



Product Data Sheet

Catenis Flow, a Drag & Drop Bitcoin Blockchain App Builder

Design, build, and deploy in minutes with a state of the art intuitive, low-code application assembly tool.

Catenis® Flow empowers rapid development by exposing packaged interface services via drag-and-drop blocks for building a new class of solutions using the premier blockchain technology, the Bitcoin Blockchain. Catenis Flow supports all of the APIs and functionalities of Catenis' platform with cross-platform integration capabilities. These capabilities include rapid enablement of secure peer messages, immutable content logging, smart contracts, and the creation and transmission of fungible and non-fungible tokens (NFTs). Catenis Flow allows your enterprise to quickly build/integrate applications with the Bitcoin blockchain using this low-code tool. All this is achieved without hiring a team of engineers, reducing development costs, and decreasing time to market versus other existing technologies.

Catenis Flow leverages the Catenis platform's second-layer technology coupled with the Bitcoin blockchain and provides **real-time immediate transactions** while **reducing transaction costs to mere cents**.

Detailed Overview

Harness the unprecedented power of the Catenis platform via a low-code, drag-and-drop builder. Create smart contracts, issue tokens, send decentralized messages, log documents, music, and movies of any size, all with visual workflow assembly. After being assembled and tested, single-click deployment produce clean Node.js code that any application can use. With Catenis Flow, you can reduce your design, development, and integration phases by an average of 90%!

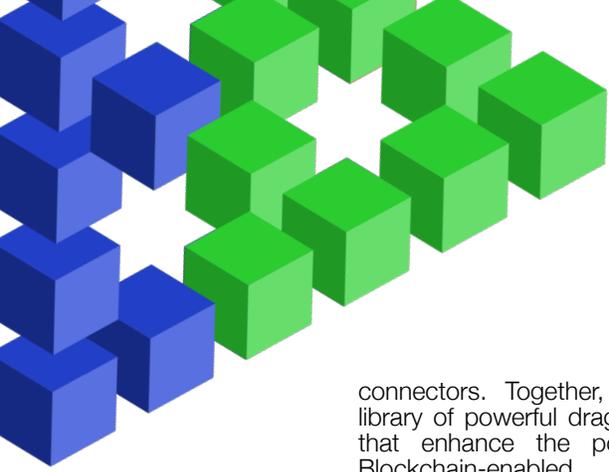
Catenis Flow is a Node-RED browser integrated visual blockchain assembly tool for building applications integrated with Bitcoin Blockchain technology. Node-RED is a flow-based development tool for visual programming that was initially developed for connecting APIs, online services, and hardware devices. Today, it is the premier open-source project for application building supported by an ever-growing number of companies and communities of developers.

Catenis Flow's workflow assembly is comprised of "Node Connectors". Each node connector represents the Catenis platform's robust Bitcoin blockchain integration services. There are twenty-seven WYSIWYG configurable node connectors that can do everything from logging content to the

blockchain to issuing Smart Assets (tokens) or transmitting content of any type or size across a peer network to name a few. The full extent and power of Catenis' APIs are now easily assembled, deployed, and fully functional within minutes.

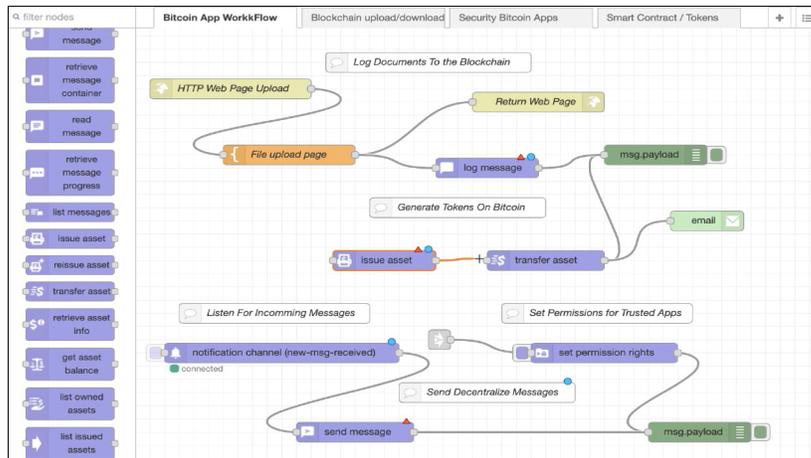
Built for enterprises that wish to quickly design great applications or a proof-of-concept, use it to orchestrate Visio-style process mapping, leaving the background details up to Catenis and Node-RED. Furthermore, since Catenis Flow's visual designer includes the full breadth of its platform's capabilities, it enables companies to use the full power of the global Bitcoin blockchain. Leverage transaction data at a global footprint, send and deliver digital content of any type or size such as documents, movies, music, and more, with the ability to permission and secure systems across the world represented by public Bitcoin addresses. With milli-second transaction speeds, military-grade encryption, and the ability to issue and transfer Smart Assets - intelligent contracts are now unleashed!

Blockchain of Things, Inc. (BCoT) understands that individual business requirements are very particular and contextual, and thus, aligns with the active Node-RED community that continues to deliver thousands of connectivity modules every month to keep expanding on our range of blockchain node



connectors. Together, this forms an extensive library of powerful drag-and-drop building blocks that enhance the power of building Bitcoin Blockchain-enabled applications. This combination is ideally suited to rapidly deploy prototypes or enterprise-ready applications for small and large companies alike.

Exporting allows quick testing and deployment to other locations, environments or simply shares your application with partners and customers. The lightweight runtime takes full advantage of its event-driven, non-blocking model, making it ideal for running on servers at the edge of the network and even low-cost hardware such as Raspberry Pi, as well as on the cloud.



Jump Start Projects Quickly

When using Catenis Flow, you can leverage Node-RED's extensive online library of thousands of prebuilt flows. This repository contains functional flows for popular enterprise applications and IoT systems. Leverage a flow that exists in the flow library while quickly adding blockchain connectivity to enable an interactive multifunctional application with the power of the Bitcoin Blockchain in minutes. Discover the thousands of flows in their online flow library [here](#)

Key Features of Catenis Flow

Browser-Integrated

Catenis Flow uses a browser-integrated editor that makes it easy to link together node connectors to create flows that deploy as applications. Flows tied to blockchain functionality can be deployed to a runtime in a single click. The editor can be run locally or on the cloud (AWS, Azure, Bluemix, etc.), providing ultimate flexibility. JavaScript functions can also be created within the editor using a rich text editor for granular control of application functionality.

Easily Connect Across Enterprise Systems

An extensive free library of over 2 million prebuilt node connectivity components allows easy integration into popular enterprise systems, such as databases, customer relationship management, content management, and even AI platforms. Extend the power of blockchain connectivity across all critical enterprise systems creating a homogenous application connected to heterogeneous environments.

One-Click Flow Export / Import

After design and assembly, the built-in Node.js system allows you to export and save useful functions or complex flows as templates for re-use.

Blockchain Specific Features

Logging and Sending Content

Advanced Bitcoin blockchain inscribing technology and a cutting-edge transaction assertion platform cryptographically signs and verifies message sending and delivery while providing "read confirmation" assurance. All transmitted data is blockchain logged upon sending and delivery, granting unprecedented end-to-end cryptographic auditable guarantees. Attaching proof-of-origin to the content, which links applications that logged or sent blockchain content to the owner's domain record(s) and legal contracts, proving administrative authority over auditable provenance.

Catenis Smart Assets

Catenis Smart Assets (tokens) are issued and live on the Bitcoin blockchain, based on the Catenis proprietary protocol, enhancing token security features and creating flexibility over common token functionality and protocols. Both Fungible and non-fungible tokens (NFTs) can be issued. These Smart Assets can be transferred between applications and even exported to other blockchains or used as inputs to Smart contracts built on Catenis Flow.



Asset (Token) Export / Import

Easily convert Catenis Smart Assets to tokens on the Ethereum blockchain, Polygon PoS Chain, or Binance Smart Chain. Using Catenis Flow, you can migrate your tokens to these blockchain protocols and back into the Catenis platform when needed, allowing you to take advantage of the Bitcoin Blockchain. Providing bidirectional export/import support for all four blockchains enables companies to avoid the limitations of any one specific blockchain or token type.

Message Encryption

Catenis Flow includes technologies to secure all content during transmission or logging using data encryption and includes built-in Public Key Infrastructure (PKI) management. Ongoing costs of securing and managing keys are no longer a concern. Using the Advanced Encryption Standard (AES) provides our customers with military-grade encryption. The US Government adopted AES in 2001, and it has since been adopted worldwide.

Permission Layer

Catenis' permission layer allows customers to limit communication between designated applications within or beyond the scope of your enterprise. This robust permission system protects Catenis enabled applications and devices. Catenis creates the equivalent of a shield or barrier applied to the Catenis enabled application you control to handle permissions on the decentralized open public Bitcoin blockchain. Since Catenis does not control the global Bitcoin blockchain, it cannot keep a random Bitcoin transaction from being sent to any address represented by Catenis enabled apps on the blockchain; a potentially costly mistake. Therefore, Catenis prevents any unauthorized transactions from ever reaching any applications/devices across its second layer by managing the Permissions for Systems that are under the control of your enterprise. Permissions are highly configurable to all platform actions and are set to either "allow" or "deny" at four different levels: System • Catenis Node • Client • Virtual Device

Notification Services

Catenis was built with a robust notification services layer to allow blockchain-enabled applications to receive real-time message notifications of events throughout the Catenis platform. Such predefined events are referred to as "Notification Events." Catenis' notifications are conveyed by means of "Notification Messages," the contents of which vary based on various conditions that occur throughout the platform. These granular notifications are sent via the WebSocket protocol making them easy to implement across all of your applications.

How to Get Started with Catenis Flow

- Get a FREE Catenis Account by clicking [Here](#)
- Log in to the administrative dashboard after account activation by clicking [Here](#)
- Create your first Virtual Device on your dashboard by clicking [Here](#)
- Install Node-RED by clicking [Here](#)
- Install Catenis Flow pallet on Node-RED by clicking [Here](#)
- Configure your first Virtual Device on Catenis Flow by clicking [Here](#)
- Test Catenis Flow connectivity

About Blockchain of Things, Inc (BCoT)

Formed in 2015, Blockchain of Things, Inc. has become a leader in Bitcoin blockchain integration technology. Their premier product Catenis® provides second layer, low-code rapid development tools, that reduces cost, complexity, and time to market. Enabling easy integration with the Bitcoin blockchain, simplifying encrypted peer-to-peer messaging, token issuance, immutable data recording, and tracking. The company headquarters is in New York City, USA.

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