

Unleash the potential of medical images archives for research

Come & visit us in the startup showcase  
- North Hall B @ booth 6455B

## Radiomics Enabler®

[Radiomics Enabler®](#) is a web server, installed on the hospital's premises and connected to the hospital's PACS (Picture Archiving and Communication System) using the DICOM protocol. It is combined with [RSNA's Clinical Trials Processor](#) to form an ETL (Extract-Transform-Load) for big data projects in biomedical imaging. It can be integrated with a Clinical Data Warehouse (CDW) to create unified and harmonized patient cohorts, with a complete access to their clinical and imaging data.



Thanks to Radiomics Enabler®, researchers can access large amounts of imaging data, with the required quality, quantity and diversity. They can focus on their key expertise in data science and medicine.

The extraction and processing of relevant data is a 3-step process:



1 – Once a researcher has had his research approved by his Institutional Review Board (IRB), and received login credential, he uses Radiomics Enabler® to query the PACS archive, based on a list of patients (cohort which can be generated in a CDW) and various criteria. The user filters the results, selects the sequences of interest and adds them to a batch. When the batch is ready, he launches the extraction.

2- Sequences are then extracted and de-identified, and routed to a research PACS, or a post-processing destination, inside or outside the hospital, using a secured connection, all according to a pre-established set of rules. This process is totally automatized.

3 -The user verifies the operation's completeness and archives his batch. All actions are traced.



A video demonstration of Radiomics Enabler® is available on Medexprim's web site [here](#).

In preparation

Name	Prepared On	Number Of Patients	Number Of Studies	Number Of Series	Modify	Delete
31110	2017-10-31 08:52	2	8	0		
test1	2017-11-10 16:51	5	14	54		

Done or pending

Name	Extracted On	Number Of Patients	Number Of Studies	Number Of Series	Number Of Images	Status	File Size	Modify	Delete
CTP1	2017-06-09 13:06	1	1	1	120	Completed	59.4 MBs		
test1	2017-07-23 17:30	1	1	0	22	Completed	3.6 MBs		
test23juillet	2017-07-23 17:32	1	1	0	22	Completed	3.6 MBs		
test2	2017-07-23 17:33	1	1	0	22	Completed	3.6 MBs		
menuph		4	8	20	471	Interrupted	153.7 MBs		

Archived

Name	Extracted On	Validated On	Number Of Patients	Number Of Studies	Number Of Series	Number Of Images
CS2	2017-07-11 07:45	2017-07-11 07:45	1	1	1	0
Batch1		2017-06-30 07:35	1	1	1	0

Radiomics Enabler® is made freely available to the imaging community under a [GNU Affero General Public License \(AGPL\)](#). If the AGPL is too restrictive for your usage, please [contact us](#) to discuss the possibility of buying a license exception.

## About Medexprim

Medexprim (<http://www.medexprim.com>) is a French startup created at the end of 2015, with the mission to facilitate the exploitation of biomedical image archives for research. With its solution Radiomics Enabler®, Medexprim won the 2016 President’s Startup Challenge from the Pistoia Alliance, a not-for-profit alliance of life science companies, vendors, publishers, and academics that work together to lower barriers to innovation in R&D. Positioned as a service provider to the research community, both private and public, Medexprim’s business proposition is to offer and / or organize deployment and support services around its solutions, combined with other open source or commercially available solutions such as a clinical data warehouse (e.g. [I2B2](#) or [ConSoRe](#)) or a research PACS/DICOM utilities (e.g. RSNA’s [Clinical Trials Processor](#), [XNAT](#), [ArchiMed](#)).

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