Instructions on the installation of ABCD v1.2t

Version 1.2t(ransitional) of ABCD is called 'transitional' because it prepares ABCD for the major upgrade to version 2.0 which we hope to publish rather soon after releasing the transitional version. This means that some architectural changes, concretely for the use of different versions of CISIS as the underlying executables library, already have been fully implemented, opening the way for the introduction in version 2.0 of Digital Library and Unicode as the crucial new features.

However v1.2t in its own right contains a lot of improvements and changes, see the list under here (paragraph 1). We might even have forgotten some 'under-the-hood' changes, but the list gives a good impression on the work done.

Since the packages install a FULL version of ABCD (not just an upgrade patch), users have to be cautious when installing it along with or over an existing installation. The main issues to check are listed under here in paragraph 2.

A separate document discusses the migration of the ABCD Site, as we have introduced a rather new version of the BVS-Site in ABCD this entails some more steps.

The somehow separate EmpWeb module (for advanced loans) is part of the packages and doesn't need separate downloads, but still needs a major installation effort by installing Java JDK and MySQL-server (or other JDBC-compatible SQL-database). The configuration is prepared for running with Jetty (included in the package) and MySQL (standard installation with password 'empweb') from the folder ABCD/empweb) by launching the Jetty server with the script empweb.sh (or embweb.bat for Windows) with added parameter 'start'.

1. List of changes/additions as compared to version 1.2b and earlier versions of ABCD

    ABCD Version 1.2 features

    • PHP v.5.3.11 compiled with Yaz compatible with Apache 2.2 and 2.4

    • MARC21 - new version simplified FDT and Data Entry, with clean records
     check translations please

    • New OPAC ABCD Site, version 5.3.1 of VHL of Bireme
       - New editor of ABCD Site user: admbvs pswd: adm@bvs

    ABCD/Central

    There is documentation in part (in Spanish only for the time being) at this URL:
    http://isisabcd.pbworks.com/w/page/30987393/FrontPage

    • some fine tuning to work with new versions of browsers (not 100% but almost there)

• Multiple database folders using C:\ABCD\www\dbpath.dat

• Configuration
  - Parameterization: new parameters in config.php
  - declaration of isisac.tab and isisuc.tab in the file dbn.par
  - The use of syspar.par with file locations common to all databases
  - Settings/Folder Management for managing digital images and documents linked to records

• Field Definition Table, entry fields and formats
  - Text fields with fixed length character counter
  - Management of fields with the first subfield mandatory but without subfield delimiter
  - New handling of repeatable fields with subfields
  - New management options for date fields
  - Management fields whose first subfield is optional

• Data Entry
  - Entry Format improved with added options in the field definition table
  - Manage picklists or selection menus from the record editing process itself for administrators
  - Improved validation of records
  - Improved format Begin validation
  - Improved format End validation
  - Addition of a check format for validation when deleting records
  - Edition of display format of the record within the data entry interface
  - Add javascripts to display formats of records
  - Add multiple fields simultaneously from a database associated with a field
  - Copy current record to the end of the database
  - Add zeros (or not) to the left of the control field up to a fixed number of digits
  - The database picklist presents the full length term as pop-up when pointed with the mouse in order to differentiate terms longer than 60 chars.
  - If there is a warning in the validation of records, allows to save/modify/cancel the process.
  - free-text searches
  - Allow expand / collapse every section is an entry worsheet
  - When a worksheet for editing subfields (as inmarc) are now all subfields boxes, are content or not
  - Define a cross-searchable format by descriptors, authors, etc.. from the cataloging module or to call iAH

• Utilities
  - Request for MFN range to run utilities on subsets to avoid "time-out"
  - Improvements in the procedure of Global Changes
  - Improved export procedure to remove "ghost" fields which were generated during the process

• Language Files with labels and messages
   - Major revision of translation and updating
   - New option to present a consolidated table with the different translations of the messages in columns side by side

• Loan and reserves
   - definition of loan reports
   - definition of reservations reports
   - In the configuration an option was added to initialize the backup databases, suspensions, fines and transactions
   - Select what receipts to print in the circulation process and edit their configuration
   - In configuration of the catalogue source database an option was enabled to say if you work with copies or without copies and to enable / disable a loans system database
   - Fixed the problem with the control number when copying a record
   - Added a field to the situation of the reserve:
        0 | Pending
        1 | Cancelled by supervisor
        3 | Copy assigned: Copy is assigned when the item is returned and assigned to a reserve
        4 | Copy provided: Copy provided when the user is booking the book copy to complete the loan process
   - Added new status in the table of suspensions and fines:
        0 | Active
        1 | Deleted by the supervisor
        2 | Fine payed
        3 | Not active: The status corresponds to suspensions that have expired

2. Precautions when installing this version

This version comes as a full installation package, regardless of the specific package you chose. Currently we have 5 packages :

- Windows version with full installer, which will also adjust configuration parameters like port, folder, language, default database for OPAC etc. After first unpacking all the files and then adjusting the configuration files for Central, Site and iAH, ABCD is ready to be launched under the chosen port.
- Windows version as zipped package : this is the traditional ABCD package which simply needs to be unzipped into the root of a harddisk and can immediately run from there under port 9090 with its own Apache and PHP configuration.
- Linux version for Debian (or Ubuntu/Mint), tested under Debian7 Wheezy 64-bits. As a .deb package this is to be installed with a command
dpkg -i abcd_v1.2t_amd64
and ABCD will be installed in /opt/ABCD with the databases copied (if not yet existing there) in /var/ABCD/bases.
This means that existing databases in /var/opt /ABCD will not be overwritten,

whereas all demo-databases remain available in /opt/ABCD/www/bases_examples. This package comes with the 32-bits version of CISIS kept separately in a folder ABCD/www/cgi-bin32, whereas the folder cgi-bin contains the 64-bits version of CISIS.

- Linux version for Debian (or Ubuntu/Mint) for 32-bits : this is exactly the same version as the 64-bits version but with the cgi-bin folder reversed, so having in cgi-bin the 32-bits version of CISIS whereas in cgi-bin64 a copy of the 64-bits version is kept.
- Linux version as .tar.gz : this is the equivalent to the Windows .ZIP package but without the Apache and PHP folders, since in Linux these are supposed to be installed in their dedicated main folders with configuration files in /etc. This version simply has to be unpacked with the command :
tar -xvf abcd_v1.2t.tar.gz within the /opt folder.
The package contains only the ABCD www folder, and in there the 'htdocs'-folder and the 'bases' folder. Using this package you are supposed to understand ABCD installation to refine it manually, e.g. by copying the databases somewhere else and changing the database-paths variables in the configuration files of ABCD.

Since these packages contain their own configuration files and databases, you are always advised to keep a backup safely from any previously used ABCD with local content (i.e. your own databases or specific configuration files). We draw your attention specifically to the following folders and files :

- bases : in Windows, earlier versions of ABCD by default had their databases under the folder ABCD/www, and so does the new version, so be careful : put your databases somewhere else and re-copy them into the new ABCD-installation. In Linux previously databases were mostly installed under /var/www/ABCD/www/bases, so you can leave them there and copy your databases into /var/opt/ABCD/bases as needed.
- Central configuration file 'config.php' in the folder ABCD/www/htdocs/central : make sure you have a copy of your existing configuration saved somewhere else since the new ABCD will overwrite it. Then compare and change variable definitions as needed, e.g. the path to the database, the default language etc.
- Site configuration file 'bvs-site-conf.php' in ABCD/www/htdocs/site : idem
- iAH OPAC configuration file 'iah.def.php' in ABCD/www/htdocs/iah/scripts and index.php in ABCD/www/htdocs/iah : idem
- the file 'bases.dat' in ABCD/www/bases (or /var/opt/ABCD/bases in Linux) contains the list of available databases, which you can adjust by using any text-editor (e.g. Notepad for Windows or nano for Linux).
- some earlier versions of ABCD1.2beta already came with a file 'abcd.def' in the bases-folder of ABCD. Keep a copy of this and merge it with the new version of this file which has more entries and examples of references to other CISIS-versions for specific databases (for later use in v2.0). While merging check the version info and the name of the responsible institution.
- lang.tab in the ABCD bases folder : contains the languages of your installation, so merge your own previously existing one with the new one if you made changes to this

In principle 'old' databases (of previous versions) should work well with the new version, although without the new features being active. E.g. your worksheets for cataloguing won't contain any of the new data-entry elements, except for the automatically added icons to edit pick lists from the worksheet at data-entry stage itself.

The main differences were done in the MARC21 database and most existing ABCD-installations will also have worked on the MARC21 database, so if you have your own local catalogue database : be careful to first keep it somewhere separate and start copying your files (mostly in the data, pfts and def subfolders of the marc-database folder) cautiously. Once you can open your existing catalog or other databases in the new version, you can apply new features by simply going back to the 'database definition' main menu option, e.g. changing some data-entry elements (lay-out in the worksheet) in the FDT or worksheets. The PFT's can be adjusted now also directly from the data-entry screen if you have sufficient privileges to do so (administrator).