Innovatint version 3 Workgroup Server

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1. Left side menu

From this menu the desired operation page can be chosen:



- 1. User management: in this view user access rights can be defined.
- 2. Main view: In this view general view of replication system and site statuses can be checked. Also sites can be shown in map here if WGS has access to google maps.
- 3. Site management: In this section sites are managed.
- **4. Application:** This section allows user to manage installed databases, change application specific settings, check for updates and handle program activation.
- 5. Server settings: This section allows user to manage replication settings, view log files, Enable email error reporting, set backup settings and do a recovery from a backup.



2. Main view

In this main view user should get an overview of replication status. Also map of the sites is displayed if network access for WGS is allowed and also if the coordinates are saved into the database.



- 1. Enable dragging: This allows user to drag the sites in the map into correct locations.
- 2. List of sites: Allows user to focus the map on any of the sites making it easier to drag them into correct positions.

Icon explanations:

- • Site is delayed. For some reason site is receiving and sending changes, but it's behind in replication
- J Site has not replicated. Check site details for further explanations. also means generally some issue please check.
- Site is paused so no replication messages are received or send for that site.
- Site is working correctly



3. Site management

	-						
Logged in as:	🖌 🔄 Refresh	Filter b	y site name.		Re-ex	port site(s) 🛛 🙀	Create site
dba	5 re name	Site id	Replication type	Zone / Group	Last send	Last received	Schedule
ser management	▶ // Site4	4	Shop	Lone / Group	22.8.2016 13:44:17		Continuous
	II Site3	3					
Main since	Site2	2	Shop		22.8.2016 13:48:26	2.8.2016 2:47:18	Continuous
main view	▷ Site1	1	Shop		22.8.2016 13:44:16	22.8.2016 13:44:57	Continuous
ite management							
_							
Application							
Application							
Application							

- 1. **Refresh:** Reloads the data in the view.
- 2. Re-exports site(s): Allows user to re-export one or multiple selected sites from the sites tree (5)
- 3. Create site(s): Allows user to create complete new sites into replication system.
- **4.** Filters the sites tree (5) based on typed filter.
- **5. Sites tree:** Lists all the sites defined into this database. Selecting one site gives detailed information about the site



3.1 Detailed info about selected site

dba	Kefresh	name:			The rest	xport site(s)	N Create site(
	Site name	Site id	Replication type	Zone / Group	Last send	Last received	Schedule
ser management	🖻 👂 Site4	4	Shop		22.8.2016 13:44:17	7	Continuous
	II Site3	3					
Main view	Site2	2	Shop		22.8.2016 13:48:26	5 2.8.2016 2:47:18	Continuous
	▷ Site1	1	Shop		22.8.2016 13:44:16	5 22.8.2016 13:44:	57 Continuous
ite management							
	<						
	Site details:						
	Contact deta	ils Renli	cation settings Renlic	ation info		\frown	
	Contact deta	ils Repli	cation settings Replic	ation info	(1	
	Contact deta Site name:	ils Repli	cation settings Replic	ation info		1 📑 Sa	ave changes
	Contact deta Site name: Site descriptio	ils Repli	cation settings Replic	ation info		1	ave changes
	Contact deta Site name: Site descriptio	ils Repli	cation settings Replic	ation info	(1 Sa	ave changes
	Contact deta Site name: Site descriptio Company nam	ils Repli ite2 pr	cation settings Replic	ation info	(1 Sa	ave changes Remove site
	Contact deta Site name: Site descriptic Company nar Phone numbe	ils Repli	cation settings Replic	ation info	(1 S	ave changes Remove site
	Contact deta Site name: Site descriptio Company nar Phone numbe	ils Repli	cation settings Replic	ation info			ave changes Remove site
	Contact deta Site name: Site descripti Company nar Phone numbe Email:	ils Repli	cation settings Replic	ation info			ave changes Remove site
	Contact deta Site name: Site descriptiv Company nar Phone numbe Email: Website:	ils Repli	cation settings Replic	ation info		1 S	ave changes Remove site
	Contact deta Site name: Site descriptio Company nar Phone numbe Email: Website: Address:	ils Repli	cation settings Replic	ation info		1 S S	ave changes Remove site use replication
Application	Contact deta Site name: Site descriptio Company nar Phone numbe Email: Website: Address:	ils Repli	cation settings Replic	ation info			ave changes Remove site use replication
Application	Contact deta Site name: Site descriptio Company nar Phone numbe Email: Website: Address: Address 2nd	lis Repli	cation settings Replic	cation info			ave changes temove site use replication
Application	Contact deta Site name: Site descriptio Company nar Phone numbe Email: Website: Address: Address 2nd Zip code:	ils Repli	cation settings Replic	cation info		1 S S S S S S S S S S S S S S S S S S S	ave changes temove site use replication

1. Save changes: Will be enabled when something is changed and saving is required for change to take place

5. Remove site: Removes the site entirely from the database.

8. Pause replication: Pauses replication for this site. Pausing means that messages for this site are not recieved or send.

12. Full sync of master data: This will resend all the formulas etc information related to them (products, product images, colors, color cards, color names etc..) to the site. Operation happens during next replication loop and it will take some time also from the site to apply the changes. When to use this instead of re-export see manual section **3.4 re-export site(s)**.

Note: There will be a cap in shop side when no formulas can be fetched from the database.

Rest of the fields ()is for displaying and changing the site information.



3.2 Replication settings

uba	Cite and	Cite 14	Dealization true	7	Last sead	Look service d	مار المحادي
er management	Site name	Site id	Replication type	Zone / Group	Last send	Last received	Schedule
	🛛 🕨 🖉 Site4	4	Shop		22.8.2016 13:44:17	1	Continuous
	II Site3	3					
Main view	Site2	2	Shop		22.8.2016 13:48:26	2.8.2016 2:47:18	Continuous
	▷ Site1	1	Shop		22.8.2016 13:44:16	22.8.2016 13:44:57	Continuous
te management							
	<			-			
	Site details:						
	Contact dat	aile Repli	antion antitional Dealta				
	Contact det	una recpii	cauon securigs Replic	ation info			
	Contact det			ation info		Save	changes
	Contact det			Continuous reolicatio	20	Save Save	danges
	Contact der			o Continuous replicatio	n	Save	: changes
	Contact der			 Continuous replicatio Run every hour 	'n	Save	changes nove site
	Replication	nterval:) Continuous replication Run every hour Daily	'n	Save	changes nove site
	Replication i	nterval:) Continuous replicatio Run every hour Daily	n	Save	changes
	Replication i	nterval:		 Continuous replicatio Run every hour Daily Weekly 	n	Save	changes nove site
	Replication i	nterval:		Continuous replicatio Run every hour Daily Weekly Every month (not re	on commended)	Save	changes iove site replication
Application	Replication i	nterval:		 Continuous replicatio Run every hour Daily Weekly Every month (not replication) 	on commended)	Save	changes
Application	Replication i	nterval:		 Continuous replicatio Run every hour Daily Weekly Every month (not response) 	on commended)	Save	changes
Application	Replication i	nterval:	Caudin seturings Replic	 Continuous replicatio Run every hour Daily Weekly Every month (not replication) 	on commended)	Ell sync c	changes nove site replication

- **1. Continuous replication:** In this replication setting site will check new messages once per 2 minutes.
- 2. Run every hour: In this replication setting the site will check new messages once per hour
- 3. Daily: In this replication checks the messages once per day.
- 4. Weekly: In this replication checks the messages once per week.
- 5. Every month: In this replication checks the messages once per mont. This option is not recommendable as this will cause huge number of messages for this to pile up in the FTP server and also if some change is needed it will take a month before it's visible on shop.



3.3 Creating new site



Start site creation by clicking "create site(s)" on site management.

- 1. Site tables: Here all the sites which are supposed to be created are listed. Columns explanation:
 - **a.** Sitename: Name which will be used for the site
 - **b.** Database name: name of the database which the site installation package will create. Note: in one computer the names has to be unique!
 - **c.** Replication type: This one defines if the site is going to be a LAB site (full database) or POS (limited database). Tip: in local area network LAB sites are not needed as LAB can connect directly into network database. (see section user management)
 - **d.** Zone: This defines in POS replication what data will be available on the shop. (See LAB manual how to setup zones)
 - **e.** Sales data sharing: This defines how the data is shared between the sites. There are three different options in here.
 - i. <no data sharing> which means that sales data is replicated only from shop back to the consolidated database and not in anywhere else

- **ii.** <no sale data replication> which means that no sales data is replicated back from the site
- **iii.** Group which shares the same data (groups can be added by pressing (5) add replication group). Sites with in this group should have the same sales data available for all of them. Use case for this is that customer could go into shop and get a can of paint and in next day go into different shop and see the order from first shop.
- 2. Add row: This adds new site definition row.
- **3. Remove row:** removes selected row.
- **4. Zone groups:** Allows definition of multiple zones which should be available on site. (advanced feature)
- 5. Add replication group: Adds a replication group for sale data sharing between the sites.
- 6-10. Replication interval. See previous page for details
- **11.** If custom FTP server address should be used or not. Use this for cases when different address of the FTP server is needed for site to be able to connect into it.
- **12.** FTP server address
- 13. Cancel: Cancels the process
- **14. Start:** Starts the site exportation.

NOTE: Site installation packages are for one time use only. So site can only be installed once from the installation package. If by some reason second installation is tried please refer section 3.4 Reexporting sites.

3.4 Re-export site(s)

Re-exporting the sites is no different that creating a new site. See previous section for how to do it. Reexportation of the site might be needed in following cases:

- 1. Site database has been badly corrupted and is out of sync
- 2. Site is installed into wrong computer and new site installation package is needed

Full sync of master data can be used instead of re-exporting when replication is working, but something is not correct on shop side, missing formulas, products or colors even though when replication claims to be up to date. The main difference between re-exportation and "full sync of master data" is that re-exportation will also contain a copy of the sales data and of course re-export package needs to be manually installed into the site as the full sync package goes over the replication automatically.

Example cases when to use full sync:

- Replication is otherwise fine, just some problem with missing data.
- Replication is delayed because of some issue with syncing, but the messages are send and received

Example cases when to use re-export:

- Replication is not working at all
- Site computer has failed and new computer is set to replace it.

• Zone or replication group of the site is changed.

Tip: Multiple rows can be selected from site management site tree for extraction at once. This speeds up the site export process if the sites are on same zone.

4. Application

4.1 Database management

In this section user is able to manage existing database in the database server.

Logged in as:	Database management	Application settings Activation	
dba			
User management			
Main view	(1 tabases:	
		colorant modified	Connect with WGS
		colorant_old	
Site management		colorant_old2	
		colorant_old22	\frown
		colorant old23	
		demodb	Contraction of the second
		demosite 1	Create desktop shortcut
		master	
		reptestlab	
		reptestshop	\frown
		simple	
		teknos	
		teknos3	📉 💑 Optimize database
		tikkurila	
		unikalo	
		unikalobak	\frown
		walmart	
		walmartstore0001	3
		walmartstore0013	🔰 Add database
		walmartstore0017	
		walmartstore0020	
		walmartstore0026	
		walmartstore0034	
		walmartstore0039	6
		walmartstore0042	🤜 Drop database
Application		walmartetore0048	
Server settings			

- 1. List of database on the server
- 2. Connect to selected database
- 3. Create desktop shortcut. This shortcut also includes username and password so simply clicking on it will allow user to access the database.
- 4. Runs MariaDB database optimization procedure. See MariaDB optimization for more detailed information.
- 5. Add database: Adds new database into server
- 6. Drop database: Removes database from the server.

4.2 Application settings

In this section user is able check database updates and change update checking options.

Logged in as:	Database management Application settings Activation
dDa User management	1 plication lates
Main view	Update 3
Site management	File size Download \wuser\temp & watint - WGS Software is up to date! Development
	Check updates
Application	
Аррисаціон	
Server settings	

- 1. Automatically check software updates during startup: When this is checked WGS tries to connect update server during program startup to check updates
- **2.** Update group: This is group which limits the updates by default left empty to get the latest version of WGS.
- **3.** New version: If update has been found from the server new version number will be displayed here.
- 4. Installation file: Update installation file name will be displayed here.
- 5. File size: Size of the installation file will be visible here
- 6. **Download path:** This is the path on local computer where the installation file will be downloaded.
- 7. Tool button: Allows user to select the download path.
- 8. Current versions: Shows current version of the program in use.
- 9. Check updates: Checks updates from the update server on request.
- **10. Reset:** Resets the changes made
- **11. Save:** Saves the changes made

The changes log is displayed in the text editor when update has been found. If no update is available text *"Software is up to date*!" will be shown here.

4.3 Activation

For activation please check LAB manual.

5. Server settings

In this section all required settings for the server are given. Here you can find the FTP server address settings, logs, email and error reporting as well as backup and recovery sections.

Logged in as:	Replication Logs Email reporting Backup Recover
dba	FTP replication message syste
User management	Host (internal):
Main view	Host (external):
Site management	Password: Root directory: Port: (Default 21)
	Replication service settings: 9 Version number: 96.6 Path to store replication m 10 (wuser/replication\demodb
	Replication schedule
Application Server settings	16 Every month (not recommended) 20 20 20 20 20 20 20 20 20 20 20 20 20 2

5.1 Replication

- Host (Internal): This is the address which the local replication service uses for connecting the ftp server. For address use computer IP or name but preferable use address without protocol definition (ftp://my.server.com → my.server.com)
- **2.** Host (external): This is the address which sites replication services are using for connecting the FTP server. if this is empty the internal address will be used.
- **3. User:** ftp server username
- 4. Password: password for the user
- **5. Root directory:** A directory on the ftp server which should be used for saving the replication messages. NOTE: Directory must exist.
- 7. Port: Port of the FTP server
- **8.** Check FTP connection: Checks and verifies the connection parameters are correct. Also checks that user rights for the user are correct (full permissions into that folder are required).

- 9. Version number: Version number of the replication service
- **10.** Path to store messages: path where replication messages are stored in local computer. For best performance this should be in drive where there is not a lot other processes writing or reading.
- 11. Choose path
- 12 16. Choosing replication schedule for sites.
- 17. Remove replication: This will remove the entire replication system
- **18. Stop service:** This will stop the replication service running on background. NOTE: requires admin rights
- 19. Start service: This will start the replication service. NOTE: requires admin rights
- 20. Apply settings: Saves the changes into replication settings. NOTE: requires admin rights

5.2 Logs

Logged in as:	Replication	Logs	Email reporting	Backup	Recover						
dba		<u> </u>								A - • •	
for management	⊖ Service	Formula	ilas () Sales [Show only	errors Sea	rch:				🐶 Refrest	h
sermanayement	2016 08 22	15:17:46	- demodb formulae	- INEO - #1	******			D#########			
	2010.00.22	15.17.46	- domodb_formulae	INFO **	**********	******** Londi		***********	*******	*****	
	2010.00.22	15.17.46	- demodb_formulas	TNEO **	*********		ng messages	**********	******		
Marin estanti	2010.00.22	15:17:40	- demodb_formulas	TNEO N-		vvriur	ig messages				
main view	2016.08.22	15:17:40	- demodb_formulas	- INFO - NO	need to proc	ess the change	s as nothing i	nas changed			
	2016.08.22	15:18:16	- demodb_formulas	- INFO - #7	*#######	*****		*#########	#####	######	
	2016.08.22	15:18:16	- demodb_formulas	- INFO - **		Loadi	ng messages				
	2016.08.22	15:18:16	- demodb_formulas	- INFO	1.	writer	ig messages*				
ite management	2016.08.22	15:18:16	 demodb_formulas 	- INFO - No	need to proc	ess the change	s as nothing	has changed			
-	2016.08.22	15:18:46	 demodb_formulas 	- INFO - ##	*#######	#########	## NEW LOOP	P########	#####	######	
	2016.08.22	15:18:46	 demodb_formulas 	- INFO - **	*********	Coadi	ng messages	***********	*******		
	2016.08.22	15:18:46	 demodb_formulas 	- INFO - **	*********	******** Writin	ng messages*	**********	******		
	2016.08.22	15:18:46	 demodb_formulas 	- INFO - No	need to proc	ess the change:	s as nothing l	has changed			
	2016.08.22	15:19:16	 demodb_formulas 	- INFO - ##	#######	#########	## NEW LOOP	P########	#####	#####	
	2016.08.22	15:19:16	 demodb_formulas 	- INFO - **	********	********* Loadi	ng messages ¹	**********	*******		
	2016.08.22	15:19:16	 demodb formulas 	- INFO - **	********	******* Writin	g messages*	**********	******		
	2016.08.22	15:19:16	- demodb_formulas	- INFO - No	need to proc	ess the change	s as nothing	has changed			
	2016.08.22	15:19:46	- demodb formulas	- INFO - ##	*#######	######## <u>#</u> #	## NEW LOOF	P#########	#####	######	
	2016.08.22	15:20:47	- demodb formulas	- INFO - **	*********	******** Loadi	ng messages	**********	*******		
	2016.08.22	15:20:47	- demodb formulas	- INFO - **	*********	****** Writin	o messages*	**********	******		
	2016.08.22	15:20:47	- demodb_formulas	- INFO - No	need to proc	ess the change	s as nothing	has changed			
	2016.08.22	15:21:17	- demodb_formulas	- INFO - ##	*****	******	# NEW LOOP	P#########	#####	######	
	2016.08.22	15:21:17	- demodb_formulas	- INFO - **	*********	ibeo ******	ng messages	***********	*******		
	2016 08 22	15:21:17	- demodb_formulas	- INFO - **	********	******* Weitie	ng messanges	**********	******		
	2016.08.22	15.21.17	 demodb_formulas 	- INFO - No	need to prov	ess the change	ig messages is as pothing l	has changed			
	2010.00.22	15.21.17	- demodb_formulas	TNEO ##	meeu to prot	ess die change	+# NEW LOOP	nas changeu			
	2010.00.22	15:21:47	- demodb_formulas	- INFO - ##	*********	********		***********	*******	*****	
	2016.08.22	15:21:47	- demodb_formulas	- INFO - **	*********	Load	ng messages	***********			
	2016.08.22	15:21:47	- demodb_formulas	- INFO - ···	1.1	writer	ig messages*				
	2016.08.22	15:21:47	- demodb_formulas	- INFO - NO	need to proc	ess the change	s as nothing	nas changed			
	2016.08.22	15:22:17	 demodb_formulas 	- INFO - ##	*#######	##########	F# NEW LOOP	P#########	#####	#####	
	2016.08.22	15:22:17	 demodb_formulas 	- INFO - **	**********	Loadi	ng messages	************			
	2016.08.22	15:22:17	 demodb_formulas 	- INFO - **	*********	Writin	ng messages*		*******		
	2016.08.22	15:22:17	 demodb_formulas 	- INFO - No	need to proc	ess the change:	s as nothing	has changed			
	2016.08.22	15:22:47	 demodb_formulas 	- INFO - ##	#######	#########	## NEW LOOP	P########	#####	#####	
	2016.08.22	15:22:47	 demodb_formulas 	- INFO - **	*********	******** Loadi	ng messages ¹	***********	*******		
Application	2016.08.22	15:22:47	 demodb_formulas 	- INFO - **	********	******** Writin	ig messages*	**********	******		
- approx civit	2016.08.22	15:22:47	 demodb_formulas 	- INFO - No	need to proc	ess the change	s as nothing	has changed			
			-				-	-			
Comune cottings	1										
Server settings											

In this section user is able to browse replication log files. (can also be found from c:\wuser\log\replication)

• **Refresh:** Reloads the selected log file from disk into text editor.

5.3 Email reporting

In this section user defines the WGS emailing settings. Monitoring service automatically sends an email

Logged in as:	Replication Logs Email reporting Backup Recover
dba	Monitoring service automatically sends an email when site has not replicated or site inventory items go same or below as the warning level.
User management	Service setup
Main view	SMTP Server: 2 mtp.kolumbus.fi Sender email address etri.luukkonen@gmail.com
Site management	Seciever(s) email ad bluukkor bromafio.com 5 Use ssl Port: 4 5 (Default 25 or 465 for ssl) 5 Use ssl 6 1 1 es 70 1
	Service status: Service started: Service not started Service log file: Service log file:
Application	
Server settings	

when site has not been replicated for a long time or site inventory items go same or below as the warning level set on each item.

- 1. SMTP server: Address of the email server
- 2. Sender email address: Address of mail sender
- 3. Receiver(s) email address: Type in receivers email addresses separated by ;
- 4. SMTP server username: type in server username
- 5. Use sll: Defines if ssl is required by the smtp server
- 6. SMTP server user password
- 7. Send test mail: Send a mail using the saved settings to test them. If you didn't receive the test mail please recheck the settings and check the server log (refresh by pressing (12))
- **9.** SMTP server port
- 10. Save settings: Saves these settings for the service to use
- 11. Start service: Starts monitoring service NOTE: admin rights required
- 12. Refresh log file: Loads the service log file from disk.

5.4 Backup

In this section automatic backup settings can be made. Backup is saved as windows task and it requires admin rights for applying settings.

Logged in as:	Replication Logs Email reporting Backup Recover
User management	Backup enabled
Main view	Backup direct t: \wuser\backup
Site management	Use time machine (Creates a backup hourly for 24 hours and then starts writing over the created backups)
	6 1 6 Hourly starting at 9 1 9 1 9 1 9 1 9 1 11 1 12 1 13 1 15 1 15 1 15 1 16
	Full Backup Now
Application	Apply Settings
Server settings	

- 1. Backup enabled: Enables or disables the backup
- **2. Backup directory:** Select the location of the backup files. Files will be automatically saved under different names to prevent overriding the existing files.
- **3. Tool button:** This allows user to browse and select backup directory
- **4.** Use time machine: This option sets the backup so that it runs once for hour and keeps last 24 backups. After running for 24 hours it will start to override the previous backup files in order to save disk space.
- 5. Override previous backup file: This option changes the backup so that it will only keep one backup file + possible "time machine" backups.
- 6 -14. Are backup interval setups
- **15.** Run on next possible moment: When this option is selected the backup is executed on next possible moment if the originally set backup interval has been missed.

- **16. Last run time:** This shows the last run time of the backup
- **17. Full Backup Now:** By clicking this full backup of the database can be made. Program asks directory where to save the backup file.
- **18. Apply settings:** This saves the changes on backup settings. The settings are saved into database and windows scheduled tasks are created for handling the backup calls. NOTE: Administrator rights are needed for this to work.

Example of automatic file naming: Backup_innovatint_20160812_092032.bak

- Backup_innovatint_20160812_092032.bak: Innovatint here is the database name
- Backup_innovatint_20160812_092032.bak: 20160812 is date (Year, Month, date) 2016-08-12
- Backup_innovatint_20160812_092032.bak: 092032 is time (hour, minute, seconds) 09:20:32

5.5 Recover

In this section user is able to browse the backups and recover items from the backup.

dba												
User management	Backu	up dire	ctory:						C:\wuser\backup		Analyze fold	ler
	e			elokuų	201	6		•	12.8.2016 9:20:32			
Main view		ma	ti	ke	to	pe	la	su				
	30	25	26	27	28	29	30	31				
	31	1	2	3	4	5	6	7				
site management	32	8	9	10	11	12	13	14				
	33	15	16	17	18	19	20	21				
	34	22	23	24	25	26	27	28				
	35	29	30	31	1	2	3	4			Analyse selected backup)
	Item						^		Count	Selected		
	E	Barcod	e actio	ns					5			
	(Can shi	apes						0			
		Can siz	es		-				28	H		
		unarac	terizat	on set	S				1	Н		-1
		Lolor G	ard col	ections	;				2	H		
		Color C	arus						102	H		
		Sormula Formula	105						029	H		
		Vatchir	ua limite						500	Н		
		Matchir	ng setti	inas					2	H		
		MEorm	ilas	ngo					877	Н		
	Þ	Prices							1	H		
	Þ	Product	t collec	tions					1	П		
	F	roduct	t image	s					3	П		
	Þ	Product	t rules	-					2	П		
Application	Þ	Product	ts						2	Π		۰.
									-	-		

NOTE: For replication system it is required to use recovery based on items instead of just replacing the database with backup. Replacing database with backup will cause replication to be out of sync with sites and re-exportation of all the sites is then needed in order to get the replication

6. User management

Logged in as:	er accounts:		2 Se	r access permissions Administrator rights (give	es full access to	o databases)
User management	reader		3 50	ction	Read	Write
				Configuration		
				Colorants	✓	
Main silaw				Cansizes	✓	
riain view				Substrates	~	
				Units	✓	
				Products	~	
Site management				Colour managem	✓	
-				Zones		
			4	Management & Analysis	s	
				Formula manage	✓	
				Color difference	~	
				Pricing	✓	
				Barcodes	~	
				Export and Import	✓	
				Statistics	~	
				Site inventory	✓	
				Dispense queue	~	
				Options		
C	Add Change password	5	• Delete	(
	6 w password		1	les access rights:	8	
Application	9 type new password		10	Read only		

- 1. List of users: Select user which permission you wish to modify.
- 2. Grant administrator rights for selected user
- 3. Tree view of individual permissions on LAB which user has access rights.
- 4. Add user
- 5. delete user
- 6. Password for selected user
- 7. Writing and reading permissions for sales data
- 8. reading permissions for sales data
- 9. Retype password for selected user
- 10. No permissions at all for local database
- **11. Change password:** Changes selected user password.
- 12. Save permission changes.

TIP: It's required to have at least one user defined here if network access to this database is wanted.

7. Best practices / Tips

- LAB site installation packages should be avoided if possible. As Innovatint runs on MariaDB which by default supports network access via TCP/IP protocol it's highly recommended that it's used instead of replication.
- Multiple POS sites on same zone should be exported at once as the data is limited for each site based on zone and this data filtering needs to be done only once for all the sites in the same zone. Performance benefit is significant in larger databases.
- MariaDB uses by default port 3306 which should allow incoming and outgoing TCP/IP connections in order to be able to access the database from remote computers.

8. Common problems

• Not able to check updates:

- Solution: verify that no firewall is blocking the update checking from address: http://my.innovatint.com/update/download/

• Map is not showing on WGS main view:

- Solution: As map is based on google maps WGS has to be able to access the google maps on google servers. The traffic is standard HTTP protocol

• WGS is starting slowly:

- WGS is checking license from license service and that one checks it from my.nalpeiron.com.
- FTP server issues (unable to download or upload files):
 - Please setup the FTP server as any standard FTP server with passive file transfer support. (I think you already have this set up correctly, at least seems to work from the server) For ports port 21 + some defined port range (up to you to choose which one to use.. Some explanation about passive FTP file transfer method: http://slacksite.com/other/ftp.html).

• Network issues on shop:

- service "Innovatint replication" (it_replicate_service.exe) has to be able to connect into the FTP server (port 21 + the defined port range for file transfer)
- C:\wuser\Innovatint\paster-service.exe and it_replicate_service.exe should be able to connect our software update server (<u>http://my.innovatint.com/update/download/</u> port 80)
- All the connections from shop are out going so no need to allow any in coming connections.
- Network issues on WGS:
 - service "Innovatint replication" (it_replicate_service.exe) has to be able to connect into the FTP server (port 21 + the defined port range for file transfer)
 - InnovatintWGS.exe and it_replicate_service.exe should be able to connect our software update server (<u>http://my.innovatint.com/update/download/</u> port 80)

• Network issues on LAB:

 InnovatintLAB.exe should be able to connect our software update server (<u>http://my.innovatint.com/update/download/</u> port 80)