File Format of User.dat SUMMARY: THE DOCUMENT IS PERTAINING TO THE FORMAT OF USER RIGHTS CONFIGURATION.

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Last update: 19/01/2010

UPDATES

Révision	Rédacteur	Action	Relecture	Date	Diffusion
1.0	Anonym	Created in French		04/23/1999	
2.0	JCM	Rewriten in English and updated	21CRF11 & WebVue	03/21/2007	
2.1	JCW	Updated	Visualization & Maintenance levels	05/07/2009	
2.2	JS			05/12/2009	
2.3	JCM	Updated	User info with E-mail & SMS	19/01/2010	

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The types of entry known in USER.DAT are as follows:

USER	User with the classic & advanced options
USERPWD (OLDPWD)	Used passwords
PROFILE	Profile
USERPROFILE	Association of a profile with a user
STATION	Association of a station with a user for a given profile
MENU	Menus associated with a profile
PROGRAMS	Login / logout programmes
WEBVUE	WebVue parameters
ADMIN	Administration of a user by 21 CFR 11

	USER ENTRY								
No	Description	Т	Size (bytes)	Value					
1	Entry type header	С	4	USER					
2	The name/identifier of a user account.	С	40						
3	The account password.	С	16						
4	The account description.	С	255						
5	The user account login time. It is set at his creation time associated with a profile or the begin time of his new password lifespan.	N	2						
6	The states of an account in order to strictly control a user	N	2	Its value can be one of the following values: -3: Deactivated by an administrator -2: User account name not existing. Is considered as a clandestine user -1: Deleted logically 0: Existing normally 1: New Creation and needs to change the password at the 1st time logon, reactivated, or unlocked by Administrator's					

				intervention after 3 times of failures in login attempts.
7	The account owner's last name - the user's surname	С	12	
8	The account owner's first name - the user's forename.	С	12	
9	The account owner's role - a description of the user's function	С	12	
10	The times of failures in login attempts	N	2	
11	The password must be changed to the next authentication	В	1	0/1
12	The user account type.	N	4	Its value can be one of the following values: 0: the user account is created with the SCADA 1: the user account is a user of windows domain
13	The e-mail address	С	100	
14	The mobile phone number	С	100	
15	The fax number	С	100	Reserved

	USERPWD ENTRY							
No	Description	Т	Size (bytes)	Value				
1	Entry type header	С	7	USERPWD				
2	User account name	С	40					
3	The number of passwords used.	N	2	Max = 32				
4	The 1 st password was used.	С	16					
		С	16					
N+3	The N th password was used.	С	16					

	OLDPWD ENTRY (obsolete)							
No	Description	Т	Size (bytes)	Value				
1	Entry type header	С	7	OLDPWD				
2	The number of passwords used.	N	2	Max = 1024				
3	The 1 st password was used.	С	16					
		С	16					
N+2	The N th password was used.	С	16					

	PROFILE ENTRY						
No	Description	Т	Size (bytes)	Value			
1	Entry type header	С	7	PROFILE			
2	The name/identifier of a profile.	С	12				
3	Access rights	N	4	Rights access			
				(bit 0) = $0x01$			
				Command and acknowledgement			
				(bit 1) = $0x02$			
				Window and layer access			
				(bit 2) = $0x04$			
				Exit			
				(bit 3) = $0x08$			
				Help			
				(bit 4) = $0x10$			
				Windows and configuration development			
				(bit 5) = $0x20$			
				Preferences			
				(bit 6) = $0x40$			
				Access to rights configuration			

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	(bit 7) = 0x80
	Desktop
	(bit 8) = $0x100$
	Recipe
	(bit 9) = 0x200
	Save time table
	(bit 10) = $0x400$
	Exceptions time table
	(bit 11) = $0x800$
	Standard time table
	(bit 12) = $0x1000$
	Zoom
	(bit 13) = $0x2000$
	Administration
	(bit 14) = $0x4000$
	WebVue
	(bit 15) = $0x8000$
	Cryptography
	(bit 16) = $0x10000$

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4	Command access level	N	4	Level 0 (bit 0)
				Level 1 (bit 1)
	To change the value of the variable at run time the user must have the corresponding command level. A command access level is from 0 to 29.			 Level 29 (bit 29)
5	Window access level	Ν	4	Level 0 (bit 0)
				Level 1 (bit 1)
	When each window is			
	created, it may be given an access level between 0 and 29. To open a window a user must have the corresponding window access level.			Level 29 (bit 29)
6	Alarm acknowledgement	N	4	Level 0 (bit 0)
	level			Level 1 (bit 1)
	When an alarm is defined,			
	it is given a level from 0 to 29. To acknowledge an alarm the user must have the corresponding alarm acknowledgement level.			Level 29 (bit 29)
7	Recipe	N	4	(None=0x7000000)
				Manager
	The recipe rights determine the Users			(Bit 0) = $0x01$
	ability to create, modify			Save
	and save recipes created using the recipe system.			(Bit 1) = $0x02$

				Creation (Bit 2) = 0x04 List modification (Bit 3) = 0x08 Real time (Bit 4) = 0x10
				Access (Bit 5) = 0x20 Delete (Bit 6) = 0x40 Value modification (Bit 7) = 0x80 Send (Bit 8) = 0x100
8	Mimic display layer A mimic can be designed in multiple display layers from Layer 0 to Layer 15. These determine which of the mimic display layers a user is able to see.	N	4	Layer 0 (bit 0) Layer 1 (bit 1) Layer 15 (bit 15)
9	Initial window Selection of a window that opens automatically when a user logs in.	С	255	

		1 1		,
10	Initial branch	С	40	
	Selection of a branch when a user logs in.			
11	Administration for the login box and the rights	Ν	4	Modify Date And Time
	configuration			(Bit 0) = $0x01$
				Modify Password
				(Bit 1) = $0x02$
				Create And Modify Users
				(Bit 2) = $0x04$
				Delete Users And Associations
				(Bit 3) = $0x08$
				Associate Station To User Profile
				(Bit 4) = $0x10$
				Create Profiles
				(Bit 5) = $0x20$
				Delete Profiles
				(Bit 6) = $0x40$
				Automatic Logoff
				(Bit 7) = 0x80
				Password Lifespan
				(Bit 8) = $0x100$

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12	Alarm masking level	N	4	Level 0 (bit 0)
	When an alarm is defined, it is given a level from 0 to 29. To mask an alarm the user must have the			Level 1 (bit 1)
	corresponding alarm masking level.			Level 29 (bit 29)
13	Authorization to access to WebVue	N	4	Allow to access
	vvebvue			(bit 0) = $0x01$
14	The profile description	С	80	
15				
16	The profile role	С	20	
17	Visualization level	N	4	Level 0 (bit 0)
	To see the value of the variable at run time the			Level 1 (bit 1)
	user must have the			
	corresponding visualization level. A visualization level is from 0 to 29.			Level 29 (bit 29)
18	Use alarm	N	2	Yes = 1
	acknowledgement level rights as alarm masking level rights			No = 0
19		N	2	Yes = 1
	acknowledgement level rights as alarm			No = 0

	maintenance level rights			
20	Alarm maintenance level When an alarm is defined, it is given a level from 0 to 29. To do maintenance on an alarm the user must have the corresponding alarm maintenance level.	N	4	Level 0 (bit 0) Level 1 (bit 1) Level 29 (bit 29)

USERPROFILE ENTRY						
N	Description	Т	Size	Value		
0			(bytes)			
1	Entry type header	С	11	USER		
				PROFILE		
2	User account name	С	40			
3	Profile name	С	40			
4	Association of profile with all the stations	В	1			

	ADMIN ENTRY					
N o	Description	Т	Size (bytes)	Value		
1	Entry type header	С	5	ADMIN		
2	Profile level Specifies the profile level for administering a hierarchical organization.	N	2	0 – 9 The level 0 is for the super-users.		
3	Password lifespan Specifies the life span for a password to be expired.	N	2	1 – 30 days, 2 – 12 months		
4	Logoff timeout Specifies the timeout for the automatic logoff when the account is inactive.	N	2			

	WEBVUE ENTRY					
N o	Description	Т	Size (byte s)	Value		
1	Entry type header	С	6	WEBVUE		
2	Initial window Selects the name of the mimic that is to be displayed when the user connects to the Supervisor	С	255			
	using WebVue.					

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3	Initial branch	С	40	
	Selects the branch for the above mimic.			
4	Project language	N	2	-1 = Default,
	Specifies the language in which			0 = English,
	the WebVue Menu and tools will appear for a user's session.			1 = French.
5	Presentation language	N	2	-1 = Default,
	Specifies the language in which			0 = English,
	the WebVue mimics will appear for a user's session.			1 = French,
				2 = German,
				3 = Italian,
				4 = Spanish,
				5 = Russian,
				6 = Chinese.
6	Automatic login	N	2	0/1
	Allows a User to start WebVue and connect to the Supervisor without having to enter a user name and password, i.e. no dialog box.			
7	Alarm beeper	N	2	0/1
	If ticked, WebVue will give an audible indication each time that there is an alarm transition to On - Not Acknowledged in an Alarm Display.			

8	Alarm Filter	С	512	
	Is used to enter an SQL like expression to filter the contents of the Alarm Displays for a particular user.			
9	Log Filter	С	512	
	Is used to enter an SQL like expression to filter the contents of the Log Displays for a particular user.			
10	Multimedia Web	N	2	0/1
	Allow use of scada verb Beep			

	STATION ENTRY						
N o	Description	Т	Size (bytes)	Value			
1	Entry type header	С	7	STATION			
2	User account name	С	40				
3	Profile name	С	40				
4	Station list name	С	40				
5	Station type	N	2				

	MENU ENTRY					
N o	Description	Т	Size (bytes)	Value		
1	Entry type header	С	4	MENU		

2	User account name	С	40	
3	Initial window	С	255	
4	Initial branch	С	40	
5	Label in language 1	С	40	
6	Label in language 2	С	40	
7	Menu number	N	2	1 to 10

	PROGRAMS ENTRY						
N o	Description	Т	Size (bytes)	Value			
1	Entry type header	С	8	PROGRAM S			
1	Login program name	С	26				
2	Login branch name	С	40				
3	Login function name	С	30				
4	Login function arguments	С	255				
5	Logout program name	С	26				
6	Logout branch name	С	40				
7	Logout function name	С	30				
8	Logout function arguments	С	255				

The associations of a profile with a user USERPROFILE and a station with a user STATION must appear after the related user entries and the related profile entries in the USER.DAT file. If not, they won't be taken into account.

There are 2 residual access rights entries which are automatically created at the startup of a new project. They are as follows:

The **DEFPROFILE** entries:

The **DEFUSER** entries:

USER, DEFUSER, ,, 0, 0, ,, ,, 0, 0, 0, ,, USERPROFILE, DEFUSER, DEFPROFILE, 1