

RIoT Engine 5 Major Functions

JOB 1: Receive data: The Engine accept data from any computer, device, meter, gauge, PLC or other field device. This covers many different protocols like **OPC, MODBUS, DNP3, SNMP, BACnet and many others**. Providing the ability to collect data from many disparate devices and across many protocols is valuable and allows organizations freedom in selecting monitoring devices from many different provides and manufacturers.

JOB 2: Send Data: Once the data is in the Engine, it can be configured to send this data to other places and systems. Whether you are sending it to an ERP system, a database, a legacy SCADA system or even IoT International's Cloud platform SkyView for Analytics and Visualization (as well as alarming) it becomes a data distribution expert. The RIoT Engine creates a one-to-many relationship sending the data to ALL of the places it needs to go and not becoming siloed or static.

A collection of logos for various industrial brands that Riot Technology works with. At the top left is the IoT INTL logo. To its right is the text: "Riot Technology works with these Brands to Monitor, Analyze, and Alarm all critical business equipment and data. Display dashboards on our secure Cloud SaaS Skyview (www.riotskyview.com)". Below this is the heading "Riot Technology Monitors and Connects". The logos include: Eaton, Allen-Bradley, ABB, HACH, Motorola, Sierra Wireless, Neousys Technology, GE, Emerson, Iconics, Godwin (a xylem brand), Yaskawa, Cal/Amp, FreeWave, Moxa, Cisco, Siemens, and Yokogawa. Schneider Electric is also partially visible.

JOB 3: Edge Computing: Analytics, and Controls are the differentiation of any IoT middleware system. Our RIoT engine has built in C# tools for data computations, machine controls, analytics, and data normalization. This powerful tool provides organizations unlimited flexibility and is one of the most important tools available in the RIoT software suite. Powerful controls as well as analytics can deliver data to your systems already in the formats and with the proper computations already complete. With over 2 million C# developers available to industry, we are excited to see how organizations utilize these tools to solve business problems like predictive maintenance and suggestive actions.

JOB 4: Rules: Now you have collected, analyzed, and defined where your data needs to go, we need to spend a little time defining how the data gets to where it is going. Not all the data needs to be sent all the time. Our data rules engine allows you to define what data gets sent and when including periodic increments (every couple of minutes, every hour, or once a day), on change of status, on high or low thresholds or other criteria. This allows management of data networks and cellular or satellite plans if these are utilized.

JOB 5: Destination Mapping: This job function is the final piece of the puzzle for the data traffic. We provide a data mapping application. Not all your data needs to go to all your different systems. The data mapping functionality becomes the data traffic cop defining where your data needs to go and with the criteria that you have outlined from job number 4. The mapping application can send data to multiple systems and provides an elegant way to share that information completely across your enterprise.