# ISSUE VERIFIABLE DIGITAL RECORDS

Hyland Credentials provides a complete system to issue official records using a blockchain-anchored format that is instantly verifiable anywhere in the world.



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### **EXECUTIVE SUMMARY**

Hyland Credentials is the world leader in blockchain-secured digital records that are recipient owned, vendor independent and verifiable anywhere.

As the only blockchain-based records provider in the world with a currently available product for multi-chain issuing and self-sovereign digital identity, our offering is revolutionizing the way business in all sectors issue and verify credentials and the way individuals understand and use their digital identities.



## WHY BLOCKCHAIN?

Blockchains offer a new public infrastructure for verifying credentials in a manner far more durable, secure and convenient than relying upon a single authority.

#### Improve efficiency

Blockchain-anchored records don't require middlemen to send or verify.

#### **Provide ownership**

Empower recipients with records they own and can have verified anywhere.

#### Increase security

Know that records are secure, tamper proof and vendor independent.

#### **Promote awareness**

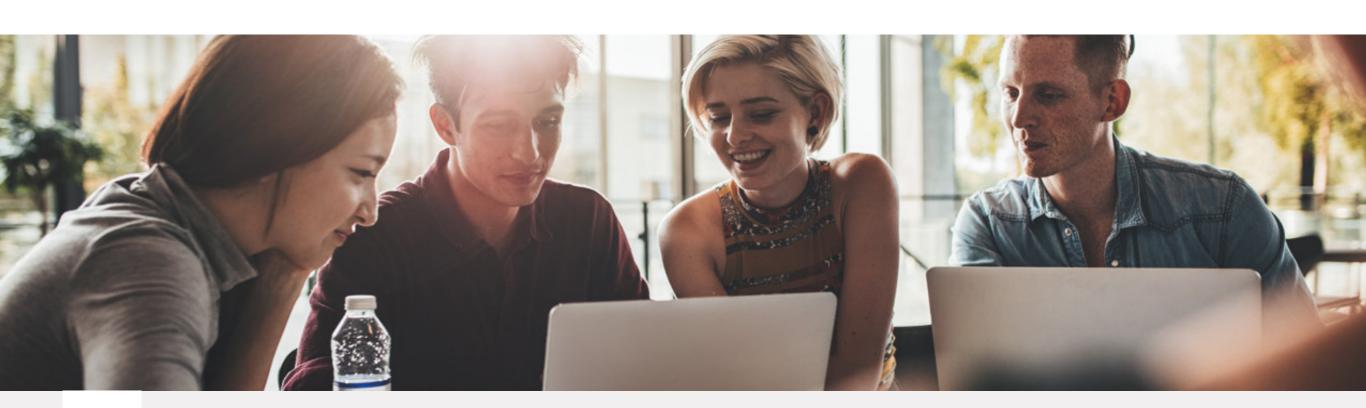
Draw attention to your programs and your brand with records that can be shared online.

#### **Prevent fraud**

Make it hard to impersonate records from your organization with cryptographic signatures.

#### **Gain insight**

Build reports to better understand your credentialing trends.

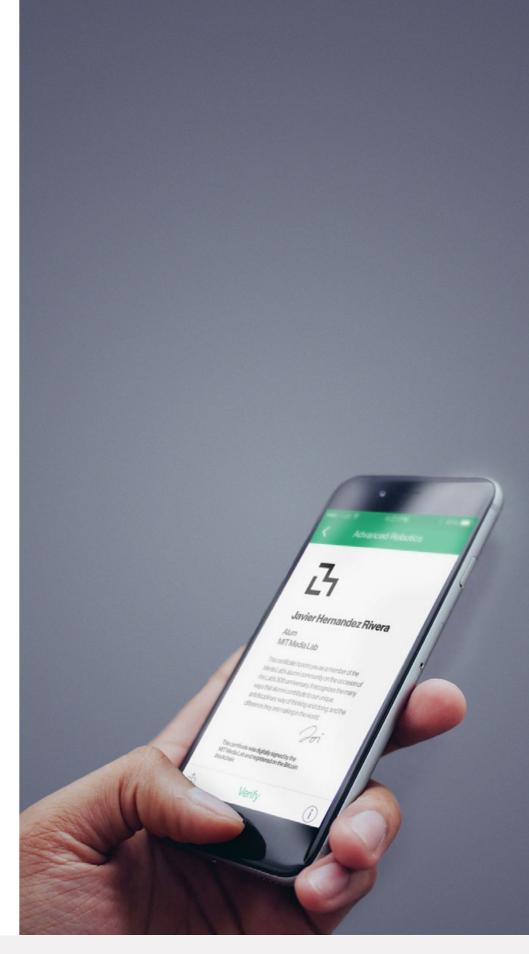


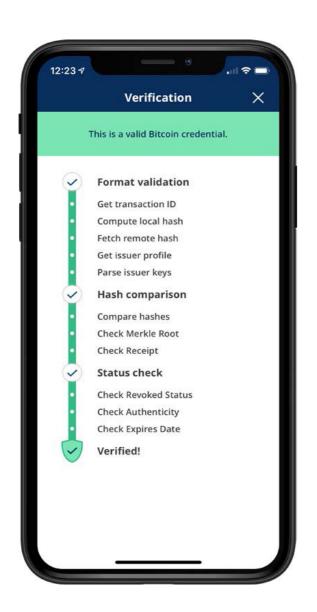
# STARTING WITH OPEN STANDARDS

Initially incubated by MIT and evolving in alignment with the W3C, Blockcerts.org is the open standard to issue and verify blockchain-based official records. It is the most widely adopted global open standard for anchoring records to any blockchain. Hyland Credentials makes it easy to issue records in a format that is fully compliant with the internationally-recognized open standard.



The Open Standard For Blockchain Certificates





#### **OWNING, SHARING AND VERIFYING BLOCKCERTS: INSTANT AND FREE**

Blockcerts are a new type of record that individuals own for a lifetime and can easily share with anyone they choose. Employers, governments and schools can instantly verify whether a Blockcert is authentic by clicking a button or scanning its QR code. No special software is needed to verify documents. No more fees need to be paid to issuing institutions or software vendors to store, share and verify documents.

Blockcerts includes a free open source mobile app for recipients, available on iOS and Android, that acts as a private collection of official records. The mobile app stores, shares and verifies records from any institution that issues Blockcerts—even if they don't come from Hyland Credentials.

# **HYLAND CREDENTIALS ISSUING SYSTEM**

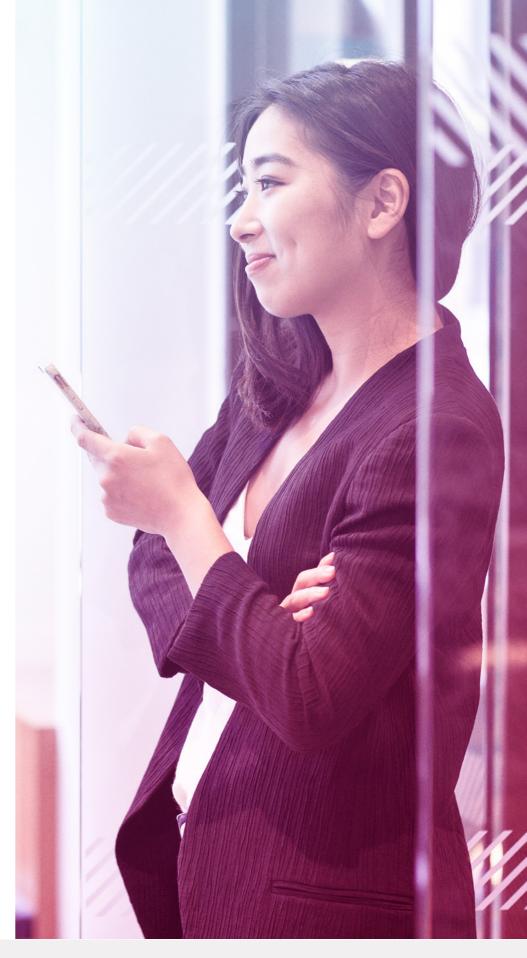
Hyland Credentials sets the global standard for records that are independently verifiable, tamper evident and owned by issuers and recipients. Managing standards-compliant records at scale is easy with our line of products, built to meet the needs of governments, corporations, and educational institutions. The Hyland Credentials issuing system allows any organization to easily design their records, import recipient data, issue records and manage the entire credentialing life cycle.

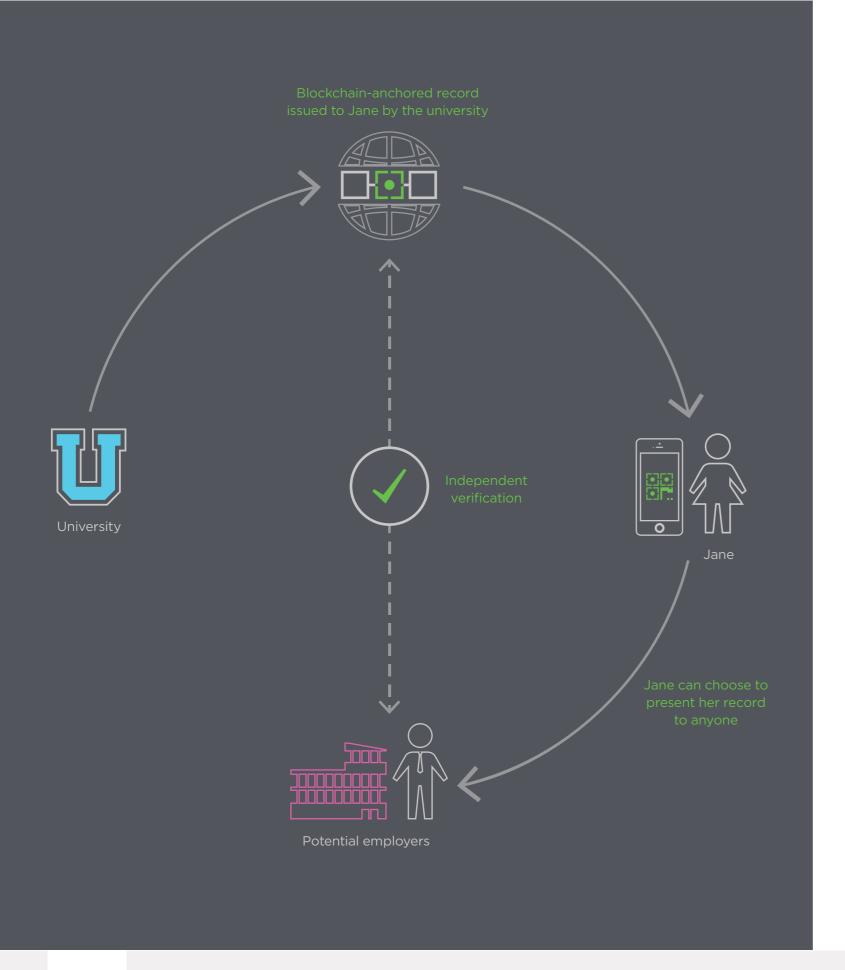
#### Single issuing system

The system allows a single organization to gather analytics and create beautiful data visualizations that can be used for reporting, policymaking, curriculum development, workforce development, alumni relations human resources and more.

#### Federated issuing system

At a higher level, the Hyland Credentials issuing system acts as a governance tool that allows large accounts to centralize and view their credentialing operations across multiple issuing organizations within one federated system.





#### A SAMPLE SCENARIO

Jane has recently graduated from college and receives an official copy of her digital diploma, issued by the university containing her keys. She can choose to present her diploma to anyone—like a potential employer—who can independently verify the issuer of the diploma, the time of issuance and its status (valid, expired or revoked).

# **CUSTOMER SUCCESS STORIES**

Hyland Credentials serves customers all over the world who are leading the way for the next generation of digital records.



#### THE REPUBLIC OF MALTA

Launched

October 2017

Sector

Government

**Partner** 

Ministry for Education and Employment

#### **Upward mobility**

Malta is the first nation-state to implement blockchain-based credentials across their spectrum of educational providers to facilitate smooth transitions from being a student into joining the workforce. One of the central points of friction has historically been transmitting and verifying official records. So, various types of training programs across Malta — higher education, skills training, and K-12 — are issuing records of achievement to graduates that can immediately be used for job applications. The Ministry for Education and Employment uses a federated issuing system, which gives them an analytical view into the dynamics of their educational economy.

"Maltese businesses will find that hiring workers with the right qualifications has gotten much easier. This is a win-win for Malta, whose skilled workforce is among the primary drivers of its economic success."

- Evarist Bartolo

Minister for Education and Employment

This infrastructure provides Maltese learners and workers a way to securely store all of their records of lifelong learning in one place, prove that they own them, and share them with anyone in the world for free. Employers and others can instantly verify that a credential is authentic using independent blockchain verification, saving significant time and money. This allows institutions to prevent fraud and protect their brands while giving learners and workers full control of their official records.





#### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Launched

October 2017

Sector

Education

**Partner** 

Office of the Registrar

#### **Digital diplomas**

In 2017, MIT began issuing digital diplomas to select groups of students graduating within Undergraduate, Masters, and PhD degree programs. These tamper-proof records are registered on the Bitcoin blockchain, so they can be shared peer-to-peer and independently verified. The blockchain, combined with strong cryptography, provides a new security infrastructure that guarantees the authenticity of these records and enables convenient verification.

"From the beginning, one of our primary motivations has been to empower students to be the curators of their own credentials. This pilot makes it possible for them to have ownership of their records and be able to share them in a secure way, with whomever they choose."

- Mary Callahan

Senior Associate Dean and Registrar, MIT

Hyland Credentials' collaboration with MIT began in 2016 to develop Blockcerts, the open-source standard for blockchain based records. Later that fall, when MIT Registrar Mary Callahan became aware of the project, she recognized the opportunity to deliver on the promise of student-owned records. An initial pilot project became a full institutional rollout in 2018, with all MIT Undergraduates and Graduate Students receiving digital diplomas as Blockcerts.

#### **CENTRAL NEW MEXICO COMMUNITY COLLEGE**

Launched

December 2017

Sector

Education

**Partner** 

Office of the President

#### **Educational achievement**

In December 2017, CNM became the first community college in the United States to issue digital diplomas, securely anchored to the blockchain, giving students the power to manage their own credentials using the free Blockcerts mobile app.

"We are very excited to begin adopting this technology that's going to provide more value, independence and convenience to our students throughout their lives," CNM President Katharine Winograd said. "Students put forth tremendous effort to earn their higher education credentials and we're going to start empowering more students with stewardship over their own educational achievements."

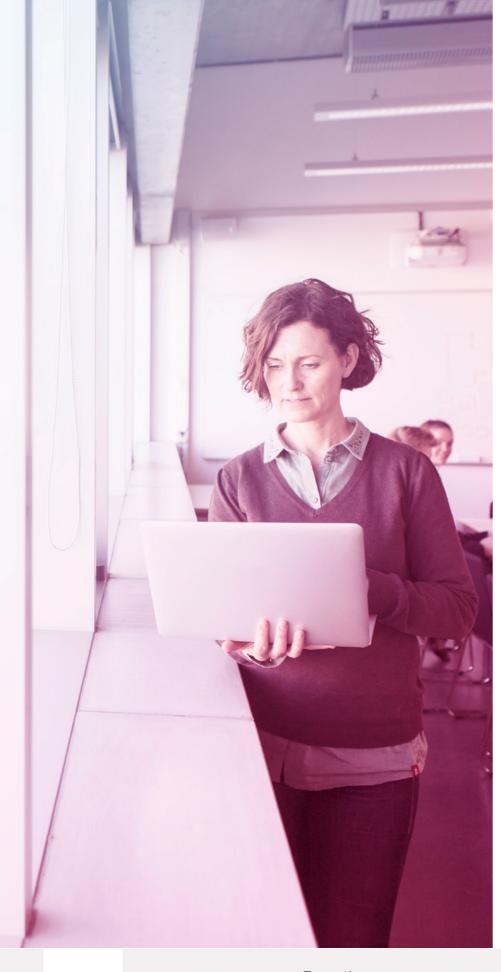
"We've seen the vulnerabilities of the internet, and Blockchain is definitely the future because the data that lives there is not only verified, but also immutable and totally trustworthy."

- Bill Halverson Senior Technology Advisor, CNM Ingenuity

The diplomas issued to students within CNM's Ingenuity programs use the BTC blockchain, which means they can never be tampered with and can easily be verified by any potential employer. CNM has expanded the use of digital credentials in phases across all programs at the college. In August of 2018, all graduates across CNM were granted the option to receive a digital diploma. To date, CNM has issued over 3000 digital diplomas to graduates. More details were shared in an interview with E-Campus News, CNM Senior Director Tobe Phelps said: "We thought it was going to be a slow adoption curve among employers, and we're actually getting quite a bit more use than we anticipated."

In February of 2019, CNM began issuing open badges that communicate measurable skills along an education path, thus unlocking more summative academic records. Often referred to as "stackable certificates" they contain the history of previous accomplishments that preserves the learning pathway.





## **KEY TAKEAWAYS**

- Recipients own their records via key control, provided by the Blockcerts mobile app
- Records can be verified across blockchains using the Blockcerts Universal Verifier
- Records can be aggregated across various institutions, forming a lifelong record of learning and achievement
- All content and personal data is stored off chain for maximum privacy
- Records are standards-compliant JSON files, compatible with virtually any back-end system
- The entire ecosystem is open-source, vendor-independent and aligned with other data standards

# Hyland

Learn more at **Hyland.com**