SonicFi

RONTO EAP & SWITCH CENTRALIZED MANAGED SOFTWARE FEATURES

V1.0
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Ronto Cloud Management & Network Platform

UNIFIED CLOUD ORCHESTRATION FOR MULTI-VENUE, ENTERPRISE-SCALE NETWORKS

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INTRODUCTION

The Ronto Cloud Management & Network Platform is engineered to meet the demands of modern enterprises operating across distributed venues.
By unifying cloud orchestration, AI-driven on-premises controllers,
WiFi 6/7 enterprise access points, and managed Ethernet switches,
Ronto delivers an end-to-end ecosystem that simplifies network operations,
elevates user experience, and ensures consistent performance at scale.

This platform mitigates operational fragmentation by integrating multi-site network components into a unified, automation-centric control architecture. With real-time visibility, powerful configuration workflows, and enterprise-grade security, Ronto allows IT teams to deploy, govern, and optimize connectivity with unprecedented efficiency.

AI-driven on-premises controller

Cloud Orchestraction

Network operations

Real-time visibility

Automation-centric control architecture

Enterprise-grade security
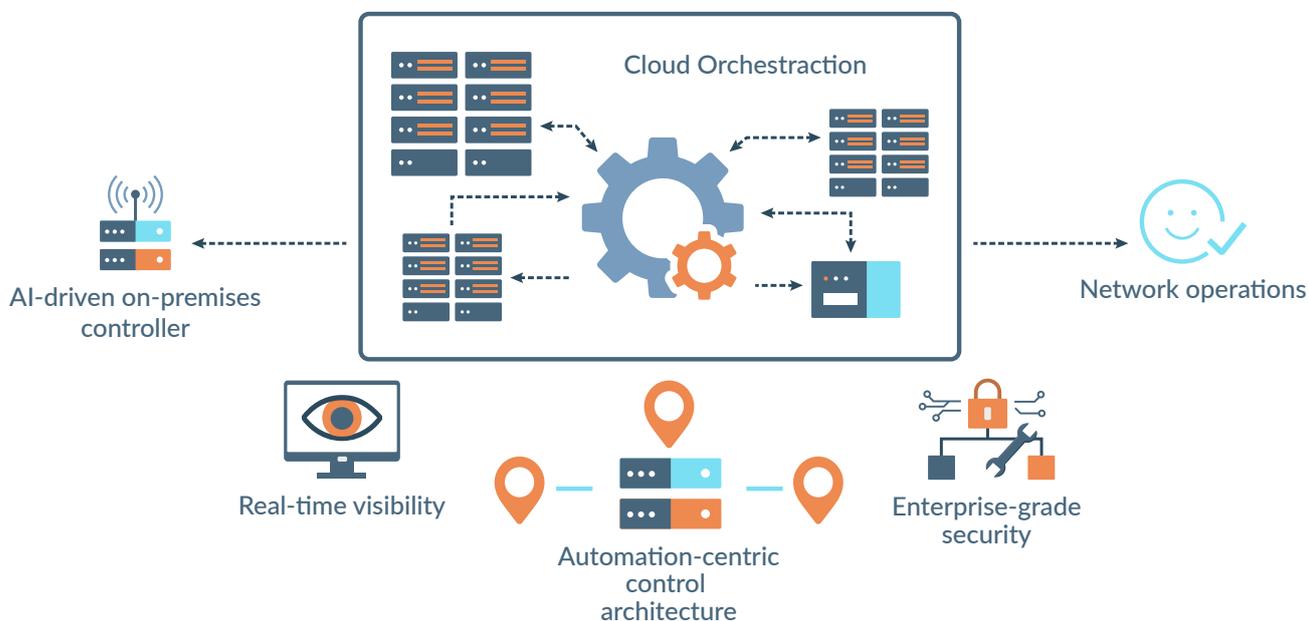
KEY BENEFITS

Centralized Multi-Venue Control

Manage all venues, devices, and users through a unified cloud portal—ensuring consistency and simplifying lifecycle operations.

Scalable Architecture for Any Deployment Size

From a single retail store to hundreds of distributed enterprise sites, Ronto adapts seamlessly as your network grows.

AI-Driven User Experience Optimization

Built-in AI engines optimize roaming, load balancing, and QoE for superior wireless performance.

Enterprise-Grade Security & Role-Based Governance

Granular permissions, encrypted access, and identity management protect your network and operational boundaries.

Seamless Orchestration Across APs, Switches & Controllers

A fully unified operational environment ensures faster provisioning, simplified troubleshooting, and reduced workload.
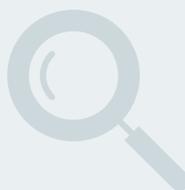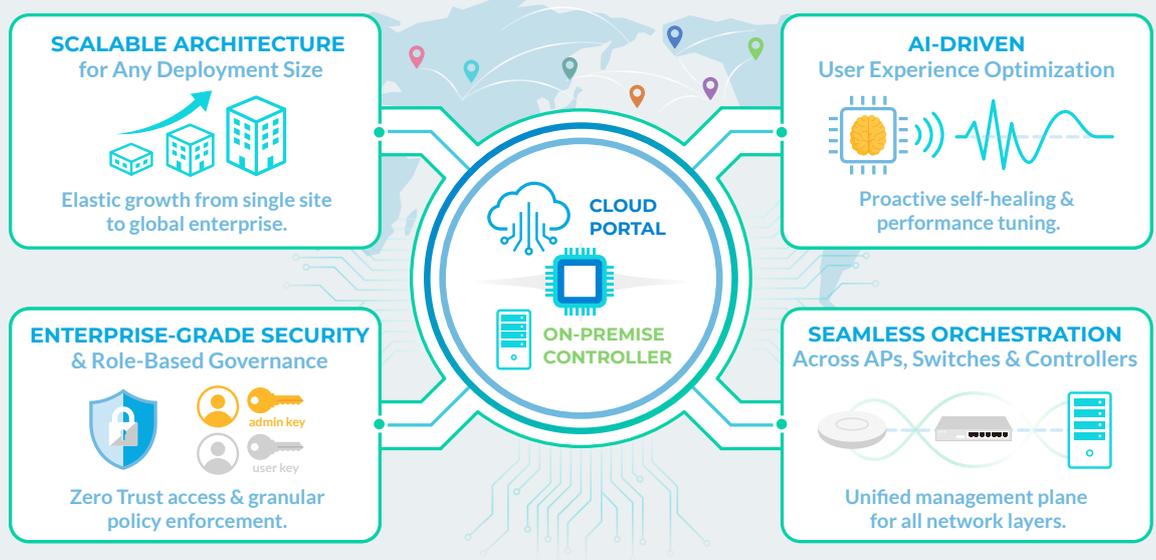
INTEGRATED PLATFORM CAPABILITIES

Unified Cloud Operations Across All Venues

Ronto centralizes the management of diverse venue environments—whether retail branches, transportation hubs, smart campuses, or hospitality facilities. Every site becomes part of a single operational fabric, standardizing configurations, accelerating deployments, and eliminating inconsistent local setups.

End-to-End Network Lifecycle Automation

From onboarding to configuration, firmware management, and ongoing optimization, Ronto automates every step of the network lifecycle. Batch operations, policy templates, and cloud-assisted provisioning significantly reduce manual work and ensure error-free setups at scale.

SCALABLE ARCHITECTURE
for Any Deployment Size

Elastic growth from single site
to global enterprise.

AI-DRIVEN
User Experience Optimization

Proactive self-healing &
performance tuning.

CLOUD PORTAL

ON-PREMISE CONTROLLER

ENTERPRISE-GRADE SECURITY
& Role-Based Governance

admin key

user key

Zero Trust access & granular
policy enforcement.

SEAMLESS ORCHESTRATION
Across APs, Switches & Controllers

Unified management plane
for all network layers.

AI-ENHANCED VISIBILITY FOR OPTIMIZED WIRELESS

Experience

AI QoE insights monitor roaming behavior, load distribution, traffic health, and client quality metrics—allowing the system to intelligently adjust performance. This ensures stable, high-quality wireless connectivity even in dense or high-mobility environments.

Powerful Controller-Driven Network Intelligence

The on-premises controller delivers deep visibility into network topology, client behavior, traffic flows, and device diagnostics. Its AI engine and real-time telemetry empower administrators with clear insights and actionable network intelligence.

High-Performance WiFi 6/7 Access Technology

Ronto enterprise access points combine the latest WiFi 6 and WiFi 7 innovations—including MLO, enhanced OFDMA, advanced QoS, and AI roaming—to deliver ultra-fast, low-latency connectivity. Designed for mission-critical environments, these APs ensure both coverage strength and throughput consistency.

ENTERPRISE-CLASS SWITCHING FOR RELIABLE WIRED

Foundations

Ronto's managed Ethernet switches provide a resilient wired backbone, featuring VLAN segmentation, L2 security, multicast optimization, and link-aggregation reliability. These switches integrate seamlessly with Ronto controllers and the cloud portal for unified orchestration.

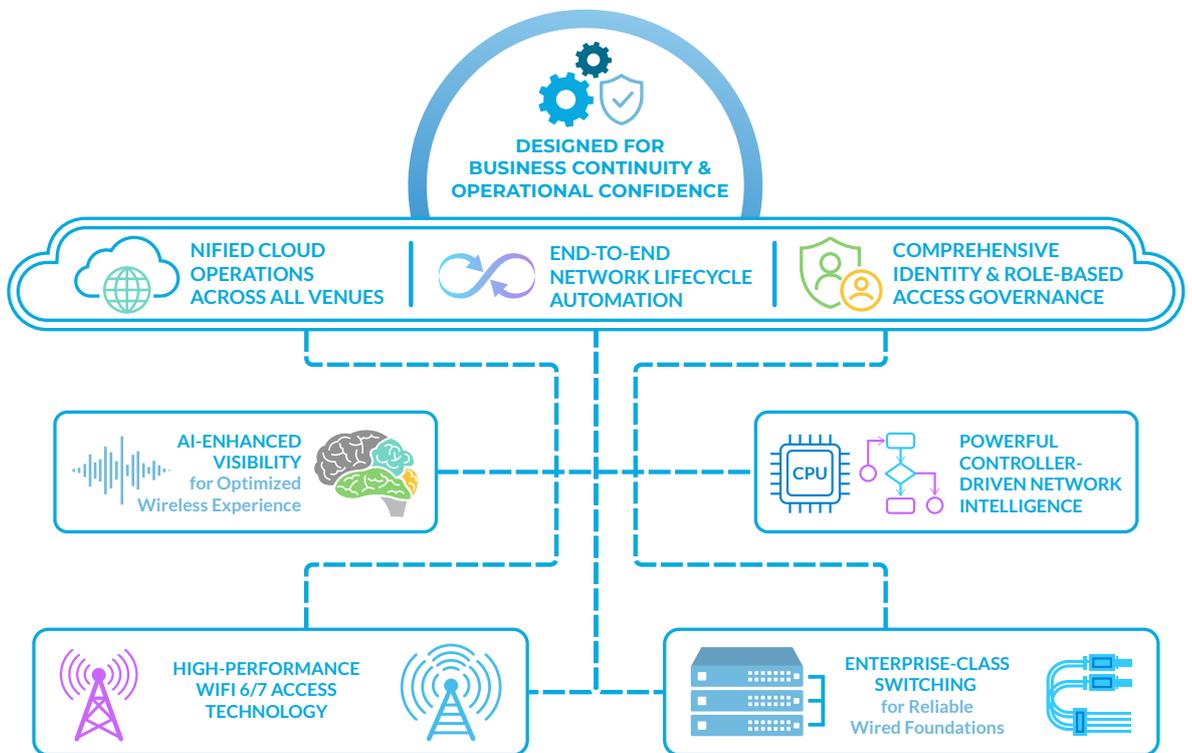# COMPREHENSIVE IDENTITY & ROLE-BASED ACCESS

Governance

With fine-grained member permissions mapped to individual venues, Ronto ensures that operations remain secure and segmented. IT administrators can confidently delegate responsibilities across teams, partners, and service providers while maintaining full oversight and auditability.

DESIGNED FOR BUSINESS CONTINUITY & OPERATIONAL

Confidence

Redundancy, secure HTTPS access, configuration backup/restore, and system-wide NTP synchronization ensure that the entire network operates with reliability and resilience. Whether managing thousands of devices or protecting mission-critical venues, Ronto maintains operational stability under all conditions.

DESIGNED FOR
BUSINESS CONTINUITY &
OPERATIONAL CONFIDENCE

NIFIED CLOUD
OPERATIONS
ACROSS ALL VENUES

END-TO-END
NETWORK LIFECYCLE
AUTOMATION

COMPREHENSIVE
IDENTITY & ROLE-BASED
ACCESS GOVERNANCE

AI-ENHANCED
VISIBILITY
for Optimized
Wireless Experience

POWERFUL
CONTROLLER-
DRIVEN NETWORK
INTELLIGENCE

CPU

HIGH-PERFORMANCE
WIFI 6/7 ACCESS
TECHNOLOGY

ENTERPRISE-CLASS
SWITCHING
for Reliable
Wired Foundations

INTEGRATED PLATFORM CAPABILITIES

Ronto Portal 2.0

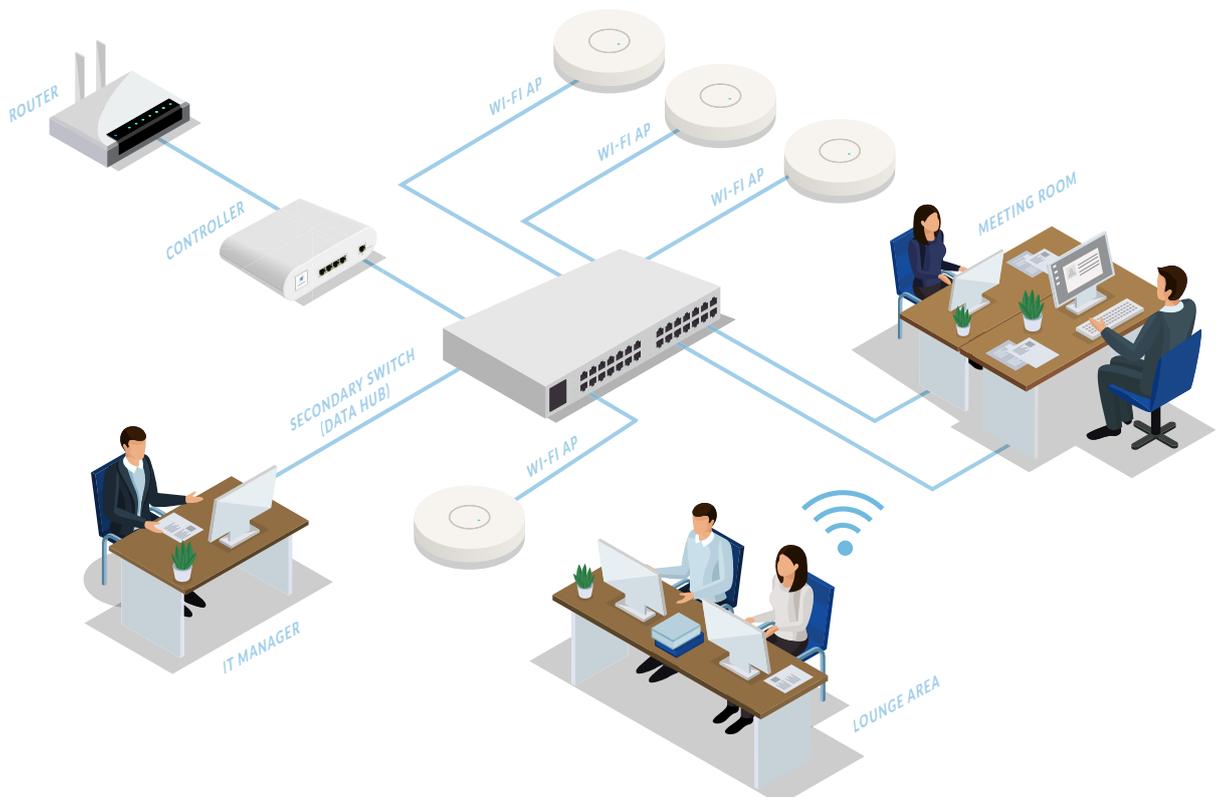| Item	Description
Device Management	• On premises controller • WiFi6, WiFi7 indoor / outdoor Enterprise Access Points • Management Ethernet Switches • nventories management. • Redirect landing URL setting (single / batch setting)
Venues Management	• Create / Remove sites • Controller site management • Ronto site management
Member Management	• Add / Remove members • Invite members by email • Password reset • Permission configuration per venue • Table lists of members
System Management	• System time setting (NTP server) • Backup / restore configuration file
Account Profile Management	• Account Profile (Edit user name / Password change) • HTTPs access
Multilingual	English, Chinese, Japanese

Venue Management

User Permissions Management

HEY, JESSY!

Lorem Ipsum

Dashboard
Charts
Pages
Chat
Mailbox
Settings
Page layouts
Navigation
Widget

Jonathan Doe

285
Month

197
Day

352
Year

Data A   Jan

Data B   Feb

A   68209

B   27393

System Management

EAP / Switch Device Management

On premises controller

Item	Description
Dashboard	• Controller status (WAN IP, LAN IP, Uptime (System & Internet) • Internet health for Internet quality • Traffic overview (APP traffics) • Client table (Clients number per band/wired, Average quality per band/wired) • AI QoE • AI roaming, AI load balance and system change events. • Most Top5 Active EAPs • Most Top 3 Active clients
System Management	• Selectable the topology showing (All, Devices only) • Pending adoption for the device onboarding • Zoon in/out, Auto fit the screen size, normal size • Click icons to configure devices (controller, EAP, switch) • Click icons to overview clients (IP, MAC, Uptime, Uplink connected devices, Wireless quality, and quality history) • Click icons to overview EAPs (model name, IP, firmware version, connected clients & numbers, Uptime, CPU&memory usage, packets counters and air status) • Click icons to overview switches (model name, IP, firmware version, connected clients & numbers, Uptime, CPU&memory usage and packets counters) • Firmware upgrade, RTTY, restart / schedule restart, factory reset
Connected Devices	Table list EAP information • Online / offline / pending status • Name, MAC address, IP address, signal quality, firmware version, Radio profile, Wireless network profile, client numbers • Click device name to configure EAP functions Table list Client information • Wired / Wireless client numbers • Client name, MAC address, connection types, uplink device, IP address, link rate, wireless signal quality, channel and signal strength Table list Switch information • Online / offline / pending status • Name, Model, IP address, MAC address, link rate firmware version and client numbers • Click device name to configure switch functions

Item	Description
Insights	• Wi-Fi scanner in 2.4G / 5G / 6G • DHCP leases
Settings	• WiFi / Switch functions • Profile based configuration in VLAN, Radio, Wireless network, Radius and captive portal • Controller LAN domain IP Networks per VLAN setting • DHCP server per VLAN • WAN interface setting (Static, DHCP client, PPPoE for WAN IP address, VLAN ID setting and DNS setting) • Static router • Firewall with rule based configuration • Port forwarding • System logs • Remote log server • Email notification • NTP for system time • Configuration backup and restore
LCD Touch panel functions	• Swipe the screen to read the controller status • Reset switch • Reboot switch • Brightness adjustment

Enterprise Access Point

Item	Description
Standards & Modes	• IEEE 802.11a / b / g / n / ac / ax / be • Tri-band: 2.4 GHz, 5 GHz, 6 GHz • Channel bandwidth support: • 2.4 GHz: 20 / 40 MHz • 5 GHz: 20 / 40 / 80 / 160 MHz • 6 GHz: 20 / 40 / 80 / 160 / 320 MHz • Backward compatibility with legacy clients
Multi Link Operation (MLO) (WiFi7 only)	• Multi-band link aggregation • Intelligent link selection and recovery • Client steering across MLO links
Advanced Wi Fi Performance Features	• OFDMA in WiFi6 / 7 and Enhanced OFDMA in WiFi7 • MU-MIMO uplink & downlink • 4K-QAM modulation (WiFi7 only) • Preamble puncturing for spectrum reuse in WiFi7 • Load balancing • Automatic / Manually channel selection • Dynamic transmit power control
Client Experience Optimization	• Fast roaming: 802.11k / v / r • Dynamic load balancing • 6 GHz optimized roaming (Wi-Fi 7) • AI load balancing • AI QoE • MLO-aware roaming in WiFi7
Security Features	• WPA3-Personal (SAE) • WPA3-Enterprise (192-bit) • WPA2/WPA3 mixed mode • RADIUS / 802.1X authentication • Client isolation / Wireless AP isolation
SSID & Network Services	• Up to 12 SSIDs per band (SKU dependent) • Multiple SSIDs mapped to VLANs • Dynamic VLAN assignment (RADIUS CoA) • Guest VLAN • Captive portal (Click to pass through, Internal / External authentication, RADIUS authentication, customized login page)

Item	Description
Management & Monitoring	**Operating Modes** • Cloud-managed • Controller-managed **Visibility & Telemetry** • Radio and client statistics • Throughput and MCS monitoring • Event logs / syslog export • Real-time utilization and interference metrics • Remote packet capture*
Quality of Service (QoS)	• DSCP classification / mapping • Per-SSID bandwidth limits
Diagnostics & Maintenance	• Firmware over-the-air • Dual-image failover system • RF scanning and interference detection • Health monitoring & alerts • Cloud-based troubleshooting tools

Managed Ethernet Switches

Item	Description
Standards & Modes	• IEEE 802.3, 802.3u, 802.3ab, 802.3bz, 802.3z compliant • IEEE 802.1p CoS • IEEE 802.1Q VLAN • MAC address learning and aging • Up to 16K MAC address table (Different models may have different specifications) • Port-based switching • Wire-speed forwarding capability • Broadcast / Multicast / Unknown unicast storm control* • Port speed / Duplex auto-negotiation • Jumbo frame support (up to 9K bytes)
VLAN Features	• IEEE 802.1Q VLAN tagging • Port-based VLAN • Voice VLAN • VLAN Group: Up to 4K VLANs • Port Isolated
Spanning Tree & Loop Protection	• IEEE 802.1D STP • IEEE 802.1w RSTP • BPDU Guard • Loopback Detection
Client Experience Optimization	• IEEE 802.3ad Link Aggregation Control Protocol (LACP) • Static Link Aggregation • Up to 6 groups, with max. 8 ports per group (Different models may have different specifications)
Quality of Service (QoS)	• IEEE 802.1p CoS • DSCP remarking • 8 hardware queues • Strict Priority Queue (Strict), Weight Round Robin (WRR), Weight Fair Queue (WFQ) • Ingress and Egress rate limiting
IP Multicast Features	• IGMP Snooping v1 / v2 / v3 • IGMP Querier

Item	Description
Security	• 802.1X port-based access control • 802.1X MAB • RADIUS authentication • Guest VLAN • DHCP Snooping • IP Source Guard • Dynamic ARP Inspection
Managed by Controller	• Web GUI managed • HTTPS secure management • RTTY for remote management • Dual image support • Remote firmware upgrade • Configuration backup / restore • Zero-touch provisioning • Web-UI dashboard monitoring • Cable Diagnostic • Port mirroring • Port statistics (per-port, per-priority, per-VLAN) • DDM in SFP ports • System event logs • CPU / Memory monitoring • Temperature / CPU / Memory / FAN Speed monitoring (Different models may have different specifications)
Quality of Service (QoS)	• Swipe the screen to read the switch status • Reset switch • Reboot switch • Brightness adjustment