

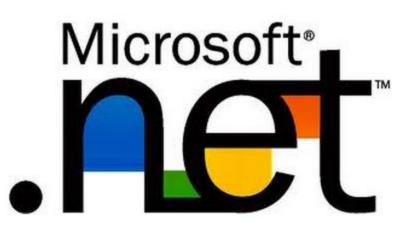
Process Control . Building Automation . SCADA Platform

pbsHMI Specifications

www.pbsControl.com

Basic concepts

- pbsHMI is SCADA/HMI Platform from pbsControl company
- pbsHMI is developed based on Microsoft .Net Technology
- pbsHMI is developed by the most professional component in the market











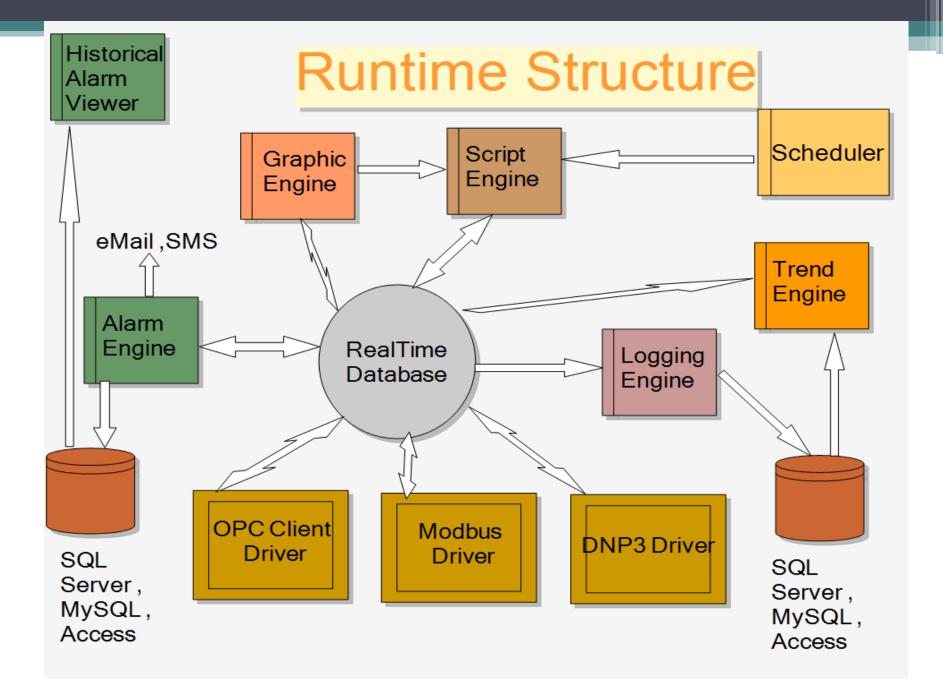


Specifications

- Developed and Tested for 100,000 Physical tags
- Client/Server Architecture
- Distributed Server architecture with built in redundancy
- Object oriented graphics
- OPC Server DA as real time database in heart of runtime system
- OPC UA DA, AE client are supported
- Standard Alarm , Event , trend and logging engine
- OPC UA / DA2.0 Client , Modbus Master TCP/RTU ,DNP3 , IEC870-5-104 , Siemens S7connect client protocols are supported
- C# Scripting Engine with Professional C# Editor
- Reusable , object oriented graphic component
- Different type of Dynamics for graphics components , Blink , Brush , Move , Rotate , Hide , Tool Tip ,...
- Right Click menu is supported for all objects
- Different type of events for graphics components

Specifications

- Rapid Application Development (RAD) with different utilities (Copy Dynamic , Copy Style, Copy Event , Copy page , replace Dynamics and events,...)
- Different type of Scheduling for running scripts (Server Side Only)
- Microsoft SQL Server, MySQL Data logging and trending
- Automatic SMS and Email Alarm notification
- With More than 4000 Built in Industrial symbols
- User Activity logging facility
- Automatic update of Clients Intelligent propagation
- Unified User database in clients and server
- Page zooming , panning and Automatic Declutring at runtime
- multi layer Graphic pages
- Tag Import/Export Facility to excel
- Unified Error handling



Runtime Specifications

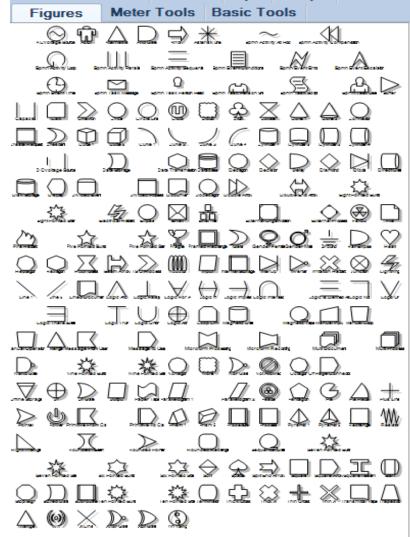
- Running and tested on Windows XP, Windows 7, Windows Server 2008 and Windows Embedded 2009
- No limitation on number of Physical Tags
- No limitation on Number of Internal Tags
- No limitation for graphic pages
- No Limitation on number of objects on a page
- No Limitation on number of alarms
- Communication Channels are running in parallel
- Client/Server functionality is embedded with high performance in real time database of pbsHMIView
- Online Update of Graphic page is supported

Development Environment

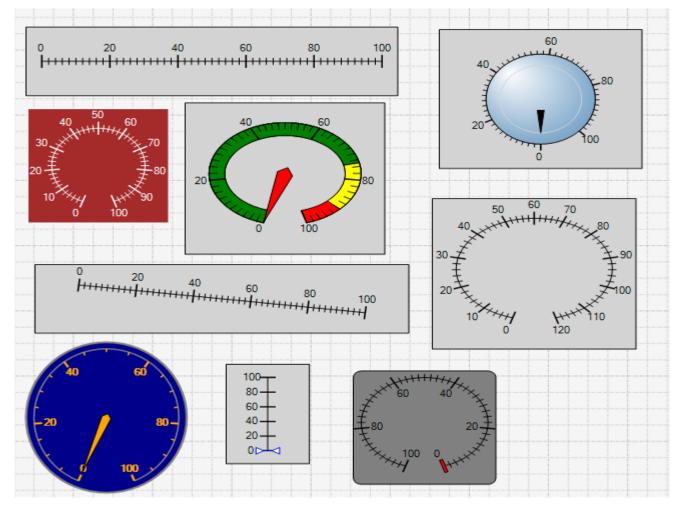
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GLib_Water	•	53.14585	🖃 Channels 🔖 Tags 🔗 D	atabase
			📑 Pages 🖀 Scripts 📲 Sy	mbols
igures Basic Tools GLib_Wat	ter			KDrive1Popu
	^	Burj Khalifa - SCADA		Main.pgp MPumpPopu
Water 0 Water 1 Water 10 Water 100		Critical System Alarm Monitoring		Network.pgp
				NewPage1.p
				NewPage2.p
Vater101 Water102 Water103 Water104				NIGCFlowCF PenPopup.p
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Vater 105 Water 106 Water 107 Water 108		Rood Detection System Water Tank Control Panel	🧀 08-Declutering.pgp 🏼 🎽	PS1.pgp
Vater105 Water106 Water107 Water108		Drisel DDC UPS		Pump_Detai
		Chemical Dosing System Onlidens Pavillion - FKOP		SCADACfg.p SDEOPlant.
Vater109 Water11 Water110 Water111				SFAN_DEO.p
- 🔊 🏯 🕰		the second	🥶 🛃 😹 13-Alarms.pgp 🥪	SimpleCfg.p
🖬 🛄 🗂 🎁				SLD33KV_S1
Water12 Water13 Water14 Water15				SOverview.p SScreens.pg
				SWetWell.pg
Water16 Water17 Water18 Water19				W2.pgp
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Water 2 Water 21 Water 22				WW2.pgp WW3.pgp
Water 2 Water 20 Water 21 Water 22				WW4.pgp
🔬 斗 🗏 Or			🚰 🛛 🍻 AHU_GR_16_01 - 3D.pgp 🏓	WW5.pgp
Water 23 Water 24 Water 25 Water 26			AHU_GR_16_01.pgp	
			■ BurjKhalifah.pgp GlientServerCfg.pgp	
🚚 🔝 ピ 😽			DS191.pgp	
Water 27 Water 28 Water 29 Water 3			FlowPopup.pgp	
			<	

Embedded Graphic Objects

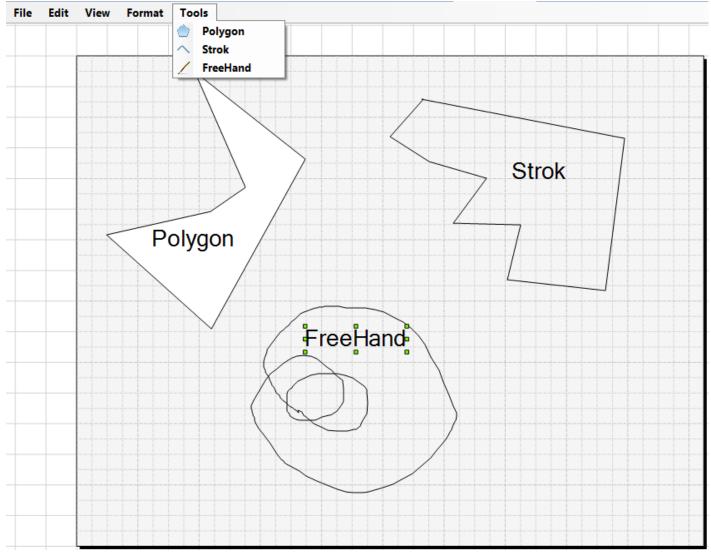
Basic Tools		
Button Dube	Cylinder	Diamond
Ellipse	Hexagon	Image
Octagon Parallelogram	Pie	Réctangle
Text:		Text
Ro Text Round Rectangle	2	Simple Text



Embedded Meter Objects

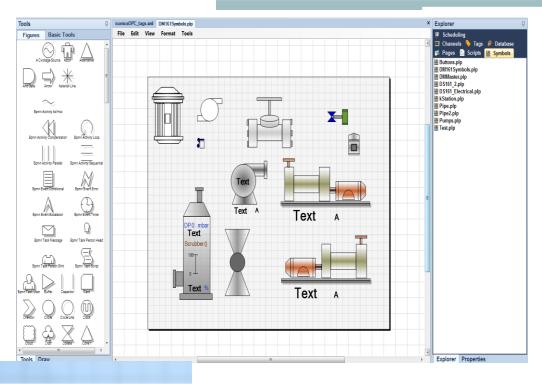


Polygon, Strok and Free hand tools



Symbols

- More than 4000 ready graphic symbols
- User defined Integrated Graphic objects with C# Script
- Reusable in different projects
- High performance operation



🖶 CSharp Function Editor

```
orivate void CyclicProc()
1
2
3
       int TmpSTS1 = int.Parse( GetTag("STS1").ToString());
4
5
       CB Closed = ((TmpSTS1>>0) & 1)==1 ;
6
       CB Opened = ((TmpSTS1>>1) & 1)==1 ;
7
       SS Remote = ((TmpSTS1>>14) & 1)==1 ;
8
       P Trip = ((TmpSTS1>>15) & 1)==1 ;
9
       bool P Alarm1 = ((TmpSTS1>>10) & 1)==1 ;
10
       bool P Alarm2 = ((TmpSTS1>>11) & 1)==1 ;
11
       //bool P Alarm3 = ((TmpSTS1>>12) & 1)==1 ;
       P Alarm = P Alarm1 || P Alarm2 ;
12
13
       P NTrip = !P Trip;
14
15 }
```





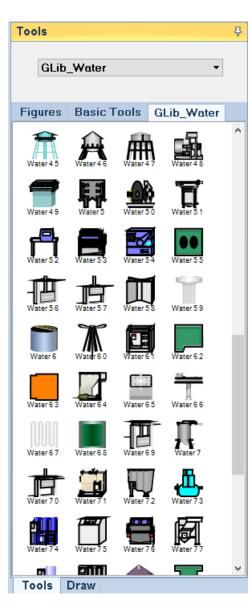








4000 Ready symbols



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valves 34	valves 35	valves 36	valves 37	
valves 3.8	valves 39	valves 4	valves 40	
valves 4 1	valves 42	valves 43	valves 4 4	
valves 4 5	valves 4 6	valves 47	valves 4 8	
valves 4 9	valves 5	valves 50	valves 5 1	
valves 5 2	valves 53	valves 54	valves 5.5	
valves 5 6	valves 57	valves 58	valves 5 9	l
0 valves 6	valves 60	valves 6 1	valves 6.2	
0				¥
Tools	Draw			



Graphics Dynamics

Dynamics	
BlinkDynamic	(Collection)
BrushDynamic	(Collection)
HideDynamic	
LeftDynamic	
RotationDynamic	Gtags.RotationDemo
TopDynamic	

Graphics Events

∃ Event	
pbsEvent	Pulse 🔹
pbsEventPageLoad	Set
pbsEventPopupBaseID	Toggle
pbsEventPopupNewID	Pulse
pbsEventPulseWidth	Script
pbsEventScript	Load
pbsEventSetValue	Popup
pbsEventSignal	

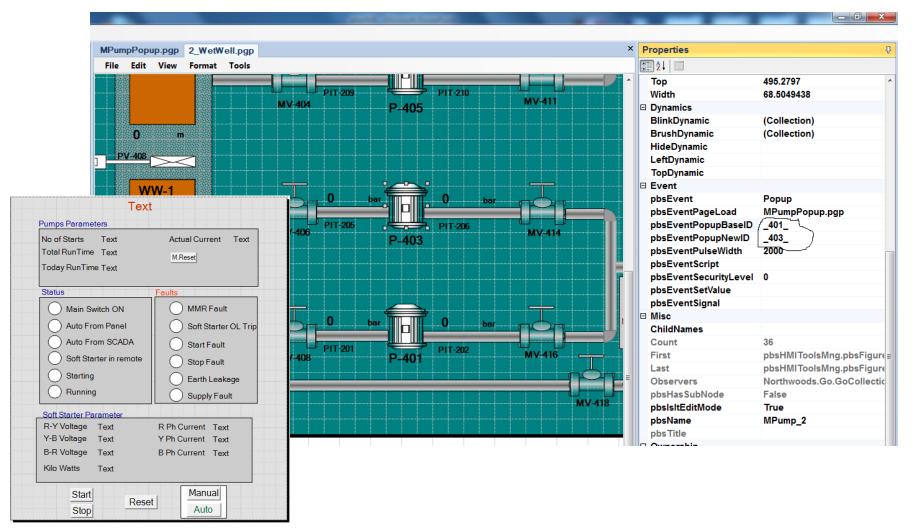
C# Scripting & Editor

File Edit Search View	
1 🛛 using System;	
2 using System.Collections;	
3 using System.ComponentModel;	
4 using System.IO;	
5 using System.Xml;	
6 using System.Data;	
7 using MySql.Data.MySqlClient;	
8	
9	
10	
11 P namespace pbsHMIUserScript	
13 b public partial class pbsHMIUserClass	
15 MySqlConnection _MySQLCon = new MySqlConnection();	
16 17 bool _MySQLServerConnected = false;	
18	
19 public void MySQLDBScript_Insert2DB()	
42 public void MySQLDBScript_InitDB()	
57 public void MySQLDBScript_DownDB()	
64	
65 }	
66 }	
Errors	
Script Line Error Description	
Successfully compiled	
	i

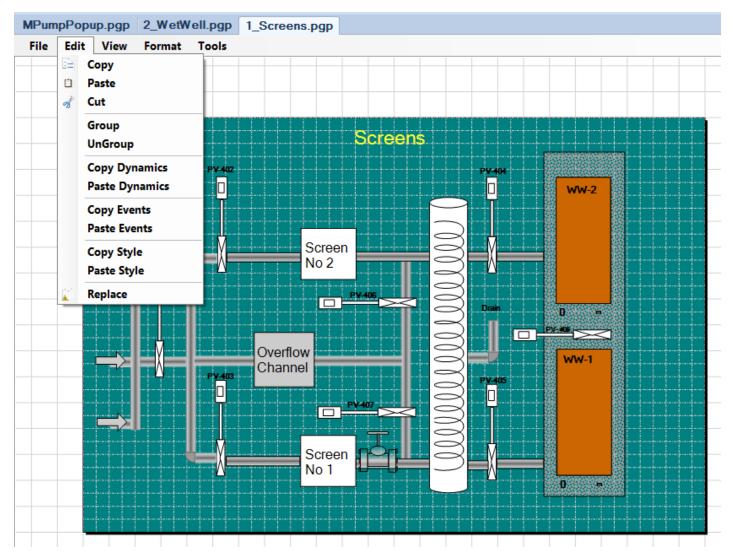
Different Types of scheduling for Automatic Tasks

Script MySQLDBS	cript_DownDB	
Run		
C Every day at	23:50 hh:n	nm
© Every hour at	0	mm
© Every msec	1000	
Coading		
Shutdown		

Calling Popup Menu with different tag groups at runtime



Rapid Application Development tools Copy Dynamic , Copy Event , Copy Style , ...



Event Viewer and Management

CVVP.pgp FDF.pgp						
⊱GAH.pgp			Glick here to add filter c	riteria		
A-GRF.pgp	Number of Events 67	76				
B-BFP.pgp B-CWP.pgp						
3-FDF.pgp	Description	State	Timelable	Val	RH	RM
GAH.pgp						
GRF.pgp iller.pgp	DI1M001 COORD PDC MODE	OFF	9/8/2015_3:36:35 PM:873	0	0	0
BFP.pgp	DI1M002 COORD ALR MODE	ON	9/8/2015_3:36:35 PM:888	1	133	15
owerplant.pgp	DI1M003 BLR FOLLOW MODE	OFF	9/8/2015_3:36:35 PM:888	0	0	0
art.pgp	DI1M004 BLR INPUT MODE	OFF	9/8/2015_3:36:35 PM:888	0	0	0
tructure.pgp	DI1M005 TBN FOLLOW MODE	0FF	9/8/2015_3:36:35 PM:888	0	0	0
UnitMW.pgp	DI1M006 BLR HAND MODE DI1M067 MW REJECT MODE	OFF	9/8/2015_3:36:35 PM:888	0 0	0	0
Utility *	DI1M067 MW REJECT MODE	OFF OFF	9/8/2015_3:36:35 PM:888 9/8/2015_3:36:35 PM:888	0	0	U 0
-	DI1M017 TBN GOV AUTO	ON	9/8/2015_3:36:35 PM:888	1	0	0
ogin ogout	DI1M071 TBN GOV HAND	OFF	9/8/2015_3:36:35 PM:888	0	0	0
hange Password	DI1M008 BLR MASTER AUTO	ON	9/8/2015 3:36:35 PM:888	1	0	0
Shut Down	DI1M072 BLR MASTER HAN	OFF	9/8/2015_3:36:35 PM:888	0	0	0
Enable Commands	DI1M010 FUEL GAS FLOW CV AUTO	ON	9/8/2015_3:36:35 PM:888	1	0	0
	DI1M073 FUEL GAS FLOW CV HAND	OFF	9/8/2015_3:36:35 PM:888	0	0	0
	DI1M011 FUEL OIL FLOW CV AUTO	ON	9/8/2015_3:36:35 PM:888	1	0	0
	DI1M074 FUEL OIL FLOW CV HAND	OFF	9/8/2015_3:36:35 PM:888	0	0	0
	DI1M012 GAS OIL FLOW CV AUTO	OFF	9/8/2015_3:36:35 PM:888	0	0	0
	DI1M075 GAS OIL FLOW CV HAND	ON	9/8/2015_3:36:35 PM:888	1	0	0
	DI1M015 FLUE GAS 02 AUTO	ON OFF	9/8/2015_3:36:35 PM:888	1	0	0
	DI1M078 FLUE GAS 02 HAND DI1M013 A-FDF AUTO	OFF ON	9/8/2015_3:36:35 PM:888 9/8/2015_3:36:35 PM:888	0	0	0
	DIIMUIS A-FDF AUTO	OFF	9/8/2015_3:36:35 PM:888	0	0	0
	DI1M014 B-FDF AUTO	ON	9/8/2015_3:36:35 PM:888	1	0	0
	DI1M077 B-FDF HAND	OFF	9/8/2015_3:36:35 PM:888	0	0	0
	DI1M016 HR FEED WATER CV AUTO		9/8/2015_3:36:35 PM:888	1	0	0
	DI1M079 HR FEED WATER CV HAND	I	9/8/2015_3:36:35 PM:888	0	0	0
	DI1M017 LR FEED WATER CV AUTO		9/8/2015_3:36:35 PM:888	1	0	0
	DI1M080 LR FEED WATER CV HAND	OFF	9/8/2015_3:36:35 PM:888	0	0	0
	DI1M018 A-BFP AUTO	OFF	9/8/2015_3:36:35 PM:888	0	0	0
	DI1M081 A-BFP HAND	ON	9/8/2015_3:36:35 PM:888	1	0	0
	DI1M019 B-BFP AUTO	ON	9/8/2015_3:36:35 PM:888	1	0	0
	DI1M082 B-BFP HAND	OFF	9/8/2015_3:36:35 PM:888	0	0	0
	DI1M020 C-BFP AUTO	ON	9/8/2015_3:36:35 PM:888		0	0

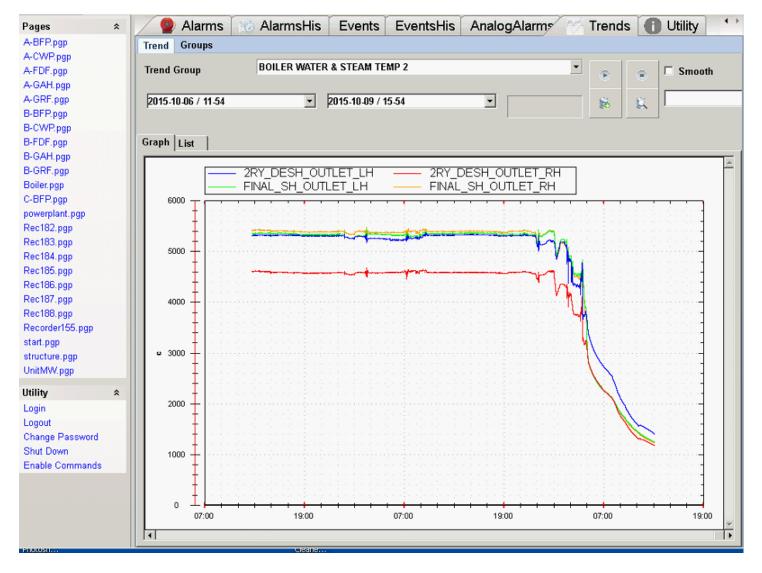
Alarm Viewer and Management

*	🖃 Pages 🧐 Alarms 1 AlarmsHis	Events EventsHip A	nalogAlarms 🛛 🏹 Trends	1 Utility						
3b		/ Immu								
gp	🔮 Ack 🛛 🔮 AckAll									
3b	Click here to add filter criteria									
gp	Number of Alarms 46									
gp										
3b										
gp	Description	State	Value	Analog State	Timelable	User				
р	Description	Siale	value	Analog State	Timelable	User				
lb										
р	AI1WA07 ECO INLET FEED WATER PH (L=8,H=9)	ActiveNotACK	0	L_Alarm	9/8/2015_3:36:35 PM:998	Admin				
•	AI1BA01 BLR DRUM WATER PH (L=8,H=10)	ActiveNotACK	2.00488400598988	L_Alarm	9/8/2015_3:36:35 PM:998	Admin				
p	AI1WA04 CBP OUTLET DO2(L=20,H=300)	ActiveNotACK	-124.847374796867	L_Alarm	9/8/2015_3:36:35 PM:998	Admin				
nt.pgp	AI1WA10 A-CPP OUTLET WATER CONDUCTIVITY(I		0.0448717772960663	H_Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AI1WA11 B-CPP OUTLET WATER CONDUCTIVITY		0.0100732445716858	H_Alarm	9/8/2015_3:36:35 PM:998	Admin				
pgp	AI1WA09 ECO INLET FEED WATER CONDUCTIVITY		0.0680707991123199	H_Alarm	9/8/2015_3:36:35 PM:998	Admin				
gp	AI1SA02 MAIN STEAM CONDUCTIVITY(H=0)	ActiveNotACK	0.14529912173748	H_Alarm	9/8/2015_3:36:35 PM:998	Admin				
*	AI1SP02 TBN INLET MAIN STEAM PRESS. (L=130,H		-49.9389499388635	L_Alarm	9/8/2015_3:36:35 PM:998	Admin				
	Al1WL01 COND WATER LEVEL (L=2,H=3) CWP DISCHARGE WATER PRESS(L=2,H=3)	ActiveNotACK	3.24816850607749 0	H_Alarm	9/8/2015_3:36:35 PM:998	Admin				
	· · · · ·	ActiveNotACK		L_Alarm	9/8/2015_3:36:35 PM:998	Admin				
assword	CIRCULATING WATER FLOW(L=25,H=27) DEA STORAGE TANK LEVEL(L=2,H=3)	ActiveNotACK ActiveNotACK	32.576303543523	H_Alarm	9/8/2015_3:36:35 PM:998	Admin Admin				
n	LP NO.2 HTR LEVEL(L=50,H=150)	ActiveNotACK	-150	L_Alarm	9/8/2015_3:36:35 PM:998	Admin				
mmands	HP NO.5 HTR LEVEL(L=50,H=150)	ActiveNotACK	-199.633699633181	L Alarm	9/8/2015_3:36:35 PM:998 9/8/2015_3:36:35 PM:998	Admin				
	HP NO.6 HTR LEVEL(L=-50,H=150)	ActiveNotACK	-199.633699633181	L_Alarm	9/8/2015_3:36:35 PM:998	Admin				
	TBN LUB. OIL PRESS.(L=0,H=1)	ActiveNotACK	1.39316202234477	H_Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AI1GT27 AIR COOLER OUTLET AIR TEMP. (H=50)	ActiveNotACK	53.9438224993646	H Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AITTX02 TBN ECCENTRICITY (L=0,H=100)	ActiveNotACK	-13.553113501519	L Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AI1JV03 B-BFP VIBRATION (IN SIDE)(L=5,H=34)	ActiveNotACK	-24.9389499388635	L_Alarm	9/8/2015_3:36:35 PM:330	Admin				
	AITEE02 U-M/C BUS-A VOLTAGE (U-V PHASE) (L=		4.32142929360271	L Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AITEE03 U-M/C BUS-B VOLTAGE (U-V PHASE) (L=5		-2.25	L Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AITEE17 A-FDF MOTOR CURRENT (H=275)	ActiveNotACK	297.557925343513	H_Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AIIDL01 CONDENSATE STORAGE TANK LEVEL (H		9.64010829245672	H Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AITLE04 S-M/C BUS VOLTAGE (U-V PHASE) (L=5)	ActiveNotACK	0	L Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AI1FT01 HOP INLET TEMP(L=40,H=60)	ActiveNotACK	0	L_Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AIISTI0 L-FINAL SH OUTLET STEAM TEMP(H=555)		567	H Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AIISTI1 BLR OUTLET MAIN STEAM TEMP(L=521,H		564	H_Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AIIST12 TBN INLET MAIN STEAM TEMP(L=521,H=5		559	H Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AIISTI5 BLR OUTLET HRH STEAM TEMP(L=511,H=		562	H Alarm	9/8/2015 3:36:35 PM:998	Admin				
	AI1ST16 TBN INLET HRH STEAM TEMP(L=511,H=5		560	H_Alarm	9/8/2015_3:36:35 PM:998	Admin				
	AI1 JT35 C-BFP HYD. COUPLING BRG-R2 TEMP(H=		469	H_Alarm	9/8/2015_3:36:35 PM:998	Admin				
	LP NO.1 HTR LEVEL(L=-50,H=150)	ActiveNotACK	-149.02319920063	L_Alarm	9/8/2015_3:36:40 PM:272	Admin				
	LP NO.3 HTR LEVEL(L=-50.H=150)	ActiveNotACK	-149.877899900079	L Alarm	9/8/2015 3:39:26 PM:585	Admin				

Online and Offline Trending

*	🖃 Page	s 🔮 Alarms 👔	👩 AlarmsHis 🕺 Ever	nts EventsHis Ana	alogAlarms 💮 Trends	1 Utility		
Tre	nd Groups	I						
		B CWP				П		
Tre	end Group	B_CMb			💌 💿 🗖 Smoot	th /	0	
					- Forwards	Seament	•	
P Pu	15-09-10 / 14	-34 💌	2015-09-17 / 15-34	•		Segment		
				,				
Gra	ph List							
	-			HRUST BRG TEMP.			OR GUIDE BRG UP.	TEMP.
ID III		AI1DT10	B-CWP MOTOR G	UIDE BRG LOWER	TEMP. — AI1D			
	_	— AI1DT12	B-CWP V-WINDING	3 TEMP.	AI1D	T14 B-CWP W-W	NDING TEMP.	
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		2013/03/11						

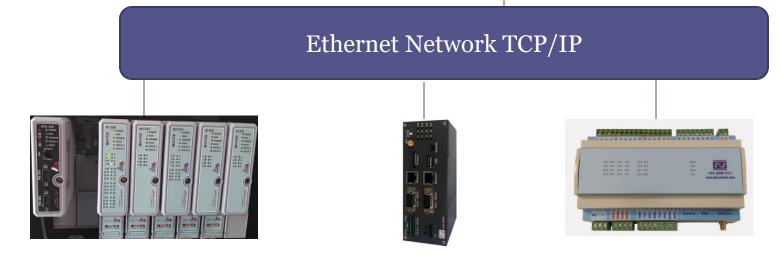
Historical Trending



pbsHMI simple Setup

 Integrated I/O server , Alarm Server , Graphic pages , Data logging in one Computer

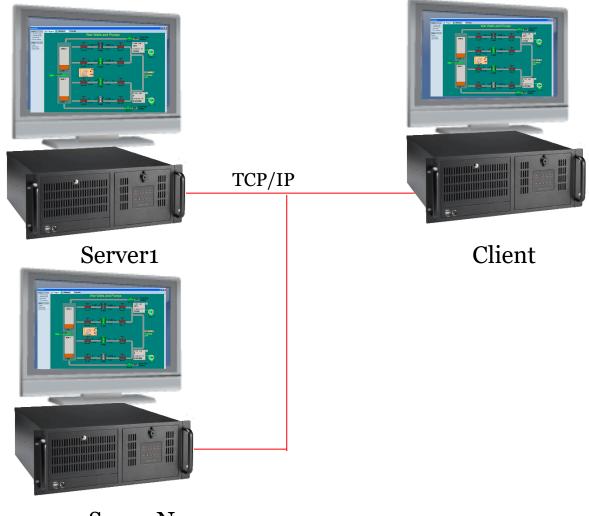




pbsHMI Client/Server Setup TCP/IP Ethernet Serial Client **IO** Server -----PBS-2008 RTU

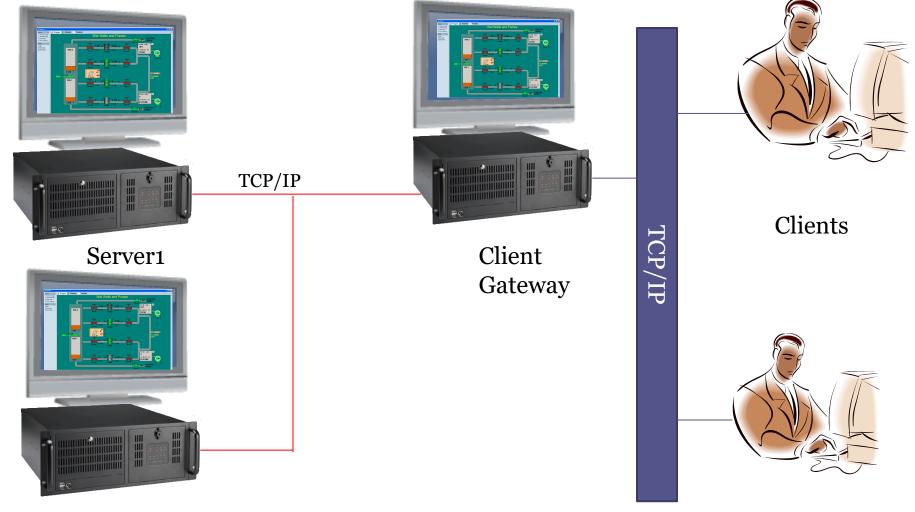
Client

pbsHMI Client/Servers Setup

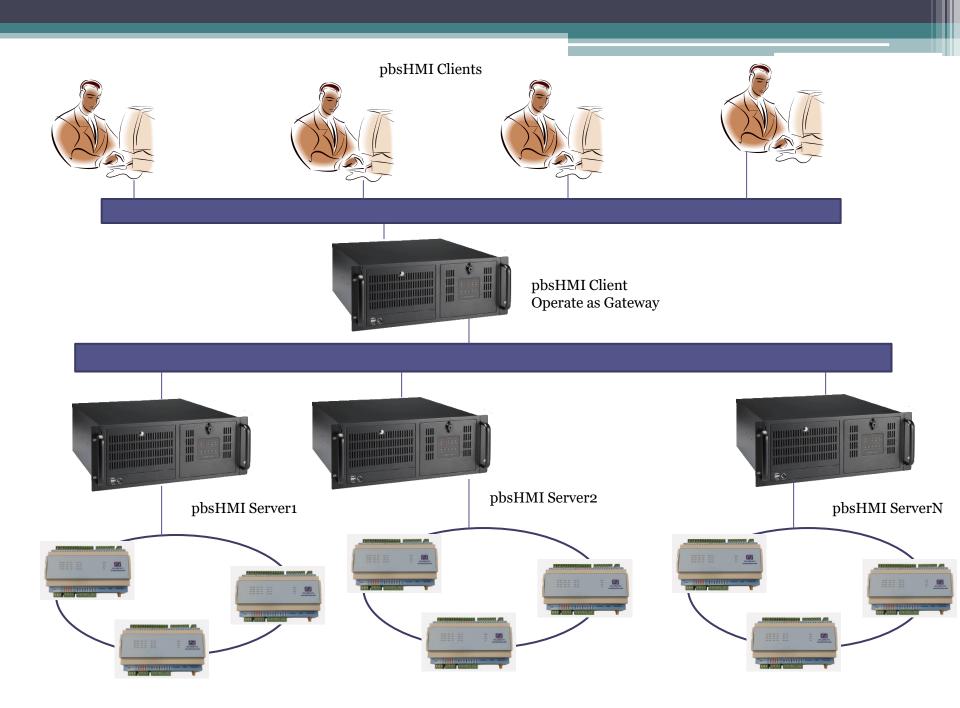


ServerN

pbsHMI Gateway Setup



ServerN

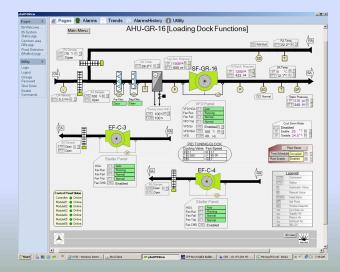


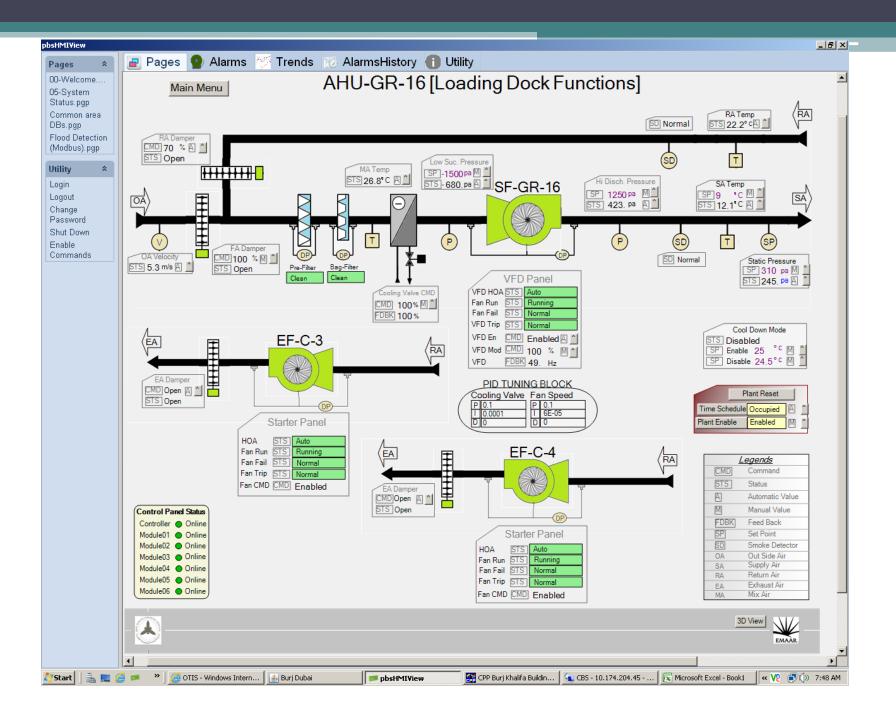
Pages 8	🖉 Pages 🧶 Alarms 🚿 Tren	ds 😨 AlarmsHistory 们 Utility	
00.Webcome	Man Mercu	COMMON AREA ELECTRICAL DB	STATIS
05-System		COMMONANCALLECTRICAL DB	517105
Status, pgp	NORMAL LIGHTING DB	NORMAL POWER UTILITY DB	
Common area			1
CBs.pgp Flead Datertion		NORMAL LEVEL 160 RRDB	-
(Modbus).pgp		NORMA LEVEL 155 RRDB	-
	LEVEL 155 RLDB NORM	NORMAL LEVEL 154 RRDB	4
Utify ×	LEVEL 154 RLMDB NORM		-
Login	LEVEL 153 RLMDB _ Norm		-
Logost	LEVEL 152 RLMDB _ NORM		4
Charge Password	LEVEL 151 BLDB NORM		1
Shat Down	LEVEL 142 RLDB NORM		•
Enable	LEVEL 136 RLDB INCRM		1
Commands	LEVEL 130 RLDB _I NORMA		1
	LEVEL 117 RLDB NORM	NORMAL LEVEL 115 RRDB	1
	LEVEL 109 RLDB NORMA	NORMAL LEVEL 111 RRDB	1
	LEVEL 106 RLDB NORMA		
	LEVEL 100 RLDB NORMA		NORMA LEVEL 4 4RLDB2
	LEVEL 94 RLDB NORM		NORMAL LEVEL 4 4RLDB3
	LEVEL 89 RLDB NORM		NORMAL LEVEL 4 4RLDB4
	LEVEL 84 RLDB NORMA		NORMAL LEVEL 4 4RLDB5
	LEVEL 70 RLDD NORM		NORMA LEVEL 4 4RLDB6
	LEVEL 73 RLDB NORM		NORMA LEVEL 4 4RLDB7
	LEVEL 70 RLDB NORM		NORMAL LEVEL 2 2RLDB2
	LEVEL 65 REDB INDEM		
	LEVEL 55 RLDB INORM		NORMA LEVEL 2 2RLDB4
	LEVEL 50 RLDB NORM		NORMAL LEVEL 2 2RLDBS
	LEVEL 45 RLDB NORM		NORMAL LEVEL 2 281 DB7
	LEVEL 40 RLDB NOBW		NORMAL LEVEL GRD GREMLDB1
	LEVEL 38 HLDB NORM		NORMA LEVELCON CREMILDINGI
	LEVEL 32 HLDB NORMA		
	LEVEL 27 HLDB L NORM		NORMAL LEVEL B1 B1HEMLDB4
	LEVEL 20 HLDB NORM	(NORMAL) LEVEL 25 MRDB	NORMAL LEVELB1 B1HLDB7
	LEVEL 17 HLDB NORM		NORMA LEVELB1 B1HRDB3
	LEVEL 15 HLDB NORMA	NORMAL LEVEL 17 HRDB	NORMAL LEVEL B2 B2REMLDB4
	LEVEL 11 HLDB NORM		
	LEVEL 7 HLDB NORM	NORMAL LEVEL 8 HRDB	NORMAL LEVEL B2 B2HLDB7
		TOTAL PLAN INTER	
	•		
Start	S I	tas 📑 phaith Evices 💽 (19 Bur) shaifa buida 💡	🖕 (15 - 13 . 174 . 294 . 45] 💽 Moresoft Evel - Books 🛛 🗰 💘 📿 (1 - 7

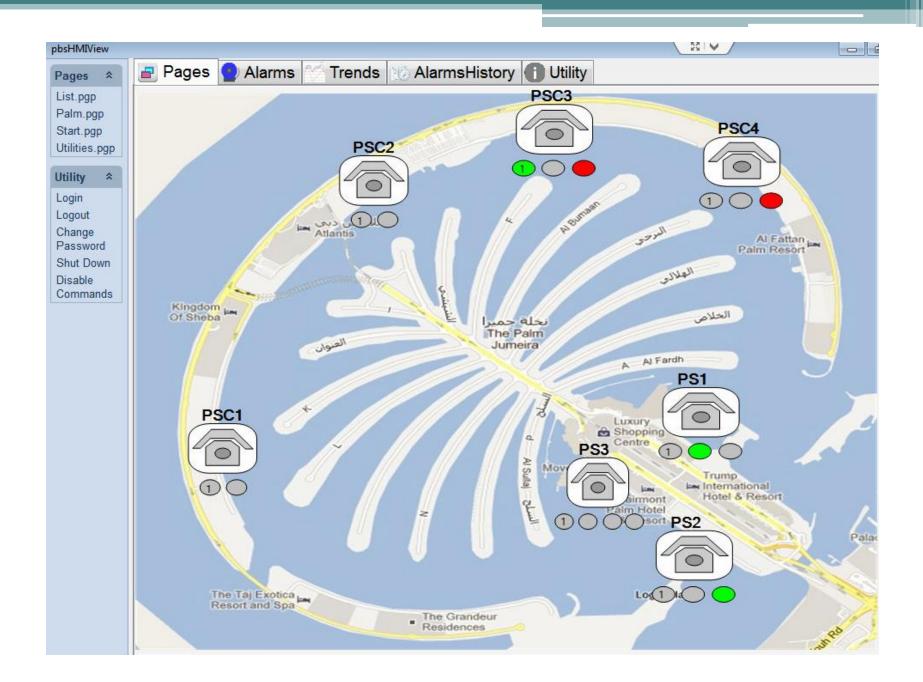


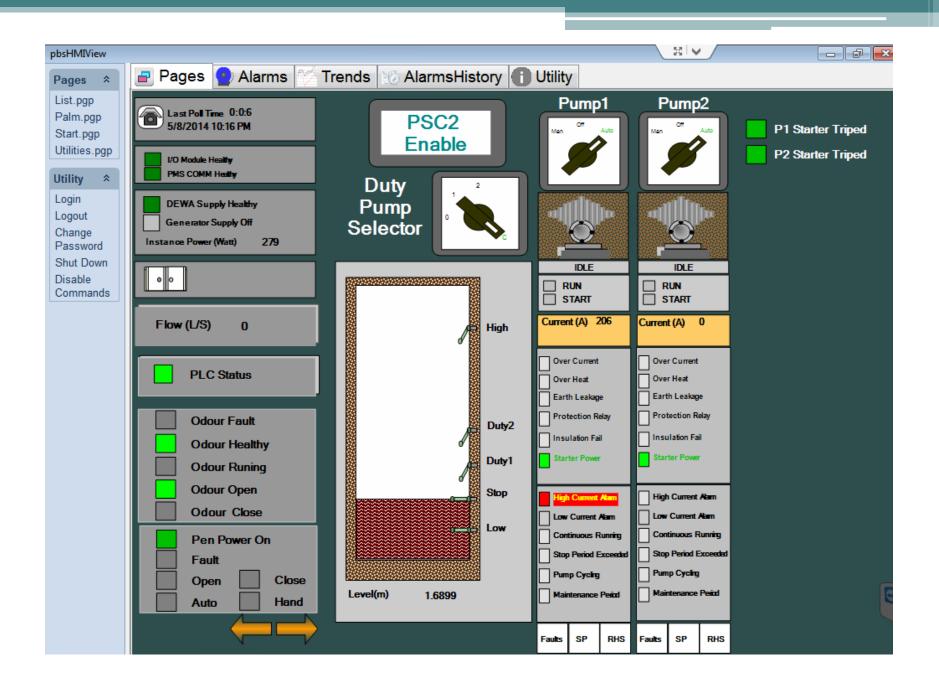
Sample Pages

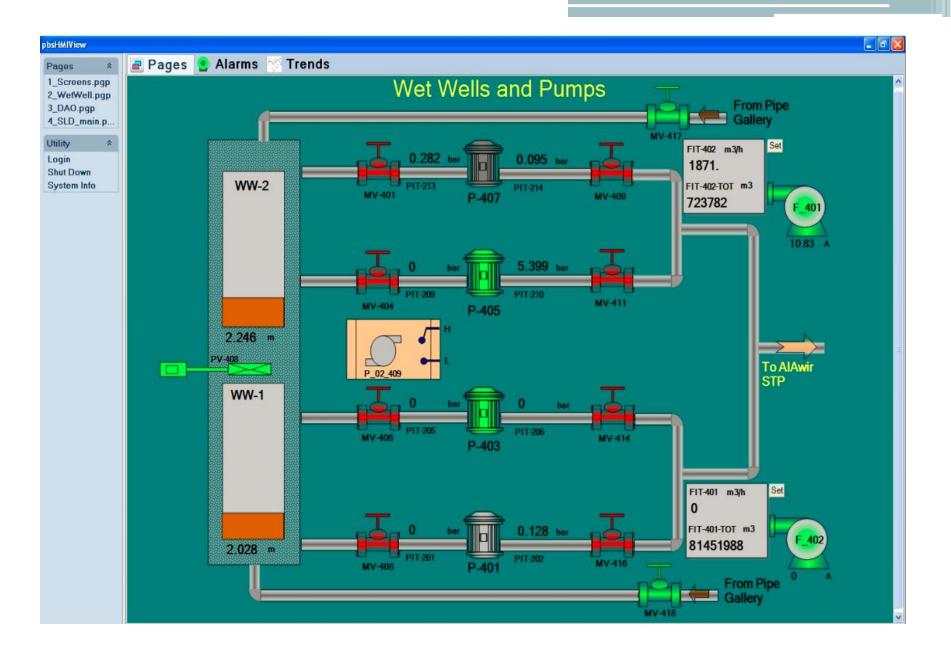


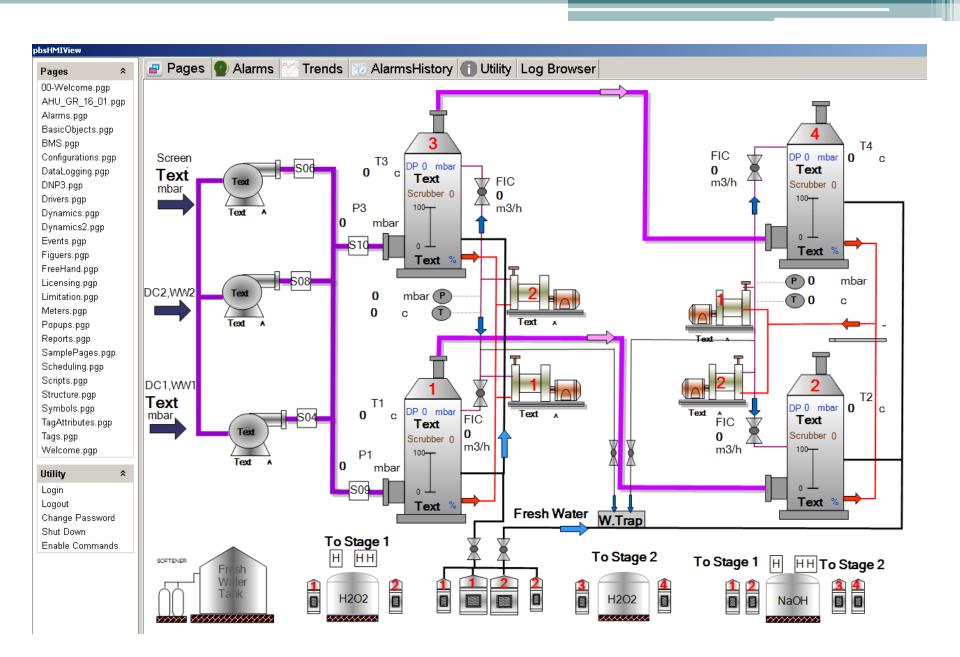




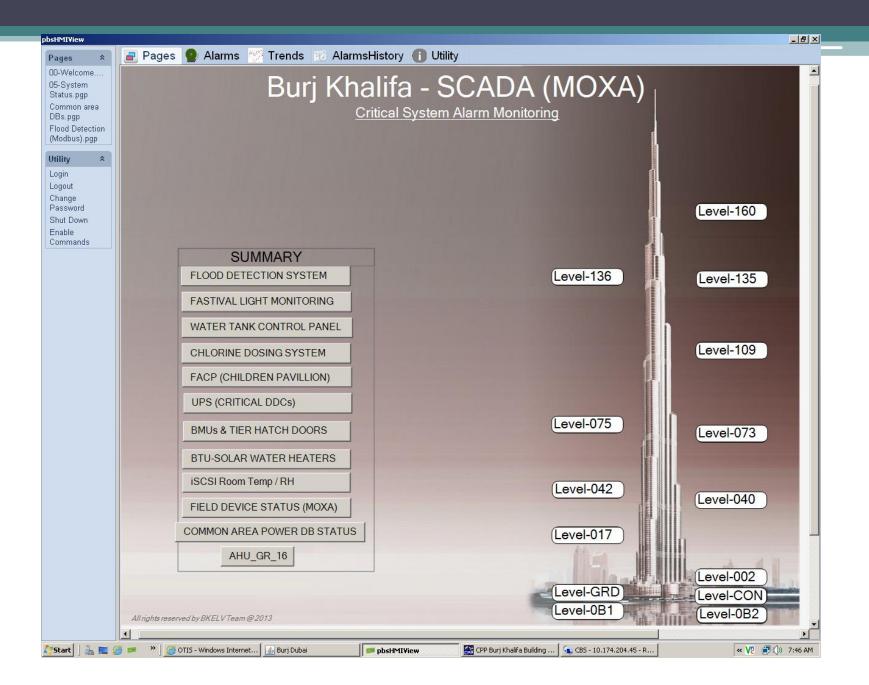




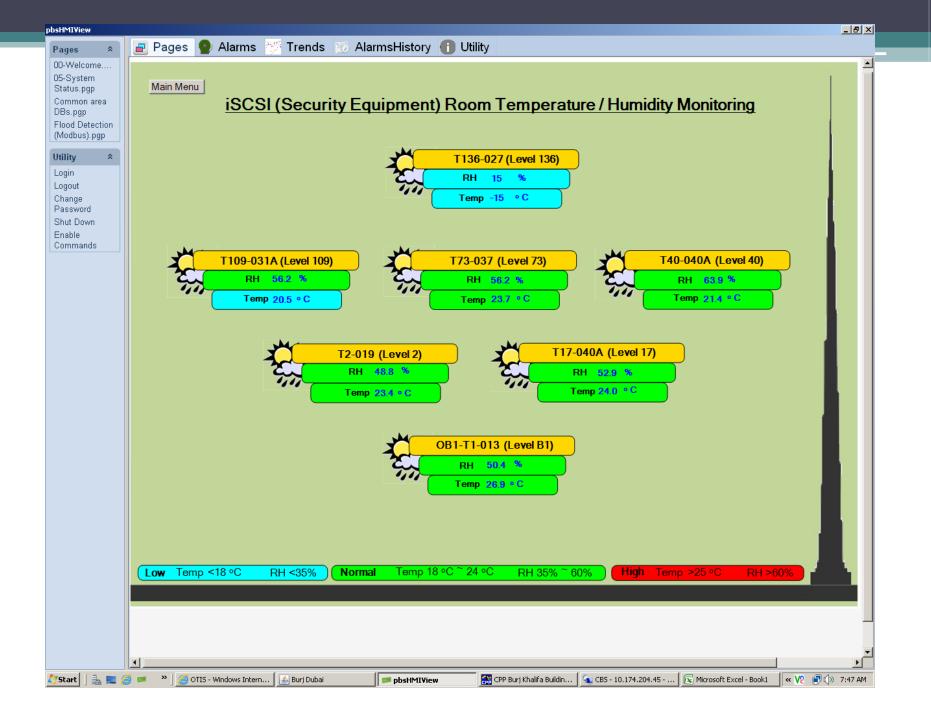












Utility

Login Logout Change Password Shut Down Enable Commands Pages \$ 00-Welcome.... 05-System Status.pgp Common area DBs.pgp Flood Detection (Modbus).pgp

\$

🖃 Pages 🔮 Alarms Main Menu

NORMAL	LIGHTING DB	
NORMAL	LIGHTING DD	

LEVEL 155	RLDB	NORMAL
LEVEL 154	RLMDB	NORMAL
LEVEL 153	RLMDB	NORMAL
LEVEL 152	RLMDB	NORMAL
LEVEL 151	RLDB	NORMAL
LEVEL 142	RLDB	NORMAL
LEVEL 136	RLDB	NORMAL
LEVEL 130	RLDB	NORMAL
LEVEL 117	RLDB	NORMAL
LEVEL 109	RLDB	NORMAL
Level 106	RLDB	NORMAL
LEVEL 100	RLDB	NORMAL
Level 94	RLDB	NORMAL
Level 89	RLDB	NORMAL
Level 84	RLDB	NORMAL
Level 78	RLDB	NORMAL
Level 73	RLDB	NORMAL
Level 70	RLDB	
Level 65	RLDB	
Level 60	RLDB	
LEVEL 55	RLDB	
Level 50	RLDB	
Level 45	RLDB	
Level 40	RLDB	
LEVEL 38	HLDB	
LEVEL 32	HLDB	
Level 27	HLDB	
LEVEL 20	HLDB	
LEVEL 17	HLDB	
Level 15	HLDB	
LEVEL 11	HLDB	
Level 7	HLDB	NORMAL

COMMON AREA ELECTRICAL DB STATUS

Trends 😿 AlarmsHistory 🚹 Utility

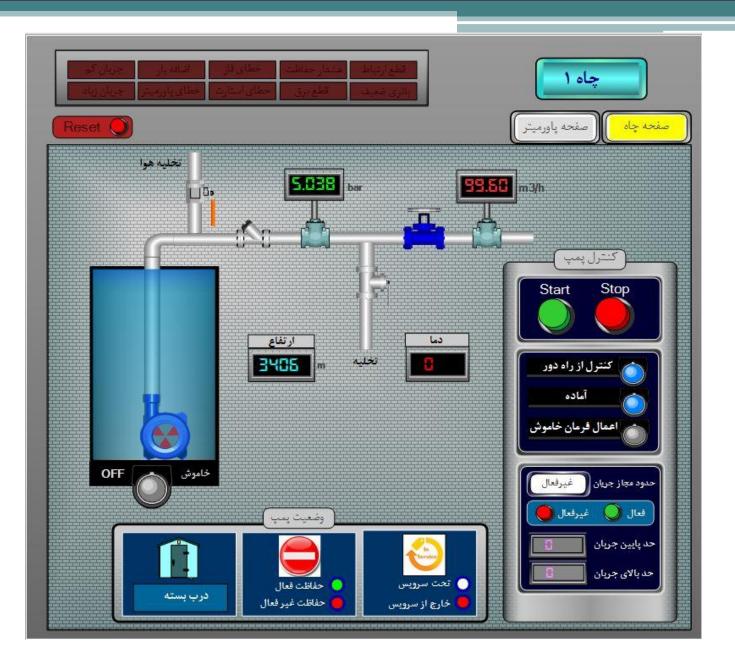
NORMALF	POWER UTILI	TYDB
NORMAL	LEVEL 160	RRDB
NORMAL	LEVEL 155	RRDB
NORMAL	LEVEL 154	RRDB
NORMAL	LEVEL 153	RRDB
NORMAL	LEVEL 152	RRDB
NORMAL	LEVEL 146	RRDB
NORMAL	LEVEL 141	RRDB
NORMAL	LEVEL 138	RRDB
NORMAL	LEVEL 136	RRDB
NORMAL	LEVEL 132	RRDB
NORMAL	LEVEL 120	RRDB
NORMAL	LEVEL 115	RRDB
NORMAL	LEVEL 111	RRDB
NORMAL	LEVEL 109	RRDB
NORMAL	LEVEL 107	RRDB
NORMAL	LEVEL 101	RRDB
NORMAL	LEVEL 92	RRDB
NORMAL	LEVEL 85	RRDB
NORMAL	LEVEL 79	RRDB
NORMAL	LEVEL 75	RRDB
NORMAL	LEVEL 73	RRDB
NORMAL	LEVEL 69	RRDB
NORMAL	LEVEL 63	RRDB
NORMAL	LEVEL 58	RRDB
NORMAL	LEVEL 51	RRDB
NORMAL	LEVEL 46	RRDB
	LEVEL 42	RRDB
NORMAL	LEVEL 40	RRDB
NORMAL	LEVEL 37	HRDB
NORMAL	LEVEL 31	HRDB
NORMAL	LEVEL 25	HRDB
NORMAL	LEVEL 21	HRDB
NORMAL	LEVEL 17	HRDB
NORMAL	LEVEL 14	HRDB
NORMAL	LEVEL 8	HRDB

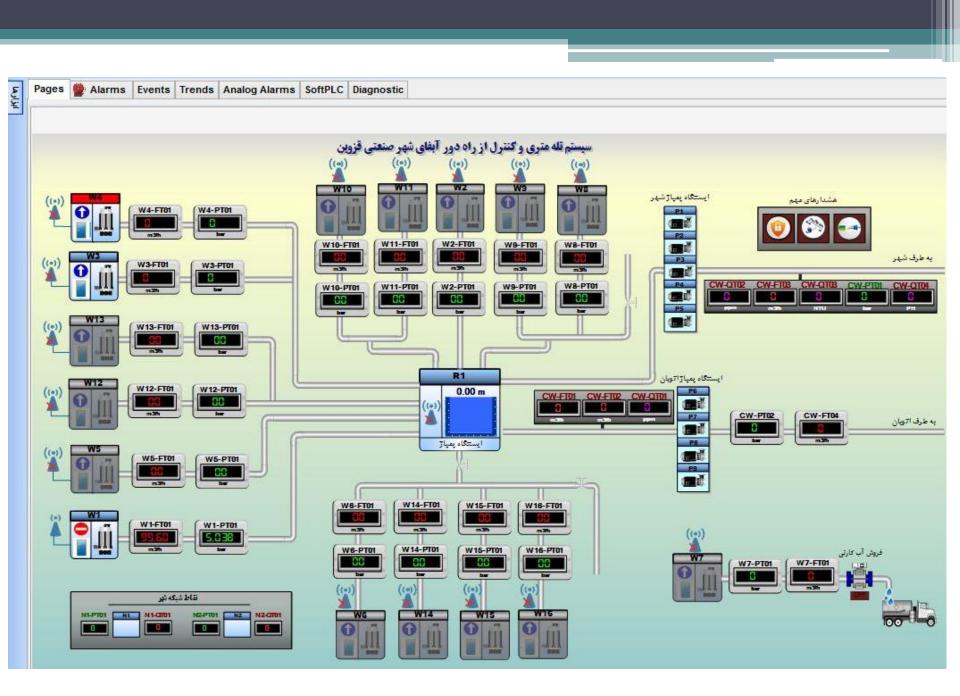
NORMAL	LEVEL 4	4RLDB2
NORMAL	LEVEL 4	4RLDB3
NORMAL	LEVEL 4	4RLDB4
NORMAL	LEVEL 4	4RLDB5
NORMAL	LEVEL 4	4RLDB6
NORMAL	LEVEL 4	4RLDB7
NORMAL	LEVEL 2	2RLDB2
NORMAL	LEVEL 2	2RLDB3
NORMAL	LEVEL 2	2RLDB4
NORMAL	LEVEL 2	2RLDB5
NORMAL	LEVEL 2	2RLDB6
NORMAL	LEVEL 2	2RLDB7
NORMAL	LEVEL GRD	GREMLDB1
NORMAL	LEVEL CON	CREMLDMB1
NORMAL	LEVEL CON	CHEMLDB1
NORMAL	LEVEL B1	B1HEMLDB4
NORMAL	LEVEL B1	B1HLDB7
NORMAL	LEVEL B1	B1HRDB3
NORMAL	LEVEL B2	B2REMLDB4
NORMAL	LEVEL B2	B2RRDB3
NORMAL	LEVEL B2	B2HLDB7

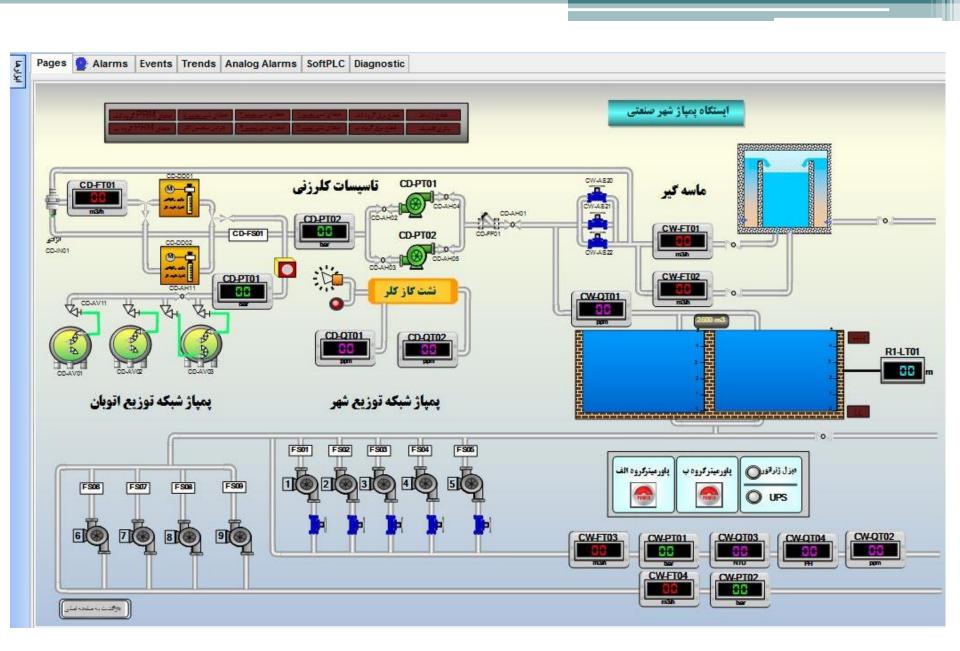
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pbsHMIView







GT11 GT21 GT31 GT41 GT51 GT61

TEMPERATURE HUMIDITY PRESSURE		41.25	degC % mbar
		28.26 986.3	
F GAS		0.002	kg/s
F OIL		25	l/mi
NOx WTF	2	32	kg/s
Р	131.9	MW	
n	3002.4	rpm	
тіт	1100.2	degC	
TAT	535.6	degC	
VIGV	-0.15	deg	

