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# Development History and Timeline

**blockchain**  
*Of Things*



## Q2 2014

Founder Andre De Castro, while developing enhanced Bitcoin wallet software technology, realizes the incredible value that the Bitcoin blockchain decentralized architecture brings to the worldwide Internet of Things (IoT). Millions of dollars of transactions were being handled daily on the Bitcoin blockchain without subversion and those principles could be readily applied to solve difficult problems with IoT device trust and security. Product concept is formed, Catenis Enterprise is envisioned.

## Q3 2014

Team forms the initial concept of Catenis Enterprise to allow organizations to simply and rapidly leverage the Bitcoin blockchain to securely accelerate their IoT growth. Blockchain of Things company Domain Names are registered and efforts to code software components to resolve Bitcoin blockchain limitations for enterprise IoT using a simple and powerful Layer 2 approach begins.

## Q1 2015

Prototype coding commences to build initial message logging and transmission capabilities and a simplified version of API's are developed. Prototype API demonstrations are delivered to key organizations to gauge interest and gather important market feedback.

## Q2 2015

Blockchain of Things team showcases their accomplishments to a gathering hosted by GE Global Research of hundreds of the world's leading industrial companies that make up the Industrial Internet Consortium (IIC). Due to overwhelming interest by IIC participants in the potential of the Alpha-prototype solution, the Blockchain of Things team moves to incorporate in State of Delaware and officially launch the company.

## Q3 2015

Catenis Enterprise functional specifications are created defining primary features of the upcoming production beta product. Team begins rewriting to improve product software code leveraging lessons learned from prototype. Catenis domain names are registered. Catenis Enterprise is born ushering in a new breed of layer two bitcoin blockchain technology, providing companies with a low cost, rapid integration layer which overcomes many of the bitcoins blockchains limitations for building decentralized applications and empowering the IoT.

## Q1 – Q4 2016

Engineering, marketing, and operational team expands. Team participates in global product demonstrations, and blockchain conference presentations. Company bring on investors to continue funding of building of the beta product and expands its board of directors with key enterprise software managerial talent. Engineering focuses all of its efforts on releasing the first version of beta product with target in Early 2017.



## Q1 2017

Release of first revision of Catenis Enterprise beta, which includes version 0.1 of the Catenis API. This initial version of the API includes the following services:

- Log Message
- Send Message
- Read Message
- Release of initial version (1.0.0) of JavaScript Catenis API Client, supporting version 0.1 of the Catenis API supporting Attestation Proxy.
- Release of version 0.1 Pilot Development Kit (PDK)



## Q2 2017

Release of version 0.2 of the Catenis API, including:

- Enhancements to Log Message, Send and Read Message services
- Addition of new Retrieve Message Container service
- Release of version 1.1.0 of the JavaScript Catenis API Client, supporting version 0.2 of the Catenis API

June Release of version 0.3 of the Catenis API, includes:

- Addition of new List Messages service.
  - April Release of version 1.2.0 of the JavaScript API Client, supporting version 0.3 of the Catenis API
  - June Release of initial version of the C++ Catenis API Client library. API documentation v0.1
- May Release of initial version of (Simple) Catenis Admin UI



## Q3 2017

Release of version 0.4 of the Catenis API, includes permission services:

- List Permission Events
- Retrieve Permission Rights
- Set Permission Rights
- Check Effective Permission Right
- Retrieve Device Identification Information

Release of version 0.2.3 of Catenis Enterprise featuring new Notification Services including support for Web Socket Notification Message Dispatcher.

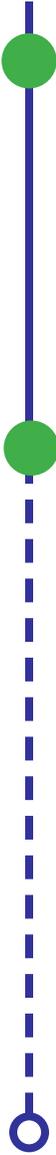
September 2017 Release of version 1.3.0 of the JavaScript Catenis API Client, supporting version 0.4 of the Catenis API, and also including support for new Catenis Notification Services via Web Socket channels (by means of Catenis' Web Socket Notification Message Dispatcher).



## Q4 2017

Release of version 0.5 of the Catenis API, which includes:

- Enhancements to Send Message and List Messages services.
- Read confirmation for send message service.
- Release of version 1.4.0 of the JavaScript Catenis API Client
- Supporting version 0.5 of the Catenis API with functionality for setting read confirmation as optional via notification services.



## Q1 2018

Release of version 0.6 of the Catenis API which includes:

- New Smart Asset, creation, transfer and asset information services
- Enhanced permission events for Smart Asset events
- Updated version (ver. 0.2) of the Catenis notification service
- Release of version 1.7.2 of the JavaScript Catenis API Client
- Released Catenis system version 0.3.8

## Q2 2018 and Beyond

Blockchain of Things is run by seasoned professionals with a focus on delivering working product and not future claims. Our focus is to help companies rapidly leveraging the global Bitcoin blockchain to improve their competitive position in their respective markets. Structured as an “Engineering first” company we are disciplined enough not to make specific delivery date promises but rather deliver quality working product based on customer demand. With this understanding the following items are on our near-term delivery roadmap (order does not imply chronological development):<sup>1</sup>

- Catenis Flow – Code free Catenis integration assembly platform
- MQTT Notification Message Dispatcher
- Catenis API Client libraries for additional platforms NET/C++, Java, and Python
- Catenis Gateway
- Flash Network services
- End-user Admin UI
- Catenis Decentralized Application store.
- Finalize encoding all system state in the blockchains input output system
- Cross blockchain connectors and interpreters

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<sup>1</sup> The Catenis Enterprise and Catenis Services may undergo significant changes over time. The functionality described as part of the Development History and Timeline document under Q1 2018 and beyond and referred to in the text corresponding to footnotes 20, 22, 42, 48 and 50 of the whitepaper may never be developed by the Company. For the functionality described in the Whitepaper that is currently available at the time of purchase of BCOT Tokens under the applicable purchase agreement, we may have to make changes to the specifications of the BCOT Tokens, Catenis Enterprise or Catenis Services for any number of legitimate reasons. This could create the risk that the BCOT Tokens, Catenis Enterprise or Catenis Services, as further developed and maintained, may not meet your expectations at the time of purchase of BCOT Tokens under the applicable purchase agreement.