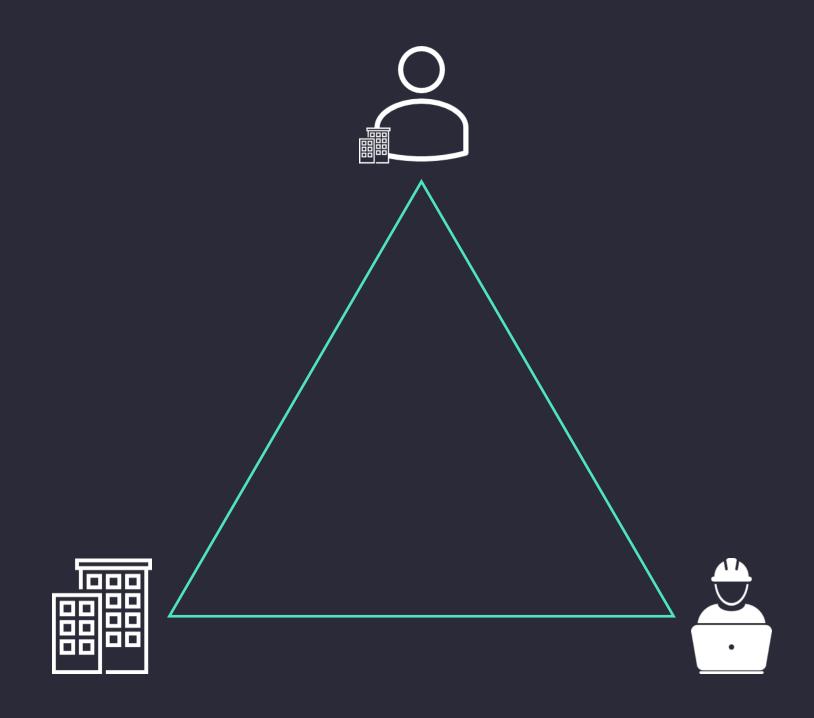
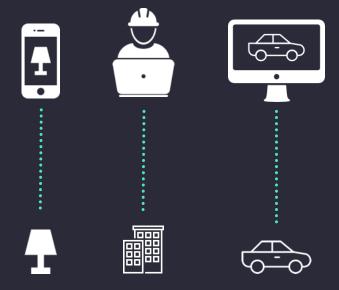
Celayster

Spring 2013

Target solution Open, competitive and keeping integrity North **One Device One Service** used in the using devices Middle from multiple context of many verticals in services in parallel parallel South Vertical 1 Vertical 2 Vertical 3 Vertical 4 Vertical 5





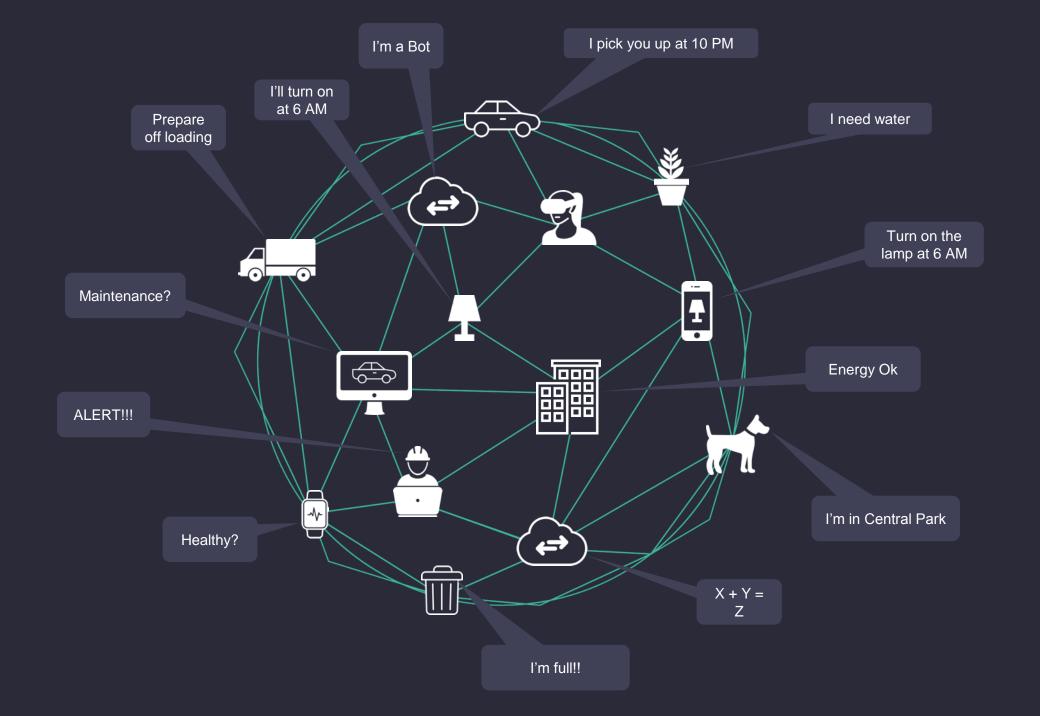


Yesterday

One – To – Many

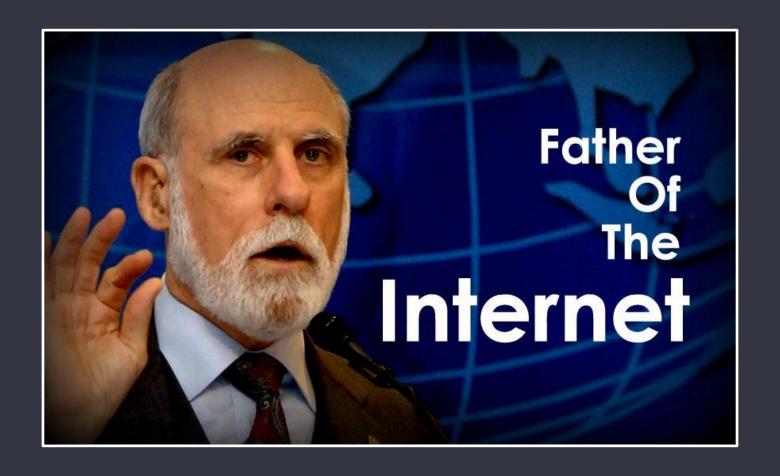


Today



Handbook: Internet of Things Alliances and Consortia





"I would not propose HTTP for IOT interoperability either for a lot of reasons."

Vint Cerf (email to me)



Identitet

Ägare



eIDAS

The 8 most important aspects



Things



















Committee of ISO/IEC JTC1/SC31

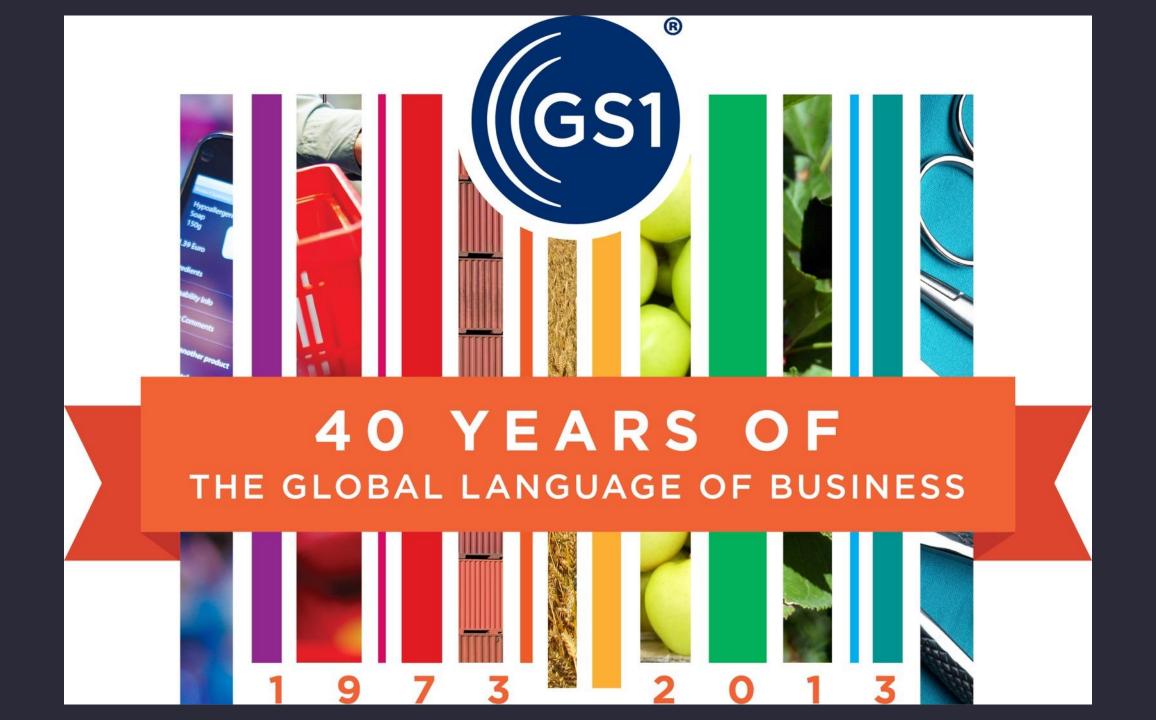
Automatic identification and data capture techniques

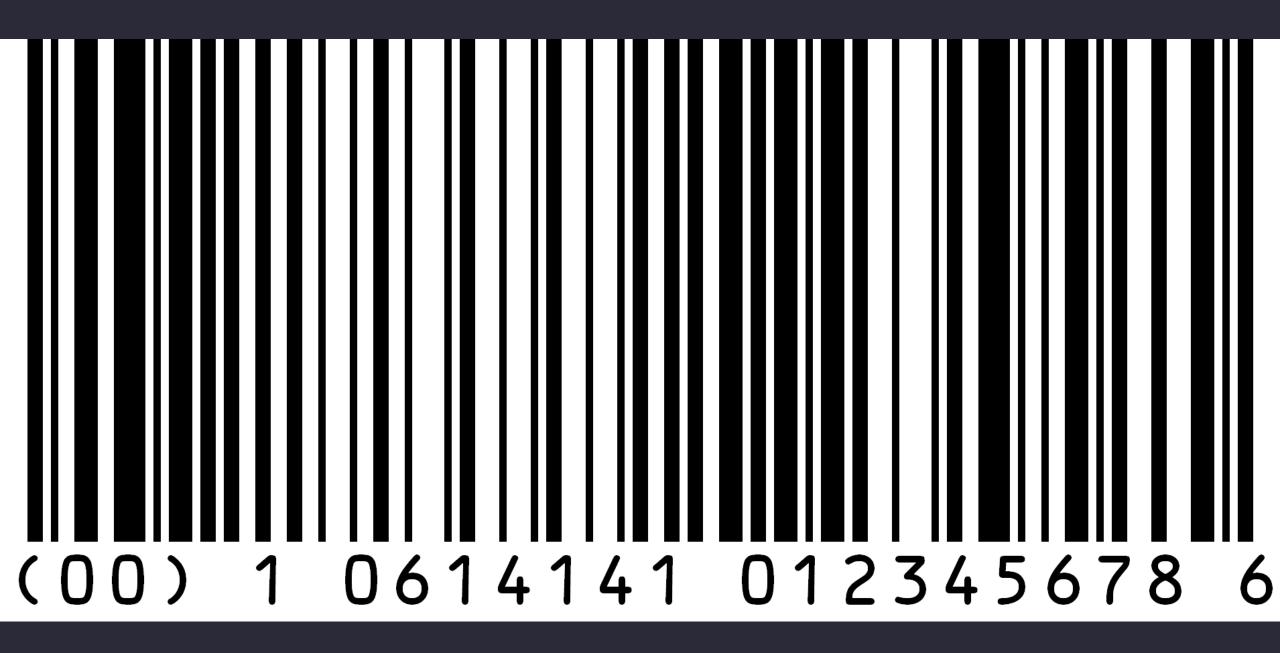




Committee of ISO/IEC 29161

Unique identification for the Internet of Things





Interoperabilitet

Syntaktisk







Member of ISO/IEC/IEEE WD 21451-1-4

Standard for a Smart Transducer Interface for Sensors, Actuators, and Devices - eXtensible Messaging and Presence Protocol (XMPP) for Networked Device Communication.

IoT Special Interest Group



XNPP

Why XMPP

Open

The XMPP protocols are free, open, public, and easily understandable.

Standard

The Internet Engineering Task Force (IETF) has formalized the core XML streaming protocols as an approved instant messaging and presence technology.

Proven

The first Jabber/XMPP technologies were developed by Jeremie Miller in 1998.

Decentralized

The architecture of the XMPP network is similar to email. No single point of failure. No central master server.

Secure

Robust security using SASL and TLS has been built into the core XMPP specifications. The XMPP developer community is actively working on end-to-end encryption to raise the security bar even further.

Extensible

Anyone can build custom functionality on top of the core protocols; to maintain interoperability, common extensions are published in the XEP series.



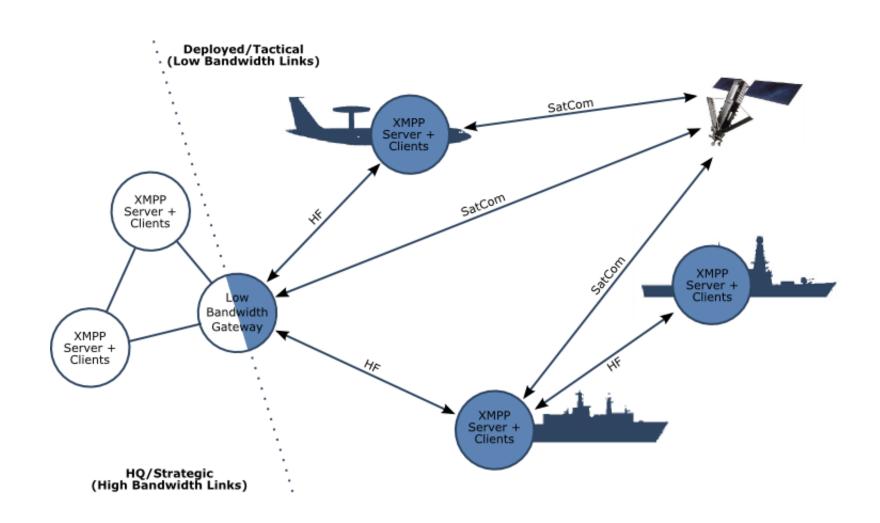
"WhatsApp uses a customized version of the open standard eXtensible Messaging and Presence Protocol (XMPP)"

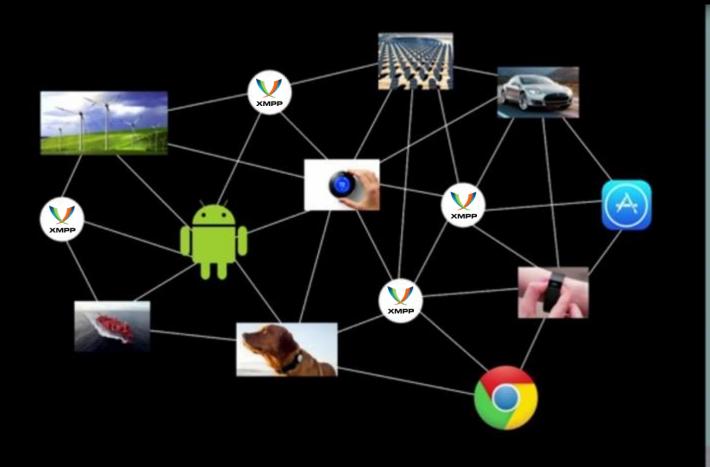
Wikipedia

"It supports over 800 million active users and 30 billion messages daily and is an iconic example of a reliable and scalable messaging solution."

Erlang Solutions

Military Grade Security



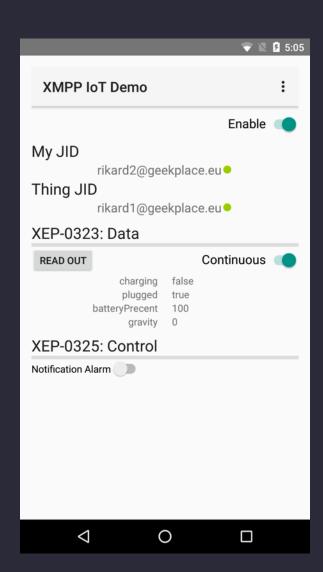








Open Source





Posted by Flow of in Ignite Realtime Blog on Jul 23, 2016 6:52:50 AM

Starting with b91978dcc4ae Ppartial support for the IoT XEPs was added to Smack. The XEPs consists, amongst other XEPs, of

XEP-0323: Data

• XEP-0324: Provisioning

XEP-0325: Control

XEP-0347: Discovery

The XEPs are in experimental state, which means changes to them are possible.

Smack does currently only support a partial set of the mechanisms specified, especially when it comes to Data and Control. For example only boolean and integer values can be read and written But support for more data types can be easily added.

The IoT API for those XEPs is available in the latest snapshot builds of Smack, which are available via Maven Central's snapshot repository . A quick start quide can be found here .

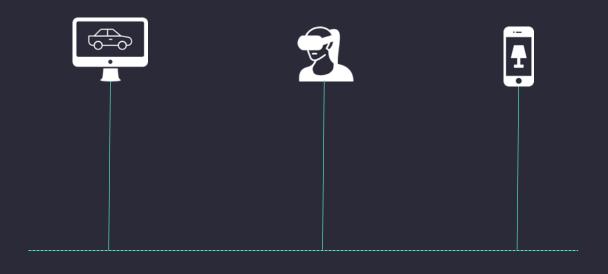
The development of the API was sponsored by Clayster 2.

Clayster creates technology to secure trust in the transactions between physical and digital entities, and strives to be that generic foundation for your physical assets digital life.

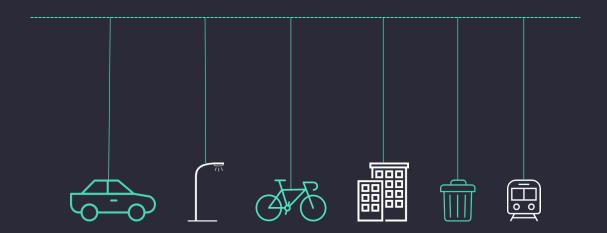
Clayster has an IoT discovery and provisioning platform supporting XEP-0347 and XEP-0324. The platform is available for those who are interested to explore XMPP and IoT further. If you don't want to run your own infrastructure, Clayster is able to provide an XMPP Server and the discovery/provisioning platform for you. Feel free to reach out to rikard at clayster.com if you are interested to learn more about using XMPP for your next IoT project.

www.clayster.com

1509 Views Tags: planetjabber, smack

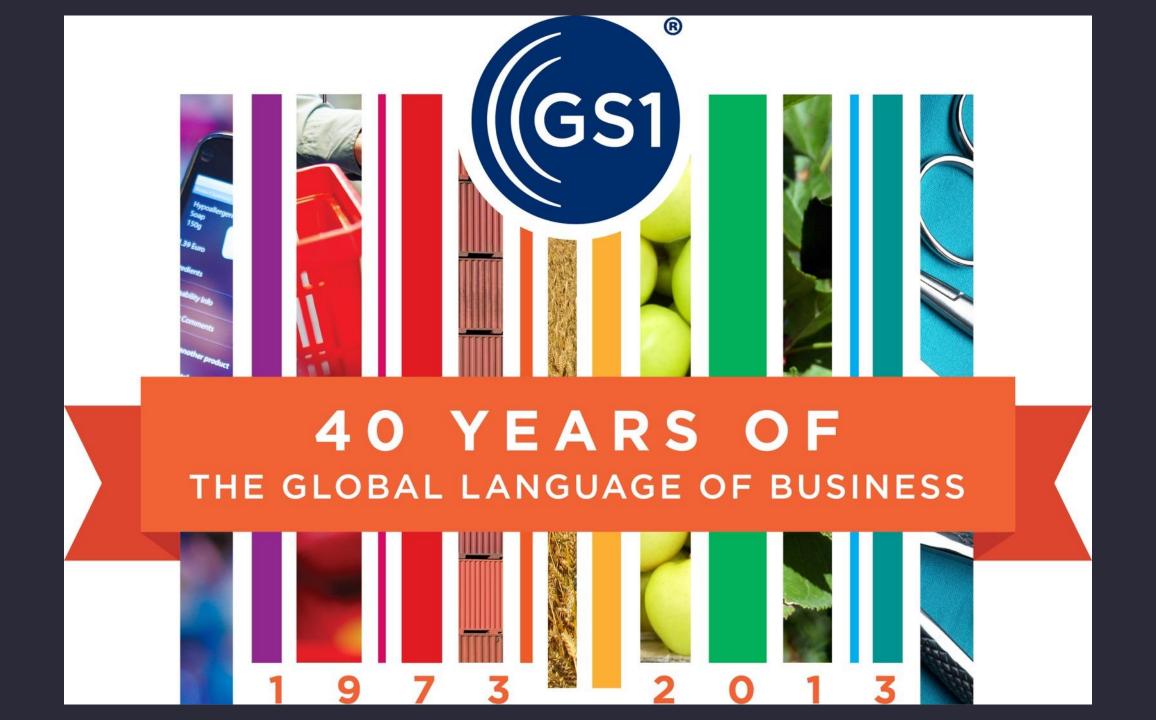


XMPP



Semantisk











Committee of ISO/IEC JCT1/WG10

This work item specifies IoT conceptual reference model, and reference architecture from different architectural views, common entities, and interfaces between IoT domains.

TS 308100:2016 (Sv)



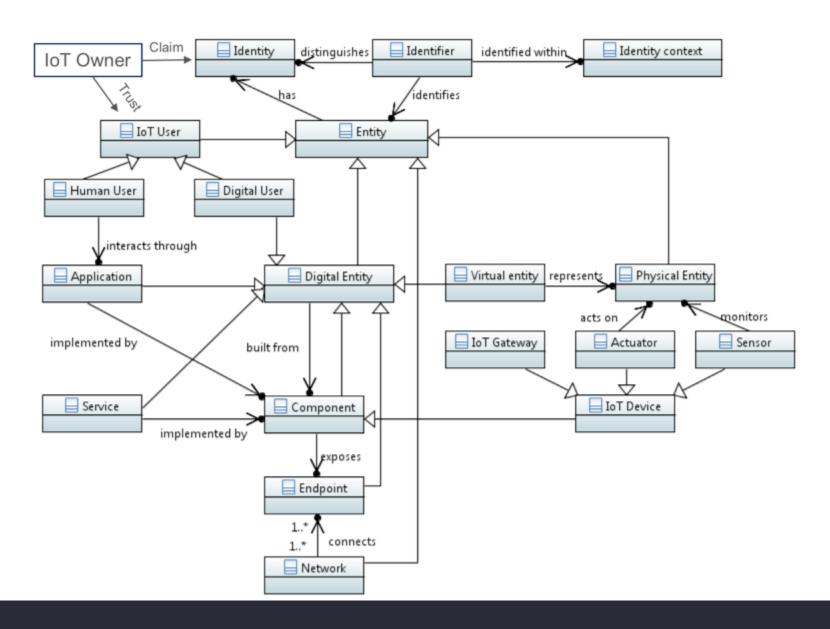
TEKNISK SPECIFIKATION TS 308100

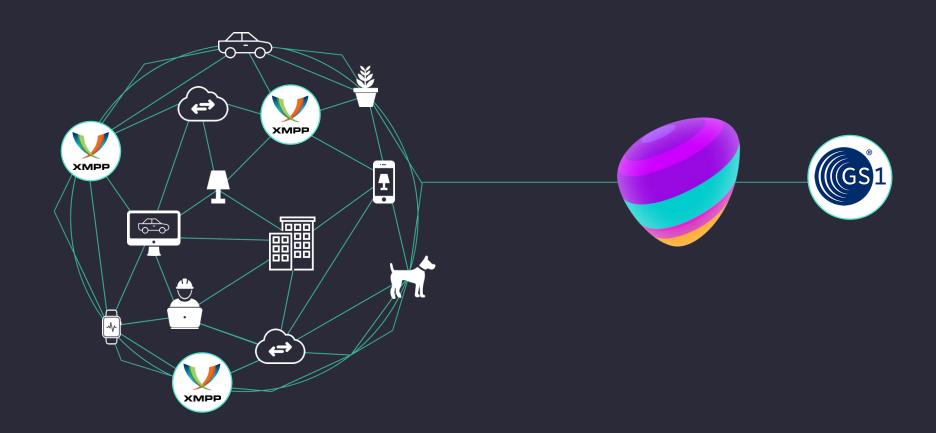
Utgåva 0.7.1

Referensarkitektur för Internet of Things

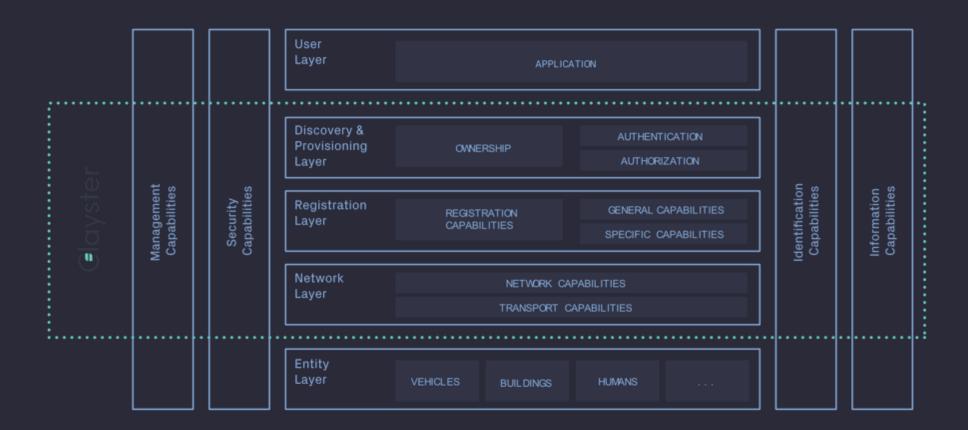
Reference architecture for Internet of Things

Architecture





Architecture



NEXT GENERATION INTERNET