Free Webinar

How to leverage the speed of 5G to build secure and powerful business Internet?

-

Networks

5G

inhand

InCloud

Manager

ER805

8811



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CONTENTS





Business Internet Solutions



Demo: InCloud Manager





⁰¹ Scenarios of Business Internet



Trends of Business Internet



Multi-Cloud Workload

Business increasingly migrated from locally to public or private clouds

Hybrid Workplace

Working locations are being flexible

Business Continuity

Enterprises are seeking resilience of networking

Complex Security

Increasingly complex environments require more for security









New Technologies of Business Internet



SD-WAN

Excellent user experience with high speed, low latency, and better connection

5G

Flexible and low-cost control of the network by transferring the traffic management burden from physical devices to software

NaaS

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Saves time for deploying and maintaining selfowned networking infrastructure

SASE

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Secure Access Service Edge. SD-WAN local security features combined with cloudcentric security offer more comprehensive protection

| Challenges



01	02	03	04	05	06
Access to Internet	Network Stability	IT Unified Management	Wireless Network Services	Cyber Security	IT Costs
 Speedy expansion of chains Hybrid offices becoming popular Remote work increasingly preferred Multiple terminals are interconnected in branch offices 	 Business increasingly managed in the cloud Critical applications Applications for remote working 	 Quick and mass deployment Quick troubleshooting Unified IT strategies Traffic priorities to critical business and applications Greater efficiency 	 Customer Wi-Fi in stores Office employees connecting multiple terminals to Wi-Fi 	 Network security in hybrid offices Complexity in wireless networks Sensitive data (e.g. transactions) Remote access to intranet resources 	 Demand for more flexible networking solutions Cost of broadband and dedicated lines Costs of network deployment and maintenance

Business Internet Solutions





Cloud-Managed Networking Solution

The InHand Cloud-Managed Networking Solution, including edge routers, Wi-Fi AP, 5G outdoor unit, and InCloud Manager SaaS, offers fast, secure, simple, and convenient networking services, creates unlimited possibilities for business growth.



Cloud-Managed

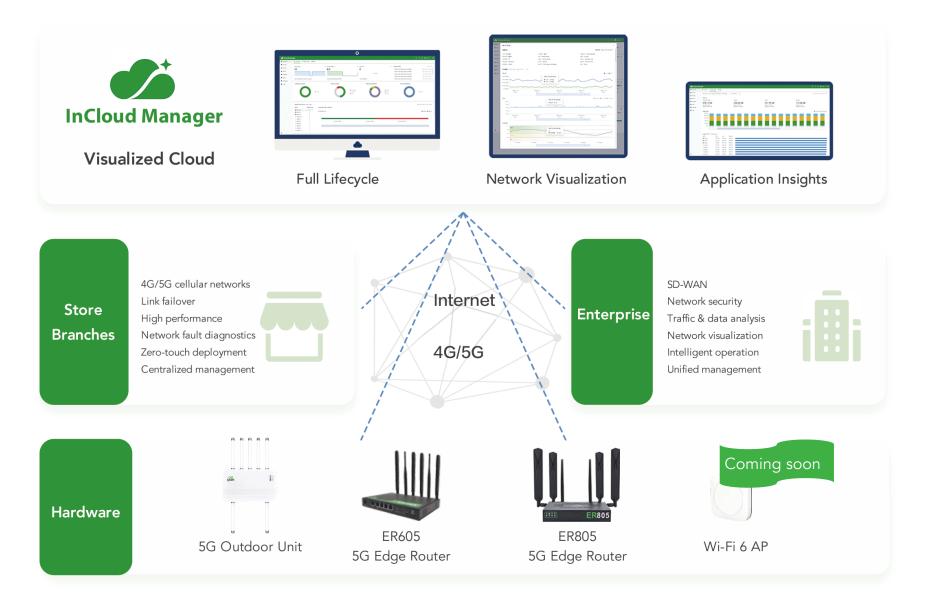






Cloud-Managed Networking Solution





Six Core Values, One-Stop Management



Flexible Access Network

Convenient network, and multiple networking methods, enabling the digital store business.

High Availability

Worry-free network experience, Stable network for the digital business escort. SD-WAN

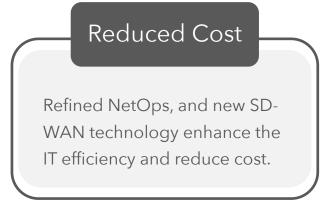
Intelligent link, real-time detection of network quality, rapid inter-branch networking.

IT Unified Management

Visual and centralized portal, support business development always and everywhere.

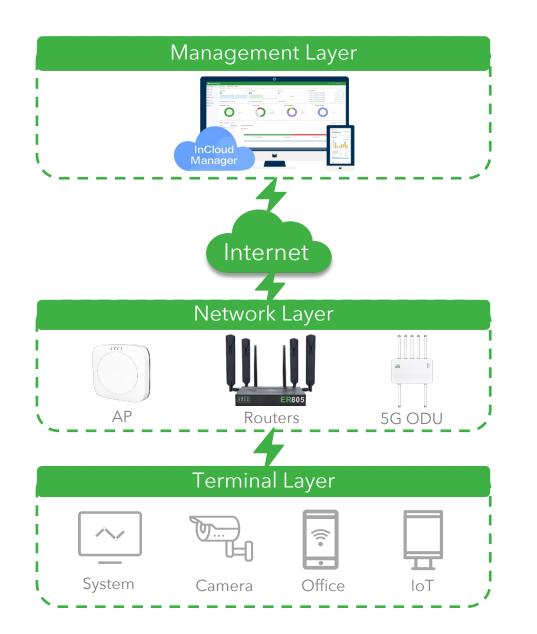
Wireless Network Services

Manageable visitor network, Improve the customers experience.



Access to Internet





Challenge: With varying scenarios of business branches and increasing demand for connectivity, how to ensure Internet access?

Highly cost-effective networking equipment

- Multiple devices for varying branch sizes
- Available concurrently with wired, cellular and Wi-Fi
- Flexibly adaptable to various scenarios

Zero-touch Deployment

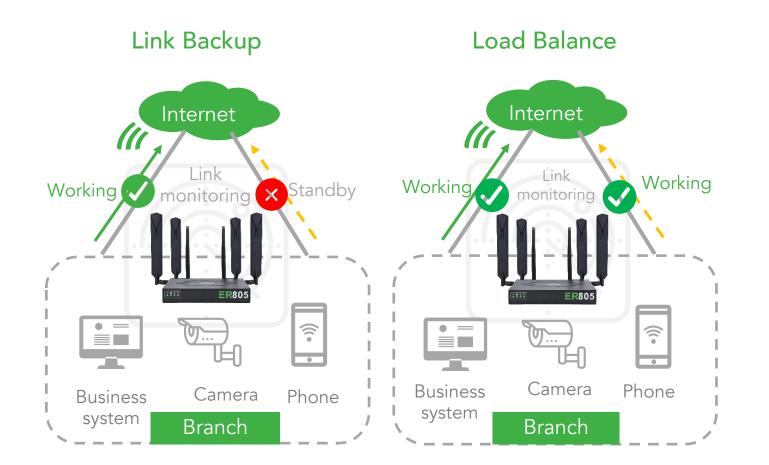
- Cloud-based integrated design: easy deployment, lower costs, faster expansion
- Efficient deployment: simplified operations, reduced costs
- Easier collaboration: offline configuration, smooth IT/OT collaboration

Network Availability

Wired link

Cellular link





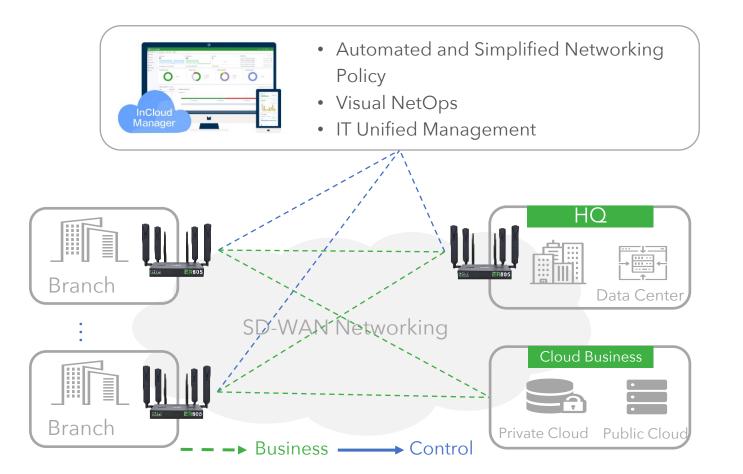
Challenge: How to maintain network stability and ensure critical business?

Highly available "always on" redundant links

- Load balance on multiple WANs
- Failover between wired WAN and 5G
- Flexible QoS and Access Control List
- Source IP routing policy
- MAC address filtering

SD-WAN, smarter network management

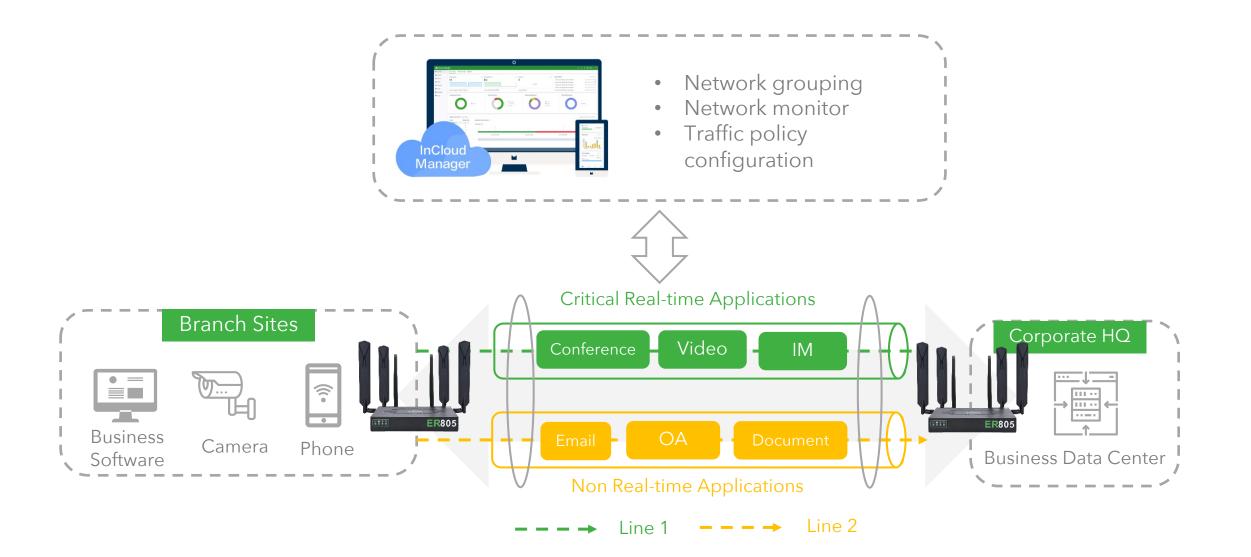


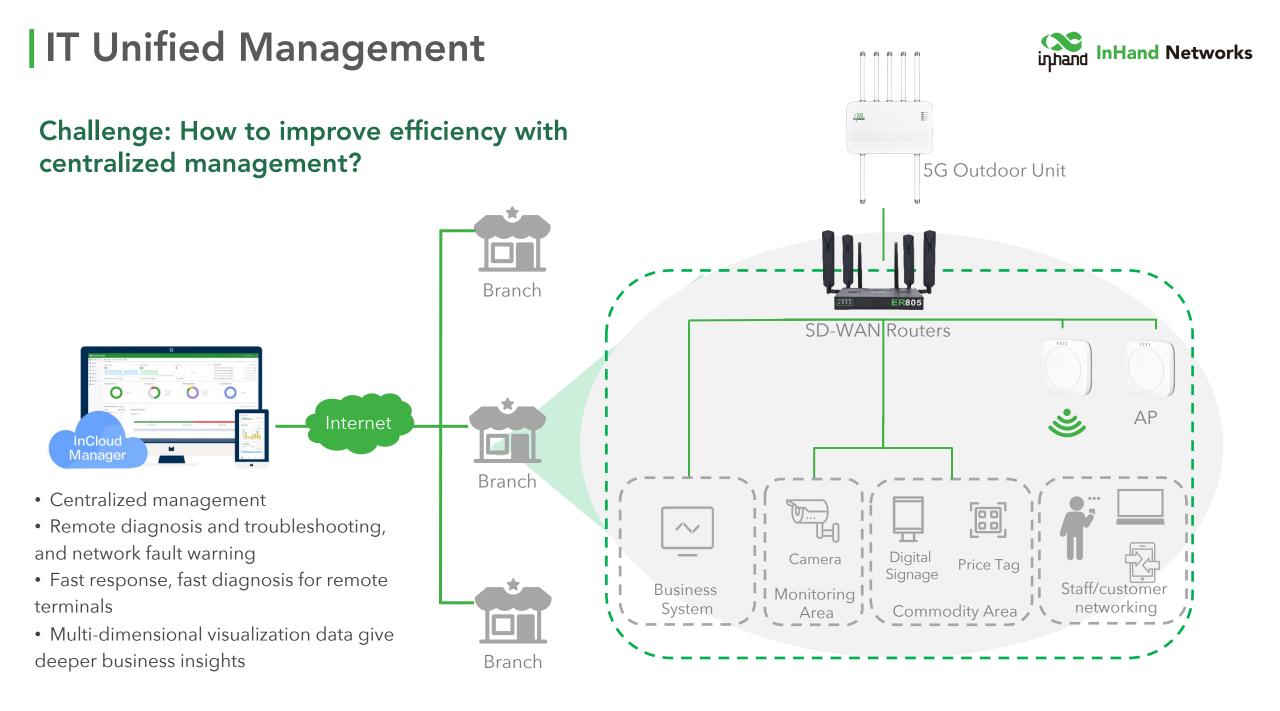


- Available with wired, cellular, and wireless links, seamless link switching, automatic failover
- Multi-dimensional data visualization for network insight and efficiency
- Simplified and efficient branch connectivity without network expertise, quick and easy network setup

SD-WAN, smarter network management

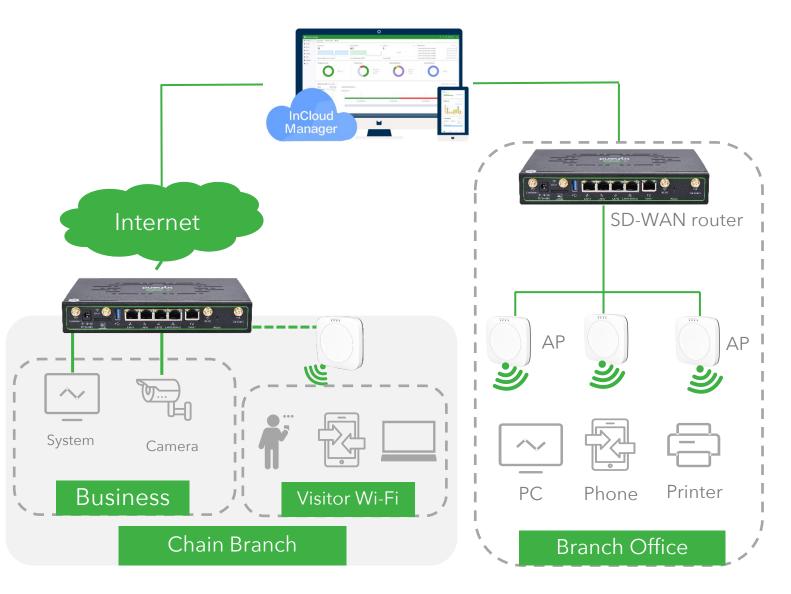






Wireless Network Services





Challenge: How to build more powerful Wi-Fi and connect more devices?

Excellent Wi-Fi network service: AP & Routers

- Powerful dual-band gigabit Wi-Fi 5/6 coverage
- Seamless Wi-Fi roaming
- Wi-Fi encryption and authentication

Unified Wi-Fi network managed by InCloud Manager

- Unified portal Service authentication
- Visitor information collection
- Wi-Fi hotspot visualization (on roadmap)

Reduced IT Costs





Deployment Costs

- Plug-and-play devices, a cloudhosted platform
- Automated network architecture, no need to change existing networks



NetOps Costs

- Distributed sites centralized managed in the cloud, reducing travel costs
- Visualized interface improves network management efficiency
- Easier troubleshooting reduces maintenance costs



Internet Fees

- Cost-effective traffic charges
- Cost-effective network devices

Cloud-Managed 5G SD-WAN Edge Routers





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For medium-sized branches:

Access capacity:

- Firewall throughput: 600M bps
- VPN throughput: 200Mbps
- User access volume: 100-150

Networking capabilities:

- 5G/4G
- 5 * Gigabit Ethernet
- Wi-Fi 5, dual-band Gigabit



For smaller sized branches:

Access capacity:

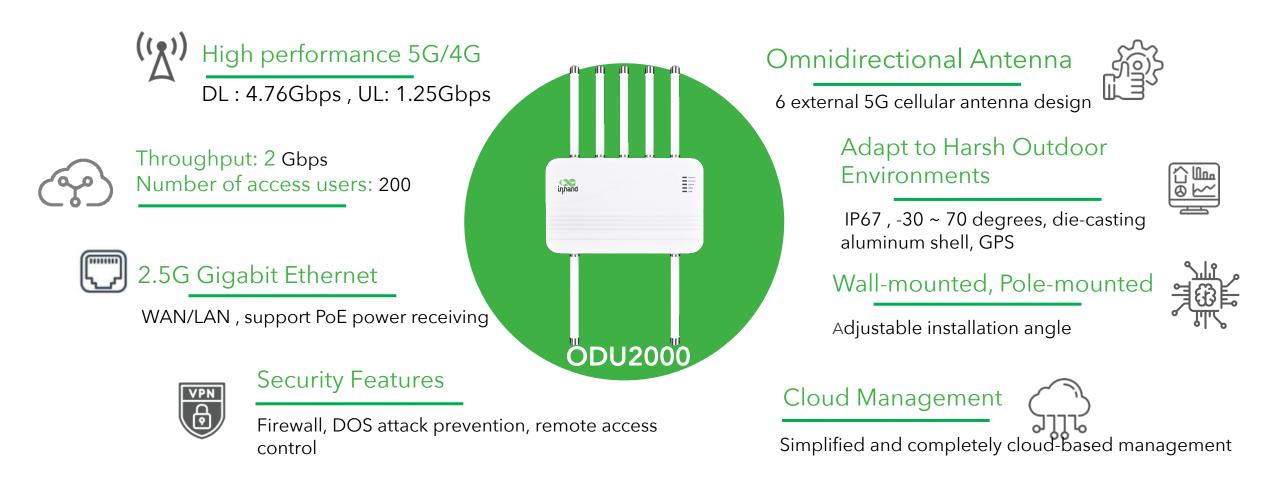
- Firewall throughput: 450M bps
- VPN throughput: 100Mbps
- User access volume: 50 to 100

Networking capabilities:

- 5G/4G Cellular
- 5 * Gigabit Ethernet
- Wi-Fi 5, dual-band Gigabit

5G Outdoor Unit





InCloud Manager SaaS

One-Stop devices, networks, and applications management portal

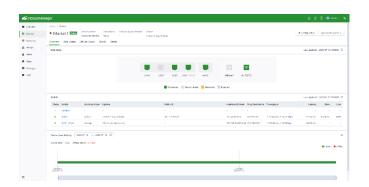




Simplify your deployment and network management Improve your network access experience

Data visualization for better business analysis



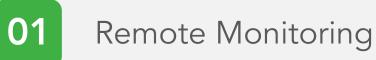


⁰³ Demo: InCloud Manager



InCloud Manager Demo







Remote Management



Networking Features

InCloud Manager Demo – Remote Monitoring



Overview	Network Monitoring	Device Details	Alerts
 Visual global summary information 	Link information & qualityNetwork quality	Basic informationLicense information	Device rebootCellular traffic threshold
Rich graphs	• Traffic status	Firmware and cellular module informationGeolocation	InCloud connectionLink abnormal statusSIM switch

InCloud Manager Demo – Remote Management



Upgrade Firmware Remotely

- Batch upgrade
- Group upgrade
- Schedule an upgrade

Configure Remotely

- User-friendly GUI interface
- Web GUI configuration without complex command lines
- Batch configure
- Group configure

Account Management

- Multi-level organizations
- 4 user roles
- Internal and external accounts
- MFA: SMS, authenticator APP

InCloud Manager Demo – Networking Features



Cloud Connector

- Access to remote terminals to make maintenance, download programs and collect data
- Secure and stable channel based on OpenVPN

SD-WAN Network

- Interconnect branch business systems
- Simple configurations without professional network knowledge

Policy Routing & Traffic Shaping

 Multi-policy traffic shaping and policy routing ensures critical service networks are prioritized

O4 Case Studies



Large Supermarket Chains

Background

North America



Thousands of stores



Cellular backup link to existing wired network



Remote maintenance from HQ

Challenges



Scattered stores without centralized IT management



Difficulty in changing existing network architecture

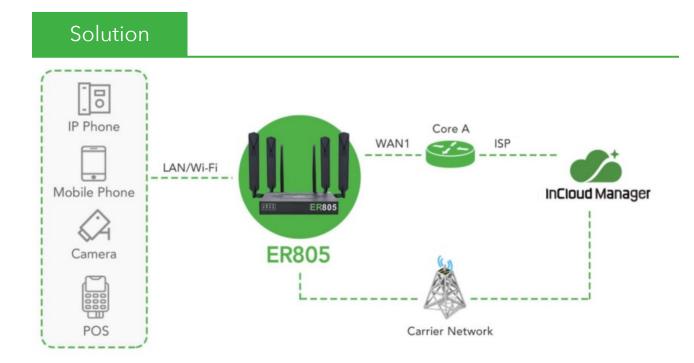


High IT maintenance costs



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Large Supermarket Chains



- Devices in the store are connected to the ER805 through LAN or Wi-Fi •
- When the primary wired link fails, the network will immediately switch • to the cellular network.
- InCloud Manager provides a remote connection channel for remote • access from HQ



Highlights



Easy deployment

Gigabit Ethernet, 5G, and Gigabit Wi-Fi available concurrently, easily integrate into current network and without changing existing architecture

.



High availability with 5G backup

High-speed 5G network as economical and convenient backup, making in-store connectivity more reliable

Easy Ops, reduced management costs

Centralized management and cloud connection services help manage on-site networks and devices without travel

Petrol Pumps

Background

Middle East



Cellular backup link to existing fiber network for huge prospect traffic



Remote monitoring and maintenance

Challenges



Ultra-high demand for fast & reliable connectivity on 100+ stations during FIFA World Cup 2022



Insufficient IT staff for on-site operation and maintenance



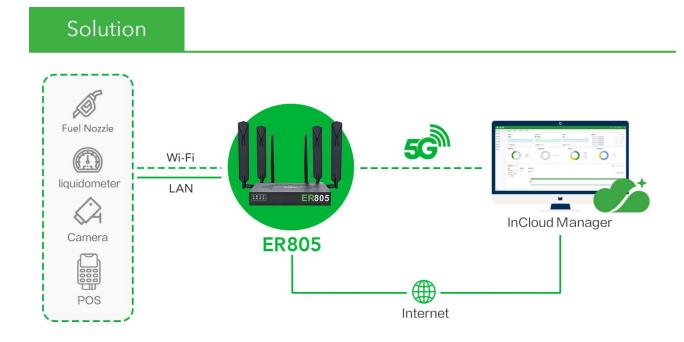
Lack of high bandwidth for remote monitoring



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WOQOD

Petrol Pumps



- Devices in the store are connected to the ER805 through LAN or Wi-Fi •
- InCloud Manager provides a remote connection channel for remote • access from HQ



Highlights



High speed

Gigabit Ethernet, 5G, and Gigabit Wi-Fi ensure uninterrupted high-speed connectivity



High availability

High-speed 5G network and multiple backup mechanisms make connectivity more reliable

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Easy Ops, reduced management costs

Out-of-band management for devices behind the R805 through VPN and

Efficient management

Multi-dimensional visualization interfaces ease management





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Manager

ER805

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Hand Networks

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Thanks



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