

DRAFT – Work in progress



Developing e-Framework SUMs from technical documentation

Grid Enabling MIMAS Services project (known as GEMS project)

GEMS-I A grid enabled Census data querying service

Version & Status	Date	Author	Current affiliation	Project
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Business Processes

- 1) Authentication and Authorization (security is omnipresent)
- 2) Connecting the SQLServer databases holding the 2001 aggregate Census data directly to the Grid via the National Grid Service (NGS¹)
- 3) Grid-enabling the current data access system (Casweb²) to facilitate ease of use

Technical specification of the functionality provided (source: GEMS Website ³)	Service Genres	Business Process
Upload query results to a Grid/File Transfer Protocol (FTP) server	○ Data transfer	1, 2, 3
View SQL generated by user interface for further integration into an OGSA-DAI client	○ Generate dataset query ○ View dataset query	1, 3
Redirect query results to a grid service/OGSA-DAI activity for further processing	○ Data transfer	1, 2, 3
Bulk upload query results to a user specified OGSA-DAI enabled database	○ Data transfer	1, 3
Integration of table metadata into query results	○ Data integration	1, 2, 3
Transform query result into a variety of formats (e.g. CSV, HTML) by employing built in Java/SAX transformation code	○ Convert formats	1, 2, 3
Convert query results from a target to a user selected source geography	○ Convert formats	1, 2, 3

¹ National Grid Service (NGS), <http://www.grid-support.ac.uk/>

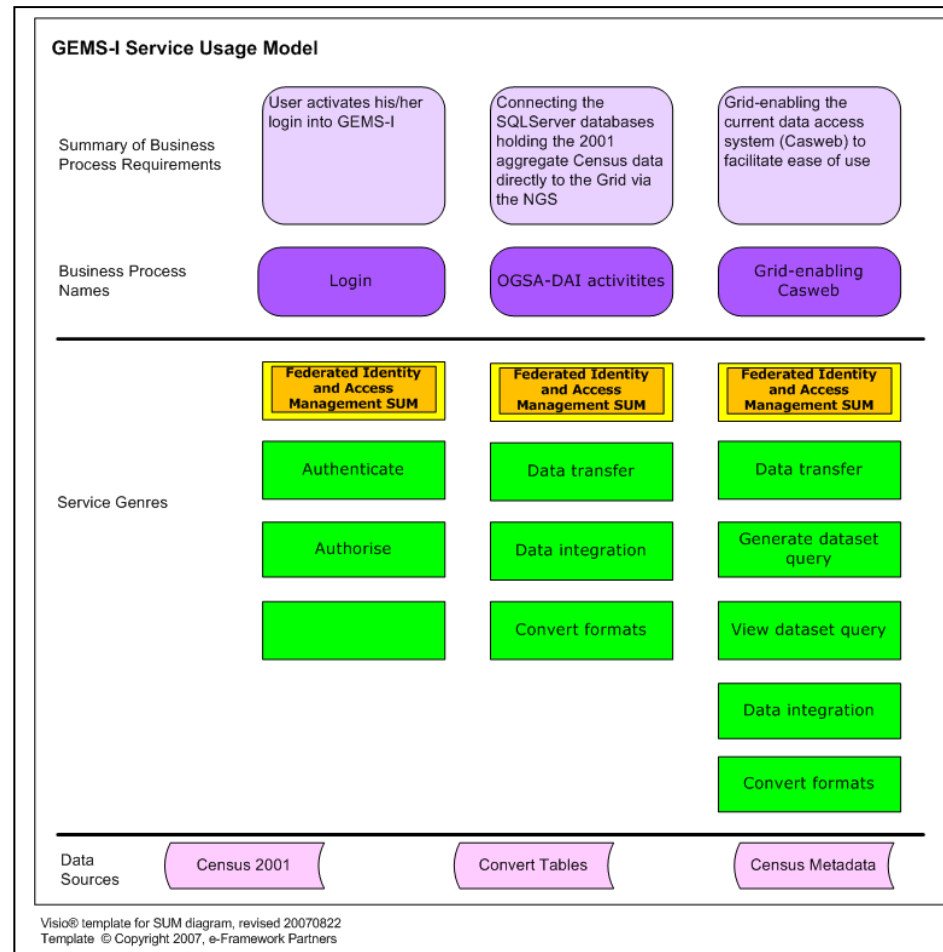
² Casweb, <http://casweb.mimas.ac.uk/>

³ GEMS, <http://pascal.mvc.mcc.ac.uk:9080/gems>



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e-Framework SUM diagram⁴



⁴ Generic SUM diagram, <http://www.e-framework.org/Default.aspx?tabid=760>