IoT Developer Survey

Thank you for participating in the IoT Developer Survey. For the purpose of this survey, an IoT solution is defined as a solution that includes devices, sensors or actuators connected via the Internet. It does not include typical mobile applications or traditional desktop solutions.

1. What is your job title?
   1. Developer
   2. Architect
   3. Testing
   4. Development Manager
   5. Product Manager
   6. Role in sales and/or business development
   7. Executive
   8. Student
   9. Researcher
   10. Other
2. What is your current technology focus within your organization?
   1. Embedded Software
   2. Hardware Design
   3. Networking Infrastructure
   4. Enterprise Software
   5. Web Development
   6. Mobile
   7. Big data, data analytics
   8. Cloud Computing
   9. Other
3. How large is the organization you work for?
   1. 1-49 employees
   2. 50-500
   3. 501-5000
   4. Greater than 5000
   5. Student
   6. Independent Consultant
4. What is your experience with building IoT? NOTE: For the purpose of this survey, an IoT solution is defined as an application that connects devices, sensors or actuators via the Internet. It does not include typical mobile applications or traditional desktop solutions.
   1. I develop IoT solutions for my company
   2. I am researching IoT technology for my company
   3. I develop IoT solutions in my spare time
   4. I am learning about IoT technology in my spare time
   5. No experience
5. What is your company’s plan for IoT solutions?
   1. My company develops and deploys IoT solutions today
   2. My company plans to develop and deploy IoT solutions in the next 6 months
   3. My company plans to develop and deploy IoT solutions in the next 6-18 months
   4. My company has no plans to develop IoT solutions
   5. Don’t know
6. What industry best describes the type of IoT solutions you have built or will build?
   1. Home automation
   2. Wearables
   3. Industrial Automation
   4. Automotive
   5. Agriculture
   6. Retail
   7. Transportation
   8. Healthcare
   9. Security / Public safety
   10. IT & Network Infrastructure
   11. Vending
   12. Building Automation
   13. Fitness
   14. Utilities
   15. Energy Management
   16. Other
   17. <<< Need to add to this list>>>>
7. What are the top 2 concerns for developing IoT solutions? (Pick 2)
   1. Security
   2. Cost
   3. Performance
   4. Integration with Hardware
   5. Maintenance
   6. Complexity
   7. Certification/Conformance
   8. Interoperability
   9. Privacy
   10. Data Analytics
   11. Connectivity
   12. Other
   13. Don’t Know
8. What type of vendors will have the most influence in selecting IoT technology? (pick 2)
   1. Semi-conductor manufacturers (ex. ARM, Intel, Qualcomm, etc)
   2. Hardware vendors (ex. Eurotech, Sierra Wireless, etc)
   3. Network operators (ex. AT&T, Deutsche Telekom, Vodafone, etc)
   4. Mobile device manufacturers (ex. Apple, Google, Samsung)
   5. Enterprise software vendors (ex. IBM, SAP, Oracle, etc.)
   6. Cloud providers (ex. Amazon, Google, etc.)
   7. System Integrators (ex. Accenture, IBM, etc.)
   8. Industry Solution provider
   9. Other, specify:
   10. All technology decisions are made in-house
   11. Don’t know
9. What programming language(s) do you use to build IoT solutions? (Multiple selection)
   1. Assembler
   2. C
   3. C++
   4. Go
   5. Java
   6. JavaScript
   7. Lua
   8. PHP
   9. Python
   10. Other
10. What messaging protocol do you use for your IoT solution (Multiple selection)
    1. AMQP
    2. CoAP
    3. DDS
    4. HTTP
    5. MQTT
    6. XMPP
    7. In-house
    8. None
    9. Don’t know
    10. Other, please specify
11. What connectivity protocol(s) do you use for your IoT solution? (Multiple selection)
    1. Bluetooth / Bluetooth Smart
    2. Cellular
    3. Satellite
    4. WiFi
    5. Zigbee
    6. UPnP
    7. Thread
    8. 6LoPAN
    9. Don’t know
    10. Other, please specify
12. Which operating systems do you use for your IoT devices?
    1. No OS / Bare-metal
    2. Linux
    3. Windows Embedded
    4. Contiki
    5. mbed
    6. TinyOS
    7. RIOT
    8. FreeRTOS
    9. Don’t know
    10. Other
13. Have you ever used any open hardware platforms like Raspberry Pi, Arduino, BeagleBone, etc. ?
    1. Yes, my company deploys IoT solution using an open hardware platform.
    2. Yes, my company prototypes IoT solutions using an open hardware platform.
    3. Yes, I have experimented with open hardware in my spare time
    4. No, but I intent to experiment with open hardware in the next 6 months.
    5. Never used open hardware.
14. How do you rank your organization’s participation and awareness of the following IoT Consortiums?

Criteria – Active Participant, Very Interested, Interested, Not Applicable, Never Heard of them

* 1. Allseen
  2. Eclipse IoT
  3. IEC
  4. IEEE
  5. IEFT
  6. Industrial Internet Consortium (IIC)
  7. OASIS
  8. Open Interconnect Consortium (OIC)
  9. OMA
  10. OneM2M
  11. Thread

1. What company or companies do you see as being a leader in IoT? [this would allow people to write in a company name]