

GamingBlock

Blockchain as a service for Gaming



play fair, play secure

Commercial White Paper

English Version

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v1.3

gamingblock.io

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1. Our Approach

The explosion of Blockchain-based solutions in the gaming sector has increased dramatically in recent years.

The vast majority of the solutions offered nowadays are focus on disruptive solutions, which improve many of the interactions that occur between the various players in the gaming industry.

In the regulated gaming world, establishing consensus can only be achieved through agreement and discussion with industry associations, regulators and other stakeholders. This sort of processes require time.

Establishing a consensus formula based on Blockchain, that is to say mathematically, but decided by a company or a series of experts, however brilliant, is something destined to non-regulated environments.

It's difficult for a regulator to adopt a consensus formula not agreed between the parties and not published, nor supervised by them. Blockchain-based solutions for the gaming sector, which have tried to impose a possible consensus, have been rejected by regulators, as has happened recently in the United Kingdom.

Our approach is to work on improving the existing processes within the current regulations and to evolve them, together with all the players in the industry, towards a greater adoption of the Blockchain technology, whose benefits are indisputable.

Therefore, all current GamingBlock solutions work with current regulations and with any existing technology platform.

Looking ahead, our roadmap will include all those agreed solutions, which will be achieved.

2. Use cases and benefits

2.1. Players

In the case of the players, the benefits are to have the mathematical certainty that the game is fair and without any fraud. Despite the existing level of play fairness, most players think that the game operators cheat. GamingBlock solutions allow you to mathematically guarantee fair gaming.

The end-to-end benefits that the Blockchain provides with respect to gaming transactions and the generation of random numbers are:

- transparency
- traceability
- immutability
- multiple validation
- security
- strong authentication

2.2. Operators

The use case for the operators, can benefit from some generic solutions, which can considerably increase the security of operating in a highly regulated environment, especially with regard to KYC and AML.

- the possibility of guaranteeing that each login is made by a person not in legal underage, which coincides with the player registration
- the possibility of recognizing each login if it is a self-excluded

- the registration in Blockchain of the game transactions and the generation of random numbers for judicial evidentiary defense, in front of demands of players, beyond what is demanded by the Vault of the regulators
- the ability to perform a data transfer compatible with the GDPRs, for Robinson list, new versions of terms and conditions, etc.
- the ability to sign contracts electronically with players and suppliers in a completely legal manner
- the ability to geolocate and register Blockchain simultaneously at a given moment, of photos and videos of sporting events, live casino, etc.
- possibility of realizing a bonusing system and a loyalty system based on tokens and wallets with players and affiliates

2.3. Platform providers

In the case of use of platform providers for the gaming sector, GamingBlock offers its technology so that they can quickly incorporate all the advantages that Blockchain offers to players and operators, which we have seen previously.

GamingBlock allows you to use your technology as a service, both in white label mode and with our own brand, through a seamless integration through our API-REST.

2.4. Laboratories

The benefits for laboratories are the ability to improve the level of certification to ensure fair gaming, through the technology of GamingBlock.

To the certification of the algorithm of generation of random numbers made by the laboratories, GamingBlock offers the ability to register Blockchain the outcome of the algorithm and also offer the operator a digital certificate, so that the player can be completely sure of the randomness of the transaction publicly traceable.

This service is also offered in a white label mode or with our own brand. This is one of the services that it is proposed to develop in the roadmap with many more new features.

2.5. Industry associations and Regulators

We are in a phase where many people know technically how it works, but few what is it used for, because they have only seen abstract approaches.

Thanks to the availability of GamingBlock technology, we can demonstrate the actual operation of the Blockchain and the concrete benefits for the sector.

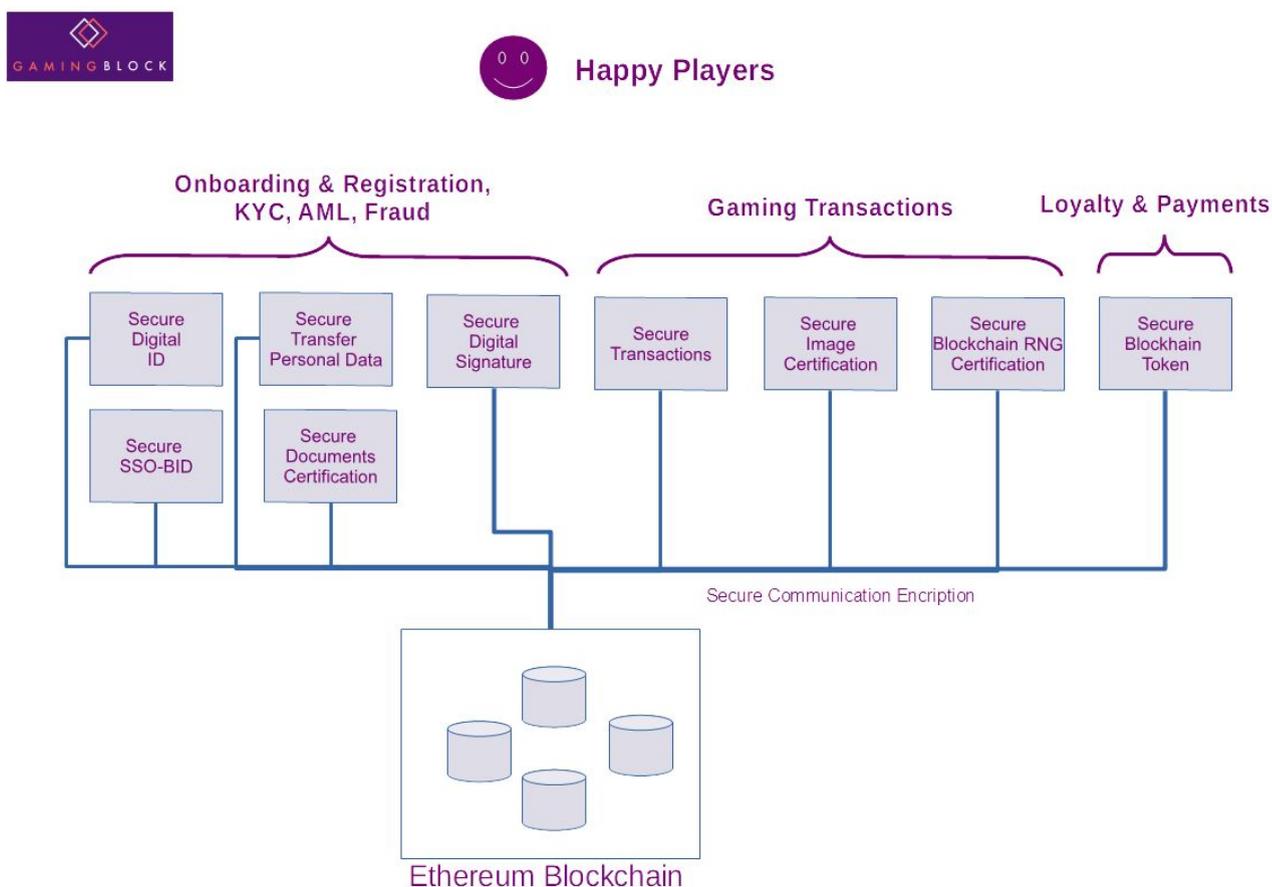
We offer advice, training and, above all, work sessions to be able to advance in new services for the sector.

We are willing to develop a sectorial consensus of common practices for the most important issues such as responsible gaming, working together with associations and with regulators to achieve it.

3. How it works

3.1. Solution structure

The solutions for the gaming world of GamingBlock are flexible and customizable. We have made a graphic to better understand how all the solutions can be integrated in a unique player journey.



GamingBlock solutions secure end-to-end gaming processes. From the moment of registration, at each login and throughout the document management between operator, player and public administration. It also makes it possible to secure gaming transactions at several levels and, finally, allows the establishment of complex and personalized loyalty-based systems, as well as the exchange with real money.

3.2. Dashboard of main services

The dashboard features a dark navigation sidebar on the left with the following items: Gerard (profile), Dashboard, Id Digital, Firma Digital, Documentos Certificados, Comunicación Encriptada, Historial, and Incidencias. A 'Desconectar' button is visible above the main content area.

The main content area is titled 'DASHBOARD' and contains four service tiles:

- Id Digital**: Represented by a blue cube icon with a fingerprint.
- Firma Digital**: Represented by a purple cube icon with a signature.
- Comunicación Encriptada**: Represented by a green cube icon with a document and lock.
- Documentos Certificados**: Represented by an orange cube icon with a document and lock.

On the right side, there is a summary card for 'Firma Digital' showing a 60% progress bar and '95 Transacciones'. Below this, there are smaller progress bars for 'Firma Digital' (60.00%), 'Documentos Certificados' (20.00%), and 'Comunicación Encriptada' (20.00%). A 'Cargar' button is located above the first progress bar.

3.3. File certification

The page is titled 'DETALLE DOCUMENTO' and includes a breadcrumb trail: 'Dashboard / Documentos Certificados / Detalle Documento'. Action buttons at the top right are: 'Volver', 'Enviar', 'Descargar', 'Certificado', and 'Eliminar'.

The document details are as follows:

Detalle:	
Id	3a5a80f3-cc71-11e8-95dd-0a3f0e4ac0fa
Nombre	GB_WhitePaper-ES-v1.pdf
Bytes	217628
Descripción	WP
Hash	fe7f61e241d53f2e180dd09ee4ec38240f67a6a3c4ab2f5baf3fdd7747bee271
TxHash	0x890c9a31e6d42272c909a9c0e2befb4a4bd282c557132b666a389e0dcbd46dd4
Creado	10-10-2018 09:45:31

The document was sent to the following recipient:

Enviado a:	Email	Visto	Fecha descarga	Acciones
	rais.busom@gmail.com	Si	10-10-2018 09:46:37	

3.4. Encryption and messaging certification

Certificado de Envío de Mensaje Encriptado

Nodalblock, SLU entidad gestora de la Plataforma NodalWork y en su calidad de Prestador de Servicios Electrónicos de Confianza, según la ley de Servicios de la Sociedad de la Información (LSI - Ley 34/2002, de 11 de julio de Servicios de la Sociedad de Información y Comercio electrónico), **certifica** que don/doña Gerard Busom registró la siguiente **Comunicación Encriptada** a la red Blockchain.

Detalles de la Comunicación Encriptada

Destinatario	rais.busom@gmail.com
Asunto	Archivos secretos de Villarejo
Creado el	10-10-2018 09:44:36
Leído el	10-10-2018 09:44:36

Dirección URL Mensaje:

<https://nodalblock.com/es/read-message/78e731027d8fd50ed642340b7c9a63b35bbdca04cb4ff9.20219387>

Detalles de la Transacción

Transacción identificada con el hash:

aedf3177392979d40adcf87249026d965f14de3a1b4f64e89f4011cfc9b709f8

Fue grabado en la red Blockchain en el bloque **2283104** en la fecha marcada por el sello de tiempo como **10-10-2018 09:44:40 UTC**.

La grabación de este documento fue codificada en la transacción:

0x5d47fefbd0b7711934c64ed1d888e96ee1452d037541d09ba67f0505f543e625

Y, en el momento de emitir este certificado, dicha transacción ha sido validada como correcta por **93** confirmaciones de bloque.

Y para que conste a los efectos oportunos emitimos este certificado a fecha **10-10-2018 09:52:29 UTC**

3.5. Digital signature

Dashboard / Firma Digital / Crear Contrato

CREAR CONTRATO

Transacciones necesarias para crear el contrato:2
Tienes: 89 Transacciones.

Formulario de Contratos

Nombre
RAIS BUSOM

Partes
rais@gamingblock.io

Fuente
Text

Acuerdo

Archivo Editar Ver Formato Herramientas

Formatos B /

CONFIDENTIALITY UNDERTAKINGS 1.1 In consideration of the mutual promises contained in this agreement each Party undertakes to the other that:
(a)it shall keep strictly confidential and not disclose any Confidential Information to any third party; and
(b)it shall not use all or part of the Confidential Information for any purpose other than in the context of the Partner Agreement; and
(c)the Receiving Party shall limit access to the Confidential Information solely to those persons under the Receiving Party's direct control, who with the Disclosing Party's knowledge are responsible for the Main Agreement and/or the purposes set forth in the recitals above. The Receiving Party shall cause those persons to abide by the confidentiality obligations of the Receiving Party under this Agreement; and
(d)each Party remains fully liable for its directors, officers and employees regarding the execution of this Agreement.

p

3.6. Certification of geolocated photos



[Compartir](#) [Twitter](#)

Fecha de alta: 10/10/2018 11:39:27 Latitud: 4. 32510 Longitud: 2. 020 [Ver localización](#)

Tamaño: 230.09 KB Estado: No visible Contactar: No

Txhash: 0x8a906fe23e44255a61e515563d58a7cd40b7403e156f15f5796232dda2e

[Descargar](#) [Descargar con QR](#) [Descargar certificado](#) [Eliminar](#)

Certificado de custodia de archivos electrónicos

Nodalblock S.L.U. entidad gestora de la Plataforma NodalWork y en su calidad de Prestador de Servicios Electrónicos de Confianza según la Ley de Servicios de la Sociedad de la Información (LSSI - Ley 34/2002, de 11 de julio de Servicios de la Sociedad de Información y Comercio Electrónico), **certifica** que en sus registros de comunicaciones electrónicas constan los siguientes datos relativos a la **custodia de un archivo electrónico en la Red Blockchain** llevada a cabo por el usuario .

Detalles transacción electrónica certificada

Nombre del archivo:

Wed Oct 10 11:39:21 GMT+02:00 20186018521647198690882.jpg.jpeg

Latitud:

39.82510

Longitud:

1.6698251,2.2788902

Hash del archivo:

4da28f2af13df84802a5713c50b3294 66cb3abe12f682c019207ddf49379,4
1.6698251,2.2788902

Hash de la transacción:

[906fe23e44255a61e515563d58a7cd40b7403e156f15f5796232dda2ac86d3](#)

Sello de tiempo:

2018-10-10 09:39:30 UTC

3.7. RNG Certification



Random Number Generator Certificate

This is to certify that GamingBlock has registered the Random Number Generator (RNG) outcom transaction into Blockchain and found that the RNG complies with the relevant standards.

Operator: XYZ Casino N.V.
Operator URL: <https://xyzcasino.com>
Software provider: XYZ Slots Limited
Software provider URL: <https://xyzslots.tech>
Laboratory: XYZ Labs LLC
Laboratory URL: <https://xyzlabs.com>
Blockchain Certification Authority: GamingBlock
Blockchain Certification Authority URL: <https://gamingblock.io>

The RNG uses a well known algorithm to generate random numbers. The numbers generated by this RNG have passed Marsaglia's "diehard" tests for statistical randomness as XYZ Labs has certified.

XYZ Labs has also evaluated scaling of numbers used by the Slot games. The scaling tests were conducted on large enough samples to give the calculations sufficient statistical power.

XYZ Labs has found that numbers are unpredictable, non-repeatable and uniformly distributed.

The certified code for the RNG has been fingerprinted by GamingBlock.

[Click here to view the Original Certificate registered into the Blockchain by GamingBlock.](#)

Signed:

Signed:

Joaquín Guzmán
Principal Consultant
XYZ Labs
Date: 16 April 2018

John Smith
Principal Consultant
GamingBlock
Date: 16 April 2018

4. Tecnology

GamingBlock uses Ethereum and Solidity technology to develop its applications.

We use the public network of Ethereum, but we also have the possibility of using private networks, as well as developing proprietary networks for clients or for gaming consortiums.

All GamingBlock transactions can be viewed at Etherscan.

5. Roadmap

GamingBlock has the will to develop its solutions at the pace required by the industry, always trying to solve existing problems and proposing significant solutions, to improve business fundamentals.



6. Final remarks

This is a commercial document, it has no legal validity. For any clarification of the content, commercial contact, proposal of speeches, or relations with investors, send an email to:

Rais Busom
rais@gamingblock.io