



COMMUNITY NETWORK



www.ioecommunity.org



@IoECommunity



IoE Community Network

**Expressions of Interest
information pack for
Perth IoT Communications Network**

CONTEXT



This information pack seeks to gather expressions of interest from volunteers to join an innovative and highly valuable Internet of Everything Perth Community Project.

Submitted role applications will be assessed from 20th May 2017



MISSION

SEARCH

IoE
COMMUNITY NETWORK

**We will build and operate an
open, decentralised & free
Internet of Things communications network.**

**It will enable the broader Perth community to
innovate, learn & demonstrate the value of IoT.**

OPPORTUNITY



Express your interest to support or join the project team that will plan & deliver the Perth IoT Communications Network.

Your volunteer effort will provide Perth with IoT infrastructure managed by the community for the community.

Using our large member base we can cover the majority of Perth metropolitan area from Two Rocks to Bickley to Mandurah with free IoT wireless connectivity.

LOGISTICAL DETAILS



- The project will be run by IoE Perth Community volunteers.
- IoE Perth Community is partnering with The Things Network to deploy a Long Range Low Power Wide Area Network across Perth.
- Wireless gateways will be supplied through sponsorship.
- Gateways will be hosted by community members and industry.
- Network configuration and administration will be managed by community volunteers with support from TheThingsNetwork.org
- Training facilitation for IoT node development will be delivered by community members.



TECHNICAL DETAILS



- The network uses [LoRaWAN](#) which is a ideal for IoT applications.
 - ✓ ~10 year battery lifetime for sensors
 - ✓ ~15km wireless range with data rates 300b/s to 50kb/s
 - ✓ Highly scalable to billions of sensors and millions of nodes
 - ✓ AES128 security makes tampering and eavesdropping extremely hard
 - ✓ Runs on 915-928 band which is an un-licensed Australian spectrum

EXPRESS YOUR INTEREST

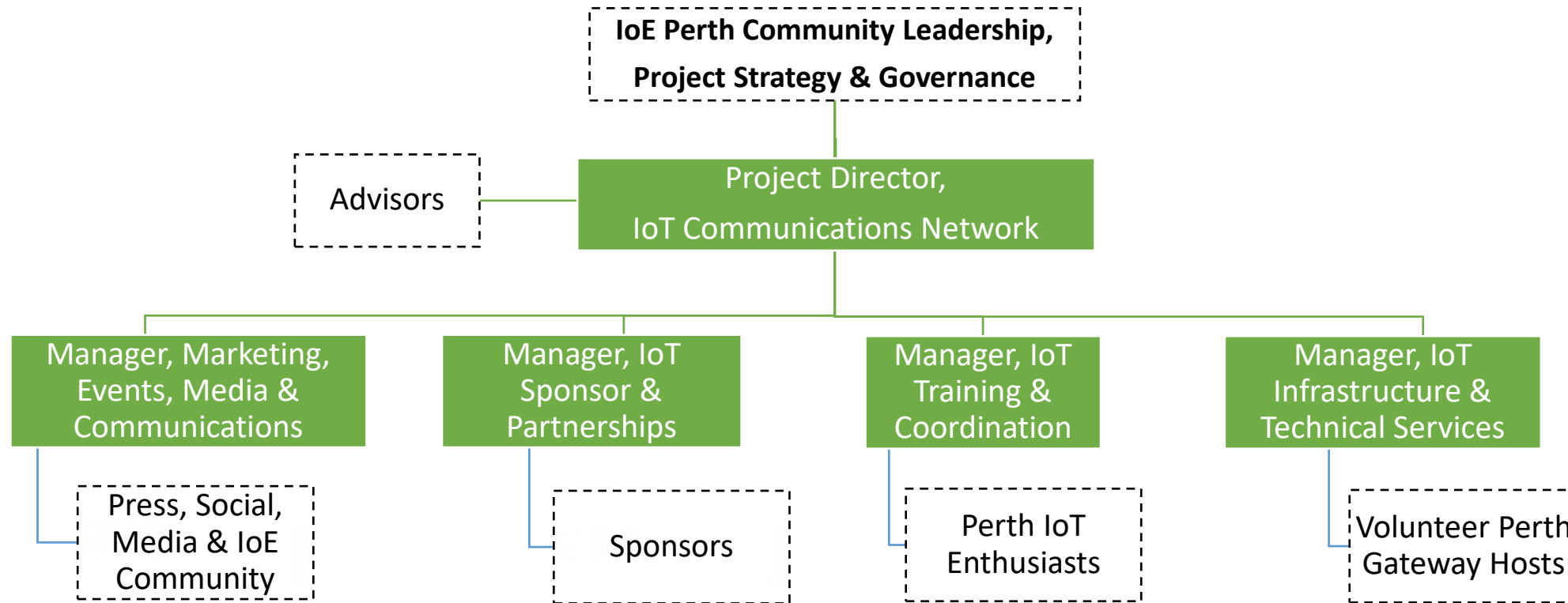


1. Register for project updates and collaboration at <https://www.thethingsnetwork.org/community/perth/>
2. Review project team roles in this pack and email me at tom@zorde.com with a brief summary of your relevant skills and what you hope to achieve from volunteering your time.
3. Tell others about the project to help make it successful.

AVAILABLE PROJECT ROLES



The **GREEN** roles are available for those with the right attitude, experience and interest!



Note: Structure and Roles are subject change

NEXT STEPS



Indicative Timeframes

- May 2017 Project team formation
- June 2017 Project planning commences
- July 2017 Sponsored LoRaWAN gateways acquired
- Aug 2017 LoRaWAN gateway deployment commences
- Sep 2017 IoT node development workshops
- Oct 2017 First IoT prototypes presented at IoE Perth Community event.

BACKGROUND INFORMATION

- [Internet of Everything Perth Community](#) is run by volunteers. Since starting in 2015 we've grown to 1250 IoT enthusiasts.
- We work with industry, academia, government and start-ups and host monthly events where members can network and hear from thought leaders about the topic of Internet of Things, Big Data Analytics and models for Digital Disruption.
- We are the Western Australian chapter that contributed to launching the global IoE Community Network.
- [IoE Community Network's](#) mission is to make the world a better place through The Internet of Things. It is more than 10,000 community members and operates in cities across 4 continents.
- [The Things Network](#) is a global community of over 15,000 people over 84 countries building a global Internet of Things data network.

Past Perth Sponsors



The logo for Datacom, consisting of the word 'DATACOM' in white capital letters on a dark blue rectangular background.

The logo for KPMG, featuring the letters 'KPMG' in a stylized blue font.

The logo for Satalyst, with the word 'SATALYST' in blue and a stylized 'Y' that incorporates a signal icon, with the tagline 'DELIVERING BRILLIANT BUSINESS SOLUTIONS' below.

The Microsoft logo, featuring the four-colored square icon followed by the word 'Microsoft' in its signature font.

The logo for Cathara Consulting, featuring a stylized 'Q' icon followed by the word 'cathara' in lowercase and 'CONSULTING' in smaller capital letters below.

The Oracle logo, with the word 'ORACLE' in its characteristic red font.

The IBM Watson logo, featuring a stylized globe icon with blue and green lines and the text 'IBM Watson' below.

The logo for Curtin University, featuring a stylized sun or gear icon above the text 'Curtin University'.

The GE Digital logo, featuring the GE monogram icon followed by the text 'GE Digital'.

The SAP logo, with the letters 'SAP' in white on a blue background.

The Salesforce logo, featuring the word 'salesforce' in white inside a blue cloud shape.

The Amazon Web Services logo, featuring the orange cube icon followed by the text 'amazon web services'.

The Cisco logo, featuring a stylized signal icon above the word 'CISCO' in red.

The IBM logo, consisting of the letters 'IBM' in a stylized blue font.

The Hitachi logo, with the word 'HITACHI' in bold black and the tagline 'Inspire the Next' below.

THANK YOU



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