

# BioMedIT Base Package

## PHI\_TRD-007 BioMedIT Base Package

### V 0.1 (04.02.2022)

The BioMedIT network provides access to secure & cutting-edge IT environments for sensitive health related data processing in Switzerland. Research projects onboarded to the BioMedIT network get access to a set of services specified in the BioMedIT base package as standard.

Services used by SPHN projects under the scope and limits specified by the BioMedIT base package are already prepaid by the Swiss Confederation, thus available free of charge to them. Usage of services beyond the scope and/or scale mentioned under the base package by a research project is possible and can be arranged by setting up a separate SLA between the project, the concerned BioMedIT nodes and the SPHN DCC.

The BioMedIT base package provides access to the following services:

Service	Service Description	Package Description
Secure Project Space	A <b>secure project space</b> represents an <b>environment for data storage, management and analysis</b> . The secure project space service includes <b>secure data transfers</b> from data providers to the project space. A secure project space and all its resources (i.e., data, user access, compute node(s) and software applications) are under the responsibility and accountability of a Project Leader and are completely separated from other secure project spaces on BioMedIT.	<ul style="list-style-type: none"> <li>• <b>Compute resources quota:</b> 20 TB storage, 20 CPU cores and 32 GB RAM</li> <li>• <b>Access technologies:</b> <ul style="list-style-type: none"> <li>- Remote desktop (accessed via a jump host such as Guacamole or equivalent)</li> <li>- User Access using SWITCHedu-ID accounts and 2-factor-authentication (<a href="http://eduid.ch">eduid.ch</a>)</li> <li>▪ IP-white listing of user's location the institution's network range (LAN and/or VPN)</li> <li>- Optionally, HPC scheduler (LSF or SLURM)</li> </ul> </li> <li>• <b>Standard software suite<sup>1</sup>:</b> Access to standard software suite<sup>1</sup> in the project space.</li> <li>• <b>Basic support<sup>2</sup></b></li> </ul>

		<ul style="list-style-type: none"> <li>• <b>Onboarding of Data Provider(s): 2</b></li> <li>• Access to <b>BioMedIT snowflake data transfer</b> service in scope of project</li> </ul>
<b>Additional central services (on-demand basis) included in the base package</b>		
<b><u>DCC Terminology Service</u></b>	Provides SPHN compatible, machine-readable versions of national and international terminologies and classifications in RDF (Resource Definition Framework) format.	Access to SPHN compatible terminologies Standard user support (Helpdesk)
<b><u>DCC Webprotege Service</u></b>	Provides a web-based ontology development environment for collaborative usage.	Access to shared SPHN ontologies Creation and sharing of new ontologies
<b><u>DCC Confluence Wiki</u></b>	Provides a collaboration space and repository for the working- and implementation groups.	Creation of project space in Confluence accessible to project users
<b><u>DCC Container Registry</u></b>	Provides a registry for hosting, vulnerabilities scanning and sharing of OCI compatible container images	Creation of project space in registry accessible to project users Sharing of images to the public and/or to the BioMedIT user community
<b><u>DCC Git Registry</u></b>	Provides a repository to registered BioMedIT users to create, collaborate and share their application codes to other BioMedIT users.	Creation of project space in Git accessible to project users Sharing of images to the public and/or to the BioMedIT user community

1: The Following table illustrates software, tools & technologies available in secure project spaces across different BioMedIT nodes, for more details of standard software suite offering applicable to your project space please contact your parent BioMedIT node.

	LeoMed	sciCOREMed	SENSA
<b>Operating System</b>			
Linux OS	X	X	X
<b>Software tools</b>			
<a href="#">Compute Canada software suite</a> (standard configuration)	X	X	
<a href="#">SIB Software suite</a> (standard configuration)			X
<b>Technologies</b>			
SLURM	X	X	X
Container Support (Rootless)	X		X
Singularity	X	X	X
<b>Data Management Tools</b>			
GraphDB	X	X	X
openBIS	X		
LabKey		X	

2: Basic Support: Services, which are to be classified by BioMedIT as outside the basic support, are regulated in separate SLAs and invoiced accordingly.

Following activities account for basic support to the project during its lifecycle.

- Support for creation of legal documentation such as a DTUA or a Processing Agreement
- URL to project space, making it accessible to IP-white listed network locations of customers.
- Creation/allocation of (encrypted) storage space, accessible for data upload via landing zone
- User account management (creation, update & deletion of user accounts).
- IP white-listing of institutional network of users
- Optionally, creation of VPN account (TBC)
- Registration in "Register of Processing" according to GDPR