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The LoRaWAN® specification is the Low Power Wide Area (LPWA) protocol for wirelessly connecting battery things to the Internet on regional, national, or global networks. The protocol includes features that support low-cost, mobile and secure bi-directional communications for the Internet of Things (IoT), machine-to-machine (M2M), smart city and industrial applications. The LoRaWAN protocol® optimized for low energy consumption and is designed to scale from a single gateway to a large global network with billions of devices. Innovative features of the LoRaWAN specification® include support for overexploitation, geolocation, low-cost and low-power. Devices can even work on energy-gathering technologies that enable mobility and ensure true ease of use on the Internet of Things. LoRaWAN® the LoRaWAN Document Specification® specification documents are developed and maintained by LoRa Alliance®: an open association of collaborating members. To fully define the ® of LoRaWAN, and to ensure compatibility between devices and networks, LoRa Alliance® develops and maintains the following documents: Core LoRaWAN® The Back-End Interfaces Regional Settings Certification Program While these specifications define technical implementation, they do not define any commercial model or deployment type (public, general, private, corporate) and thus offer the industry the freedom to innovate and differentiate in how the LoRawan system is implemented®. The specification defines and thus provides seamless compatibility between manufacturers, as evidenced by the device certification program. Core LoRaWAN® LoRaWAN Specification® The White Paper defines the parameters of the LoRa physical layer® device to the infrastructure and network protocol LoRaWAN® including the MAC layer team, Frame content, classes, data rates, security and flexible network frequency management Download the loRaWAN document specifications® Regional Parameters LoRaWAN® Regional Options Document contains approved frequency channel plans for different global regions, and follows established regulatory restrictions in these regions. These details are managed separately from the core LoRaWAN specification® that allows the Alliance to respond quickly to regional regulatory requirements. The LoRa (R) physical parameters covered by regional parameters include: preamble format, channel frequencies, data speed, Tx output power, and time and power control. Download the regional settings of LoRaWAN's Back-End Interfaces® Backend Interfaces document supports network decomposition into compatible nodes as required for inter-weather roaming. The Back-End Interfaces specification provides protocols that servers with different roles, such as: MAC layer control, MAC, authentication or applications behind the scenes in the main network. Separating these servers allows you to open up vendor choices for each element of the value chain, empowering the ecosystem. Download the Back-End Interfaces certification program for any technology to scale within an open ecosystem with multiple vendors, making it critical to ensure compatibility. This provides adopters with a guarantee of compliance with the LoRaWAN protocol® interface between end devices and network infrastructure: Member Benefits of the LoRa Alliance® Certification Program: Listing in Certified Products page on LoRa Alliance® website Top Ranking and Visibility by LoRaWAN® product catalog eligible to use officially LoRaWAN® CertifiedCM Product Promotion logo in LoRa Alliance® Pledge Prominent Positioning in LoRa Alliance® demonstrations at exhibitions highlighted through social media and alliance bulletin of LoRa Alliance Certification Types® Certification Program ensures that the end devices meet national regulations in each region, and LoRaWAN® features needed to ensure compatibility and compliance. Learn more about the certification authorized test service providers and the LoRa Alliance certification process® Authorized Test Homes (ATH) can test for the LoRa Alliance ® certification program. Relevant national compliance and registration test reports come along with the LoRaWAN report® of compliance before receiving ® LoRaWAN. LoRaWAN® Regional Options v1.0.2® LoRaWAN® Regional Settings v1.0.2® File Type: app/pdf LoRaWAN® Specification v1.0 LoRaWAN® File Specification v1.1.1 File Type: App/LoRaWAN® Specification v1.0.2 LoRaWAN® File Type v1.0.2 File Type: App/pdf LoRaWAN1.0.3 now fully supports class B single-track devices. ClassA and classC sections remain the same compared to LoRaWAN1.0.2, with the exception of the new MAC DeviceTimeRequest team, used to synchronize the watch in real time device. For devices running in a classroom or classC, there is no need to upgrade to LoRaWAN1.0.3 however, if you plan to use classB in your devices, then you should use LW1.0.3 Section LoRaWAN1.0.3 ClassB forward compatible with LoRaWAN1.1 classB. LoRaWAN® Specification v1.1 This describes the LoRaWAN network protocol® which is optimized for end-to-end battery-powered devices. LoRaWAN® Specification v1.1 adds support for roaming, Class B and security enhancement on May 28, 2019. Derek Hunt, Director of Certification for LoRa Alliance® and Chairman of the Certification Committee At the moment there are several different versions of the LoRaWAN specification® which are available to developers. Each of them Somewhat different functionality. So, what version should be used in the development of LoRaWAN LoRaWAN The short answer is that the most current version of the specification for which there is a certification program LW 1.0.2. The LW1.0 certification program has been withdrawn and the IW1.0.1 certification program will be withdrawn at the end of 2019. While LW 1.0.2 is the most stable, you may want to consider using LW 1.0.3. This version of the specification adds support for Class B functionality; however, there have been minor changes in the United States that have delayed the creation of the certification test. For more information about certification, take a look at the certification page on the LoRa Alliance website. It is important to note that there are inconsistencies in the LW 1.0.x specifications, and LoRa Alliance® is working to resolve these discrepancies. This is expected to happen soon and the updated specification will be released as LW 1.0.4 in the summer of 2019. Once LW 1.0.4 is completed and released, this will be the recommended version. We play an article here when LW 1.0.4 is available. In addition, there is also LW 1.1, which adds support for roaming transmission, and includes a number of change requests that are currently included. In the end, this will be released as 1.1.1; this work is expected to be completed in 2020. Finally, LoRa Alliance currently recommends using LW 1.0.2 if Class B functionality is not needed, in which case developers must use 1.0.3. Learn more about LoRaWAN specifications. Want to keep up with the latest LoRa® and LoRaWAN developer news? 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