truvity

One Solution, Infinite Trust:

Your Secure Way for Document Management and Exchange

Truvity's DMS+
The Next Step in Document Management

We believe standard Document Management Systems are in critical need of an update, and DMS+ is the next step. The current standard of document management struggles to meet the increasing demand for secure document management and exchange. Truvity's solution is DMS+, a high-assurance tooling and infrastructure which ensures your data is machine-readable for seamless reusability, linkable to help you stay on top of complex ownership structures and transactions, and tamper-proof to guarantee authenticity, creating a single source of truth that all teams can rely on.

- ## DMS+ Provides Benefits To Your Data That Traditional Systems Cannot

End-To-End Document Lifecycle Management

From creation to archival, manage every document securely and efficiently – with no duplicates, no human error, and complete audit trails

Standardization

Eliminate manual inefficiencies through standardized data structures built around your business workflows, so everyone that needs access to a document gets it instantly

Tamper-Proof Documents

Establish full trust in document integrity by dealing in immutable, cryptographically secure, and machine-readable exchange, so only those with permissions can create, view, and share your critical information

Most Importantly: Truvity's DMS+ turns collaboration into a seamless, efficient, and secure process, making trusted interactions the foundation of business success. Trust is ensured between you, your teams, and business partners, so everyone can proceed with confidence

Trusted Document & Data Management

Single source of truth

Trusted document issuance and verification

Multi-party document and data exchange

Immutable data storage and sharing

The problems with traditional Document Management systems

Fragmented Workflows

Traditional document management systems often operate in isolated silos, where different departments and tools lack integration. This disconnection results in duplicated documents and efforts, misaligned information, and wasted time as teams manually transfer data or reconcile inconsistencies.
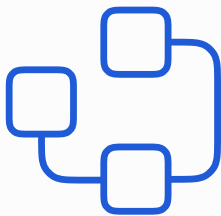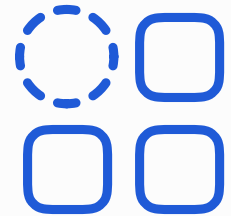
Document Authenticity And Accessibility

Static documents in traditional systems are not tamper-proof and depend heavily on human intervention. Verifying authenticity also introduces time-consuming checks and inconsistencies from human errors. They also don't utilize machine-readable documents, making it difficult to search for and filter specific information.

Limited Security

Many legacy systems lack protocols for secure document sharing, leaving sensitive information vulnerable to unauthorized access. They do not address the risks of unauthorized document sharing or malicious breaches, which can lead to severe regulatory penalties, financial loss, or reputational damage.
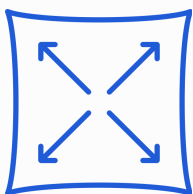
Inflexibility

Legacy systems are often rigid, built for static use cases that do not evolve with the business, so adapting them to new workflows is complex, costly, and time-consuming. This comes at great cost, and while upgrades can meet certain demands, they don't offer an integrated, holistic solution to large-scale data management trends.

Simplifying Workflows, Amplifying Results

truvity

Data accessibility is at the heart of Truvity's DMS+ platform, achieved through a combination of innovative features and strategic product design. Truvity ensures documents are instantly and securely accessible across an organization's IT landscape by leveraging secure, interoperable APIs and a machine-readable framework. These features enable seamless integration with existing systems, eliminating the inefficiencies caused by siloed data repositories, and making it easier and faster than ever to access and share your documents.

Here's How Truvity Enriches Your Data

The Power Of Verifiable Credentials

Also known as VCs, these are what your documents are transformed into to gain new functionality. These are encrypted containers which contain your files, like PDFs, and their metadata. And once finalized, VCs guarantee your document is tamper-proof and will always remain the same

Create Document Associations

VCs can be linked and shared together, creating a web of cryptographically secure associations across your workflow. From being able to link an ID with a boarding pass, or a contract with a signature, you can link any VCs, at any time

Build Secure Bundles

With linked VCs, it's faster than ever to share bundles of critical information. No more searching for the most recent revision or having to contact a different team for a file, VCs will show a comprehensive network of your organization

Sharing With Trust

Being able to share secure bundles of information with your clients or counterparties is critical for smooth business. Every VC, connection, and shared bundle is encrypted so both the sender and the receiver can begin every exchange on trust, knowing their documents are secure and free from prying eyes. Only the receiver with a unique key can access the documents you share

Built for your business

Every business manages documentation, in small or massive volumes, under varying levels of scrutiny. Truvity's DMS+ is engineered to make the benefits of next-generation standards accessible to all businesses, a strategic tool to reduce costs and drive operational efficiency.

- **MAP YOUR WORKFLOWS**

Seamless Document Ingestion

Digitize and ingest physical and digital documents effortlessly, transforming them into advanced digital formats for ease of processing

Custom Taxonomy Builders

Define your own organizational structures, creating a unified and intuitive document ecosystem tailored to your teams

Metadata And Tagging

Enrich your document taxonomy with advanced tagging. Ensure your documents are easy to find and retrieve so you reduce time spent searching, and each document's history is recorded in metadata

Secure Collaboration

Role-based permissions and automation to turn collaboration into a seamless, efficient, and secure process

- **USE CASES**

Supply Chain Management
Equip freight with the new standards of transparency, trust, and document verification across global logistics networks and regulators

Logistics
Enabling secure, real-time document exchange and compliance with international trade regulations, reducing fraud and improving supply chain transparency

Manufacturing
Automating document workflows for vendor collaboration, quality assurance, and compliance, ensuring standardized and secure data management across the product lifecycle

Onboarding
Streamlining Know Your Customer/Supplier processes, fraud prevention, and cross-border compliance while providing transparent audit trails

Credential Driven Development
the framework at Truvity's core

truvity

Truvity's **DMS+ solution** is realized through a **Credential-Driven Development (CrDD)** framework. This methodology isn't just a set of tools; it's a conceptual shift that replaces fragmented, siloed processes with secure, dynamic workflows driven by **Verifiable Credentials (VCs)**. This ensures that every interaction is fraud-proof, traceable, and compliant with regulatory standards placed on your business. By automating manual processes and introducing machine-readable Verifiable Credentials, CrDD streamlines operations, enhances data security, and builds trust between stakeholders.

The CrDD Mindset: A New Way Of Thinking

By integrating Verifiable Credentials into every stage of your workflow, they become the essential building blocks for managing, sharing, and verifying information. Each VC acts as the definitive version of a document, the single source of truth for all interactions using them.

By Implementing CrDD, You'll Be:

- **Breaking Down Silos**

  Traditional document management often creates silos where departments maintain separate, duplicate versions of the same data. With CrDD, Verifiable Credentials serve as a single source of truth, ensuring that all teams access the same, up-to-date information

- **Creating A Shared Language**

  Success with CrDD requires all stakeholders to use a common vocabulary for Verifiable Credentials, workflows, and processes. Terms like "issue," "verify," and "revoke" should have consistent meanings across teams to streamline communication and execution

- **Standardizing Verifiable Credentials Across The Organization**

  Without standardized schemas, workflows become fragmented, and integrations falter. CrDD ensures that every Verifiable Credential has a clear structure, making it easy to use and share across workflows and systems

- **Committing To Real-Time Interaction**

  Static documents lead to delays and errors. With CrDD, Verifiable Credentials are dynamic, triggering actions and updates as changes occur. This eliminates manual overhead and ensures workflows remain efficient and up-to-date
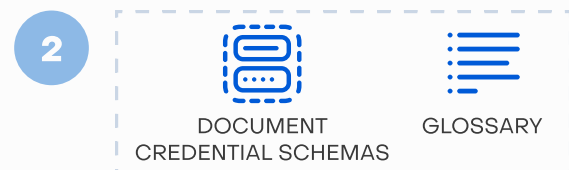
Building a Credential Driven Development framework

truvity

1

EXISTING WORKFLOWS

EXISTING DOCUMENTS

CREDENTIAL TYPES
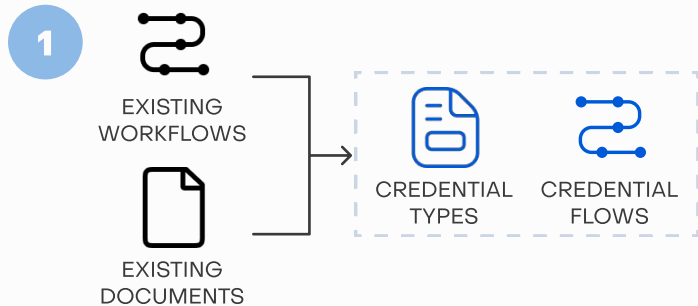
CREDENTIAL FLOWS

Implementing a CrDD framework begins by **defining credential requirements and workflows** through collaboration between domain experts, stakeholders, and developers. The first step ensures that the Verifiable Credentials align with business needs and support key processes.

The second step involves **establishing a common glossary** and standardizing credential structures.

2

DOCUMENT CREDENTIAL SCHEMAS

GLOSSARY

3

ACCESS CONTROL ROLES & ATTRIBUTES

DOCUMENTED BOUNDED CONTEXTS

CREDENTIAL-BASED ACCESS CONTROL LOGIC

To implement Credential Driven Development (CrDD) effectively, in the third step, systems are structured into distinct **bounded contexts** – such as Onboarding, Contracting, and Auditing – each managing specific credentials and defined access control rules
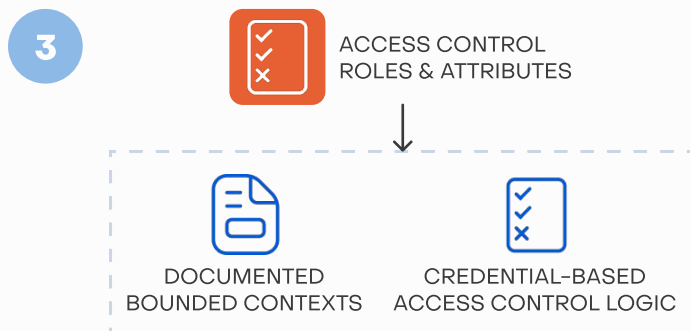
Then, fourth, **credential interactions and dependencies** are clearly specified. Rules are implemented to define how credentials interact across contexts, such as automatically deactivating access when a linked credential is revoked

4

CREDENTIAL INTERACTION MAP

DEPENDENCY RULES DOCUMENT

5

TRUVITY SDK

3RD–PARTY SYSTEM

SOLUTION CODEBASE
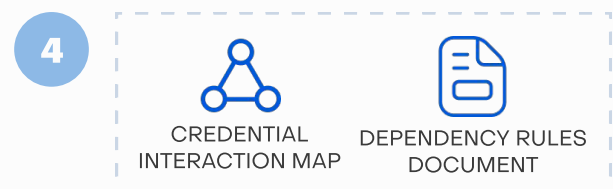
In the fifth step, the **design and implementation phase**, the development team utilizes the Truvity SDK and other tools to create a credential management application. This includes APIs for credential issuance, sharing, verification, and revocation, alongside event-driven logic for real-time updates across contexts
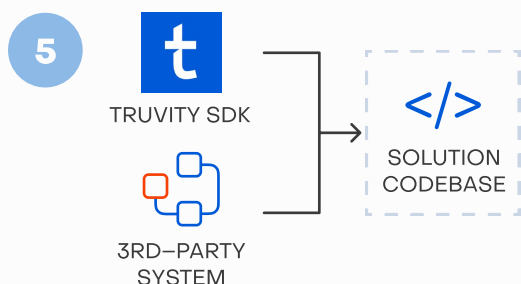
In the sixth and final step, users can begin creating "digital twins" of their documents by wrapping them in containers to **turn them into VCs**. This process involves digitizing paper-based documents, attaching them to relevant credentials, and managing them throughout the credential lifecycle

6

DOCUMENT FILES

VERIFIABLE CREDENTIALS
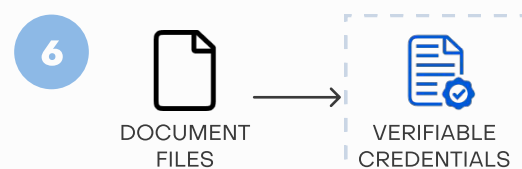
A simple workflow with Truvity

truvity

This use case demonstrates how supply chain counterparties can initiate shipments using **secure document exchange**. Throughout the lifecycle of an exchange, Truvity ensures that each document is cryptographically secure, traceable, and machine-readable, facilitating automated verification and processing.

Here, a logistics company is handling a critical shipment. As part of their processing of the parcel, new documents are created with every step for internal coordination, client communication, as well as compliance. Each of these are issued by different employees and shared with different parties, and working with DMS+ has made simple, secure, and intuitive processing possible.
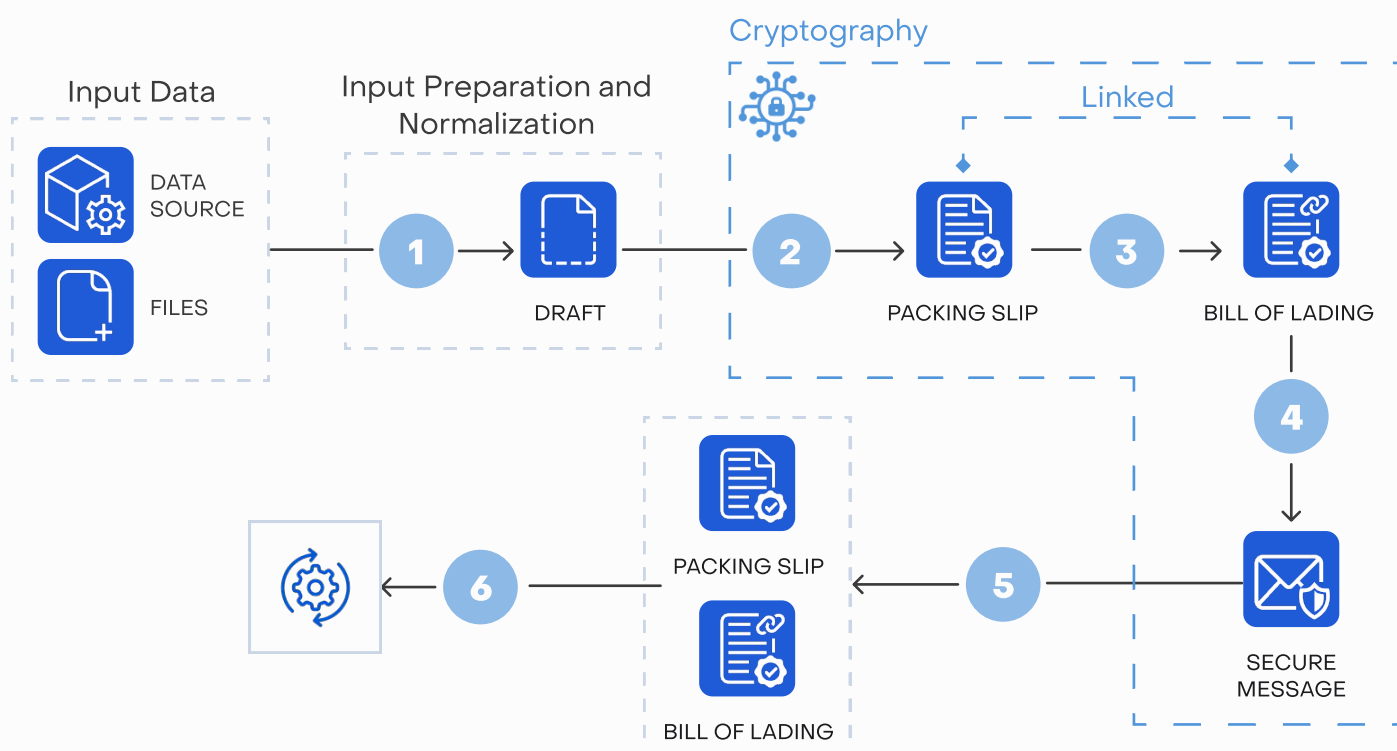
1.

Collect input data from data sources and files, and create a normalized draft packing slip

2.

After finalizing the data in the draft, issue the **tamper-proof packing slip** using your private key

3.

Create and issue the **bill of lading** which is linked to the **packing slip** to have the visibility into the hierarchy of documents

4.

Share the **bill of lading and packing slip** with the logistics provider via encrypted messaging

5.

When received, the documents are automatically verified, ensuring their validity, authenticity, and adherence to normalized schemas

6.

Once all verifications are complete, the logistics provider processes and executes the shipment

Why Truvity?

truvity

We understand that managing and securing your documents is more than a necessity – it's the backbone of your organization's efficiency, compliance, and growth. Adapting to real-world complexities have created complex systems that struggle to talk with each other, so a simpler approach is needed. That's why we've built DMS+, the next step in document management so businesses can focus on what matters most: driving success.

We make the shift to DMS+ Simple

- **Extensive Documentation And Support**

Developers won't be left guessing how to implement Truvity, we'll guide and support your development every step of the way. We'll help you build a framework unique to your business

- **API-Driven Design**

The platform's robust APIs enable the integration with third-party systems, ensuring smooth workflows between tools

- **Cross-Platform Compatibility**

Truvity supports a variety of formats and protocols, ensuring interoperability with both legacy and modern systems

- **Plug-And-Play Flexibility**

Businesses can integrate Truvity into their existing IT environments, adding the benefits of Truvity to your existing data

- **SO YOU CAN ENJOY ALL THE BENEFITS**

A New Bar For Efficiency

Create simple workflows where every document is secure, instantly accessible, and free of human error from creation to archival

Transparent And Compliant

Document verification and comprehensive histories allow for simple and accessible tracking and regulatory compliance

Cut Down Costs

Removing redundancies and bottlenecks with fragmented file systems saves your organization, and your client's, time and money

Tailored For You

Implement specific data standards, integrate with existing platforms, and customize security measures specific to your business

truvity

Contact Us

Jedrzej Krzeminski
Sales Manager

Konstantin Mashukov
Founder, CEO

Alexander Mikhailov
Product Manager

Since our inception in 2021, we have assembled a team of brilliant minds in fintech, cryptography, and regtech from around the world. Together, we are revolutionizing trust and embarking on a transformative journey of digital empowerment. Join us at Truvity as we shape a future where trust is instant, seamless, and integral to every interaction. Let's revolutionize the way trust is established and transform the digital landscape.

Let's revolutionize the way trust is established and transform the digital landscape!

- HELLO@TRUVITY.COM

www.truvity.com