



FAQ

ATRIUS SOLUTION BUILDER



Q: What is Atrius?

Atrius™ is Acuity Brands' brand for all IoT and Software Services. Acuity Brands is one of the world's leading providers of lighting and building management solutions. And we recognize that as businesses convert to LED, there is a remarkable opportunity to leverage lighting as a platform.

The Atrius framework includes the Atrius Sensory Network which generates useful IoT data, Atrius Platform Services (Navigator, Insights, Assets, Spaces) which allow for processing and managing the data and Atrius Solution Builder which is used to build end customer facing Web applications.

Q: What is Atrius Solution Builder?

Atrius Solution Builder is an Integrated Development Environment (IDE) that allows developers to rapidly build visually-rich edge or cloud-hosted web applications and dashboards, leveraging data from the Atrius Sensory Network, Atrius Platform Services, or third-party sources via open source Distributed Services Architecture (DSA)

Q: How does Atrius Solution Builder work?

Atrius Solution Builder is a true "drag & drop" HTML5 based Integrated Development Environment(IDE) and Visualization Platform targeted toward developers interested in rapid application development without requiring any special browser plug-ins.

It allows developers to gain access to the Atrius Sensory Network and other 3rd party data sources in a single, unified workspace and enable them to design real-time, data-driven Applications and Dashboards using the Atrius Platform. Information can be derived from numerous sources including sensors & devices, databases and social media platforms using the open source Distributed Services Architecture (DSA) framework.



Q: How does Atrius Solution Builder work?

Atrius Solution Builder maximizes efficiency and enables faster communication allowing for significantly reduced time and money in project design, creation and deployment. A stunning array of graphical assets and numerous customizable charts and graphs allow for building visually rich applications rapidly. It can be flexibly deployed on the Edge or the Cloud.

Q: What do I need to use Atrius Solution Builder?

Atrius Solution Builder is a 100% HTML5 based development platform that does not require any special browser plugins. Acuity recommends the use the latest version of Google Chrome web-browser for the best user-experience.

Atrius Solution Builder allows users to access their application with Native "in-browser" loading on iOS, Android, and Windows Mobile - not a single app is required! Intelligent scaling with responsive layout ensuring that every user interface is automatically optimized for any screen size to ensure optimal viewer experience on any mobile device.

Q: How do I get Atrius Solution Builder?

Atrius Solution Builder can be download from the Atrius Developer Portal (<https://developer.atrius-iot.com>). It can be bundled with the desired connectors (DSLlinks) available for all the various platforms while downloading.

Q: Which platforms are supported by Atrius Solution Builder?

x32 Windows • x64 Windows • x32 Linux • x64 Linux (Static) • x32 Mac OS • x64 Mac OS • ARM Linux • Dreamplug • Beaglebone

Q: What are the minimum hardware requirements?

Atrius Solution Builder is very flexible and works on a really small footprint CPU like a Raspberry Pi all the way to a hyper-scalable installation in the Cloud

Q: What are the recommended hardware requirements?

While this depends on the size and scale of a specific project, a typical server with a quad core CPU, 4 GB of memory and 1 TB of storage should suffice to get started.

Q: Where can the applications built using Solution Builder be deployed?

The applications built using Atrius Solution Builder can be flexibly deployed either on the edge or the cloud.

Q: How is Atrius Solution Builder different from DGLux5?

Atrius Solution Builder is the Atrius branded version of DGLux5. Version 1 of Atrius Solution Builder maintains feature parity with DGLux5. All new feature development will be done on Solution Builder. DGLux5 has reached its end-of-life and only maintenance upgrades/bug fixes will be made for a period of one year. Upgrading from DGLux5 to Atrius Solution Builder will be supported and is recommended.



Q: What is DSA and how does it relate to Atrius Solution Builder?

Distributed Services Architecture (DSA) is an Open Source Platform & “Toolkit” for Internet Of Things Devices, Services and Applications. The purpose of DSA is to aid the creation of an eco-system where manufacturers, developers and solution providers can contribute and enhance functionality while reducing the risk for customers concerned with business continuity support.

It is a distributed system of software designed specifically to extract, compute, and move data from the things that make up the IoT to the various applications where it can provide value. These applications are built using Atrius Solution Builder.

Q: What are DSLinks and where can I get them from?

A Distributed Services Link (DSLInk) is a specialized type of node that is a container for some logic. It always connects to a DSBroker, through which it advertises services, receives and responds to requests, and subscribes to and publishes messages. While downloading the Solution Builder Server package, all the DSLinks that the user is interested in can be chosen to be available as part of the download package.

Q: Which DSLinks are already supported by Atrius Solution Builder?

The following DSLinks are supported among others:

SCADA Systems: Niagara, WebCtrl, Skyspark

Databases: Oracle, Cassandra, HBase, Elasticsearch, JDBC, MSSQL, MySQL, MongoDB, Postgres

Historian Databases: ETSDB, RethinkDB, Splunk, Parstream

Devices: Philips Hue, SmartThings, WeMo, Axis VAPIX

OS's: iOS, Android, Windows 10, MAC OS X

Protocols: Haystack, BACnet, Modbus, OPC, KNX, DMX, MQTT, COAP, Motion JPEG, SNMP, Thread

Technologies: EnOcean, ZWave, Relayr, R, Spark, Kafka, Azure IoT, REST Server, BLE, Homekit

Services and Applications: Facebook, Twitter, Google+, LinkedIn, YouTube, Google Analytics, Salesforce, Slack, Yahoo Weather, RSS Feeds

Q: Does Atrius Solution Builder provide support for any IoT Protocols?

Yes, MQTT and COAP DSLinks are available and supported.

Q: Can new DSLinks be developed to support a new device or protocol and what is the process of engagement?

Yes, Acuity Brands’ Professional Services team is well versed with developing new DSLinks. Please reach out to the Business Development team with your specific needs.



Q: How is Atrius Solution Builder Licensed?

Licensing is done based on Topics. It can be Perpetual or Subscription based.

Q: How do I get a license for Atrius Solution Builder?

License can be requested through the Solution Builder IDE once it is installed. By default, a trial license of 500 topics for 30 days is included.

Q: How do I get a license for Atrius Solution Builder?

A Topic is a subscription to a data feed with a unique path used at run-time in the Solution Builder UI & Dataflow. There are no other restrictions, you get unlimited users, projects, widgets etc. you only pay for the data being used in Solution Builder. Unique topics only count once and can be used in multiple components without incrementing the count. For example, a single unique value bound to a gauge, a text and used in dataflow is 1 topic.

There are four items that count as a topic:

- Real Time Value
- Historical Value (trended data)
- Query
- Command/Control Action to override a value