Laplanda



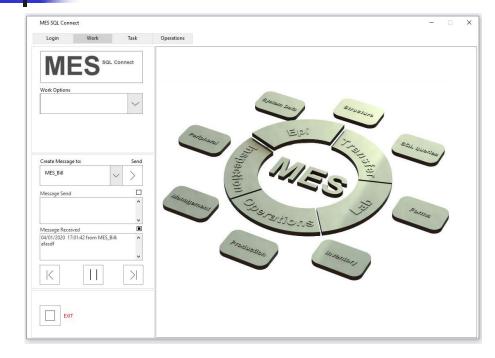
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GUI and Guide of Manufacturing Execution System (MES) with SQL (Structured Query Language) BD (Database) Connectivity

Adds-On







Work: Working Options

Structure •DB Query •Forms •Inventory •Production •Manage •Operations •System Data •SOP

MES SQL Connect						
Login Wo	ork Task	Operations				
		Operations Options		Operations For	Report Operations	Exeqution To
MES	SQL Connect	Operations Adds-On Assign	\sim	MES_Bill	V MES_Bill	\sim
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Work: Working Options: Operations

Operations Options: •Operations Create

- •Operations Create Options
- •Operations Adds-On Assign
- •Operations Adds-On Create or Delete

MES SQL Connec	t			
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Message Send				
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EXIT			Refresh Table Search Table Column to Sort num Rows	Columns Header Color Cells Co

This function allows to Create or Delete the Adds-On application connection upon the Operator operation execution. "Adds-On List" is forming by creating the Adds-On name and the Image (avatar).



MES SQL Connect		
Login Work Task	Operations	
MES SQL Connect	Operations Options Operations Adds-On Create or Delete	
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Operations 🗸	Ambient Fixture Package Tester c	>
	10.0 cons	0 ×
Create Message to: Send MES_Bill	MES ^{ta} torus	
Message Send	Coerations: Add:-On records	FART TEST
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K II X) Served
EXIT	Refresh Table Search Table Column to Sort num Rows Columns Header Color C	ells Color

"Enter Adds-On new record name".

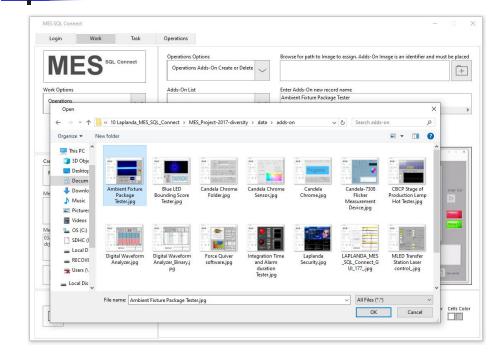
This Name will be a search criteria for the following functions. "Ambient Fixture Package Tester" Adds-On will be created. DIALOG" Operations: Adds-On record": Record exists This record already exists in the Database. OPTIONS: "Update record"; "Ignore this message" "Update record" function.

Continue...

Operations		
Operations Options	Browse for path to Image to assign. Adds-On Image is an identifier a	and must be pla
Operations Adds-On Create or Delete	~	Ē
Adds-On List	Enter Adds-On new record name	
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Refresh Table Search Table Co	olumn to Sort num Rows Columns Heade	er Color Cells (
	Operations Options Operations Adds-On Create or Delete Adds-On List	Operations Options Browse for path to Image to assign. Adds-On Image is an identifier of the state of Delete Adds-On List Enter Adds-On new record name Ambient Tixture Package Tester <

"Browse for path to Image to assign. Adds-On Image is an identifier and must be placed"

Continue...



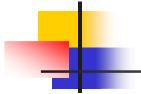
"Browse for path to Image to assign. Adds-On Image is an identifier and must be placed". Browse for avatar Image.

Continue...

Login	Work	Task	Operations	
ME	SSOL	Connect	Operations Options Operations Adds-On Create or Delete	Browse for path to Image to assign. Adds-On Image is an identifier and must be pl C:\Users\Alex Kor\Document\MES_Project-2017-diversity\data\adds-on\ Ambient Fixture Package Tests.jpg
Work Options			Adds-On List	Enter Adds-On new record name
Operations		\sim	~	Ambient Fixture Package Tester
Create Message to: MES_Bill Message Send Message Received 03/30/2020 23:18:25 drjsdrj	From MES_B		tions: Adds-On records > Adds-On record exists Replace record? Cancel	
			Refresh Table Search Table Column	

DIALOG: "Operations: Adds-On record": "Adds-On record exists". OPTIONS: "Replace record?"; "Cancel". Replace record.

Continue...



MES SQL Connect	Operations	
Work Options	Operations Options Operations Adds-On Create or Delete Adds-On List	Enter Adds-On new record name
Create Message to: Send MES_Bill V > Message Send		
Message Received O3/30/2020 23:18:29 from MES_Bilt drjsdrj		
EXIT	Refresh Table Search Table Column	

Record replaced. Operations Adds-On "Create" finished. The order number, Adds-On name and avatar Image is saved in the Database Table "AddsOn" NOTE: The "AddsOn" Table is creating automatically in the instructed Database.

Continue...

	nnect	Operations Options		_	Operations For	_	Report Operation	ns Exeqution To	_
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Operations	\sim	Ambient Fixture Pa	ckage Tester	\sim					Ľ
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Create Message to:	Send	Column	Value						
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		Will be Accepted By							

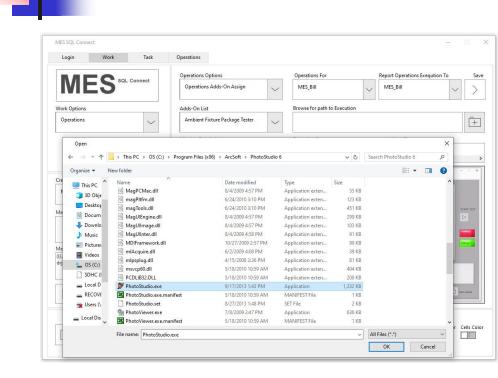
"Operations Adds-On Assign" function is used for assigning and clarification the Adds-On to particular User "Operations For" with report to the particular User "Report Operations Executions To".

Choose Adds-On in the "Adds-On List".

"Ambient Fixture Package Tester" is chosen.

"Database Information and Image size" is showing the current condition of the Adds-On stored in the Database.

Continue...



"Browse for path to Execution" startup application file. "PhotoStudio.exe" file is chosen. OK

Continue...



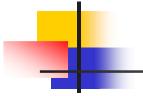
Login Work Task	Operations						
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	Operations Adds-On Assign	~ м	IES_Brian	~ M	ES_Alex	\sim	>
/ork Options	Adds-On List	Brov	vse for path to Execution				
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	Monitor Resolution		ution Startup		NotelD		
	2560 × 1440	V Pho	itoStudio.exe	>	Graphical design of t	ne Project #"	123897
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^	Adds-On Name Ambient Fixtur	re Packag	ya Pessend NES, Suzana	_			
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rjsdrj V	Date Time ID 05/13/2020 14:	45:46	K II X	12.00 7.00 419.00 22.00	15.00 14.00 422.00 23.00		
	Date Time ID 05/13/2020 14: Accepted By MES_Bill	43.40		12.00 7.00 419.00 22.00 255.00 28.00	15.03 14.00 422.03 23.00 258.00 35.00		
	Date Time ID 05/13/2020 14:	43.40	K II X	12.00 7.00 419.00 22.00 255.00 28.00	15.00 14.00 422.00 23.00	1 500	sned

"Execution Startup" field is forming automatically, based on the name of the startup file.

- "NoteID" is a field for note.
- "Operations For": MES_Brian
- "Report Operations Execution To": MES_Alex

"Monitor Resolution": 2560 x 1440 (some applications require the special settings of the Monitor resolution). "Save".

Continue...

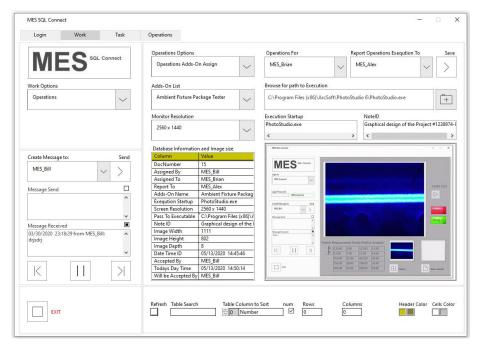


perations Options Operations Adds-On Assign dds-On List Ambient Fixture Package Tester Aonitor Resolution 2560 y 1400	Operations For MES_Brian Browse for path to C1\Program File: Execution Startup	D Execution	port Operations Exeqution To MES_Alex	Sav		
dds-On List Ambient Fixture Package Tester Ionitor Resolution	Browse for path to C:\Program Files	D Execution				
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2300 X 1440	PhotoStudio.exe <	>	Graphical design of the Proje	:t #12389		
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DIALOG: "Operations Adds-On assigned: Ambient Fixture Package Tester OK

Continue...





Operations Adds-On settings was set and assigned. "Database Information and Image size" table is showing the actual data of the saved information.

Now, upon the User "MES_Brian" goes to his Operations, this user will be assigned to use the application "PhotoStudio.exe". This application will be automatically launched.

Any Adds-On application may use an Alarm Shared Variable to transfer data to the particular MES database. The details about Alarm Shared Variables see in "SysData".

Continue...

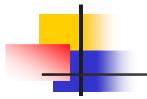


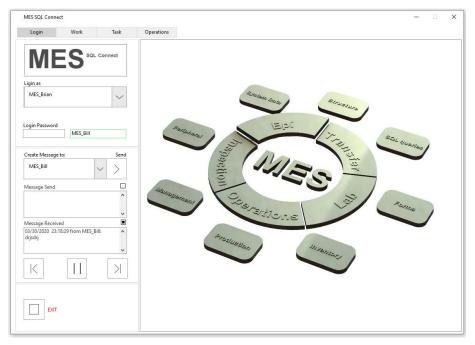
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		Database Information and	I Image size	MIT IQ: Covert		A	- 1 1
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The sample of the assigned Adds-On application in the instructed Database.

"Adds-On List": "Candela Chrome" Adds-on assigned by "MES_Bill" to "MES_John" with report to "MES_Sidney".

Continue...

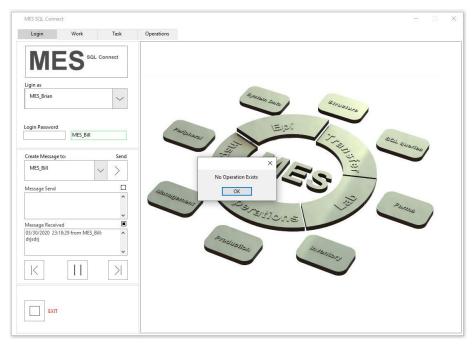




Login: Mes_Brian

Continue...

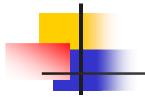


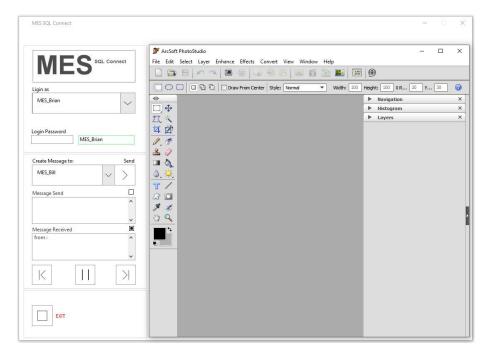


Login: Mes_Brian

DIALOG" No Operation Exists.

Continue...





Login: Mes_Brian

PhotoStudio application launched, as assigned by earlier setup.

Continue...

MES SQL Connect		
Login Work T	c Operations	
	Operations Options Operations Adds-On Create or Delete	
Work Options	Adds-On List	Enter Adds-On new record name
Operations	Wafer Reflectivity Meter	< >>
MES_BIII V	nd Operations: Adds-On record delete X The record "Wafer Reflectivity Meter" will be deleted OK Cancel	
Message Received 03/30/2020 23:18:29 from MES_Bill: drjsdrj	Delete Adds- On List record	Image: Second
EXIT	Refresh Table Search Table Column	

To delete any of the Adds-On from the database records: "Adds-On List": "Wafer Reflectivity Meter" adds-on ready to be deleted. All records connected with this application name will be erased from the database. DIALOG: Operations: Adds-On record delete. The record "Wafer Reflectivity Meter" will be deleted.

OPTIONS: "OK"; "Cancel".