BRMF (Business Resource Management Framework)

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1. Datasheet

Solution data	
Name	BRMF (Business Resource Management Framework)
Result type	Platform or platform component
Description/functionality	The BRMF is a middleware solution that supports the creation of distributed business applications on top of a general purpose, industry grade P2P infrastructure. It enables decentralized management of business resources, such as business documents, business services, or product models, that are developed and controlled by different, loosely coupled partners. For these applications, BRMF provides a virtualization layer that enables controlled publishing, sharing, and synchronization of resources in a distributed network – without necessarily implying the existence of a central control instance or repository.This makes the BRMF approach particularly suitable for use in open, dynamic business applications as they occur in the context of Virtual Enterprises, outsourcing, and re-organizations caused by mergers and acquisitions activities.
	BRMF is not a stand-alone interoperability solution. It offers a flexible and distributed/decentralized information and collaboration space infrastructure which can be combined with technologies and solutions such as model-driven development, ontologies, and agent technology to leverage the scope of today's interoperability solutions towards a higher degree of openness, scalability, flexibility, and adaptability.
Benefits to interoperability	• Basic execution environment for document-centric, event-driven business processes: easily develop new business applications with focus on rapidly changing event driven processes requiring collaborative management/tracking of changes to shared business documents or business objects • Environment for decentralized management of business documents, services, and different types of models (e.g. product models): basic interoperability infrastructure, on top of which different applications can be networked in order

	to share resources of common interest, and make them available to developers or other business communities in an open and dynamic way. • Run-time adaptability and communication interoperability for web services and BP execution engines: basic communication functionality allowing web service communication across network barriers such as NAT routers and firewalls with only minimal configuration overhead required.
Supported models/methodologies	-
Supported input interfaces	-
Supported output interfaces	-
Validation/demonstration	Validation through two demonstrators, a proof-of-concept distributed workflow demonstrator (travel expense claim) showing robust BP execution, and a collaborative document revision demonstrator using the Automotive collaborative product development scenario (sourcing phase). Further validation in B5 testing and piloting activities in Year 3 of ATHENA.
Standards compliance	Use of web service standards (XML, WSDL); architectural supports for integration of application level standards
Availability	-
License	-
Status	Prototype
Requirements/dependencies	• Requires Java 5, network connection. • Uses the Siemens Resource Management Framework, which is not publicly available outside of ATHENA.
Web references	
ATHENA metadata	
Contact person	Jörg Müller, SIEMENS
Contributors	SIEMENS
Provided by project/activity	• A6 – Model-driven and Adaptive Interoperability Architectures

Deliverables representing result	-
Contribution to key result	• 13. Model-driven and Adaptable Interoperability Framework and Infrastructure
Used in pilot	-
Deliverable providing evaluation	-