



Seamless Deployment and Monetization of FPGA Functions in datacenters

Presented By



Stephane Monboisset
VP Marketing & Partnerships
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FPGAs in Data Centers

Key elements to drive
large scale adoption

Instantly deployable
accelerators

Accelize
Delivered
Solutions



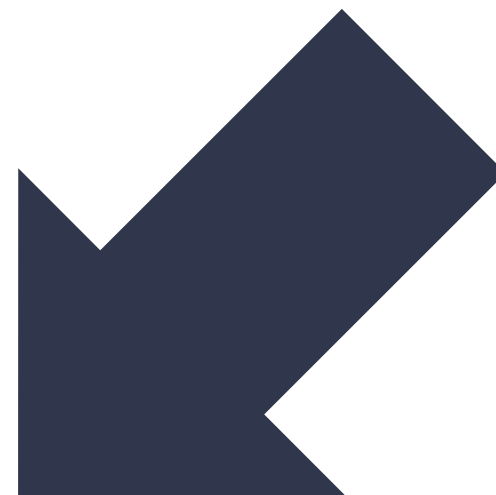
Enabling the
Ecosystem

Accelize Platform
offering to its partners

**Pre-built FPGA
Accelerator
Functions**



**SW-like Runtime
API, Frameworks**

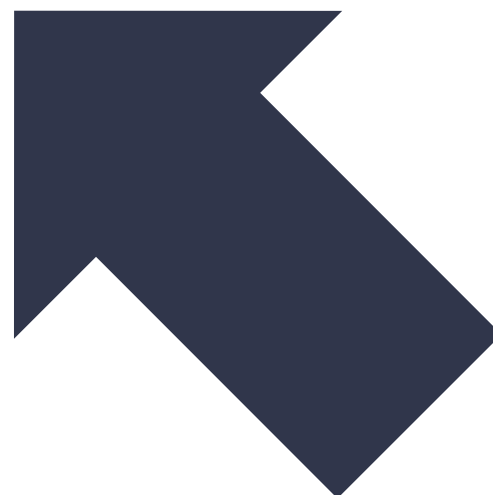


***Making FPGAs Mainstream
in Data Centers***

**Easy to Find,
Evaluate,
Deploy**



**With the Right
Business Model
(Secured)**



Make Accelerators Easy to:

Find

New users with low awareness of full FPGAs capabilities

→ Central place for all types of accelerators for Cloud and on-premise

AccelStore™

Evaluate

FPGA acceleration often seems “too good to be true”

→ Evaluate in minutes with no legal hurdle

APYFAL

Deploy

Non disruptive integration, low learning curve

→ REST API that abstracts deployment on the Hybrid Multi-Cloud

The Monetization Challenge

IP Providers



Accelerator Providers



Application Developers



SaaS Business Models		
Node Locked	✓	✗
Floating	✓	✓
Metered (Time, Data)	✓	✓

Propagate the "as-a-Service" Business Model

Accelize Digital Rights Management Platform



Supports any Business Model:

✓ **Per Node**

- Node locked
- Floating



✓ **Metered**

- Data (Bytes, Frames, Inferences, ...)
- Time



For the FPGA supply chain:

Value Added Resellers

System Integrators

Accelerator Developers

IP Providers





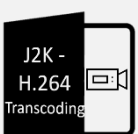




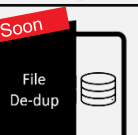



Accelize® Delivered Solutions

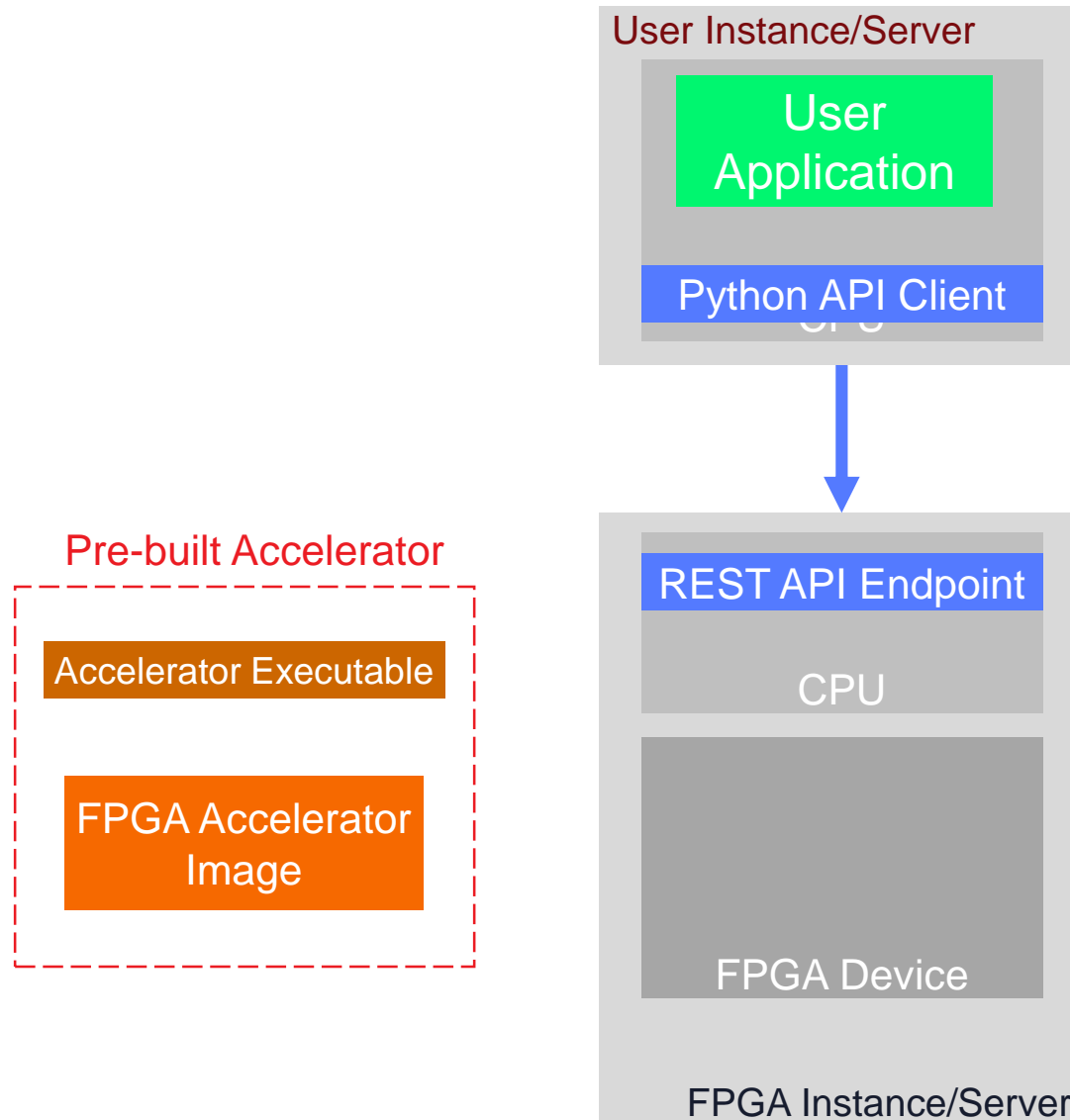
Accelerators for the Hybrid Multi-Cloud



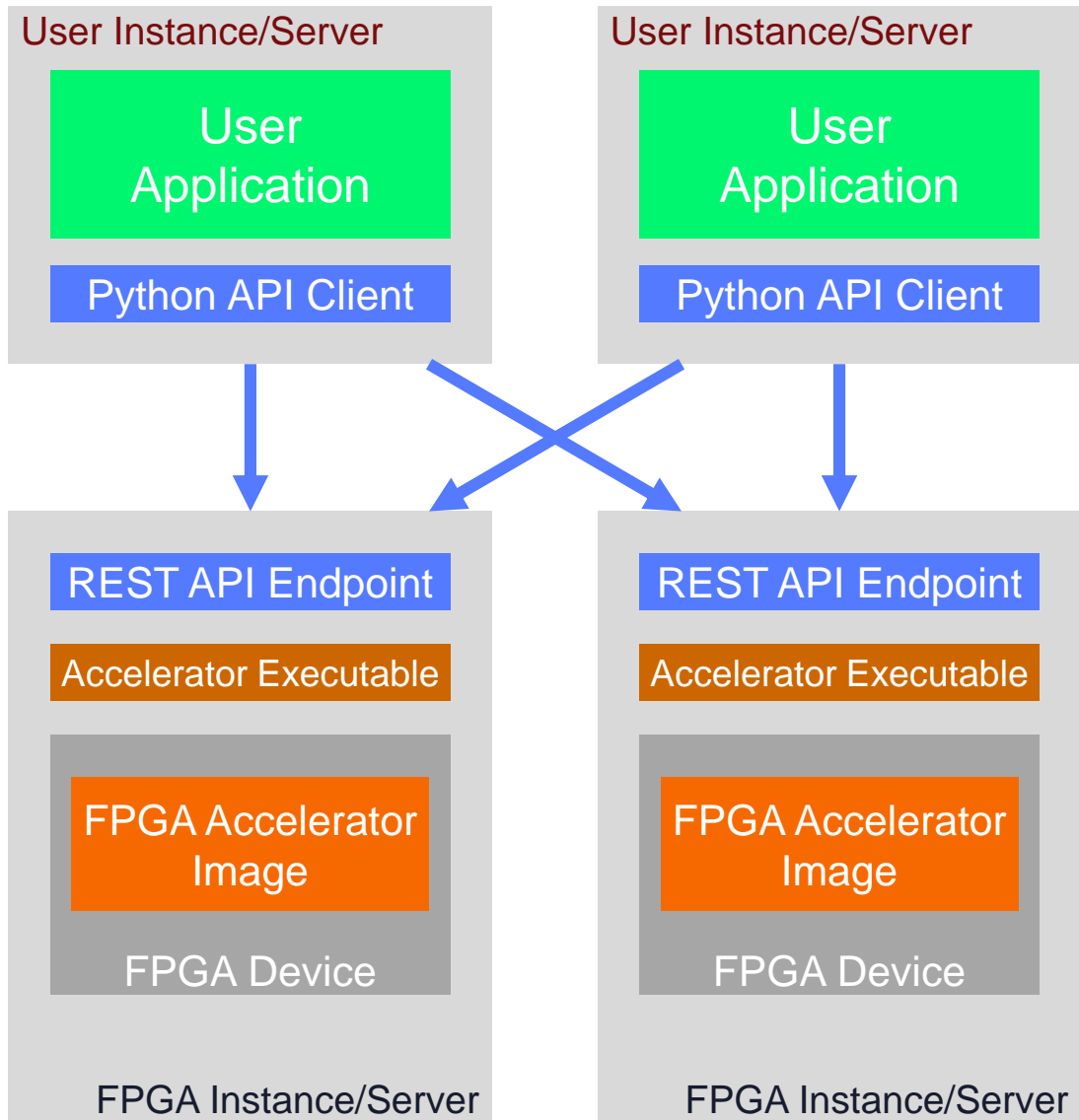
AccelStore™ Content

 <p>TAR.GZIP Compression</p>	<p>- GZIP Compression - GUNZIP Decompression</p>	<p>30x 10x</p>	<p>CAST</p>
 <p>Search & Replace</p>	<p>Ultra Fast Search and Replace</p>	<p>> 1000x</p>	<p> NAGASE</p>
 <p>TRNG</p>	<p>True Random Number Generator</p>	<p>15x Only Truly Random</p>	<p>SECURE-IC THE SECURITY SCIENCE COMPANY</p>
 <p>J2K - H.264 Transcoding</p>	<p>JPEG 2000 to H.264 Transcoder</p>	<p>40x</p>	<p> IBEX</p>
 <p>JPEG Encoding</p>	<p>JPEG Encoder</p>	<p>3x Demonstrator</p>	<p></p>
<p>Coming Soon</p>  <p>H.264 Transcoding</p>	<p>H.26x to H.26x Transcoder</p>	<p>TBD Expected</p>	<p>b com IBEX PATHPARTNER and more ...</p>
<p>Coming Soon</p>  <p>File De-dup</p>	<p>Cryptographic Data Deduplication</p>	<p>15 to 150x Expected</p>	<p></p>
<p>IPSEC, MACSEC, Encryption, Hashing, ProRes Transcode, H.265 Encode, Machine Learning, Database ...</p>			

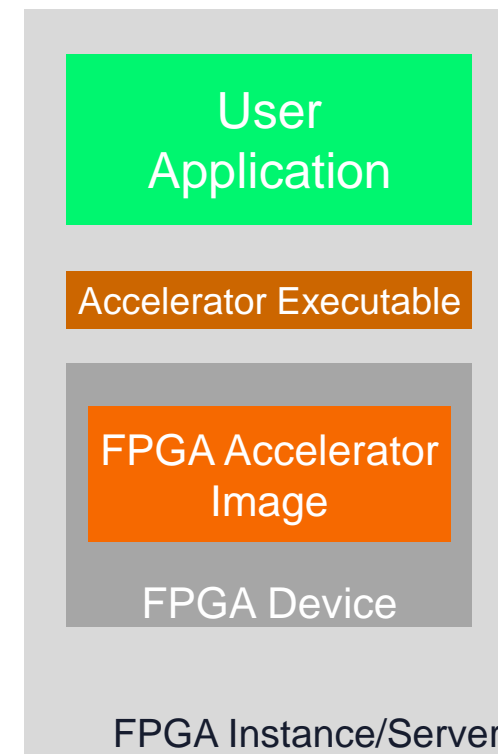
Remote Execution on FPGA Instance/Server



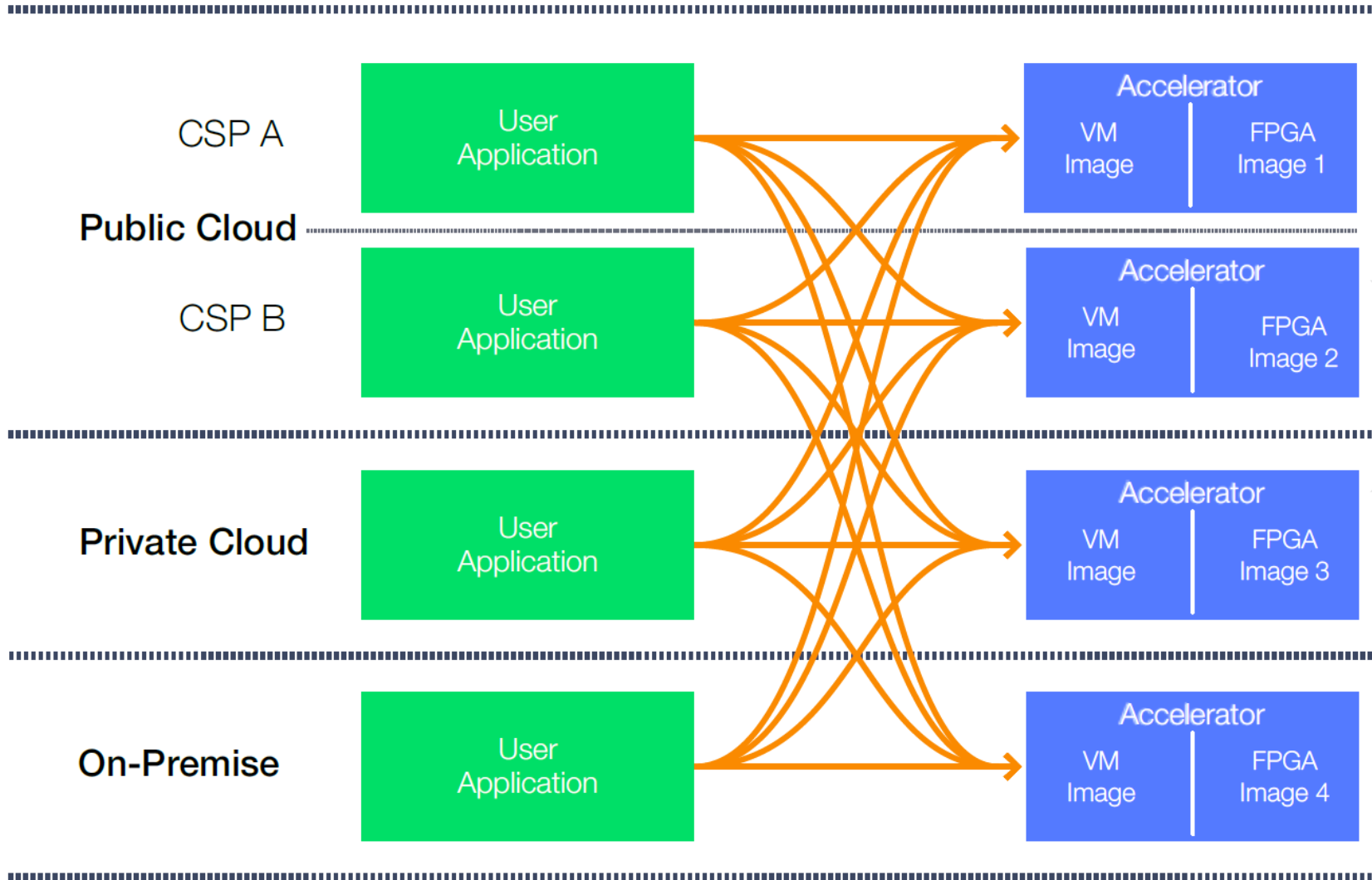
Remote Execution N-to-M



Local Execution (bin/lib)



Enabling Hybrid Multi-Cloud Operation



Test Accelerator in minutes on AWS F1



*Open a Free
AccelStore Account*



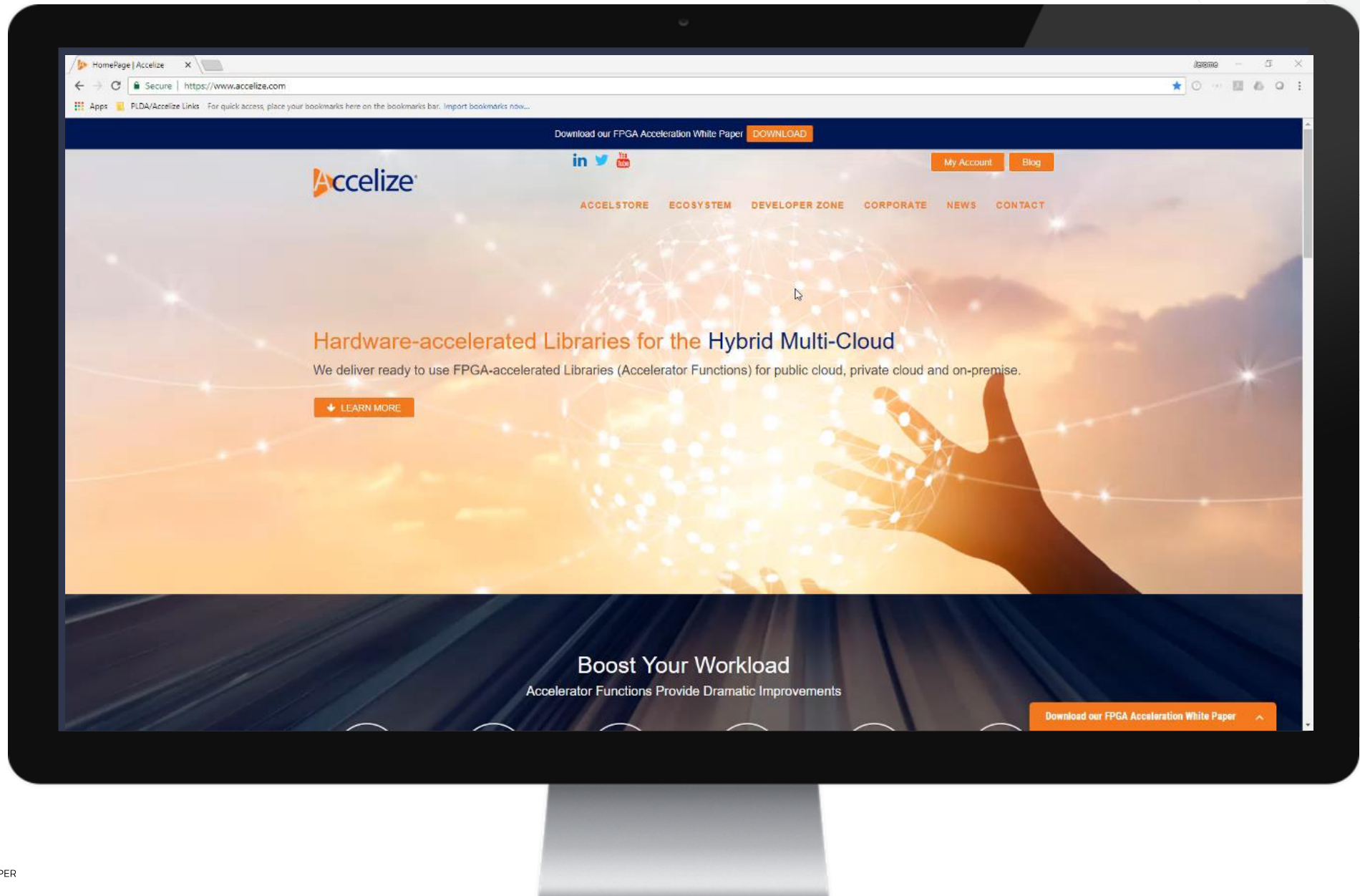
*Install the
APYFAL API*



*Run your Accelerator
(remotely)
with 1 simple command*

Free credits = Hours of evaluation.

Seeing it in Action



Accelize® Business Enablement Platform

Offering to the Ecosystem



You Focus on Your Value-Add:



→ Producing high value FPGA Functions

We help you with the Deployment ...

→ FPGA Function

Licensing

Metering

Evaluation

Billing / Invoicing

Marketing

...

In the Hybrid Multi-Cloud

Tailor Your Offering to Data Center Users ...



... by Implementing the Right **Business Model**

✓ **Per Node**

- Node locked
- Floating



✓ **Metered**

- Data (Bytes, Frames, Inferences, ...)
- Time



... while being **Fully Secured**



Non Forgeable



Non Clone-able



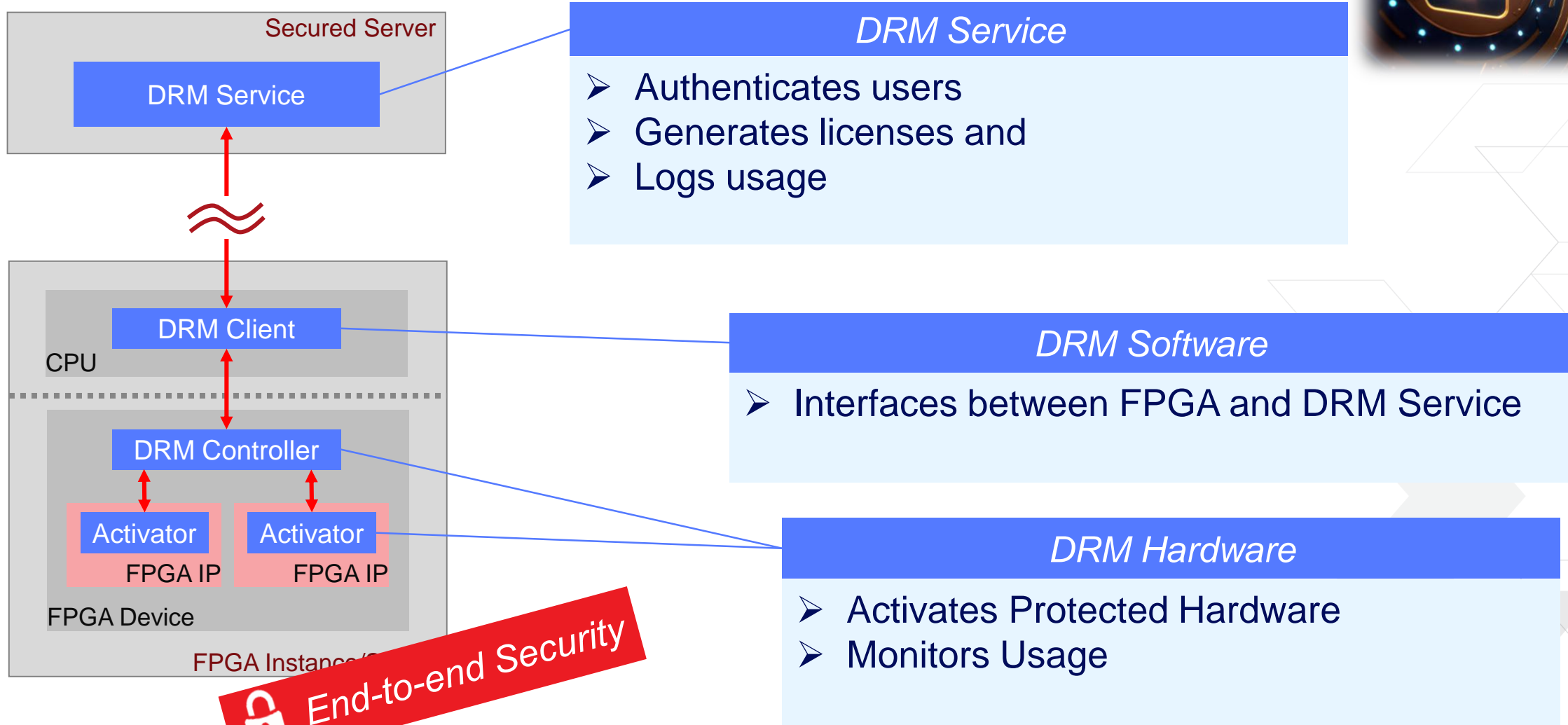
Non Replay-able



No SW Hack

Accelize DRM Platform Components

Patented Technology



 **End-to-end Security**

3 Platforms to Choose From:



DRM Platform



Enable secured, seamless and flexible **Execution** and **Monetization** of FPGA functions across the **Hybrid Multi-Cloud**

Business Ops Platform



End-to-End management of customer **Financial & Legal** relationship

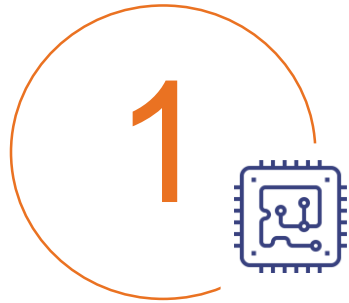
eCommerce Platform



Self-service **online store** of accelerators for the Hybrid Multi-Cloud

AccelStoreTM

Get Started in No Time



*Add the DRM modules
to your design*

*Deploy your product
Anywhere**

*Instantly Monetize with
the right Business Model*

We can set up a PoC in just a couple of days



[www. Accelize.com](http://www.Accelize.com)