augmented and routed to other business applications Message flows are created by connecting nodes together A wide selection of built in nodes are provided with WebSphere Message Broker These nodes perform tasks that are associated with message routing transformation and enrichment Message flows are created and tested using the Message Broker Toolkit a sophisticated easy

to use programming tool that provides a full range of programming aids This IBM Redbooks publication focuses on two specific integration requirements that apply to many midmarket companies The first is the ability to use WebSphere Message Broker to integrate Microsoft NET applications into a broader connectivity solution WebSphere Message Broker V8 introduces the ability to integrate with existing Microsoft NET Framework applications A NET assembly can be called from within a message flow and the WebSphere Message Broker runtime can host and run NET code Solutions explored in this book cover connectivity to applications using Windows Communications Framework WCF Microsoft Message Queuing Microsoft Dynamics CRM and other Microsoft applications The second is the ability to integrate WebSphere Message Broker with file transfer networks specifically with WebSphere MQ File Transfer Edition and IBM Sterling Connect Direct *IBM PowerVM Virtualization Managing and Monitoring* Scott Vetter, Sergio Guilherme Bueno, Martin Capka, Ingo Dimmer, Tatum Farmer, Rafael Folco, Cesar Diniz Maciel, KyoungHun Min, Stephen Tremain, Steve Wallace, IBM Redbooks, 2014-06-30 IBM PowerVM virtualization technology is a combination of hardware and software that supports and manages the virtual environments on POWER5 POWER5 IBM POWER6 and IBM POWER7 based systems PowerVM is available on IBM Power Systems™ and IBM BladeCenter servers as optional Editions and is supported by the IBM AIX IBM i and Linux operating systems You can use this set of comprehensive systems technologies and services to aggregate and manage resources by using a consolidated logical view Deploying PowerVM virtualization and IBM Power Systems offers you the following benefits Lower energy costs through server consolidation Reduced cost of your existing infrastructure Better management of the growth complexity and risk of your infrastructure This IBM Redbooks publication is an extension of IBM PowerVM Virtualization Introduction and Configuration SG24 7940 It provides an organized view of best practices for managing and monitoring your PowerVM environment concerning virtualized resources managed by the Virtual I O Server

Considerations for Transitioning Highly Available Applications to System z Alex Louwe Kooijmans, Fernando Gieseler, Christopher Hastings, Stuart Kopel, David Kra, James Mitchell, Eduardo Costa de Oliveira, Michael Onoufriou, Dore Teichman, David Ward, IBM Redbooks, 2011-10-14 You may have several triggers to investigate the feasibility of moving a workload or set of workloads to the IBM System z platform These triggers could be concerns about operational cost manageability or delivering the agreed service levels among others Investigating the feasibility of a possible migration or transition to any other platform including System z requires a number of basic steps These steps usually start with an understanding of the current workload and its pain points and end with a business case to move the workload It is important to find out how easy a migration is going to be and how much risk will be involved In this IBM Redbooks publication we offer thoughts on how to move through these steps We also include a chapter with a System z technology summary to help you understand how a migrated workload may fit on the platform Our focus in this book is on workloads that are mission critical and require a high level of availability including disaster recovery *The Complete Guide to CICS Transaction Gateway*

Volume 1 Configuration and Administration Rufus Credle, Sue Bayliss, Leigh Compton, Robert Jones, Manuela Mandelli, Richard Mercadante, IBM Redbooks, 2014-08-08 In this IBM Redbooks publication you will gain an appreciation of the IBM CICS Transaction Gateway CICS TG product suite based on key criteria such as capabilities scalability platform CICS server support application language support and licensing model Matching the requirements to available infrastructure and hardware choices requires an appreciation of the choices available In this book you will gain an understanding of those choices and will be capable of choosing the appropriate CICS connection protocol APIs for the applications and security options You will understand the services available to the application developer when using a chosen protocol You will then learn about how to implement CICS TG solutions taking advantage of the latest capabilities such as IPIC connectivity high availability and Dynamic Server Selection Specific scenarios illustrate the usage of CICS TG for IBM z OS and CICS TG for Multiplatforms with CICS Transaction Server for z OS and IBM WebSphere Application Server including connections in CICS configuring simple end to end connectivity all platforms with verification for remote and local mode applications and adding security XA support and high availability

Benefits of Configuring More Memory in the IBM z/OS Software Stack Mark Wisniewski, Brenda Beane, David Betten, Clark Goodrich, Akiko Hoshikawa, David Herr, Catherine Moxey, Tony Sharkey, Pete Siddall, Robin Tanenbaum, Elpida Tzortzatos, David L Zhang, IBM Redbooks, 2017-02-18 Significant performance benefits can be realized by increasing the amount of memory that is assigned to various functions in the IBM z OS software stack operating system and middleware products IBM DB2 and IBM MQ buffer pools dump services and large page usage are just a few of the functions whose ease of use and performance can be improved when more memory is made available to them The following benefits can realized Reduced I O operations Reduced CPU usage Improved transaction response time Potential cost reductions Although the magnitude of these improvements can vary widely based on several factors including potential I Os to be eliminated resource contention workload configuration and tuning clients must carefully consider whether their environment can benefit from the addition of memory to the software functions that are described in this IBM Redpaper™ publication This paper describes the performance implications of increasing memory in the following areas DB2 buffer pools DB2 tuning IBM Cognos Dynamic Cubes MDM with larger DB2 buffer pools Java heaps and Garbage Collection tuning and Java large page use MQ v8 64 bit buffer pool tuning Enabling more in memory use by IBM CICS without paging TCP IP FTP DFSort I O reduction Fixed pages and fixed large pages

IBM MQ V8 Features and Enhancements Rufus Credle, Carolyn Elkins, Peter Hayward, Valerie Lampkin, Matthew Leming, Jonatan Maya Sanchez, Mark Taylor, Mark Wilson, IBM Redbooks, 2014-10-02 The power of IBM MQ is its flexibility combined with reliability scalability and security This flexibility provides a large number of design and implementation choices Making informed decisions from this range of choices can simplify the development of applications and the administration of an MQ messaging infrastructure Applications that access such an infrastructure can be developed using a wide range of programming paradigms and languages These

applications can run within a substantial array of software and hardware environments Customers can use IBM MQ to integrate and extend the capabilities of existing and varied infrastructures in the information technology IT system of a business IBM MQ V8.0 was released in June 2014 Before that release the product name was IBM WebSphere MQ This IBM Redbooks publication covers the core enhancements made in IBM MQ V8 and the concepts that must be understood A broad understanding of the product features is key to making informed design and implementation choices for both the infrastructure and the applications that access it Details of new areas of function for IBM MQ are introduced throughout this book such as the changes to security publish subscribe clusters and IBM System z exploitation This book is for individuals and organizations who make informed decisions about design and applications before implementing an IBM MQ infrastructure or begin development of an IBM MQ application

IBM Intelligent Operations Center V1.5 to V1.6 Migration Guide Sriram Balakrishnan, Tony Carrato, Sunil Mishra, Pam Nesbitt, Diwakar Puthalapatt, Craig Scott, Jun Xia Zhou, IBM Redbooks, 2014-05-09 IBM Intelligent Operations Center is an integrated solution and a continually evolving platform and set of capabilities The platform grows as the capabilities increase over time and new interfaces and integration points are introduced in each release The purpose of this IBM Redbooks publication is to guide planners architects and implementers through the options that they have to take advantage of the new capabilities and maximize the benefits of moving to the new release This book considers what has already been deployed with IBM Intelligent Operations Center V1.5 the benefits of the new version IBM Intelligent Operations Center V1.6.0.1 and the best way to take advantage of the new capabilities as you transition IBM Intelligent Operations Center has several integration and extension points for the previous and current versions of the product which points are documented and described in this book This IBM Redbooks publication describes options and considerations for the best way to migrate customizations and benefit from the new architecture Thorough details about the differences between the prior and new versions of the product are provided to enable a clear understanding of migration choices options and preferred practices This book includes descriptions of the trade offs for each migration option and in depth information about data flows available tools and scripting changes that might affect existing IBM Intelligent Operations Center installations This book is targeted to the following audiences Line of business managers or stakeholders who are interested in understanding the new features in IBM Intelligent Operations Center V1.6 and who are looking for information about how to plan the migration of their current IBM Intelligent Operations Center V1.5 environments Architects who need to understand the effect that IBM Intelligent Operations Center V1.6 will have on the architecture of IBM Intelligent Operations Center V1.5 solutions IT specialists and product specialists who are responsible for implementing the migration of a solution based on IBM Intelligent Operations Center V1.5 to a V1.6 solution Readers of this book will benefit from the IBM Redbooks publication IBM Intelligent Operations Center 1.6 Programming Guide SG24 8201

IMS 12 Selected Performance Topics Paolo Bruni, Rafael Avigad, James Martin, Maiko Mizuki, Bhups Narsi, John

Schlatweiler, IBM Redbooks, 2013-01-08 IBM Information Management System IMSTM provides leadership in performance reliability and security to help you implement the most strategic and critical enterprise applications IMS IMS utilities and IMS tools continue to evolve to provide value and meet the needs of enterprise customers With IMS 12 integration and open access improvements provide flexibility and support business growth requirements Scalability improvements have been made to the well known performance efficiency availability and resilience of IMS by using 64 bit storage In this IBM Redbooks publication we provide IMS performance monitoring and tuning information by describing the key IMS performance functions and by showing how to monitor and tune them with traditional and new strategic applications This book is for database administrators and system programmers We summarize methods and tools for monitoring and tuning IMS systems describe IMS system wide performance database and transaction considerations Based on lab measurements we provide information about recent performance enhancements that are available with IMS 12 and advice about setting performance related parameters

Reliability and Performance with IBM DB2 Analytics Accelerator V4.1 Paolo Bruni, Jason Arnold, Leticia Cruz, Jeff Feinsmith, Willie Favero, Anna Griner, James Guo, Chris Harlander, Johannes Kern, Ravi Kumar, Ruiping Li, Andy Perkins, Jonathan Sloan, Steve Speller, Dino Tonelli, IBM Redbooks, 2015-05-11 The IBM DB2 Analytics Accelerator for IBM z OS is a high performance appliance that integrates the IBM zEnterprise infrastructure with IBM PureData™ for Analytics powered by IBM Netezza technology With this integration you can accelerate data intensive and complex queries in a DB2 for z OS highly secure and available environment DB2 and the Analytics Accelerator appliance form a self managing hybrid environment running online transaction processing and online transactional analytical processing concurrently and efficiently These online transactions run together with business intelligence and online analytic processing workloads DB2 Analytics Accelerator V4.1 expands the value of high performance analytics DB2 Analytics Accelerator V4.1 opens to static Structured Query Language SQL applications and row set processing minimizes data movement reduces latency and improves availability This IBM Redbooks publication provides technical decision makers with an understanding of the benefits of version 4.1 of the Analytics Accelerator with DB2.11 for z OS It describes the installation of the new functions and the advantages to existing analytical processes as measured in our test environment This book also introduces the DB2 Analytics Accelerator Loader V1.1 a tool that facilitates the data population of the DB2 Analytics Accelerator

End to End Performance Management on IBM i Hernando Bedoya, Mark Roy, Nandoo Neerukonda, Petri Nuutinen, IBM Redbooks, 2009-11-23 Monitoring and managing your system's performance is critical to ensure that you are keeping pace with the changing demands of your business To respond to business changes effectively your system must change too Managing your system at first glance might seem like just another time consuming job But the investment soon pays off because the system runs more efficiently and this is reflected in your business It is efficient because changes are planned and managed Managing performance of any system can be a complex task that requires a thorough understanding of that system

s hardware and software IBM i is an industry leader in the area of performance management and has many qualities that are not found in other systems such as Unparalleled performance metrics Always on collection of metrics Graphical investigation of performance data While understanding all the different processes that affect system performance can be challenging and resolving performance problems requires the effective use of a large suite of tools the functions offered by IBM i are intended to make this job easier for users This IBM Redbooks publication explains the tasks and rich tools associated with performance management on IBM i *IBM Business Process Manager V8.5 Performance Tuning and Best Practices* Mike Collins,Zi Hui Duan,Andreas Fried,Ben Hoflich,Chris Richardson,Torsten Wilms,IBM Redbooks,2015-02-24 This IBM Redbooks publication provides performance tuning tips and best practices for IBM Business Process Manager IBM BPM V8 5 5 all editions and IBM Business Monitor V8 5 5 These products represent an integrated development and runtime environment based on a key set of service oriented architecture SOA and business process management BPM technologies Such technologies include Service Component Architecture SCA Service Data Object SDO Business Process Execution Language BPEL for web services and Business Processing Modeling Notation BPMN Both IBM Business Process Manager and Business Monitor build on the core capabilities of the IBM WebSphere Application Server infrastructure As a result Business Process Manager solutions benefit from tuning configuration and best practices information for WebSphere Application Server and the corresponding platform Java virtual machines JVMs This book targets a wide variety of groups both within IBM development services technical sales and others and customers For customers who are either considering or are in the early stages of implementing a solution incorporating Business Process Manager and Business Monitor this document proves a useful reference The book is useful both in terms of best practices during application development and deployment and as a reference for setup tuning and configuration information This book talks about many issues that can influence performance of each product and can serve as a guide for making rational first choices in terms of configuration and performance settings Similarly customers who already implemented a solution with these products can use the information presented here to gain insight into how their overall integrated solution performance can be improved

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