

# D4.1



## Process-Model for Accounting

Version 1.0

### WP 4 Implementation of Accounting and Billing

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# Abbreviations

<b>AA</b>	Assertion Authority
<b>API</b>	Application Programming Interface
<b>BES</b>	Basic Execution Service
<b>CAS</b>	Community Authorization Framework
<b>CIM</b>	Common Information Model
<b>CIS</b>	Credential Issuing Service
<b>CVS</b>	Credential Validation Service
<b>DMTF</b>	Distributed Management Task Force
<b>DSA</b>	Digital Signature Algorithm
<b>ECDSA</b>	Elliptic Curve DSA
<b>GLUE</b>	Grid Laboratory Uniform Environment
<b>ISV</b>	Independent Software Vendor
<b>JDD</b>	Job Description Document
<b>JSDL</b>	Job Submission Description Language
<b>JSR</b>	Java Specification Request
<b>LRM</b>	Local Resource Manager
<b>MD5</b>	Message Digest algorithm 5
<b>OASIS</b>	Organization for the Advancement of Structured Information Standards
<b>OGF</b>	Open Grid Forum
<b>OGSA</b>	Open Grid Service Architecture
<b>PDP</b>	Policy Decision Point
<b>PEP</b>	Policy Enforcement Point
<b>PIP</b>	Policy Information Point
<b>RSA</b>	Rivest, Shamir, Adleman
<b>SAM</b>	Software Asset Management

<b>SAML</b>	Security Assertion Mark-up Language
<b>SHA</b>	Secure Hash Algorithm
<b>SP</b>	Service Provider
<b>SPL</b>	Simple Policy Language
<b>UVOS</b>	UNICORE Virtual Organization Service
<b>VOMS</b>	VOMS is an acronym used for Virtual Organization Membership Service in grid computing
<b>W3C</b>	World Wide Web Consortium
<b>WSN</b>	Web Service Notification
<b>WSRF</b>	Web Service Resource Framework
<b>X.509</b>	A standard for Public-Key Infrastructures
<b>XACML</b>	eXtensible Access Control Mark-up Language

# 1. Summary

This deliverable addresses the process-model for accounting and billing. It is structured in four main parts. The first chapter gives a general overview of the accounting and billing architecture. Two main scenarios are discussed. The second chapter details the actual accounting process. SmartLM will be a token-based system. The accounting process hence will regard the token both as a record and also as a symbolical receipt with an associated price. The pricing models and the associated billing then will be discussed in chapter three. The final chapter discusses the interface to the accounting and billing systems. A portal-based aggregation over the respective license services will be employed. The document concludes with a summary.