

TDM Users and Access 5.5

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USERS AND ACCESS

ICIS INSTALLATIONS, USERS AND ACCESS PRIVILEGES

ICIS is implemented separately for each crop and operated through multiple installations. Users assigned to each installation have read-only access to the central database (or a copy of it), and different levels of access to a local database. Information on all installations is retained in an INSTALLATION table in the central database. A similar table in each local database, contains only information pertaining to the specific installation. Applications are thus able to determine which installation is being opened.

The GMS INSTALLATION Table (INSTLN)

Columns - Long Name (Name)	Description	Type	Length (bytes)
INSTALLATION_NO (INSTALID)	Unique number for each installation. 1 for central GMS.	Integer	2
ADMIN_USER_ID (ADMIN)	USER_ID of the administrator for this installation	Integer	2
UPDATE_DATE (UPDATE)	Date of last central GMS update from this installation	Long	4
UPDATE_GID (UGID)	Last local germplasm ID updated	Long	4
UPDATE_LOCN (ULOCN)	Last local location ID updated	Long	4
UPDATE_CID (UCID)	Last local change ID updated	Long	4
UPDATE_NID (UNID)	Last local name ID updated	Long	4
UPDATE_AID (UAID)	Last local attribute ID updated	Long	4

UPDATE_LDID (ULDID)	Last local location descriptor updated	Long	4
UPDATE_METHN (UMETHN)	Last local method ID updated	Integer	2
UPDATE_FLDNO (UFLDNO)	Last local user field ID updated	Integer	2
UPDATE_REFNO (UREFNO)	Last local reference ID updated	Integer	2
UPDATE_PERSONID (UPID)	Last Person ID updated	Long	4
UPDATE_LISTID (ULISTID)	Last List ID updated	Long	4
INSTALLATION_DES (IDESC)	Description of the installation	Text	255
DMS_STATUS (DMS_STATUS)	Zero unless the local DMS is being updated in which case it is one.	Long	4
UPDATE_LRECID (ULRECID)	Last LRECID updated	Long	4

The USER Table (USERS)

Columns - Long Name (Name)	Description	Type	Length (bytes)
USER_ID (USERID)	Unique user identification number	Integer	2
INSTALLATION_NO (INSTALID)	Number of the ICIS installation to which the user belongs If zero, the user has access to any local database up to the level of access privilege (set by central administrator)	Integer	2
USER_STATUS (USTATUS)	Status of the user – UNASSIGNED (0), ACTIVE (1), SECURE (2) or CLOSED (9). USERID can be allocated to a particular installation without being assigned. The local administrator can then assign them. Thereafter he/she may only close them, and the sequence is not reversible. SECURE users have their passwords encrypted so that they can only log on through the DLL and cannot log on to other users accounts even if they see the encrypted passwords.	Integer	2
USER_ACCESS (UACCESS)	Number indicating the access privilege level of the user. See table below for privilege levels.	Integer	2

USER_TYPE (UTYPE)	Description of user type. For example: (420) Central administrator, (422) Local administrator, (423) Local User, (421) Guest user, Programmer, Data capture project, Breeding project, Genetics research, Genetic resources.	Integer	2
USER_NAME (UNAME)	Unique user name assigned by the user.	Text	30
USER_PASSWORD (UPSWD)	Password allocated by the system, but changed by the user.	Text	10
PERSON_ID (PERSONID)	Person ID linking the user to information such as names, addresses, institute etc. in the PERSONS table	Long	4
ASSIGN_DATE (ADATE)	Date the user ID was assigned as YYYYMMDD	Long	4
CLOSE_DATE (CDATE)	Date the user ID was closed as YYYYMMDD	Long	4

Selected users, such as the central database administrator have full access to the central database and to all local ICIS databases. There will also be a “guest user” who will have read access to the central database and to any local database to which physical access is available. All other registered users are linked to a specific installation, with read only access to the central database and varying levels of access to one or more tables of their local database. The user ID, user name, and password will be checked by the open database routine called by all applications, and access to different functions controlled by a system of access privileges.

ICIS Access Privileges

Access to the ICIS database is controlled by a USER_PASSWORD and USER_ACCESS privileges. The list of access privileges is given in the table below. The privileges are cumulative so that a user with privilege N has access to all operations controlled with privilege levels less than or equal to N. Anyone starting an ICIS application automatically has access code 10 as a guest user. When a remote installation is allocated, the local ICIS administrator, who must be identified, is assigned a USER_ID with ACCESS_PRIVILEGE 100. Local USERIDs may be assigned to local users by the local administrator, and given ACCESS_PRIVILEGES less than 100. The local administrator may not change assignments of these USER_IDS once they have been made, but may change the access privileges of all local users except his own. When the database is opened, the supplied user name and password are checked against values in the USERS table. If valid, the databases are opened. Then the single record from the installation table in the local database is read and a check is made that the user has access privileges for the local database. If not, the local database is closed, otherwise access to individual functions in the GMS DLL is checked against the user’s access privileges as calls are made to those functions.

ICIS_GMS Access Privilege Codes

Code	Meaning
10	READ CENTRAL DBMS
20	READ LOCAL AND CENTRAL DBMS

30	ADD LOCAL GERMPLASM DATA RECORDS
40	CORRECT OWN, LOCAL GERMPLASM RECORDS
50	ADD LOCAL SUPPORT DATA (METHODS, CONSTANTS, LOCATIONS)
60	CORRECT OWN, LOCAL SUPPORT DATA
70	CORRECT ALL LOCAL GERMPLASM AND SUPPORT DATA
80	ALLOCATE LOCAL USER_IDS AND PRIVILEGES
90	SUBMIT LOCAL DATA RECORDS TO CENTRAL DATABASE FOR UPDATE
100	LOCAL ICIS ADMINISTRATOR
110	UPDATE central GMS
120	CORRECT RECORDS IN central GMS
130	ALLOCATE USER-IDS FOR REMOTE INSTALLATIONS
140	ALLOCATE REMOTE INSTALLATIONS
150	CENTRAL ICIS ADMINISTRATOR

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