Console Port to Cisco Server Cabling

This appendix describes how to interconnect the Console port on the Management Input/Output card (MIO/UMIO) to a Cisco communication server or router equipped with an asynchronous interface module. When so equipped these devices can be configured to function as terminal servers in management networks.

This appendix contains the following sections:

- Introduction, page 1
- Cabling, page 2
- Configuration, page 3

Introduction

Cisco communication servers and routers can be equipped with asynchronous interface modules as shown in the table below. These modules accept one of two types of serial RJ45 "octopus" cables:

- CAB-HD8-ASYNC – uses a single high-density VHDC168M connector at the interface module end,
- CAB-OCTAL-ASYNC – uses a single Micro-D68M connector at the interface module end.

Both cable assemblies source eight 10 ft. (3 meter) cables terminated with male RJ45 plugs.

*Table 1: Cisco Asynchronous Hardware Interface Module Compatibility*

<table>
<thead>
<tr>
<th>Async IF Module</th>
<th>1900</th>
<th>2500, 2600</th>
<th>2800</th>
<th>2900</th>
<th>3600, 3700</th>
<th>3800</th>
<th>3900</th>
<th>Async RJ45 Adapter Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>HWIC-8A/S</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>Yes</td>
<td>CAB-HD8-ASYNC</td>
</tr>
<tr>
<td>HWIC-16A/S</td>
<td>—</td>
<td>—</td>
<td>Yes</td>
<td>Yes</td>
<td>—</td>
<td>Yes</td>
<td>Yes</td>
<td>CAB-OCTAL-ASYNC</td>
</tr>
<tr>
<td>NM-16A</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
<td>Yes</td>
<td>CAB-OCTAL-ASYNC</td>
</tr>
<tr>
<td>NM-32A</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
<td>Yes</td>
<td>CAB-OCTAL-ASYNC</td>
</tr>
</tbody>
</table>
Cabling

The figure and table below indicate how the MIO/UMIO Console port connects to an interface module via the asynchronous RJ45 adapter cable and a Cisco rollover cable or coupler.

**Figure 1: SR 5500 Console to Cisco CAB Assembly Cabling**

**Table 2: ASR 5500 Console Port to Cisco Terminal Server Pinouts**

<table>
<thead>
<tr>
<th>Console Port</th>
<th>RJ45-to-RJ45 Rollover Cable/Coupler</th>
<th>CAB-OCTAL-ASYNC</th>
<th>CAB-HD8-ASYNC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal</td>
<td>RJ45 Pin</td>
<td>RJ45 Pin</td>
<td>RJ45 Pin</td>
</tr>
<tr>
<td>Unused</td>
<td>1</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Unused</td>
<td>2</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>RxD</td>
<td>3</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>SGND</td>
<td>4</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Unused</td>
<td>5</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>TxD</td>
<td>6</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Unused</td>
<td>7</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Unused</td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
Configuration

The MIO/UMIO facing interface of the Cisco server should be configured via IOS as shown in the following example:

line 0/0/0 0/0/14
exec-timeout 0 0
no exec
transport input all
speed 115200

For detailed information, refer to the Configuration guides supplied with the Cisco device and asynchronous interface module. Configuration guides are available at www.Cisco.com.