

# The Blockchain enabled platform for Additive Manufacturing

The use of Additive Manufacturing (AM) opens the door to new business models impossible until now. That is why more and more companies are considering adopting these technologies to their production. AIP will allow you to deploy and manage your additive manufacturing ecosystem and workflow with guaranteed security from leading Worldwide IT Provider.

## Deploy new business models with Additive Manufacturing.

The first Additive Manufacturing technologies, also known as 3d printing, have been used for decades. In fact, the major players in the different markets and sectors have been utilizing them for prototyping first, and later for small series production.

Additive manufacturing technology is rapidly evolving to the point that it is ready for business use. This rapid advance, together with the benefits it can bring to all companies regardless of their size (design freedom, shorter lead times, on demand manufacturing..) will lead to a massive adoption of these technologies over the next few years.

In addition, Additive Manufacturing offers new business models, such as on-site spare parts manufacturing or sale of printing rights, impossible until now. The use of other new technologies such as Blockchain will allow the adoption of these new models with guaranteed security.



Additive IT Platform (AIP) offers advanced solutions for a secured management of Additive Manufacturing ecosystem and workflow.

# Our solution: Additive IT Platform (AIP)

## AIP is a blockchain-enabled platform for Additive Manufacturing ecosystems with two central objectives:

- Protection of Intellectual Property (IP)
- Management of manufacturing workflow

## To meet these objectives AIP offers the following features:

- Platform for internal or collaborative use intended for distributed manufacturing
- Integration of multiple stakeholders (designers, requesters, printing services, etc.), and multiple distributed production means
- Parts uploading and repository, printing request and manufacturing workflow managed through the platform
- Sharing and transacting models with IP of designs protected and traced with blockchain
- Authentication and access control
- Printing Rights ("number of copies allowed") assignment and management
- Printing monitoring and control system based on analytics solution (Predictive Monitoring System)
- Value added APIs on demand (i.e. Cost Calculator Tool) and Third-Party APIs
- Seamless integration with enterprise systems (ERP, PLM&MES, LIMS&QC)
- Cloud-based platform available on public cloud and on-premise infrastructure

End Customer	Print Service Provider	Part Designer (OEM)	Engineering Services	Research	Printer Manufacturer	
<ul style="list-style-type: none"> <li>• Create projects</li> <li>• Search and invite partners for part assessment and quotation</li> <li>• Request parts and submit orders</li> <li>• End user Apps</li> <li>• Connect with Enterprise System</li> </ul>	<ul style="list-style-type: none"> <li>• Collaborate in projects</li> <li>• Submit assessment and quotes</li> <li>• Receive and process orders for printing services</li> <li>• Manage job queue and status</li> <li>• Printer Apps</li> <li>• Connect with Enterprise System</li> </ul>	<ul style="list-style-type: none"> <li>• Create and collaborate in projects</li> <li>• Create part Catalog and manage Lifecycle</li> <li>• Receive and process part request</li> <li>• Grant printing rights</li> <li>• OEM Apps</li> <li>• Connect with Enterprise System</li> </ul>	<ul style="list-style-type: none"> <li>• Collaborate in projects</li> <li>• Receive service request and submit assessment</li> <li>• Analyze, optimize and certify parts</li> <li>• Engineering Apps</li> <li>• Connect with Enterprise System</li> </ul>	<ul style="list-style-type: none"> <li>• Receive service request and submit study</li> <li>• Request job data and part data</li> <li>• Engineering Apps</li> </ul>	<ul style="list-style-type: none"> <li>• Provide device drivers</li> <li>• Submit printer specific services</li> <li>• Printer Apps</li> </ul>	Marketplace
						Applications
						Blockchain
						Analytics
						IoT Data

AIP : Global Multi-tenant / Dedicated platform

Public Cloud / Private Cloud / Hybrid Cloud

## The benefits

AIP offers many benefits to the users:

- Full traceability of 3D printed parts
- Maximized IP protection and minimized liabilities
- Easy adoption of Additive Manufacturing in your running business and IT landscape
- Enablement of new business models and digital services, e.g.:
  - Printing supplier's management
  - Rapid repairs with onsite 3D-printers
  - Spare parts and maintenance transformation
  - Monetization of designs and generation of new revenue

For more information: <https://atos.net/en/contact-us>

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