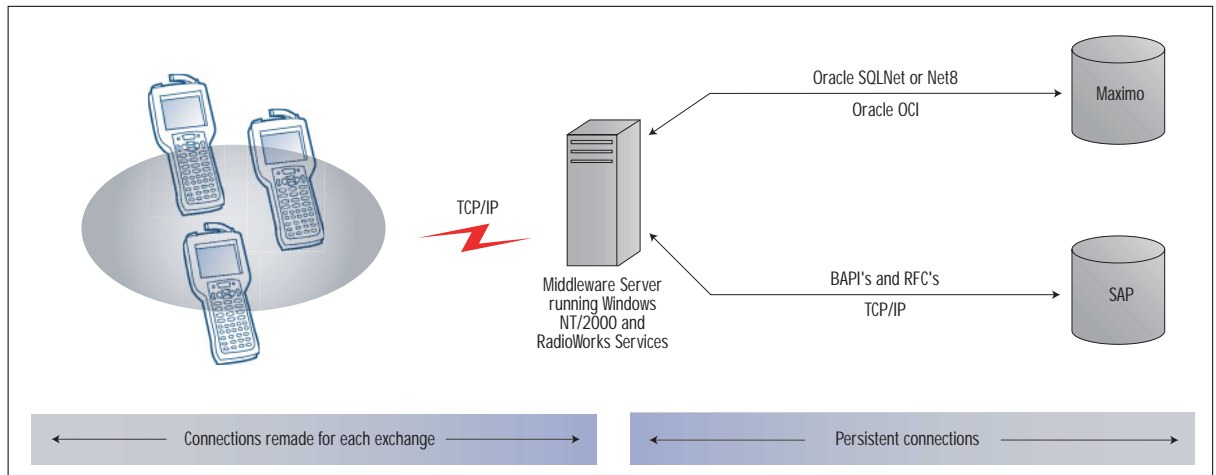


# RadioWorks for Maximo

Wireless maintenance inventory management for Maximo

How does RadioWorks work? What does the client connect to?

RadioWorks has a server-side component that communicates with the handhelds. The server-side component, called the RadioWorks Data Server, brokers the communications between the handhelds and the database where Maximo data is stored.



**Communication overview.** Handheld computers communicate with middleware using newly built connections for each message. Middleware communicates with the backend systems using persistent connections.

Besides the handheld computers, what sort of wireless equipment is needed?

A typical storeroom needs one or two access points. An access point is a radio that mounts on a wall or ceiling and plugs into a network with a typical network cable. They look a lot like external printer interface boxes. Access points require some one-time configuration, but often access points ship with a default configuration that is appropriate, making configuration unnecessary.

You do *not* need coverage over an entire site. Covering the storeroom is all that's required.

We have older Intermecc Janus 2020 computers that run a proprietary 900 MHz network protocol through a 9180 network controller. Can I use this equipment?

Yes. We have a Windows NT device driver for the 9180 network controller. You can use your older equipment.

How does RadioWorks security work?

It works the same way security does within the regular Maximo desktop applications. The user name and password are verified at login, then actual database transactions are done using an administrative username and password behind the scenes. RadioWorks uses settings from Maximo Signature Security to implement menu-level permissions by group.

When I upgrade Maximo, what is required to make sure RadioWorks continues to work?

After you perform the upgrade to the Maximo tables, you need to install the appropriate version of package RWMAX. This is done by running one SQL script.

How does RadioWorks implement support for legacy material numbers?

A text file is placed on the middleware server with the Maximo and legacy numbers. This file is typically an export from a database or spreadsheet.

### Does RadioWorks need an ODBC driver?

No. RadioWorks does not use ODBC in any way. RadioWorks makes connections to Oracle using OCI, Oracle's own low-level API. This is much less work to configure, test, and maintain than ODBC.

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### How does the RadioWorks middleware work?

There are two services. The RadioWorks Data Server accepts requests from clients, runs Perl scripts to compute the results, and sends the results back to the clients. The RadioWorks Oracle Connection holds open a small set of Oracle connections for quick access to an Oracle database. This connection pool is made available to the data server.

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### What version of Oracle does RadioWorks require?

The middleware server runs Oracle client and requires SQLNet 2.3 or later, including any version of Net8. The RWMAX package is installed on the Oracle server and requires Oracle 7.3 or later.

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### What does the package RWMAX include? What kind of resources does it require?

The RWMAX package is a collection of stored procedures and functions. The code does not create temporary or PL/SQL tables that impose extra per-client server resource requirements after the package is created.

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### Does RadioWorks work with multi-schema Maximo databases?

Yes, RadioWorks has been certified to run with multi-schema databases.

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### Does RadioWorks middleware work on a Citrix Server or a Windows Terminal Server?

Yes. While there are no specific advantages from running RadioWorks on a Citrix or Terminal Server, you may do so.

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### How does label printing work at a technical level?

RadioWorks uses lpr to send files to a label printer. This means label printers must be network-enabled with a device that supports lpd, either a builtin interface card, or an external interface, like an HP JetDirect box. The RadioWorks middleware server does not require any special Windows Unix print services.

RadioWorks ships with its own lpr client that provides full logging and diagnostic information, but any Win32 lpr program can be used.

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### How is networking configured on the clients?

Clients require TCP/IP, and are usually set up to use fixed addressing or DHCP. The configuration you choose will depend on what the devices and network support, but any method of obtaining an IP address is sufficient for the RadioWorks client.

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