



PRODUCT DATA

Wi-Fi RF Audit

REVEAL THE PERFORMANCE OF YOUR WI-FI NETWORK, ESTABLISH A WIRELESS INVENTORY AND CREATE A BASELINE FOR PLANNING



JUST BECAUSE YOU CAN'T SEE WIRELESS TRAFFIC DOESN'T MEAN THAT IT'S NOT THERE. UNSEEN PROBLEMS TODAY COULD HAVE SERIOUS COST AND PERFORMANCE IMPLICATIONS IN THE FUTURE THAT MAY DAMAGE YOUR BUSINESS. A RED-M WI-FI RF AUDIT PRESENTS YOU WITH A CLEAR PICTURE OF EXACTLY WHAT'S HAPPENING SO YOU CAN MAXIMISE NETWORK EFFICIENCY, ACHIEVE OBJECTIVES AND AVOID PITFALLS.

WHY COMMISSION A RED-M AUDIT?

The main reasons why you should consider a Red-M Wi-Fi RF Audit as a key component of your wireless networking strategy and decision-making processes are:

- Responding to user problems of access, performance and service
- Dealing with security concerns
- Planning for growth
- Ensuring standards compliance
- Integrating new technologies
- Verifying a new or existing network
- Establishing a design baseline for a new Wi-Fi network installation
- Ongoing network health checks

WHAT WILL A RED-M AUDIT TELL ME?

A Red-M Wi-Fi RF Audit gives a detailed, impartial and unbiased snapshot of your network, answering key questions and providing information on:

- Identification and location of all your existing Wi-Fi infrastructure assets
- The current performance of your Wi-Fi network
- Problem areas requiring action
- Rogue Access Points and neighbouring networks
- Policy and security compliance
- Possible solutions to identified problems

AUDIT EXECUTIVE SUMMARY

NUMBER OF DETECTED WIRELESS DEVICES	24
NUMBER OF DIFFERENT WIRELESS NETWORKS	4
NUMBER OF DEVICES ON KNOWN NETWORKS	22
NUMBER OF DEVICES ON OTHER NETWORKS	1
NUMBER OF DEVICES ON UNKNOWN NETWORKS	1
DEVICES WITH AN INCORRECT CONFIGURATION	2
NUMBER OF EXPECTED DEVICES NOT DETECTED	0
AREAS WHERE CONNECTIVITY REQUIREMENTS MET	1/4

The table above is an example from a Red-M RF Wi-Fi Audit Report showing an executive summary of all critical infrastructure parameters. This includes the number of devices on both known and unknown networks around your site, as well as on other neighbouring networks. It also highlights the number of different types of networks and reveals where connectivity requirements are not being met. Other important information is also highlighted.

WHAT ARE THE MAIN ISSUES AFFECTING A WI-FI IMPLEMENTATION?

There are three key elements:

- Radio Frequency - the number and location and coverage of Access Points (APs), antenna types and direction, power and channel settings
- Physical - cable runs and equipment installation
- IT - network operation, security and management settings

A Red-M Wi-Fi RF Audit focuses on the first of these. Other Red-M services are available for the other two elements.

WHAT DOES A RED-M AUDIT INVOLVE?

Following completion by you of a pre-audit questionnaire and the supply of electronically formatted site plans, a qualified engineer carries out a non-disruptive and thorough walk-through of your site using our state-of-the-art data capture equipment to:

- Record every active system device on the network - we don't miss anything
- Create a picture of network status - our unique tools process the data to create plots overlaid on floor plans to show coverage, connectivity, signal strength and throughput
- Identify interference - sources could include other Wi-Fi networks, wireless and Bluetooth devices and microwave ovens

*Following a Red-M Wi-Fi RF Audit, it is recommended that a Wi-Fi RF Design is commissioned to fully benefit from the Audit baseline.

Independent of equipment vendors and technologies, Red-M enables organisations to fully realise the benefits of wireless systems by delivering high quality solutions through an integrated, five-step cycle of best practice:

1. CONSULTING

Defining exactly how, when and where wireless will be used.

2. AUDIT

Understanding what is happening and developing a design baseline.

3. DESIGN

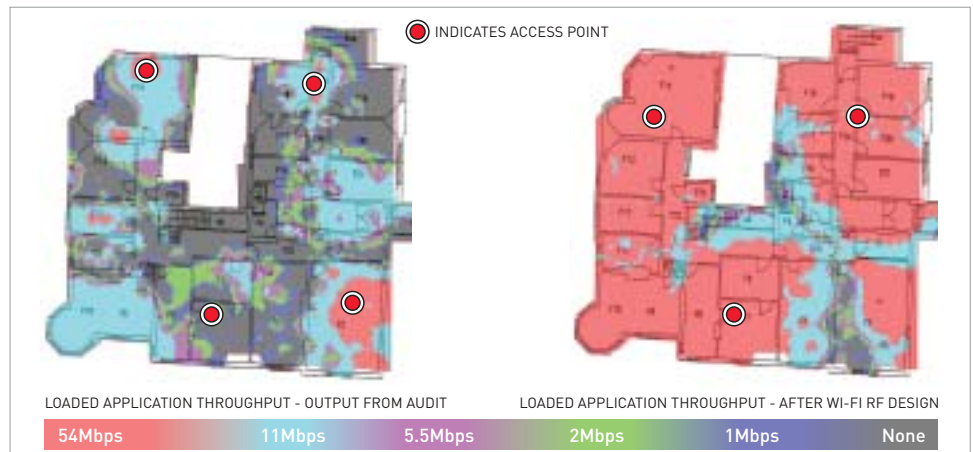
Optimum wireless performance from a design that works right, first time.

4. IMPLEMENT

A non-disruptive installation using best-of-breed technologies.

5. MANAGE

Maintaining a healthy network that continues to meet your needs.



A Red-M Wi-Fi RF Audit Report contains clear and easy to understand graphical illustrations. The picture on the left is from an Audit - the predominance of green & purple highlights that loaded application throughput is generally poor. After a Red-M redesign, throughput was improved, shown by the flood of red throughout.

WHAT ARE THE AUDIT OUTCOMES AND DELIVERABLES?

Captured data is processed using our unique data analysis tools and a report* is presented within seven working days of the audit site visit. This contains:

- Executive Summary - a snapshot of audit results
- Coverage & Performance - detailed tabular and graphical data of all network metrics
- Equipment Details - an inventory of all Wi-Fi infrastructure equipment detected, known and unknown
- Recommendations - a commentary on key issues such as interference, security, resilience, encryption and authentication

WHAT ARE THE BUSINESS BENEFITS?

Apart from giving you the information you need to make informed decisions on your wireless networking strategy, a Red-M Wi-Fi RF Audit delivers tangible, competitive edge benefits for your business. These include:

- Higher user productivity - consistent and resilient network performance
- Mobile and flexible operations - a network that delivers on the promise
- Reduced costs - greater efficiency through improved performance and minimal downtime
- Simplified management - a better use of resources and less problem solving
- Maximum Return on Investment



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