

## **ICIS Installation Diagnostic Tool v5.5.1.5**

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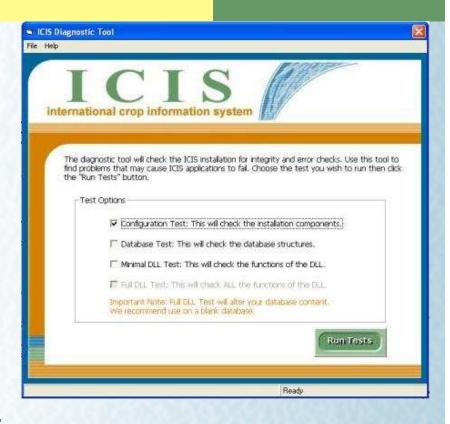
### Objectives of the tool

- Identify the installation/ICIS package problem
- Recommend a solution to the installation problem
- Perform an automatic fix (in some cases)



## Background

- 2006: First introduced at ICIS
  Developers' Workshop as "ICIS System
  Integrity Diagnostics Tool". Was only
  "reporting tool" then.
- 2007: Original Visual Basic prototype translated to Delphi and officially released as part of the ICIS 5.4 package. "Automatic fix" functionalities introduced.

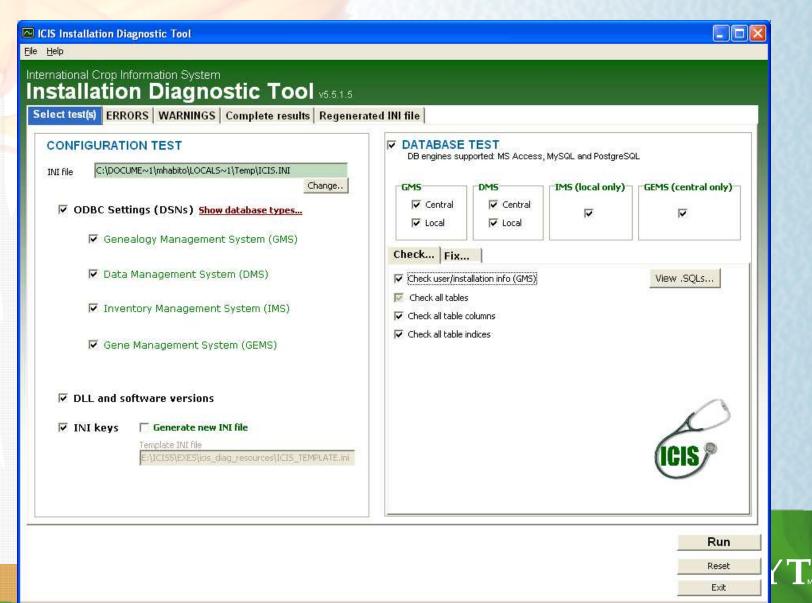


• 2008: Enhancement of "automatic fix" capabilities (including creation of missing database tables) and improvement of reporting format





#### Overview of features: User interface

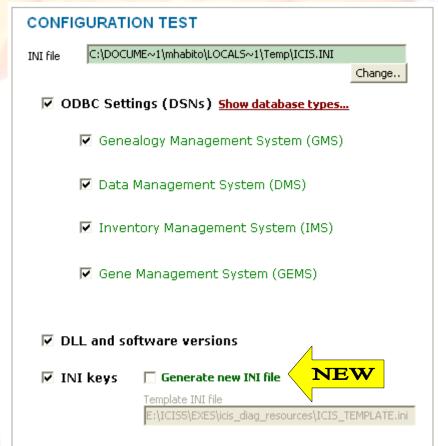


### **Overview of features**

- Works on 3 database backends
  - → MS Access
  - → PostgreSQL
  - → MySQL
- 2 main components:
  - → Configuration Test
  - → Database Test



## **Overview of features: Configuration Test**



Check ODBC settings

Check ICIS DLL and software versions

- Check ICIS INI keys
- → new feature: generate new INI file

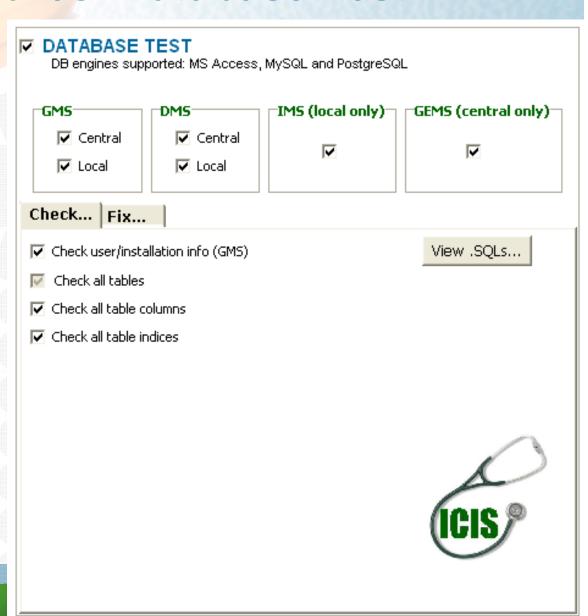


#### **Overview of features: Database Test**

"CHECK" panel...

 Check structure of databases (local & central)

 Check information in USERS & INSTLN tables (GMS)

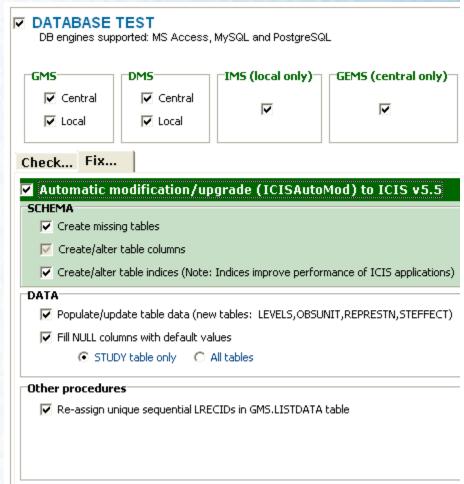


#### **Overview of features: Database Test**

"FIX" panel...

Automatic modification of databases to ICIS Schema v5.5:

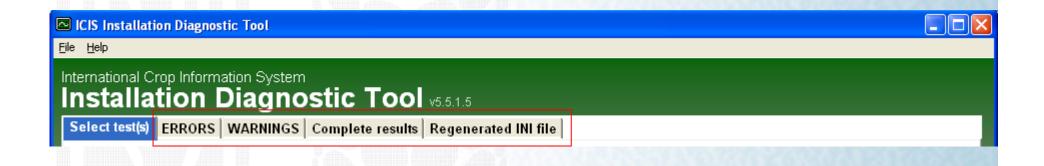
- → Create missing tables ► NEW
- → Create / alter table columns
- → Create / alter table indices
- NEW → Populate tables with data (LEVELS, STEFFECT, OBSUNIT, REPRESTN)
- → Fill NULL columns with default values (0 if numeric,"-" if text) NEW
- → Re-assign unique sequential LRECIDs in LISTDATA table NEW





#### Overview of features: Miscellaneous

- Diagnostic results are grouped into four panels:
  - 1. Errors only.
  - 2. Warnings only.
  - 3. Complete results
  - 4. Contents of regenerated INI file (if user opted to generate a new INI)

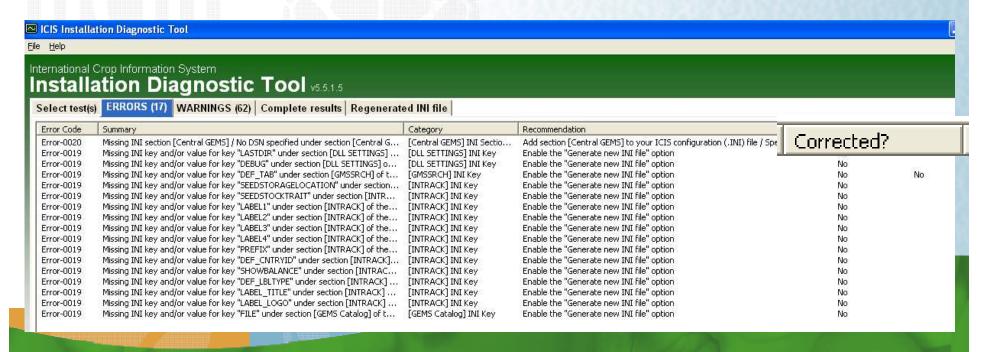






#### Overview of features: Miscellaneous

- Improved reporting format: NEW
  - Error and warning messages now grouped by categories and neatly organized in listviews
  - → More informative summaries & recommendations
  - → Easier to see if problem has been automatically corrected or not

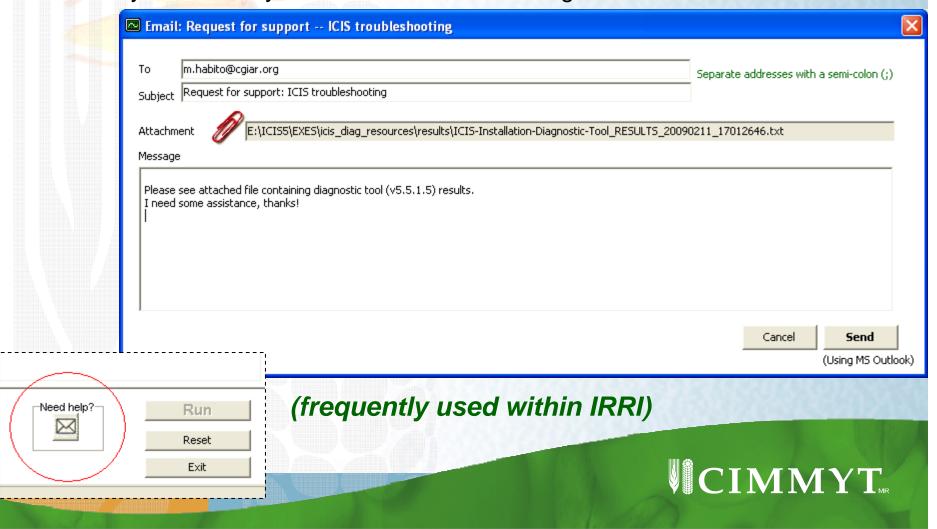


#### Overview of features: Miscellaneous

Email diagnostic results to ICIS team member for support



-> User may immediately send an email with the diagnostic results as attachment



# Moving forward....

Further testing on different database backends



#### **Download and documentation**

 You may download the Installation Diagnostic Tool at: http://cropforge.org/projects/icisdelphi/



• Documentation http://cropwiki.irri.org/icis/index.php/Diagnostic\_Tool\_5.5

