

INSTALLING AVALANCHE REMOTE CONTROL 4.0

Avalanche Remote Control comes as two separate files: the Remote Control Server installation file (.exe) and the Remote Control software package (.ava). The installation file installs the Remote Control server on a local machine. The Remote Control software package contains the client software that needs to be installed on the mobile device. The software package must be added to an Avalanche software profile before it can be configured and deployed to the device.

This paper provides the following information:

- System Requirements
- Installing the Remote Control Server on Windows
- Installing the Remote Control Server on Linux
- Adding the Software Package to a Software Profile

In addition, if you do not install Remote Control on the same machine as the Avalanche Enterprise Server database, or if you are using Oracle or Microsoft SQL Server as your database platform, you should review the following task:

- Configuring the Database for Remote Access

NOTE: Use of Remote Desktop or other terminal services in conjunction with Wavelink Avalanche Remote Control is not recommended.

SYSTEM REQUIREMENTS

There are two sets of requirements necessary to install and run Avalanche Remote Control: for installing the Remote Control Server and for installing the Remote Control Client. You must have Avalanche Mobility Center OR Site Edition 4.8.1 or later installed in order to use Remote Control. Wavelink recommends installing Remote Control local to the Enterprise Server database.

- Server System Requirements for Windows
- Server System Requirements for Linux
- Client System Requirements

SERVER SYSTEM REQUIREMENTS FOR WINDOWS

- Windows XP, Vista or Server 2008
- 150 MB of disk space required; 200-250 MB recommended

SERVER SYSTEM REQUIREMENTS FOR LINUX

- Linux 2.6 kernel

- 50 MB of disk space required; 100-150 MB recommended
- JRE 1.6.x

CLIENT SYSTEM REQUIREMENTS

- Avalanche Enabler 3.50-12 or later versions
- Windows CE (4.2 or later), PocketPC 2003, Windows Mobile (5.0 or later), Windows XP, or Windows XP embedded devices
- 200 KB of disk space
- 200 KB of Flash memory

INSTALLING THE REMOTE CONTROL SERVER ON WINDOWS

The Remote Control Server installation file installs the Remote Control Server. The Remote Control software package and Client are installed separately.

NOTE: To complete the installation, you will need to know the ports and addresses for the Avalanche Enterprise Server database and the License Server.

To install the Remote Control Server:

1. Obtain the Remote Control Server installation file and save it on the system where you want to install the Remote Control Server.
2. Double-click the Remote Control Server installation file.
A Welcome dialog box appears.
3. Click **Next**.
The License Agreement dialog box appears.
4. Agree to the terms of the license and click **Next**.
The Select Destination Location dialog box appears.
5. Click **Next** to accept the default installation folder, or click **Browse** to navigate to a folder of your choice. After you select an installation folder, click **Next** to continue the installation process.
The Select Start Menu Folder dialog box appears.
6. Click **Browse** to navigate to and select the folder where you want to create Remote Control shortcuts in the **Start** menu.
7. Click **Next**.
The Ready to Install dialog box appears.
8. Click **Install** to begin the installation.

The Remote Control Setup Wizard installs Remote Control.

9. Click **Finish** to close the wizard.
10. Remote Control will launch a web browser in order to present you with the database and license server configuration options.

You can configure the following options on the **Avalanche Database** tab:

DB Type	The type of the database. If you are using the built-in database that came with Avalanche, this is Postgres.
DB Server	The IP address or DNS name of the database.
Database	The name of the Enterprise Server database. If you are using Oracle, this is the SID. If you are using the built-in database that came with Avalanche, this is <code>avalanchexx</code> , where <code>xx</code> is a two-digit Avalanche version number. For example, If you are using Avalanche 5.0.1, the database is named <code>avalanche50</code> .
Port	The port the database is listening on. If you are using the built-in database, this is 5432.
User ID	The username for the database. If you are using the built-in database, this is <code>postgres</code>
Password	The password for the database. If you are using the built-in database, this is <code>admin23</code>

On the **License Server** tab, you can configure the IP address or DNS name of the license server and the port the license server is listening on.

NOTE: If Remote Control is installed local to the Avalanche Enterprise Server, use `localhost` as the address.

11. Configure the database and license server information and click **Save**.

Remote Control is installed on your machine and you can now install the Remote Control software package.

INSTALLING THE REMOTE CONTROL SERVER ON LINUX

The Remote Control Server installation file installs the Remote Control Server. The Remote Control software package and Client are installed separately.

To install the Remote Control Server:

1. Create a directory where Remote Control will be installed.

2. Extract the Remote Control tar file to the directory with the following command:

```
-tar -xvf [filename].tar
```

where {filename} is the name of the Remote Control tar file.

3. Using a web browser, navigate to `http://localhost:1900/app/setup.vm`
4. Configure the database address, license server address, and the port for the license server.

You can configure the following options on the **Avalanche Database** tab:

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DB Server	The IP address or DNS name of the database.
Database	The name of the Enterprise Server database. If you are using Oracle, this is the SID. If you are using the built-in database that came with Avalanche, this is <code>avalanchexx</code> , where <code>xx</code> is a two-digit Avalanche version number. For example, If you are using Avalanche 5.0.1, the database is named <code>avalanche50</code> .
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Password	The password for the database. If you are using the built-in database, this is <code>admin23</code>

On the **License Server** tab, you can configure the IP address or DNS name of the license server and the port the license server is listening on.

NOTE: If Remote Control is installed local to the Avalanche Enterprise Server, use `localhost` as the address.

5. From the command line, navigate to the `Remote Control` directory that was created in the installation directory.
6. To start the server, type `./wlrcserv.sh`

The service will run as long as the window is open.
7. Modify the firewall to allow Remote Control traffic. Remote Control uses ports 1899 and 1900.

ADDING THE SOFTWARE PACKAGE TO A SOFTWARE PROFILE

The Remote Control software package must be added to a software profile in Avalanche in order to deploy it to your mobile devices. You can add the package to a new or existing software profile. After the package has been added to a profile, you can configure, enable, and deploy it to mobile devices.

For details about creating and deploying software profiles or adding and configuring software packages in Avalanche SE or MC, refer to the appropriate user guide.

CONFIGURING THE DATABASE FOR REMOTE ACCESS

If the Remote Control Server is installed on the same computer as the Avalanche Enterprise database, you do not need to configure the database for remote access. However, if the Remote Control Server is not installed on the same machine as the Enterprise Server database, you need to configure the database so that Remote Control can access it. If you are using Microsoft SQL Server or Oracle, ask your database administrator for instructions. If you have a PostgreSQL database, you can use the following steps.

To configure a PostgreSQL database for remote access:

1. Stop the database server.
2. On the machine where the database is running, navigate to the PostgreSQL `data` directory. If you used Avalanche to install PostgreSQL, it will be in the following location:

```
[installation directory]\Wavelink\AvalancheXX\db\data
```

3. Using a text editor, open `pg_hba.conf`
4. Add the following line:

```
host all all 0.0.0.0/0 md5
```

Where `0.0.0.0/0` is the range of addresses you will accept a connection from. This should include the address of the machine where Remote Control is installed. For example,
`10.10.29.0/24`

5. Save your changes.
6. Restart the database server.



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