

The IRRI logo is displayed in a green, serif font. It is positioned in the upper left quadrant of the slide, above a dark blue horizontal band. The background behind the logo is a light blue gradient with a faint, repeating pattern of rice stalks and leaves. To the right of the logo is a yellow rectangular block, and further right is a dark green rectangular block.

IRRI

Multi-user access and restriction

(General solution)

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The CIMMYT logo features a stylized white icon of a rice stalk to the left of the text 'CIMMYT' in a white, sans-serif font. A small 'MR' trademark symbol is located at the bottom right of the text. The logo is set against a green background that has a wavy, hill-like shape at the bottom of the slide.

 CIMMYT^{MR}

Background

- **ICIS Workshop 2007:** Presentations by Sandra (UQ) and Shawn (AAFC) about their needs of restricting user access (per-project basis) to ICIS data.
- **ICIS Workshop 2008:** Presentation by Casper about the Virtual Private Databases (VPD) strategy in Nunhems & Bayer
 - Handles user access restrictions per project/crop
 - Oracle-specific solution; “optional solution for others”.(Detailed discussion later by Sebastien)

Follow-up: AAFC issues

- **Project Data:**
 - Collaborators would like to keep their project data separate from the rest of the research centre data
 - Datasets overlap, depending on the project which causes multiple locals to manage (BAD!!!)
- **Breeding Data:**
 - Some breeders would like to keep their early generation data and genotypic data private (only access to it within their own research centre), while other breeders are willing to share across AAFC.
- Only worried about DMS at this point

Solution to the problem: Option #1

- **Discussion at IRRI about possible solution to AAFC restriction issues, Sept 2008 (Attendees: SYates, MHabito, APortugal, RValerio).....**

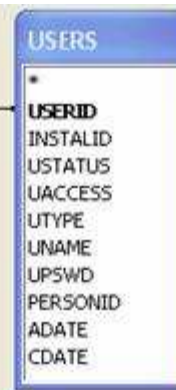
	ID	USERID	PMKEY
▶	1	108	1
	2	108	2
*	(AutoNumber)	0	0



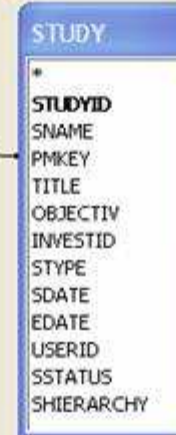
1) New table **PROJUSER** in DMS to contain user-project matching. (User may belong to several projects)

4) Contents of original **STUDY** table are copied to table **M_STUDY**. **STUDY** table is populated with studies that a user has access rights to (based on his/her project)

3) Add entries to **GMS.UDFLDS** table with **FTABLE = 'PROJUSER'** and **FTYPE = 'PMKEY'** to define matching of a project management ID to a project name.

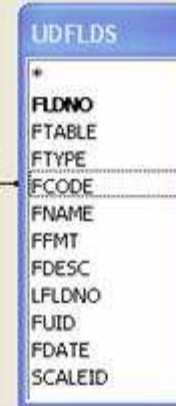


USERID	INSTAL	US	UAC	UTY	UNAME
3	60	1	100	422	LOCALUSER3
-2	60	1	100	422	LOCALUSER2
-1	60	1	100	422	LOCALUSER1
108	60	1	100	422	RBREED
	0	0	0	0	



STUDYID	SNAME	PMKEY
5	UWS03-02	1
-4	UWS03-01	1
-3	UDS03F4	2
-2	UWS02F3	2
-1	UWS02AYT	2
0		0

2) The DMS **STUDY** table (ICIS schema v5.5) has a **PMKEY** column (but currently not being used), to contain the project management ID. (Study belongs to one project)



	FLDNO	FTABLE	FTYPE	FCODE	FNAME	FFMT	FDESC
▶	1	PROJUSER	PMKEY	1	PROJECT 1		PROJECT MANAGEMENT INDICATOR 1
	2	PROJUSER	PMKEY	2	PROJECT 2		PROJECT MANAGEMENT INDICATOR 2
*							

Solution to the problem: Option #1 (cont'd)

- **Assessment:**
 - 1) With MS Access in mind
 - 2) Only one user may use the database at one time
 - 3) Restrictions only at application level (not secure)

Solution to the problem: Option #2

- Adopt the Oracle VPD strategy used by Nunhems & Bayer

Assessment:

- Multiple users may use the database at one time
- Security at application-level and database-level
- **Must** move away from MS Access backend
- Evaluate backends with VPD capabilities