

# FLRT – a fluent reading trainer

## Workstation System Requirements

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There are two applications used with FLRT.

- FLRT on a network/Internet is accessed by students through a web browser and is available on any web browser with the Flash Player 10 or later installed. (Note: Only Internet Explorer and Firefox will automatically log off the student if the browser is closed instead of logging out of FLRT normally.)
- The Universal Administration and Reporting Center (U-ARC) is class/student management program and is also accessed through a web browser.

### Windows

|                            |   |
|----------------------------|---|
| <b>CPU</b>                 | 1Ghz (or better)  |
| <b>RAM</b>                 | 256 MB  |
| <b>Operating System</b>    | Windows 2000, XP, or newer  |
| <b>HD Free Space</b>       | 500 megabytes   |
| <b>Web Browser</b>         | Internet Explorer 6.0, Mozilla Firefox 2.0, or equivalent<br>(Flash Player 10 or later required)            |
| <b>Available Bandwidth</b> | 256kbps (both up and down) for every 20 concurrent connections<br><b>(Minimum 512kbps both up and down)</b> |

### Macintosh

|                            |   |
|----------------------------|---|
| <b>CPU</b>                 | G4 or better  |
| <b>Operating System</b>    | Mac OS 10.2 or higher   |
| <b>RAM</b>                 | 512 MB  |
| <b>HD Free Space</b>       | 500 megabytes   |
| <b>Web Browser</b>         | Safari 1.3, Mozilla Firefox 2.0, or equivalent<br>(Flash Player 10 or later required)                       |
| <b>Available Bandwidth</b> | 256kbps (both up and down) for every 20 concurrent connections<br><b>(Minimum 512kbps both up and down)</b> |

**Note:** The Safari browser does not support the ability to detect when students exit the program by closing Safari. If Safari is used, the system will still see these students as being logged in and may need to be logged out by a teacher.

"Available bandwidth" is the amount of free network bandwidth available on the network connection when network traffic is at its highest. Note that some Internet connections (like DSL and cable) have a independent upload speeds (usually 256kbps) this could have adverse effects if using MindPlay's Internet server.

**Note:** FLRT cannot be installed as a stand-alone on a Macintosh. It must be connected to either a Windows server at the school/district level or to MindPlay's Internet server.

# FLRT – a fluent reading trainer

## Server System Requirements

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There are four potential server configurations:

1. **Local Area Network (LAN)** – This means that FLRT is hosted on a server at the school.
2. **Wide Area Network (WAN)** – This means that FLRT is hosted on a server at the district level and accessed by multiple schools.
3. **Internet** – This means that FLRT program is hosted on MindPlay's Internet server.
4. **Stand-alone** – This means that FLRT program is installed completely on specific workstation.

For Internet and Stand-alone configurations, the server requirements listed below would not apply.

### Local Area Network

|                         |   |
|-------------------------|---|
| <b>CPU</b>              | 2Ghz (or better), one processor or core for every 50 concurrent connections                   |
| <b>RAM</b>              | 1 gigabyte RAM, plus an additional 512 MB for every 20-30 concurrent<br><b>(minimum 2 GB)</b> |
| <b>Operating System</b> | Windows Server 2003 or newer<br>(64-bit support is limited to Windows Server 2008 and above)  |
| <b>HD Free Space</b>    | 1 GB  |

### Wide Area Network

|                         |  |
|-------------------------|--|
| <b>CPU</b>              | 2Ghz (or better), one processor or core for every 50 concurrent connections  |
| <b>RAM</b>              | 1 gigabyte RAM, plus an additional 512 MB for every 20-30 concurrent<br><b>(minimum 2 GB)</b>  |
| <b>Operating System</b> | Windows Server 2003 or newer<br>(64-bit support is limited to Windows Server 2008 and above)   |
| <b>HD Free Space</b>    | 1 GB   |
| <b>Network</b>          | 100-megabit Ethernet on the internal networks.<br>At least a T1 connection between the district/organization and each of the individual schools/sites.   |
| <b>Other</b>            | Someone at the district-level needs to be in charge of the program as a whole—adding schools to the database, allocating connections to the schools and retrieving lost/forgotten passwords for the program administrators at the schools. |

**Note:** A non-dedicated server may require more RAM, processing power and/or processors, depending on what else is running and how heavily used the server is.