



TWC/27/17 Add.

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GENEVA

**TECHNICAL WORKING PARTY ON AUTOMATION AND
COMPUTER PROGRAMS**


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June 16 to 19, 2009

ADDENDUM

HAND-HELD DATA CAPTURE SYSTEM: SIRIUS

Document prepared by the Office of the Union

At the twenty-seventh session of the Technical Working Party for Automation and Computer Programs (TWC), Mr. Christophe Chevalier (France) made a presentation on the SIRIUS system for data capture, based on document TWC/27/17. A copy of that presentation follows:




SIRIUS

***A hand-held data capture
system***


Experience from France

***Washington / TWC
June 2009***




Program of the talk

- Major reasons which have justified the implementation of a hand-held data capture system like Sirius
- Main functionalities of Sirius application
 - ✓ How to import a DUS trial into Sirius database ?
 - ✓ How to fix the data input order ?
 - ✓ What kind of characteristic parameter setting is managed by the application ?



Program of the talk

- ✓ What type of input screen are provided by the software ?
- ✓ How to research data with Sirius application ?
- ✓ How to connect a device with Sirius ?
- ✓ How to manage sirius database ?



Main reasons

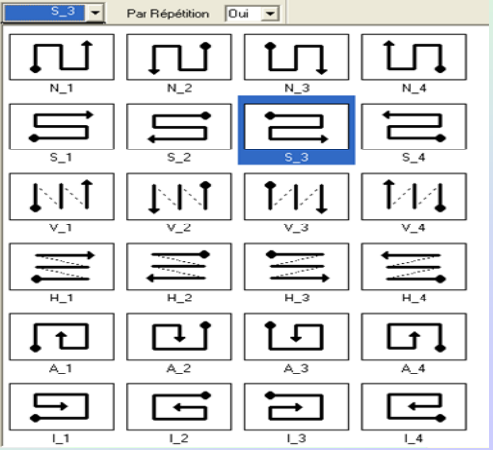
- ✓ Automated the collect of data
- ✓ Reduce the number of error input
- ✓ Increase the number of data integrated in central database
- ✓ Facilitate data input of large DUS trials
- ✓ Provide a good tool to organize the visit of breeders who want to see the behavior of their own varieties
- ✓ Constitute a database where the field crop manager can store and manage their own DUS data

Main functionalities

✓ How to fix the data input order ?
= Possibility to define the plots display order on the input screen

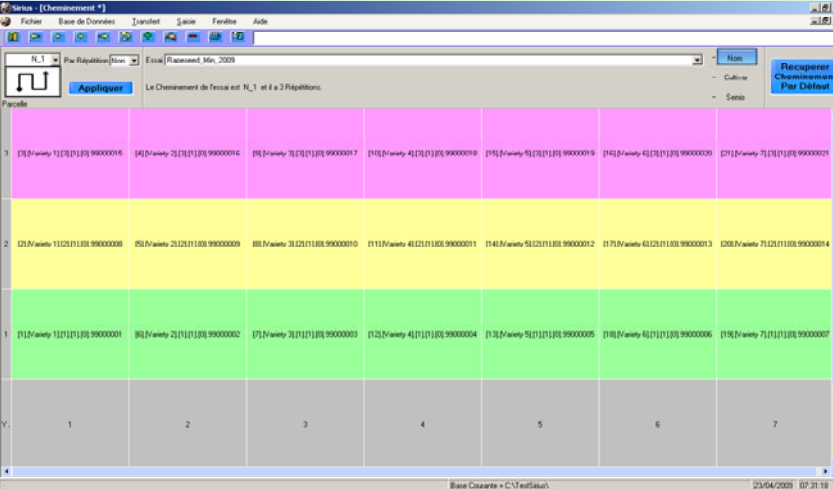
24 predefine types

To use this functionality you have to define the coordinates (X,Y) of the trial !



Main functionalities

✓ How to fix the data input order ?
Screenshot showing the window where you can define and/or modify the data input order



Parcelle	1	2	3	4	5	6	7
3	[13]Variety 1[1][1][1]99000016	[14]Variety 2[1][1][1]99000016	[15]Variety 3[1][1][1]99000017	[16]Variety 4[1][1][1]99000018	[17]Variety 5[1][1][1]99000019	[18]Variety 6[1][1][1]99000020	[19]Variety 7[1][1][1]99000021
2	[23]Variety 1[1][1][1]99000008	[24]Variety 2[1][1][1]99000009	[25]Variety 3[1][1][1]99000010	[26]Variety 4[1][1][1]99000011	[27]Variety 5[1][1][1]99000012	[28]Variety 6[1][1][1]99000013	[29]Variety 7[1][1][1]99000014
1	[11]Variety 1[1][1][1]99000001	[12]Variety 2[1][1][1]99000002	[13]Variety 3[1][1][1]99000003	[14]Variety 4[1][1][1]99000004	[15]Variety 5[1][1][1]99000005	[16]Variety 6[1][1][1]99000006	[17]Variety 7[1][1][1]99000007

Main fonctionnalités

✓ What kind of characteristic parameter setting is manage by the application?

- A display order
- A input type
- A reference value
- A lower & upper limit
- A comment
- A lower & upper filter
- A input mask

Normal : Default mode.
 No input : It's visible but not noted.
 Not displayed : It's not visible.
 Day of month : It's prefilled with the current day.
 Criteria : It's prefilled with the reference value.
 Condition : It manage the access in notation of a « Associated » characteristic.
 Associated : It access in notation is managed by a « Master » characteristic

9 → Note on 1 digit
 99 → Note on 2 digits
 99.99 → Note on 2 digits before the comma and 2 digits after the comma


Main fonctionnalités

✓ What kind of characteristic parameter setting is manage by the application?

Screenshot showing the window where you can manage your characteristics parameters

The screenshot shows a software window titled 'Caractéristiques' with a menu bar (Fichier, Base de Données, Paramètres, Service, Fenêtre, Aide) and a toolbar. Below the toolbar is a search bar and a list of parameters. The list has columns for 'N° Caractéristique', 'Date Modification', 'Nom Long', 'Unité', 'Format', 'Type de Valeur', 'Valeur Type', 'Marge inf.', and 'Marge sup.'. The list contains 11 rows of data, including parameters like 'Cours unitaire', 'Laba', 'Nb lab', 'Densité', 'Colorimétrie', 'Temps de Remplissage', 'Longueur', 'Volume', 'Production', and 'Hauteur'.

N° Caractéristique	Date Modification	Nom Long	Unité	Format	Type de Valeur	Valeur Type	Marge inf.	Marge sup.
4	24/03/2007	Cours unitaire	Co/L	1	99	0	0	9 999
5	24/03/2007	Laba	Lab	2	99	0	0	9 999
6	24/03/2007	Nombre de labes	Nb lab	3	99	0	0	9 999
7	24/03/2007	Densité	Dt	4	99	0	0	9 999
12	24/03/2007	Colorimétrie	Col P	5	99	0	0	9 999
20 011	24/03/2007	Temps de Remplissage	Tem P	6	99	0	0	9 999
13	24/03/2007	Longueur	Long P	7	99	0	0	9 999
14	24/03/2007	Volume	Vol P	8	99	0	0	9 999
15	24/03/2007	Production	Prod	9	99	0	0	9 999
20 017	24/03/2007	Hauteur	Ht	10	99	0	0	9 999
1	24/03/2007	Etats acid	Et. Ac	11	99	0	0	9 999

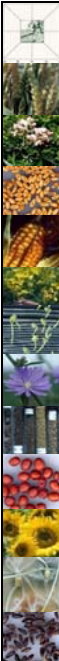


Main functionalities

✓ What kind of characteristic parameter setting is managed by the application?

Rules which control the access in notation for a « Associated » characteristic

If the type of "Master" characteristic is...	And its data is ...	Then its "Associated" characteristic...
Day of month	NULL	Cannot be noted.
Day of month	Noted	Can be noted.
Criteria	NULL	Cannot be noted.
Criteria	Noted	Can be noted.
Condition	Upper the reference value	Cannot be noted.
Condition	Lower the reference value	Can be noted.



Main functionalities

✓ What type of input screen are provided by the software ?

There are two different modes which are provided by the software :

- **Plant to plant mode** → Provide a sequential view of plots
- **Design mode** → Provide a spatial view of plots

Main functionalities

✓ What type of input screen are provided by the software ?

Plant to plant mode

Main functionalities

✓ What types of input screen are provided by the software ?

Design mode

Main functionalities

✓ What types of input screen are provided by the software ?



Main functionalities

✓ What types of input screen are provided by the software ?

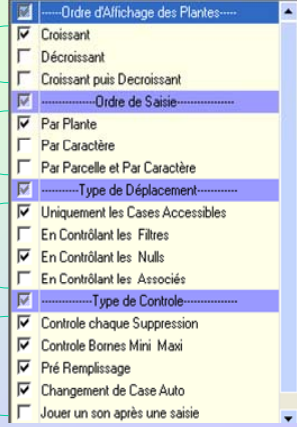


Main functionalities

✓ What types of input screen are provided by the software ?

Control panel which manage

- The display order of plant
- The input order
- The moving type
- Several other controls



The screenshot shows a menu with the following options:

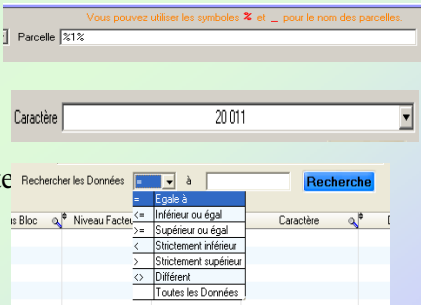
- Ordre d'Affichage des Plantes---
- Croissant
- Décroissant
- Croissant puis Decroissant
- Ordre de Saisie-----
- Par Plante
- Par Caractère
- Par Parcelle et Par Caractère
- Type de Déplacement-----
- Uniquement les Cases Accessibles
- En Contrôlant les Filtres
- En Contrôlant les Nulls
- En Contrôlant les Associés
- Type de Contrôle-----
- Contrôle chaque Suppression
- Contrôle Bornes Mini Maxi
- Pré Remplissage
- Changement de Case Auto
- Jouer un son après une saisie

Main functionalities

✓ How to search data with Sirius application ?

For each trial you can define several filters on :

- Name of Plot
- Characteristics
- Expression of Note

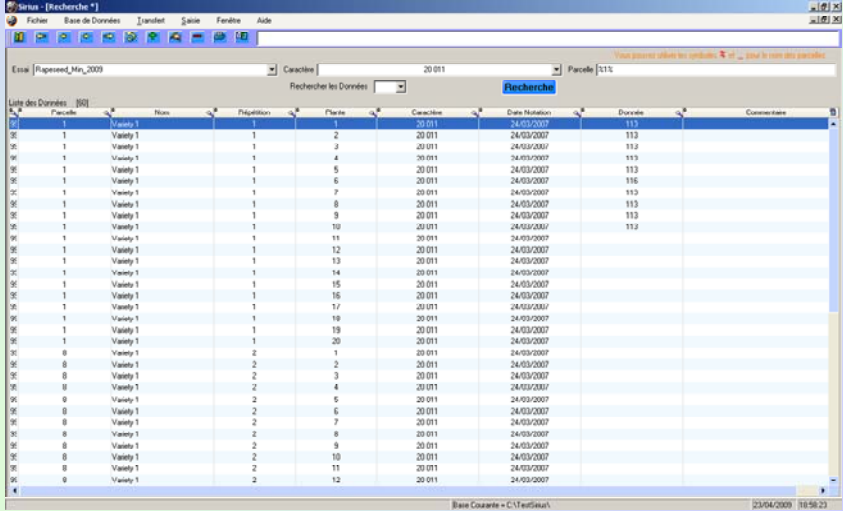


The screenshot shows the search interface with the following elements:

- A text input field labeled "Parcelle" with the value "313".
- A dropdown menu labeled "Caractère" with the value "20 011".
- A "Recherche" button.
- A dropdown menu for "Rechercher les Données" with a list of options: "Égale à", "Inférieur ou égal", "Supérieur ou égal", "Strictement inférieur", "Strictement supérieur", "Différent", and "Toutes les Données".

Main functionalities

✓ How to search data with Sirius application ?

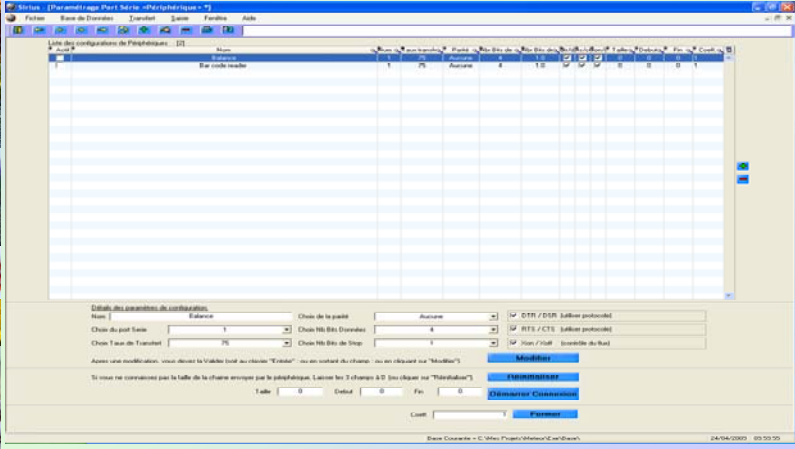


The screenshot shows the 'Recherche' window in the Sirius application. The window title is 'Sirius - [Recherche *]'. The menu bar includes 'Fichier', 'Base de Données', 'Consult', 'Ajout', 'Fenêtre', and 'Aide'. The main area displays a table with the following columns: 'Parcelle', 'Nom', 'Pépétition', 'Plante', 'Cwechite', 'Date Naitance', 'Duree', and 'Commentaire'. The table contains 20 rows of data, all with 'Variety 1' in the 'Nom' column. The 'Parcelle' column has values 1, 8, and 9. The 'Pépétition' column has values 1, 2, and 2. The 'Plante' column has values 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20. The 'Cwechite' column has values 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011, 20 011. The 'Date Naitance' column has values 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007, 24/03/2007. The 'Duree' column has values 113, 113, 113, 116, 113, 113, 113, 113, 113, 113, 113, 113, 113, 113, 113, 113, 113, 113, 113, 113. The status bar at the bottom indicates 'Base Coarante - C:\Vestibul\'. The date and time are 23/04/2009 10:58:23.

Main functionalities

✓ How to connect a device with Sirius ?

Screenshot showing the window where you can define your devices (Ex: Balance, Bar code reader)



The screenshot shows the 'Paramétrage Port Série - Métrichérique *' window in the Sirius application. The window title is 'Sirius - [Paramétrage Port Série - Métrichérique *]'. The menu bar includes 'Fichier', 'Base de Données', 'Consult', 'Ajout', 'Fenêtre', and 'Aide'. The main area is a large empty grid. At the bottom, there are configuration options for the serial port. The 'Nom' field is 'Balance'. The 'Choix de la port' dropdown is 'Aucun'. The 'Choix de Bauds' dropdown is '4'. The 'Choix de Parité' dropdown is 'Aucun'. The 'Choix de Stop Bits' dropdown is '1'. There are checkboxes for 'CTS / DSR', 'RTS / CTS', and 'Xon / Xoff'. The status bar at the bottom indicates 'Base Coarante - C:\Mes Projets\Métrichérique\'. The date and time are 24/04/2009 05:50:50.

Main functionalities

✓ How to manage sirius database ?
You can create, switch, save and restore the sirius database

Index	Nom technique	Description	N° de Catalog	Nom Répertoire	Répertoire
11	MET01_ESLAN	MET01_ESLAN	11	MET01_ESLAN	C:\Vhapiemad_2009
12	MET01_CAPA_ESLAN	MET01_CAPA_ESLAN	12	MET01_CAPA_ESLAN	C:\Vhapiemad_2009
13	MET01_PANNEAU_VIK_A_3mm	MET01_PANNEAU_VIK_A_3mm	13	MET01_PANNEAU_VIK_A_3mm	C:\Vhapiemad_2009
14	MET01A_DONNANT	MET01A_DONNANT	14	MET01A_DONNANT	C:\Vhapiemad_2009
15	MET01A_REPE_TITON	MET01A_REPE_TITON	15	MET01A_REPE_TITON	C:\Vhapiemad_2009
16	MET01A_PENINHE_PAGUE	MET01A_PENINHE_PAGUE	16	MET01A_PENINHE_PAGUE	C:\Vhapiemad_2009
17	MET01P_CAPA_MITTE_FID	MET01P_CAPA_MITTE_FID	17	MET01P_CAPA_MITTE_FID	C:\Vhapiemad_2009
18	MET01A_FAVORIS	MET01A_FAVORIS	18	MET01A_FAVORIS	C:\Vhapiemad_2009
19	MET01A_FAVORIS_DESIC	MET01A_FAVORIS_DESIC	19	MET01A_FAVORIS_DESIC	C:\Vhapiemad_2009
20	MET01A_FAVORIS_CADIV	MET01A_FAVORIS_CADIV	20	MET01A_FAVORIS_CADIV	C:\Vhapiemad_2009
21	MET01D0N_KVTE_CARGIC	MET01D0N_KVTE_CARGIC	21	MET01D0N_KVTE_CARGIC	C:\Users\Francois\Documents
22	MET01D0N_KVTE_CHEMISEMENT	MET01D0N_KVTE_CHEMISEMENT	22	MET01D0N_KVTE_CHEMISEMENT	C:\Users\Francois\Documents
23	MET01STD_VARGLEB	MET01STD_VARGLEB	23	MET01STD_VARGLEB	C:\Users\Francois\Documents

Thank you for your attention