

Technical Requirements for web deployment of DevInfo v5.0 Database

In DevInfo 5.0 user interface, one can access and query databases both from the local computer and from a remote server via the internet. This note addresses the additional requirements for web deployment of DevInfo databases.

Technical Requirements

1. **Operating System/Web Server.** The following types of systems are supported:

Microsoft Windows Server 2003/IIS	Closed source system (license required)
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2. **Database Technology.** The following types of databases are supported:

Microsoft SQL Server 2003/2005	Closed source system (license required)
Oracle Database 10g	Closed source system (license required)
MySQL 5.0	Open source
Microsoft Access	Closed source system (no license required)
Microsoft Database Engine	Closed source system (no license required)

Administrative Requirements

1. **Web Hosting.** There are three options for setting up a DevInfo web server:

Local Host	Hardware/software setup - \$20,000 setup + \$200/mo*
External Host (Shared)	Entry level - \$200 setup + \$35/mo*
External Host (Dedicated)	High performance - \$5000 setup + \$400/mo*

**Note: Rough estimates for information purposes only.*

2. **Webmaster.** The web database needs to be supported by a Webmaster, a Database Administrator with the technical skills required to upload/modify the database on the web and to manage user profiles for data entry on the web. The DevInfo 2006 work plan includes "Activity A.10 DevInfo v5.0", a five-day workshop for senior data managers for advanced webmaster training on web deployment of a DevInfo database. It includes registration of the web site, hosting, creation of a database on-line, web database administration and online data entry.

3. **Creating an Web-enabled database** involves the following steps:

- a. Create a template using the Template Module
- b. Create an MS Access database using the online/offline Data Entry Module
- c. Create a database to be web-enabled using the selected relational database management system (RDBMS) from the MS Access database
- d. Review/update RDBMS-specific data types for fields of all tables
- e. Establish a web host connection with permission to upload data
- f. Upload the database tables to the web-enabled database. Upload by record set where bulk transactions require handling procedures
- g. Create an information page for the database with a link to the database home page (for example, this could be from the NSO's home page)
- h. Periodic uploads/modifications to the online database

Note: One RDBMS may contain several data sets where each data set corresponds to one off-line database (MDB).

4. **Web-enabling an existing DevInfo v4.0/v5.0 database** involves the following steps:

- a. Convert the database from DIv40 to DIv50 using the Database Administration Tools Module
- b. Create the database to be web enabled using the selected RDBMS from the MS Access database
- c. Follow the steps 'c' through 'h' mentioned above.

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