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RealView Developer Kit (RVDK) for ST  
Creating a new connection to STR91x in RVDK

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## Introduction

This document is intended for users of the **RealView Developer Kit (RVDK) for ST**. It describes how to create a new connection to an STR91xF microcontroller in RVDK. This information applies to all versions of RVDK for ST.

*Note: If you are creating a connection to a newly supported microcontroller, you must first install the necessary BCD and FME files. BCD and FME files for newly supported MCUs are available for free download at [www.st.com/mcu](http://www.st.com/mcu). Installation instructions are provided in the "Read Me" that accompanies all new BCD and FME files.*

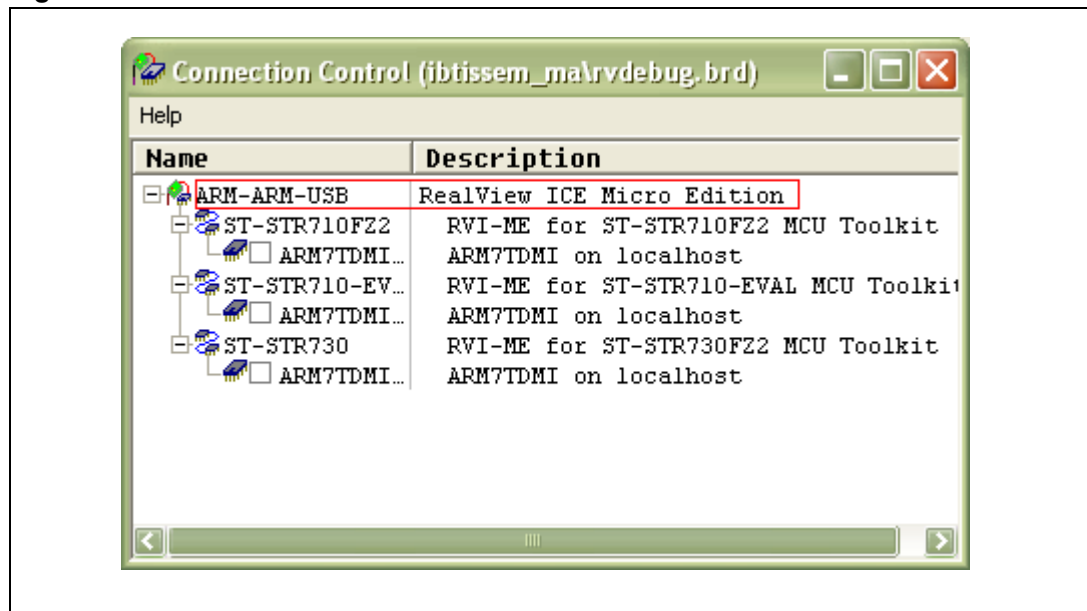
# 1 Hardware and software set up

With the RVDK software running on your host PC, connect your application board to your PC via the RVICE-ME in-circuit emulator. To do this:

1. Power on your application board.
2. Connect the RVICE-ME to your application board's JTAG connector.
3. Connect the USB cable between your RVICE-ME and your host PC.

Before you create the new connection to the microcontroller, ensure that the RVDK software does not already specify a connection to a target microcontroller. To do this, select **File>Connection>Connection control window**. None of the check boxes indicating device connections should be checked (see [Figure 1](#)).

Figure 1. Connection control window

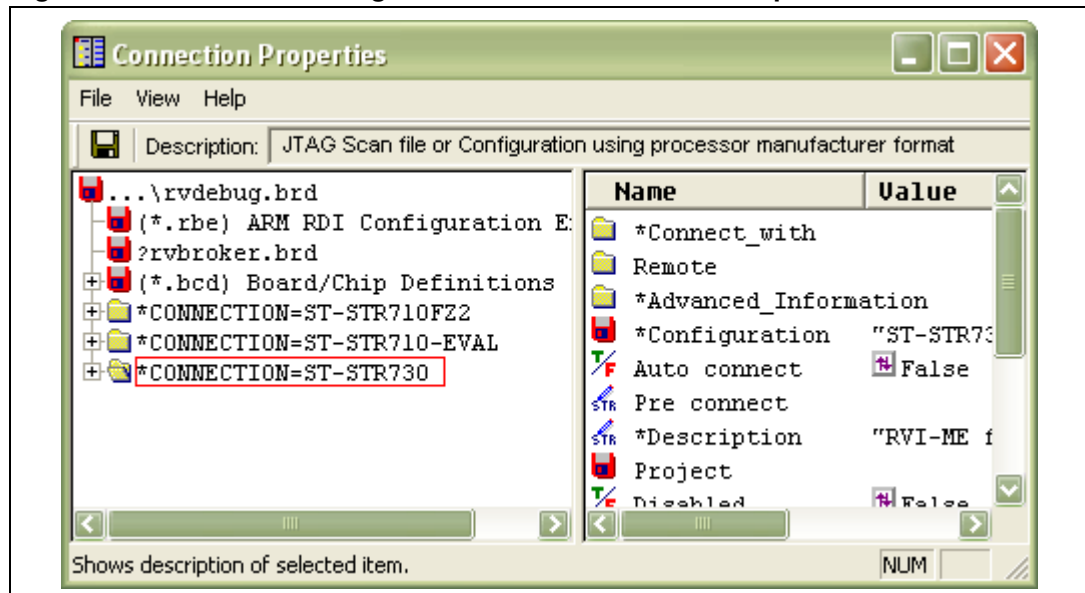


## 2 Creating the new connection

You will now create a new connection from one of your existing connections:

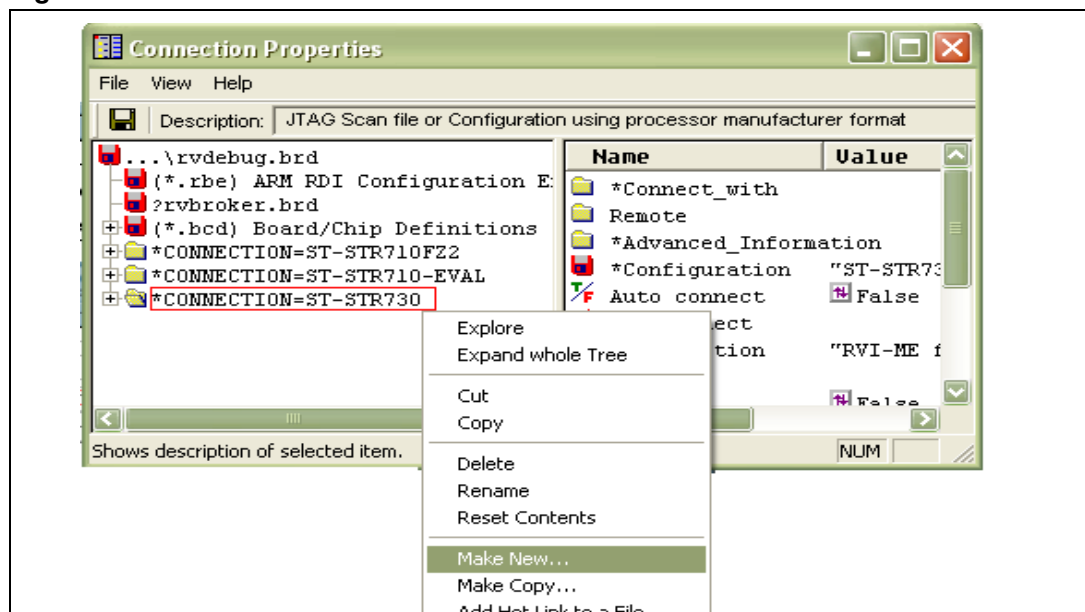
1. Select **Open file>Connection>Connection properties...** The **Connection Properties** window appears (see [Figure 2](#)).
2. Click on one of the available connections. For example, in [Figure 2](#), the user has selected \*CONNECTION=ST-STR730, which will be used to create a connection for STR910.

**Figure 2. Select an existing connection in Connection Properties**



3. Right click on the connection and choose **Make new** in the contextual menu ([Figure 3](#)).

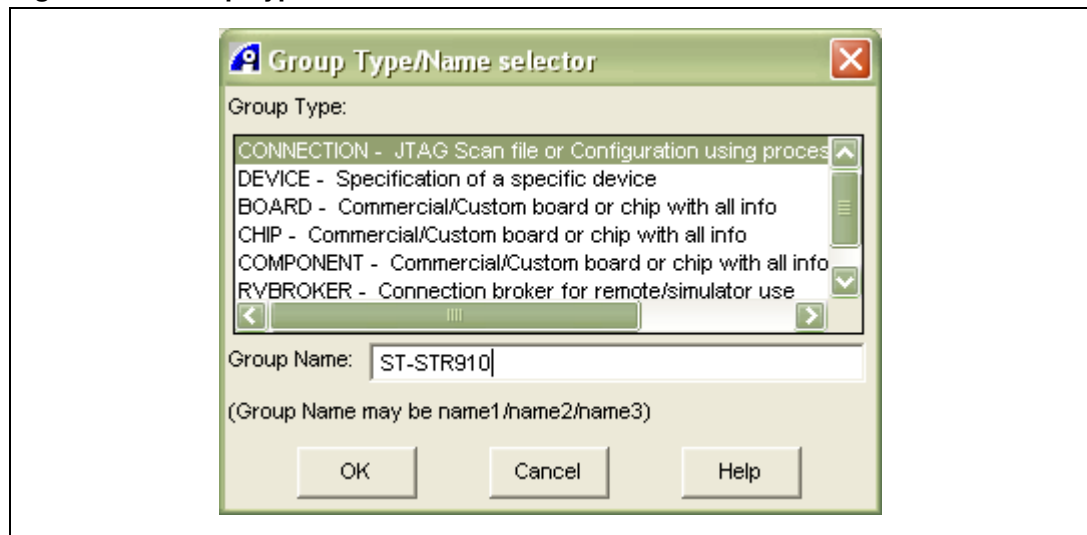
**Figure 3. Make a new connection**



The **Group Type/Name selector** window shown in [Figure 4](#) will appear.

4. Select **Connection-JTAG Scan file or Configuration using processor** (this is the default)
5. Change the name of the connection in the **Group Name** field to indicate the microcontroller that you want to connect to. In [Figure 4](#), the user is renaming an ST-STR730 connection to ST-STR910.
6. Click **OK**.

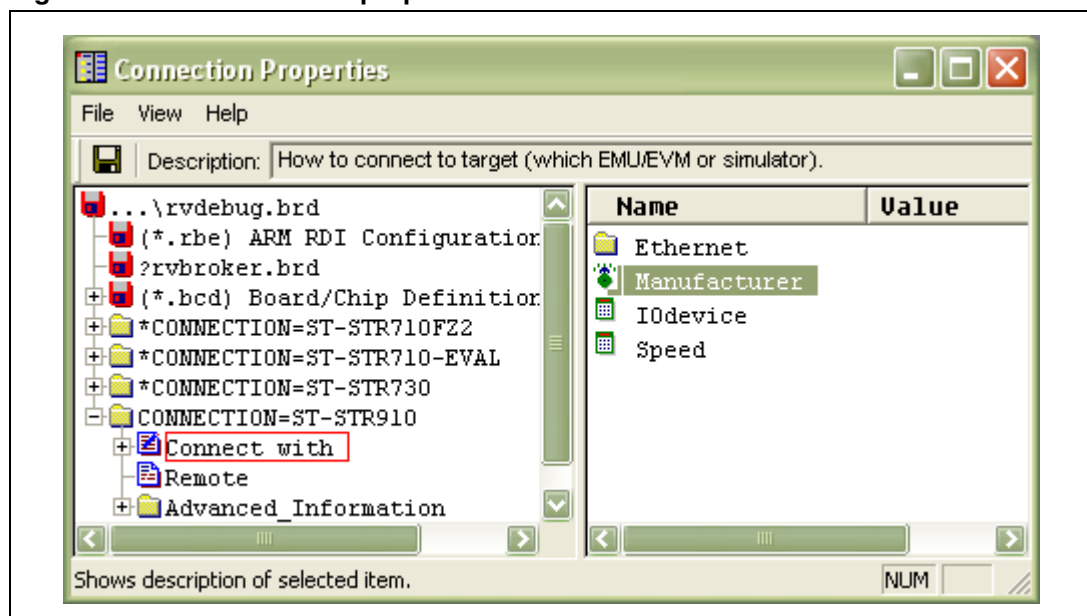
**Figure 4. Group Type/Name selector window**



In the **Connection properties** window, you will find the new connection ST-STR910.

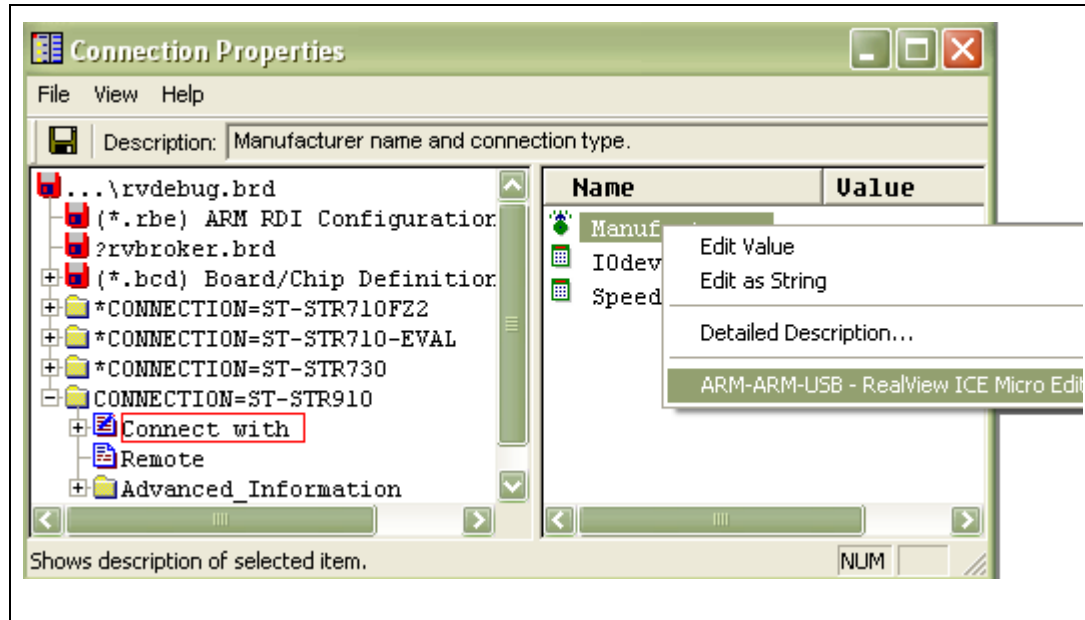
7. Click to expand the connection ST-STR910.
8. Click on **Connect with item** as shown in [Figure 5](#).

**Figure 5. Set connection properties**



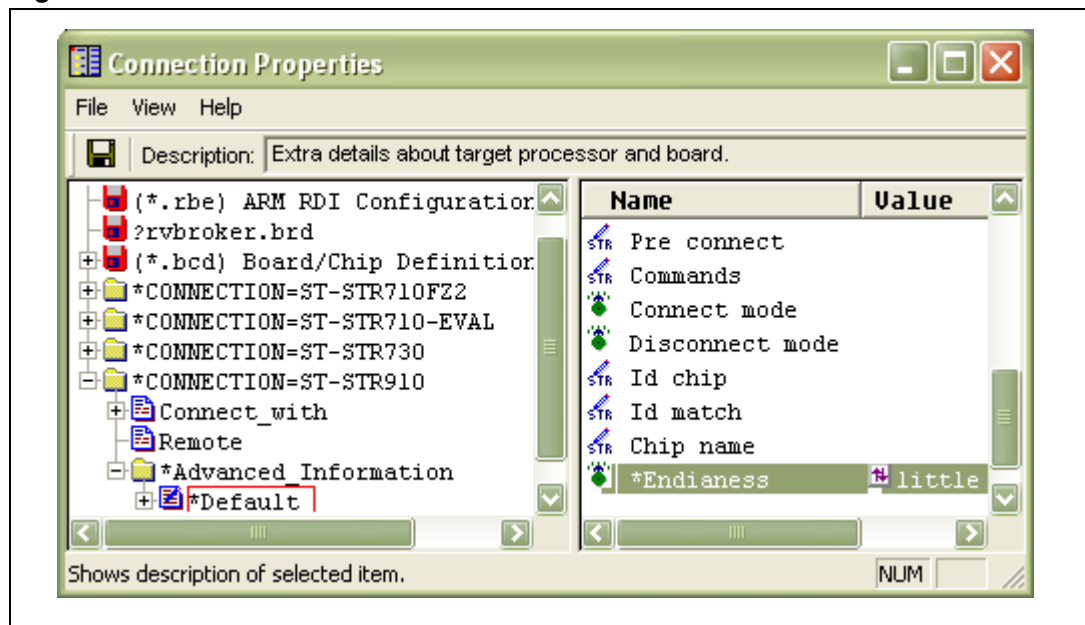
9. In the right panel, right click on the **Manufacturer** item and choose **ARM-ARM-USB-RealView ICE Micro Edition** from the contextual menu (see [Figure 6](#)).

**Figure 6. Specify the manufacturer**



10. Expand the item **Advanced Information>Default**, as shown in [Figure 7](#).
11. In the right panel change Endianness to **Little endian**. By default it is set to Big endian.

**Figure 7. Set endianness**



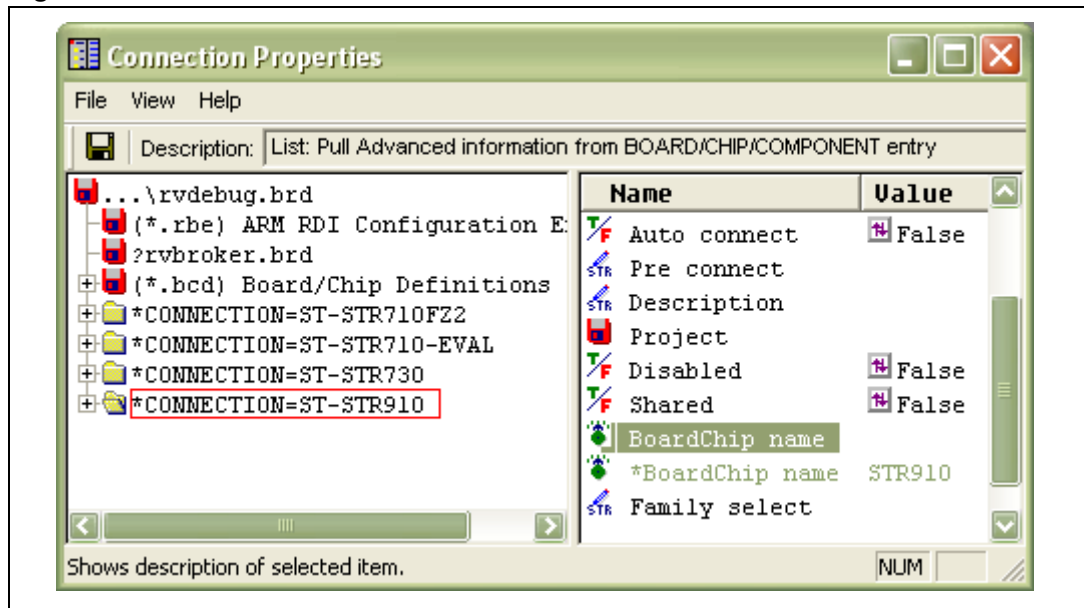
*Note:* For the following steps you must already have copied the BCD files for the new microcontroller to the appropriate RVDK directory. This is described in the “Read me” document provided with all BCD file downloads from ST.

*BCD files should be copied to [Install directory]\ARM\ RVD\Core\1.7\380\st\win\_32-pentium\etc if you are using RVDK 2.1.*

12. Click on **CONNECTION=ST-STR910**.
13. In the right panel, right click on **BoardChip name** and select the new device to connect to (in this case the STR910), as shown in [Figure 8](#).

*Note:* There may be multiple menu entries for a device. You should select the first occurrence of the device name in the list.

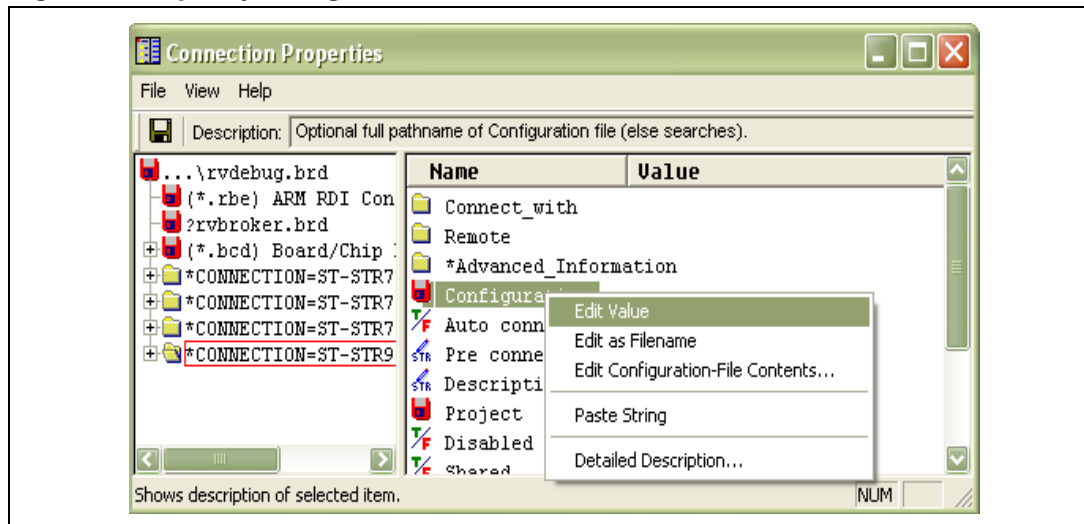
**Figure 8. Select the new device**



Note: For the following step you must already have copied the STR910.rvc file for the new microcontroller to the appropriate RVDK directory. The RVC file should be copied to [Install directory]\ARM\ RVD\Core\1.7\380\st\win\_32-pentium\etc if you are using RVDK 2.1.

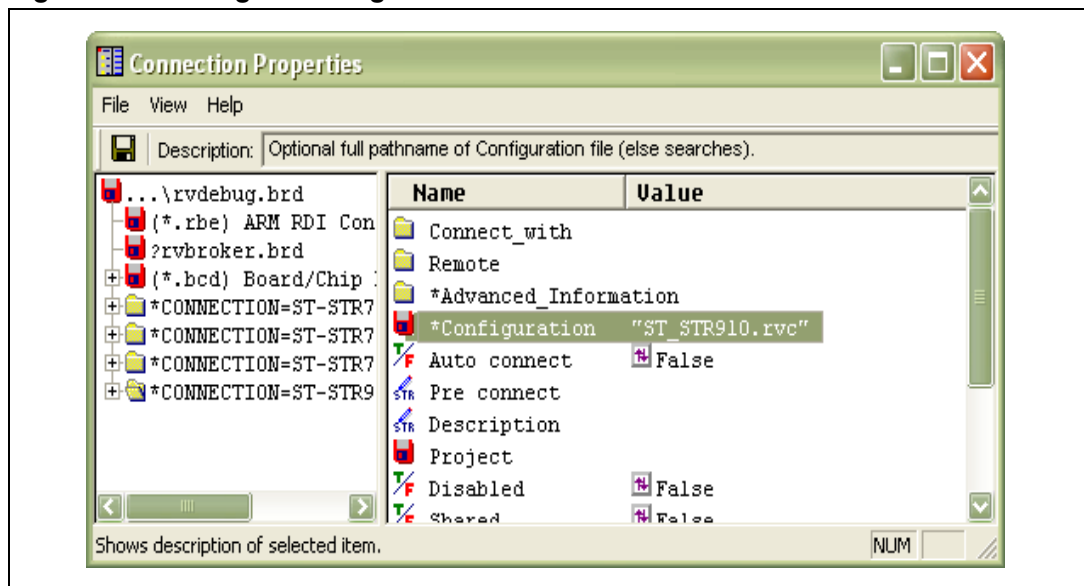
- In the right panel, right click on **Configuration** and choose **Edit Value** in the contextual menu, as shown in *Figure 9*.

**Figure 9. Specify configuration file**



- Edit the name of configuration file in the **Configuration** field to “ST\_STR910.rvc”, as shown in *Figure 10*.

**Figure 10. Editing the configuration file name**

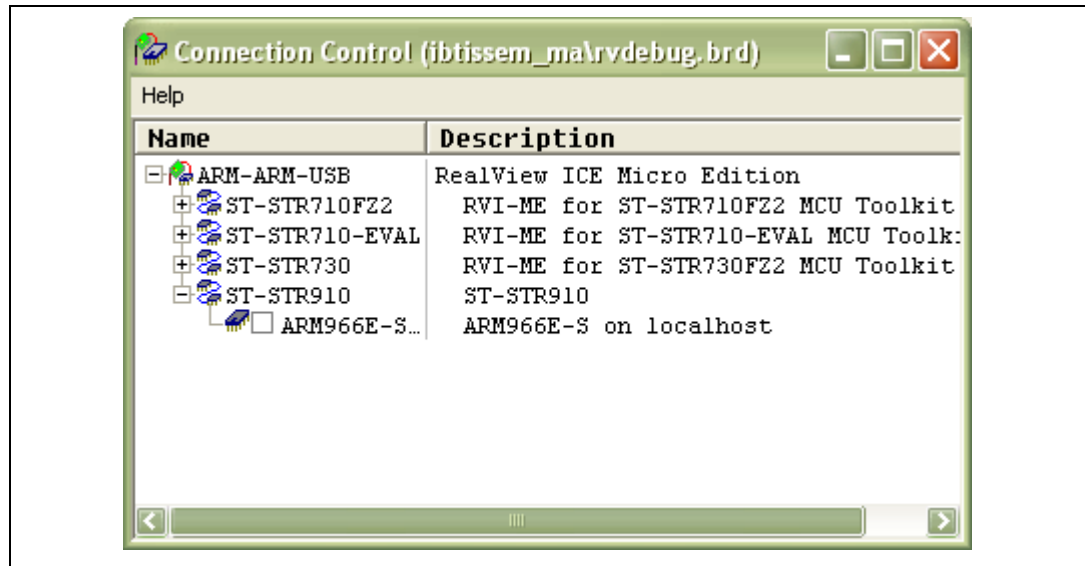


- Save and then close the **Connection Properties** window.

You have created the new connection.

Now, when you open the *Connection control* window and expand the ST-STR910 item, you will find the ARM966E-S item (see [Figure 11](#)). You are now able to connect to the new device (STR910 in the example) and use the supporting BCD and FME files.

**Figure 11. Connection control**





### 3 Revision history

Table 1. Document revision history

Date	Revision	Changes
4-Aug-2006	1	Initial release.

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