Ryarc's New rIOT Control Platform

Ryarc's IoT Device Agent provides an end to end IoT device distribution and management platform, which is easy to use, yet provides enterprise level tools and scalability. Including seamless integration with Intel AMT and MESH 2.0 to distribute, manage, and remotely control Intel | Windows devices, MQTT Intel Gateways with connected Sensors and monitor and update Android devices. Available in both Enterprise On Premise and SaaS Ryarc Cloud options.

Multiple Concurrent users - Any number of concurrent users can work on projects simultaneously using their login and password and can work on projects as per their authorization by their Admin. Uniquely, Ryarc's IoT Platform can work in a cached offline mode allowing devices to sync with the service whenever they go online.

Automated updates throughout the system – rIOT Control device updates can be applied automatically throughout the network.

Live and Up-to-date Status - *P*rovides live and up to date status of the devices and networks right inside the management Portal application. Access to this information is controllable giving users unrivalled visibility into their work as it becomes available on the network.

- Live status including
    - o Connection Status
    - o CPU, Memory and HD space
    - o Download Speed
    - o Current Action
- Integration with Intel AMT tools and MESH 2.0 – Remote Control
- Automatic emailing to admin if/when Devices or Gateways are offline
- Several features which provide for automatic remedial action in response to adverse events
- Full script access to machines via delivered 'commands'

Auto-Categorization of Devices - rIOT Control can automatically extract Meta tags that are commonly used in the description of the devices or any type of information included. During Ryarc's import functions new categories will be automatically created by the system.

Intel AMT Integrated - *r*IOT Control is integrated with Intel AMT tools and MESH 2.0 provides powerful tools that help networks manage remote assets, reduce downtime, and reduce costs with preventive maintenance and by avoiding site visits.

Powerful Scheduling - rIOT Control has a powerful scheduling feature which allows the user to schedule commands as required. User can create a specific schedule or a public schedule which can be shared by all the users subject to their permission level set by the domain admin. A recurrent schedule enables you to configure the command that it executes based on a recurrent pattern. Once executed, device will send back the execution results and confirm whether the command executed properly or not.

Transport agnosticism - In a WAN scenario, there can be many types of transport (wireless, sat, slow connections, etc.) which may adversely impact the ability of the system to be responsive and manageable. Ryarc works over any TCP/IP connection and is tolerant of slow and unreliable connections.

Remote manageability - Systems running over a geographically wide area can be difficult and expensive to manage. It is essential the system provides enterprise class tools and functionality to facilitate remote manageability of the machines, rendering physical visits to the machine rare and providing the ability to perform automated maintenance and scripting from a central location. In addition to the built-in tools, Ryarc also supports Intel vPro™ CPU devices providing unparalleled manageability.

Reliability - The system is highly tolerant of connection instability and prudently manages data transfer to eliminate or reduce data transfer redundancy.

Firewall awareness - WANS typically have multiple firewalls and varying network conditions. The system operates fully and without interruption over firewalls etc.

Bandwidth efficiency - The system, smart enough to efficiently manage bandwidth, both in the timed distribution of content, the use of proxy nodes in each location and recovery from lost connections.

Grouping and categorization - Devices can be grouped and categorized and commands can be narrowcast and targeted to individual devices or as per grouping and categorization**.**

Remote Commands - rIOT Control allows user to issue remote commands like – MQTT protocols, custom serial commands, restart player and get devise metrics etc.

Security & Alerts to Administrator - Devices can send an email automatically to the administrator in case of any problem. rIOT Control provides multi-tier security as well as entity level security. Based on the role permission, a user can have access to one or more projects and will only have access to entities within that project, as defined by his role. In addition, permissions can be granted on individual entities. This heightened level of security enables the system to offer enterprise level access to different entities. All these permissions within a project are managed by the domain administrator.

Password Protection on Device or Gateway Exit - Password protection can be set and prompted for when a user attempts to close the player.

Machine Authentication Technology Enhancement (MATE) - Machine Authentication Technology Enhancement (MATE) prevents against unauthorized and malicious connections from machines. If a machine is detected to have participated in unauthorized and malicious activities, then domain admin can deny all users from that machine from connecting to the service. The domain admin can then permit or deny access.

Managed Access - rIOT Control allows administrators to open their networks in a more managed, controlled, and secure manner. Users with more limited rights are automatically firewalled from the rest of the network. It is now easy to allow users restricted rights, whether to a particular project, or channel.

Tasks - Workflow and issue management - Fully featured issue management system allowing users to collaborate as never before. Tasks can be created, assigned, approved and closed thereby enabling greater productivity and cooperation in networks requiring several knowledge workers to manage the network.

Permissions - You can use permissions to deny or provide access to anything in the system. For example, certain users may only be able to see certain Channels or may be able to edit just a particular command set. This is very useful for networks with a wide user support base.

Node Server Feature - Helps save bandwidth cost and direct internet requirements. Node server allows one device in a group to act as the gateway monitoring the local sensors, manages device business rules at the edge and collects data that gets stored locally and then sent to the Cloud.

Multi tenancy application – rIOT Control allows service providers to offer device management as a service to multiple customers using a single Server. Customers are separated from each other by creating Domains. Each Domain comes with its own separate Command Libraries, Projects, Users/Passwords and more.

About Ryarc

Founded in 2003, Ryarc is a privately held software and technology company focused on the development of applications that use Digital Sensors and Devices to drive operational efficiency, compliance, and customer experience. Ryarc's products are used worldwide by technology integrators to turn data into actionable intelligence.

Ryarc is registered in the EU and Australia and is an established supplier of Digital Signage software. The company's development center is based in Sydney. Ryarc has presence in Australia, Singapore, Europe, China, USA and customers around the world.

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