



rIOTControl

Remote Agent Supports Windows and Linux Devices with Full Remote Control

Introduction

rIOT Control is an Enterprise Device and Sensor Management Platform that provides remote manageability, telemetry, access, and deployment for customers needing to manage large numbers of devices with a minimal footprint and deep functionality.

Edge Discovery

Simply by connecting your devices rIOT Control provides you an instant global view of the state of your devices. Identify connectivity status, health, location, configuration, data consumption, and uptime. Identify trends and problem areas in real time or create alerts to proactively identify issues before they can become outages. Select an individual device and get real time remote process information with the ability to start or kill processes.

rIOTControl provides for each edge device a telemetry window providing an instant snapshot of device status and a range of useful diagnostic information such as OS version, a 3-month rolling uptime graph, resource usage, recent alerts and physical location (where supported).

By combining this information for your entire fleet, rIOTControl brings clarity to questions like “How are our older machines holding up?” and “What is our devices CPU load now we’ve upgraded our client?” All this functionality with a tiny footprint in terms of deployed bits and an incredibly efficient rate of data consumption. A typical data usage per month can be as little as 15 mb.

Connect

rIOT Control provides instant access to your connected devices and sensors. By selecting an edge device, you can request a screen shot, connect to a full desktop session, view, download or upload files without a remote session, view live process information to quickly identify problem applications and even kill or start new processes remotely. Intel® vPro® AMT® is also supported providing available AMT functionality directly within the management console.

Control and Deploy

rIOT Control provides full application deployment, management and execution functionality. Publish new edge applications and manage and report on them. Deploy new AI models to the edge and run them collecting their output or configuring them to work with digital signage for dynamic messaging or even other sensors and servo controls. Use the Command library to store, iterate, deploy and execute scripts to provision new devices or perform routine maintenance.

Device support

rIOTControl supports the following platforms and technologies

- Windows
- Android
- Ubuntu/Linux
- Intel
- AMD
- ARM
- Raspberry Pi



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Monitor all devices from one Management Portal anywhere in Real Time

The screenshot shows the main dashboard of the rIOTControl management portal. At the top, it displays 'demo > Devices (domain)' and a search bar. A world map shows the global distribution of devices, with colored markers indicating their locations. A pie chart on the left shows the status of devices: Total: 170, Online: 23, Offline: 147. Below the map is a table of device details.

Dev...	Name	Subscribed Channels	Status	Last Seen	Uptime	IP Address	Client Version	Set for upgrade	Requested On	Upgraded On	Download Status...	Idle file
	AVADCBSWall	CBS 2x2 Screens	Online	32 seconds ago	10 day(s), 19 hou...	192.168.86.41	7.0.47.21144	✓	16/08/2021 15:13	16/08/2021 16:11	100.00%	
	AVADCBSMenu	CBS 1x2 Screen	Online	52 seconds ago	10 day(s), 19 hou...	192.168.86.109	7.0.47.21144	✓	16/08/2021 15:12	16/08/2021 15:48	100.00%	
	Bar Top Station	Vegas Bar Channel	Online	1 minute ago	0 day(s), 2 hour(s)...	192.168.0.159	7.0.47.21133	✓	19/04/2021 15:36	19/04/2021 15:44	95.78%	
	DESKTOP-DQG35LE	BDLS_2_BRL_DemoRoom_LEDScreens_Landsc...	Online	31 seconds ago	2 day(s), 3 hour(s)...	192.168.91.45	7.0.47.20525				100.00%	
	DESKTOP-J6EU76H	BDTV_6_BRL_Demoroom_AssymmetricVideow...	Online	59 seconds ago	20 day(s), 3 hour...	192.168.8.123	7.0.47.20525				100.00%	
	DESKTOP-J6EU76H	BDLS_3_BRL_DemoRoom_LEDScreens_Landsc...	Online	39 seconds ago	2 day(s), 3 hour(s)...	192.168.8.105	7.0.47.20525				100.00%	
	DESKTOP-DEASN58	BRL_ProductionFloor_Electrical	Online	39 seconds ago	16 day(s), 22 hou...	192.168.90.118	7.0.47.20525				100.00%	
	32 inch portrait TV	BDTV_1_BRL_DemoRoom_AssymmetricVideow...	Online	22 seconds ago	2 day(s), 9 hour(s)...	192.168.93.11	7.0.46.20414				0.00%	
	DESKTOP-LDUIDVF	BDLS_1_BRL_DemoRoom_LEDScreens_Entran...	Online	58 seconds ago	2 day(s), 3 hour(s)...	192.168.90.188	7.0.47.20525				100.00%	

Selecting a Device provides current Information, Status and Remote Management

The screenshot shows the detailed view of a selected device, GigabyteEL20. The interface is divided into several sections:

- Network Usage:** Shows various network-related metrics and actions like 'Export Audit Log', 'Upload Idle', 'Change the channel', etc.
- All Players:** Summary of player statistics: All Players: 170, Online: 23, Offline: 147.
- Device Information:** Key details for GigabyteEL20:
 - IP Address: 192.168.1.121
 - Gateway IP: 45.35.13.1
 - DNS Name: GigabyteEL20
 - Last Seen: 27/08/2021 11:20
 - O/S: Microsoft Windows 10 Home (Microsoft Windows NT 6.2.9200.0)
 - CPU Info: Intel(R) Celeron(R) CPU N3060 @ 1.60GHz
 - RAM: Total: 3.79 GB, Free: 774.26 MB
 - Disk: 28.32 GB / 28.52 GB
 - CPU: 15.85%
 - Rebooted: 21/07/2021 08:12
- System Metrics:** Up time: 2 day(s), 18 hour(s), 25 minute(s) and 8 second(s); Physical location: Henderson United States US; Timezone: -7 (Pacific Daylight Time); Player version: 7.0.47.21144; v4: ✓; AMT Capable: false; Average speed: 0.0 bytes / sec; Live download speed: 0.0 bytes / sec; Sync Percentage: 100%; Call interval: 60; Hardware Age: 05/06/2016.
- Details for GigabyteEL20:** Includes 'Player Tasks' (Remote Desktop, File Explorer, Terminal, Power Off, Restart, Sleep, Hibernate), 'Remote Process', 'Player Activity', 'Channels' (Media Bar/Top Channel), and 'Currently Playing'.
- Device location:** A map showing the device's location in Henderson, NV, near Green Valley High School.