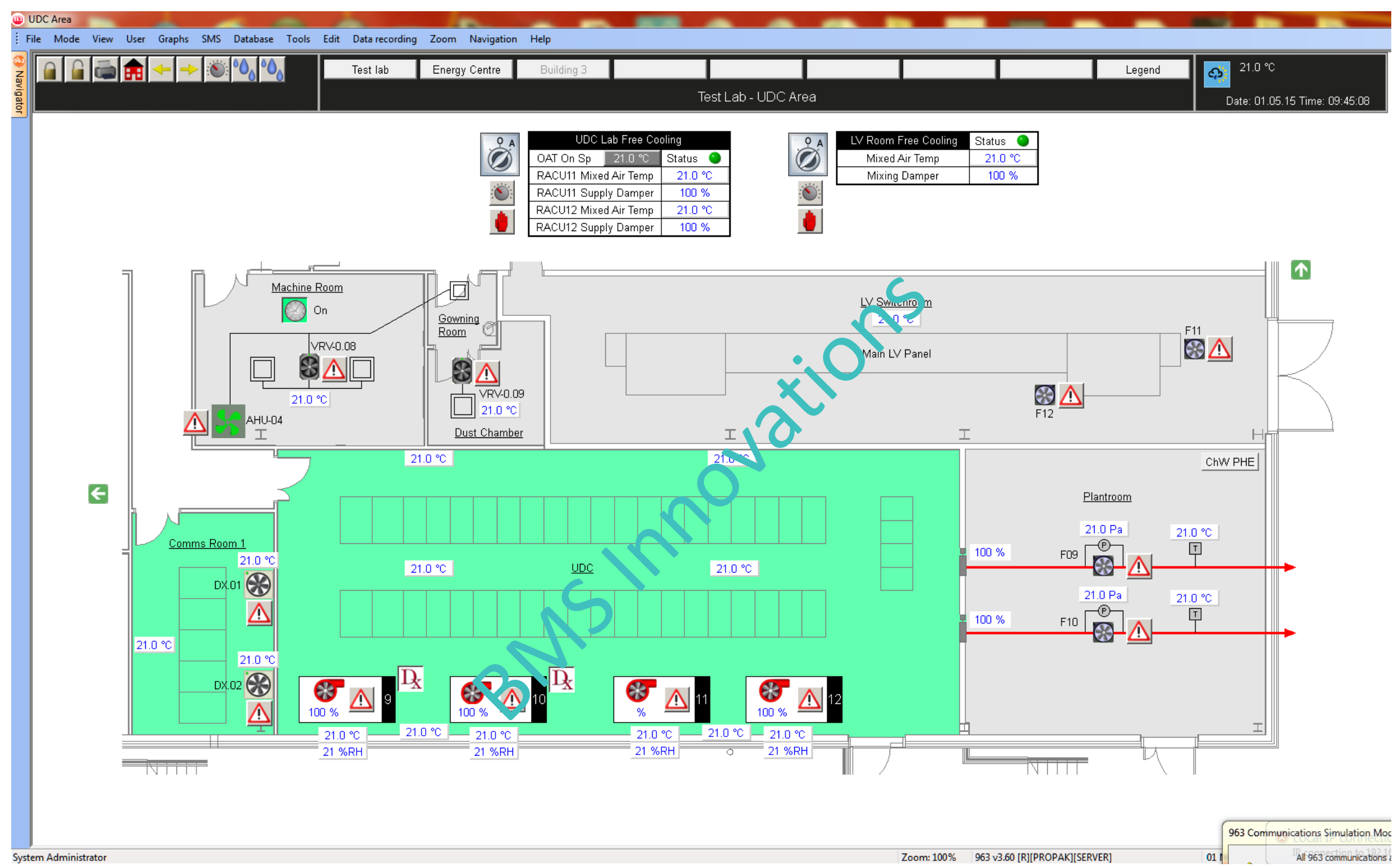

UDC Area
File Mode View User Graphs SMS Database Tools Edit Data recording Zoom Navigation Help
Navigator
Test lab
Energy Centre
Building 3
Legend
Test Lab - UDC Area
21.0 °C
Date: 01.05.15 Time: 09:45:08
UDC Lab Free Cooling
OAT On Sp 21.0 °C Status
RACU11 Mixed Air Temp 21.0 °C
RACU11 Supply Damper 100 %
RACU12 Mixed Air Temp 21.0 °C
RACU12 Supply Damper 100 %
LV Room Free Cooling Status
Mixed Air Temp 21.0 °C
Mixing Damper 100 %
Machine Room
On
VRV-0.08
21.0 °C
AHU-04
Gowning Room
VRV-0.09
21.0 °C
Dust Chamber
LV Switchroom
Main LV Panel
F11
F12
ChW PHE
Plantroom
21.0 Pa
F09
F10
100 %
Comms Room 1
DX.01
DX.02
UDC
9
10
11
12
21 %RH
BMS Innovations
963 Communications Simulation Mod
System Administrator
Zoom: 100%
963 v3.60 [R][PROPAK][SERVER]

Ground Floor Plan

File Mode View User Graphs SMS Database Tools Edit Data recording Zoom Navigation Help

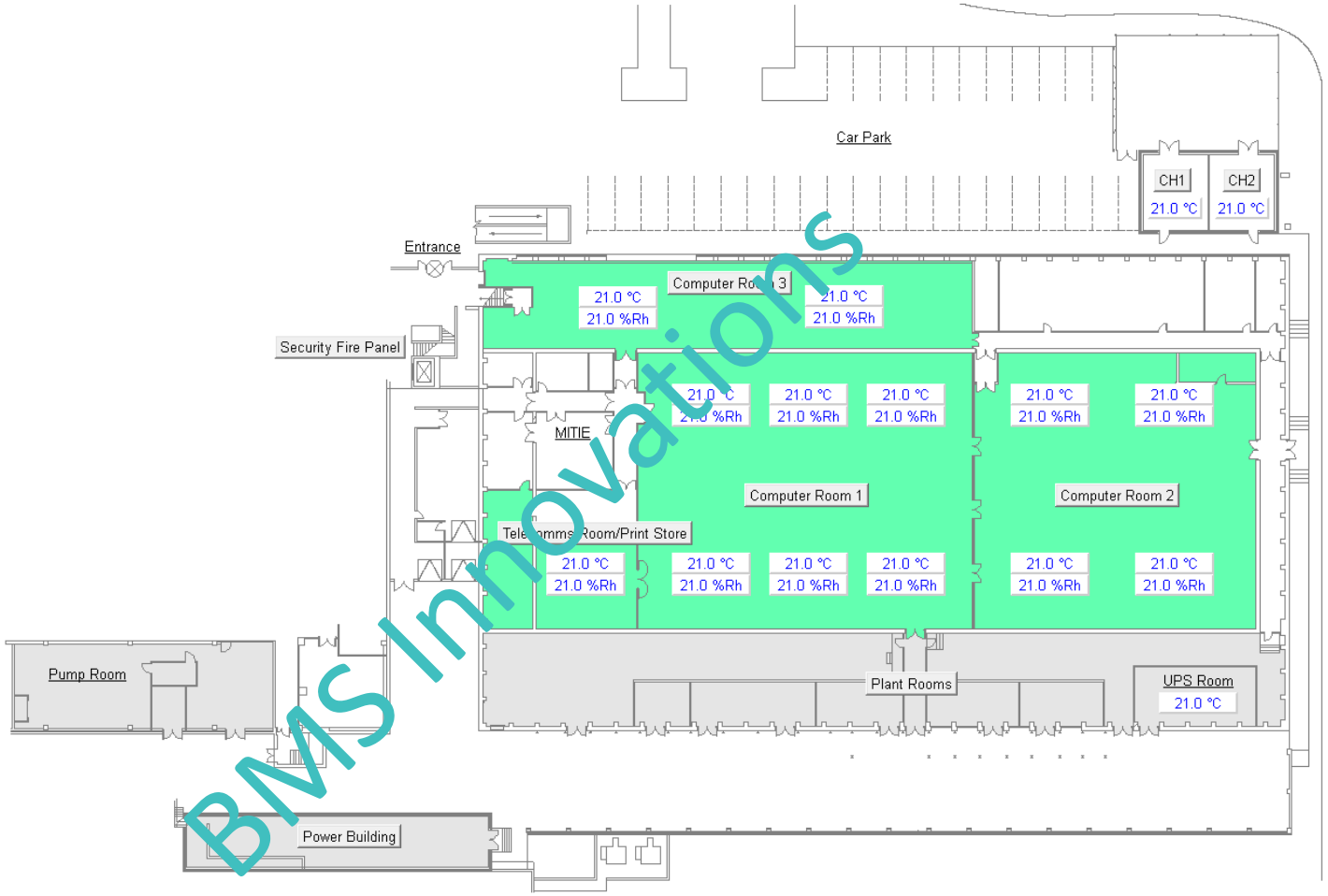
Alarms | Ground Floor Plan | Devices | Default | 16:10 01/05/15 | Outside Air wait °C

Navigation

- Ground Floor Plan
- Computer Room 1
- Computer Room 2
- Computer Room 3
- Telecomms Room/Print Store
- Plant Rooms
- Power Building

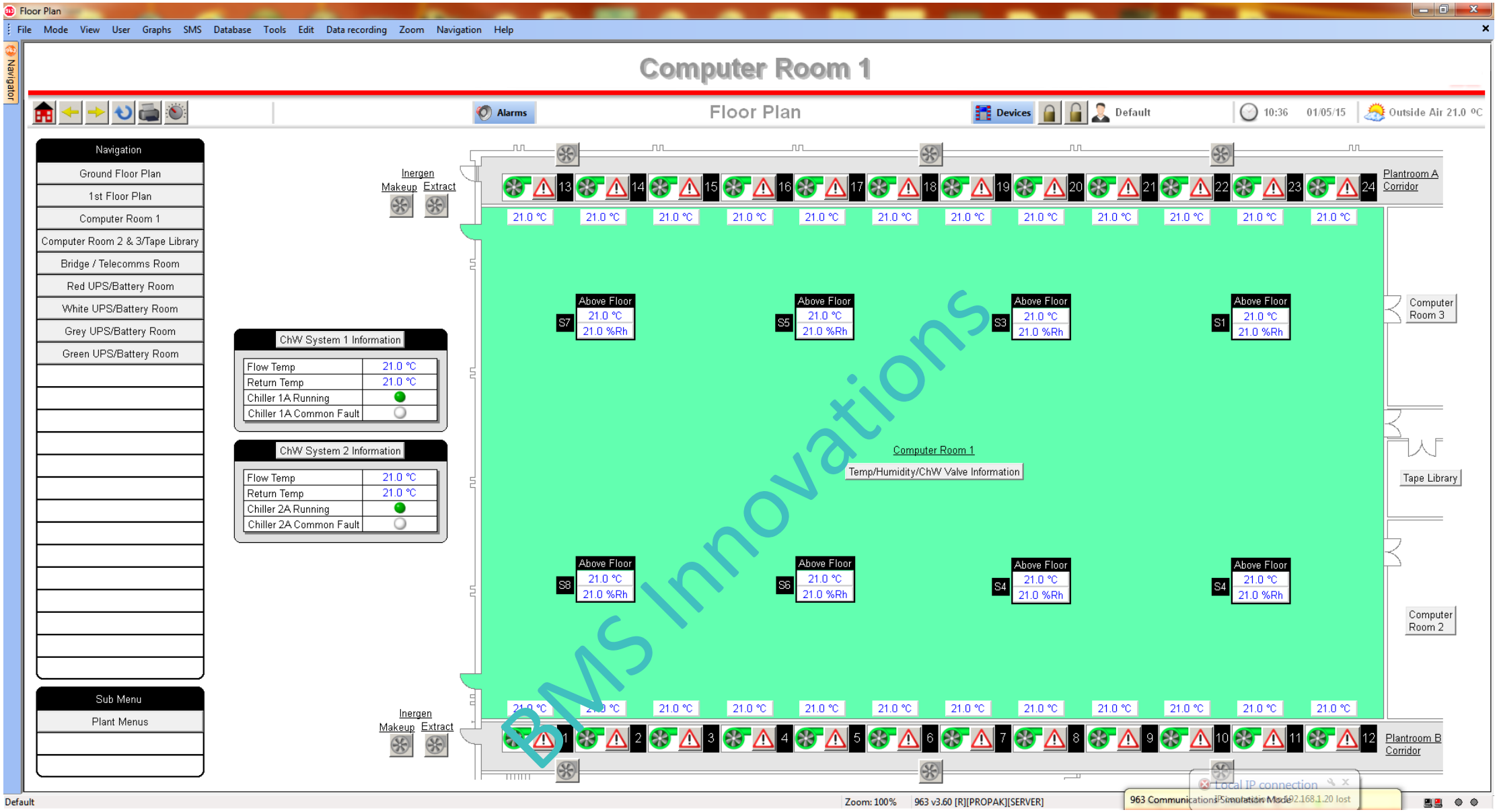
Sub Menu

- Plant Menus



BMS Innovations

Default | Zoom: 100% | 963 v3.60 [R][PROPAK][SERVER]


Floor Plan
File Mode View User Graphs SMS Database Tools Edit Data recording Zoom Navigation Help
Computer Room 1
Alarms
Floor Plan
Devices
Default
10:36 01/05/15
Outside Air 21.0 °C
Navigation
Ground Floor Plan
1st Floor Plan
Computer Room 1
Computer Room 2 & 3/Tape Library
Bridge / Telecomms Room
Red UPS/Battery Room
White UPS/Battery Room
Grey UPS/Battery Room
Green UPS/Battery Room
Sub Menu
Plant Menus
ChW System 1 Information
Flow Temp 21.0 °C
Return Temp 21.0 °C
Chiller 1A Running
Chiller 1A Common Fault
ChW System 2 Information
Flow Temp 21.0 °C
Return Temp 21.0 °C
Chiller 2A Running
Chiller 2A Common Fault
Inergen Makeup Extract
Plantroom A Corridor
Above Floor 21.0 °C 21.0 %Rh
Computer Room 3
Computer Room 1
Temp/Humidity/ChW Valve Information
Tape Library
Computer Room 2
Plantroom B Corridor
BMS Innovations
Default
Zoom: 100%
963 v3.60 [R][PROPAK][SERVER]
963 Communications Simulation Mode

UDC Area

File Mode View User Graphs SMS Database Tools Edit Data recording Zoom Navigation Help

Navigator

Test lab | Energy Centre | Building 3 | Legend

Test Lab - D2D Area RACU-01

21.0 °C

Date: 01.05.15 Time: 09:45:08

- RACU-01
- RACU-03
- RACU-05
- RACU-07

Controls	
Temperature Control	Cold Aisle
Cold Aisle + Return Air Temp	21.0 °C
Return Temp Sp	21.0 °C
Return Air Temp	21.0 Deg C
Return Air Humidity SP	21.0 %RH
Return Air Humidity	21.0 %RH
Supply Air Temp Sp	21.0 °C
Supply Air Temp	21.0 °C
Supply Air Humidity	21.0 %RH
Return Air Enthalpy	21.0 kjkg
Return Air Moisture Content Sp	21.0 g-kg
Return Air Moisture Content	21.0 g-kg
Cooling Demand	21 %
CW Valve Output	100 %
Heating Enable	On
Heating Demand	21 %
Heating Output	100 %
Heating Stage	????
Dehum Enable	On
Dehum Demand	21 %
Humidifier Enable	On
Humidifier Demand	21 %
Humidifier Output	100
Unit Enable	On
Unit Status	On
Fan Control	100 %

Alarm Conditions	
Return Air Temp - High	
Return Air Temp - Low	
Return Air Humidity - High	
Return Air Humidity - Low	
Air Flow Alarm	
Klixon Alarm	
Water Detected Alarm	
Sump Pump Alarm	
Comms Failure	
Filter Dirty	
Humidifer Fault	
Alarm Reset	On

BMS Innovations

963 Communications Simulation Mod

All 963 communications a

System Administrator | Zoom: 100% | 963 v3.60 [R][PROPAK][SERVER]

CRAC1

File Mode View User Graphs SMS Database Tools Edit Data recording Zoom Navigation Help

Computer Room 1

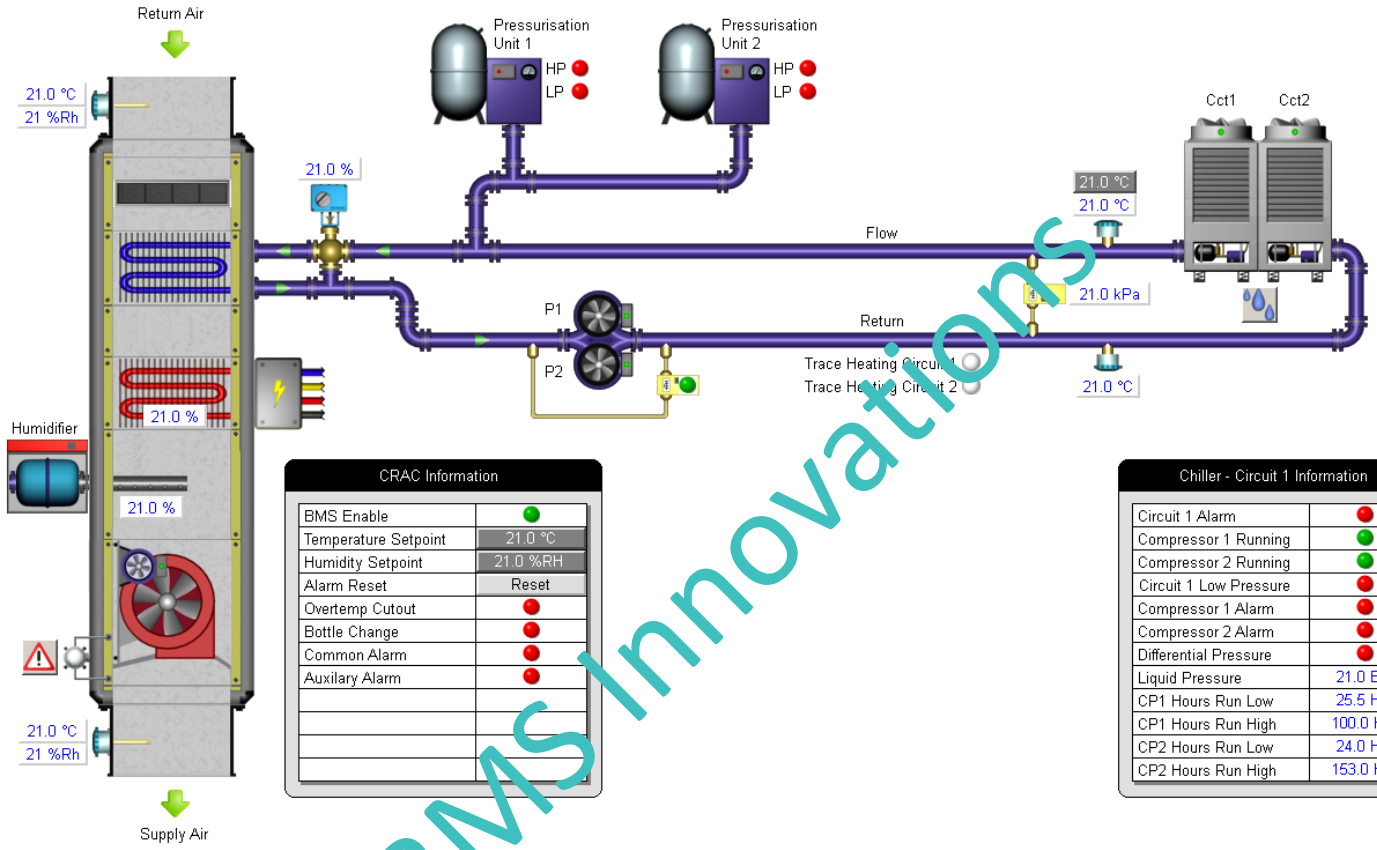
Alarms | CRAC1 | Devices | 11:33 01/11/12 | Outside Air 21.0 °C

Navigation

- Ground Floor Plan
- Computer Room 1
- CRAC1
- CRAC2
- CRAC3
- CRAC4
- CRAC5
- CRAC6
- CRAC7
- CRAC8
- CRAC9
- CRAC10

Sub Menu

- Plant Menus



CRAC Information

BMS Enable	
Temperature Setpoint	21.0 °C
Humidity Setpoint	21.0 %RH
Alarm Reset	Reset
Overtemp Cutout	
Bottle Change	
Common Alarm	
Auxilary Alarm	

Chiller Information

BMS Enable	Enable
Alarm Reset	Reset
Non Critical Alarm	
Critical Alarm	
Evaporator Flow Switch	
Evaporator Flow Alarm	
Serious Flow Alarm	
Emergency Stop	
Comms Failure	
Freeze Protection	
MCCB Alarm	
ChW Pump Duty	Duty-P2
ChW Pump Fault Reset	Resetting

Chiller - Circuit 1 Information

Circuit 1 Alarm	
Compressor 1 Running	
Compressor 2 Running	
Circuit 1 Low Pressure	
Compressor 1 Alarm	
Compressor 2 Alarm	
Differential Pressure	
Liquid Pressure	21.0 Bar
CP1 Hours Run Low	25.5 Hrs
CP1 Hours Run High	100.0 Hrs
CP2 Hours Run Low	24.0 Hrs
CP2 Hours Run High	153.0 Hrs

Chiller - Circuit 2 Information

Circuit 1 Alarm	
Compressor 3 Running	
Compressor 4 Running	
Circuit 2 Low Pressure	
Compressor 3 Alarm	
Compressor 4 Alarm	
Differential Pressure	
Liquid Pressure	21.0 Bar
CP3 Hours Run Low	21.0 Hrs
CP3 Hours Run High	21.0 Hrs
CP4 Hours Run Low	21.0 Hrs
CP4 Hours Run High	21.0 Hrs

BMS Innovations

Graham Vere

963 Communications Simulation Mode

01 November 2012 11:34:47 (Left=147) = 523 = 547

Data Centre Overview
File Mode View User Graphs SMS Database Tools Edit Data recording Zoom Navigation Help
Navigator

Data Centre Overview

PDU A	
BREAKER	
SURGE	ALARM
	AMPS
PHASE 1	21.0
PHASE 2	21.0
PHASE 3	21.0
TOTAL	21.0

PDU B	
BREAKER	ON
SURGE	OK
	AMPS
PHASE 1	21.0
PHASE 2	21.0
PHASE 3	21.0
TOTAL	21.0

AHU 04 AHU 05

DC DOOR AUTO DC FIRE DOOR ALARM

06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

05
04
03
02
01

RACK LAYOUT

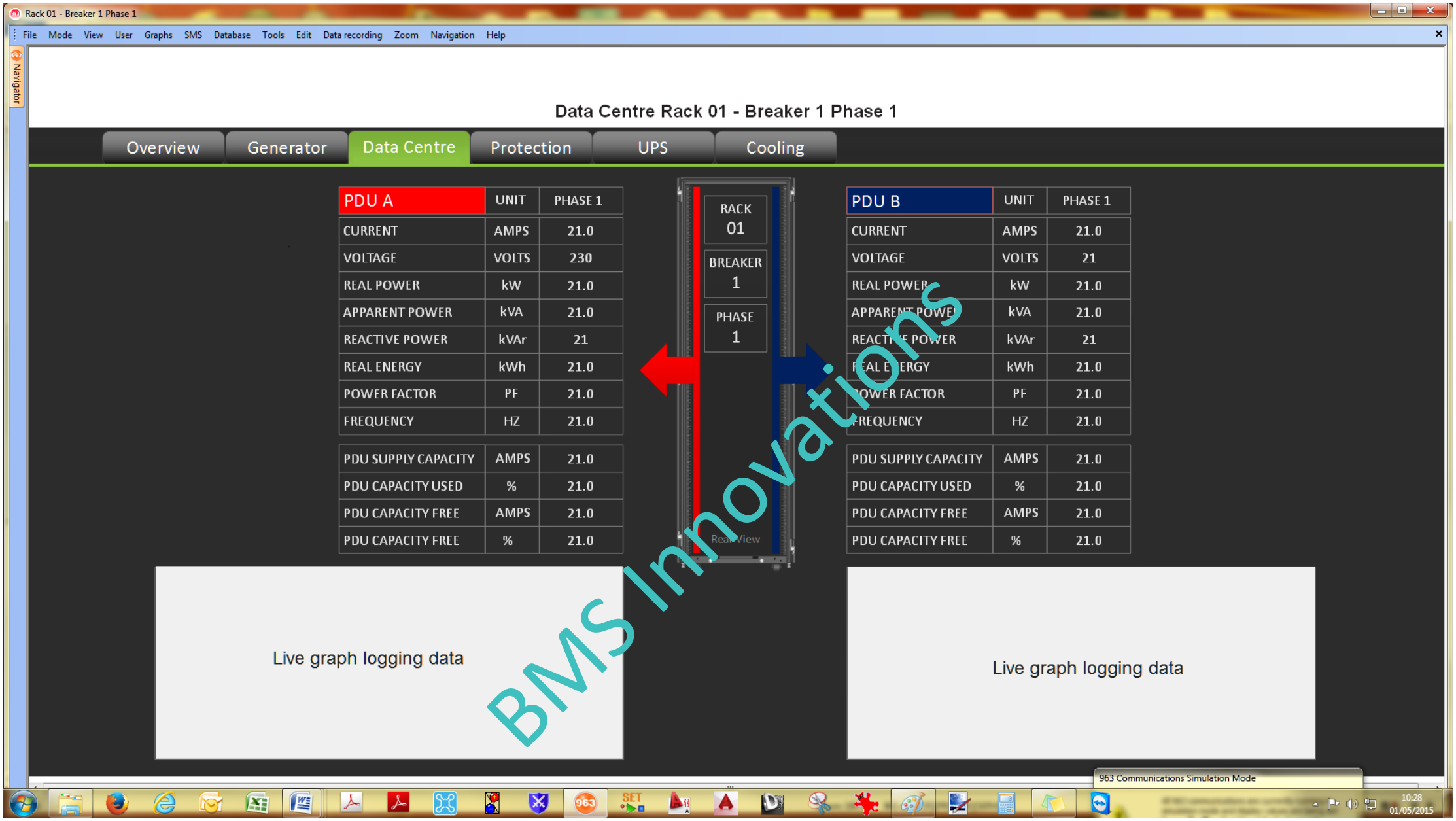
42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24

	RACK	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
	BREAKER	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7
	PHASE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
A	AMPS	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
B	AMPS	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0

	RACK	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
	BREAKER	8	8	8	9	9	9	10	10	10	11	11	11	12	12	12	13	13	13	14	14	14
	PHASE	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
A	AMPS	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
B	AMPS	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0

BMS Innovations

963 Communications Simulation Mode
Default Zoom: 100% 963 v3.60 [R][PROPAK][SERVER]


Rack 01 - Breaker 1 Phase 1
File Mode View User Graphs SMS Database Tools Edit Data recording Zoom Navigation Help
Navigator
Data Centre Rack 01 - Breaker 1 Phase 1
Overview
Generator
Data Centre
Protection
UPS
Cooling
PDU A
UNIT
PHASE 1
CURRENT AMPS 21.0
VOLTAGE VOLTS 230
REAL POWER kW 21.0
APPARENT POWER kVA 21.0
REACTIVE POWER kVAr 21
REAL ENERGY kWh 21.0
POWER FACTOR PF 21.0
FREQUENCY HZ 21.0
PDU SUPPLY CAPACITY AMPS 21.0
PDU CAPACITY USED % 21.0
PDU CAPACITY FREE AMPS 21.0
PDU CAPACITY FREE % 21.0
RACK 01
BREAKER 1
PHASE 1
Real View
PDU B
UNIT
PHASE 1
CURRENT AMPS 21.0
VOLTAGE VOLTS 21
REAL POWER kW 21.0
APPARENT POWER kVA 21.0
REACTIVE POWER kVAr 21
REAL ENERGY kWh 21.0
POWER FACTOR PF 21.0
FREQUENCY HZ 21.0
PDU SUPPLY CAPACITY AMPS 21.0
PDU CAPACITY USED % 21.0
PDU CAPACITY FREE AMPS 21.0
PDU CAPACITY FREE % 21.0
Live graph logging data
Live graph logging data
BMS Innovations
963 Communications Simulation Mode
10:28
01/05/2015

CRAC Generic

File Mode View User Graphs SMS Database Tools Edit Data recording Zoom Navigation Help

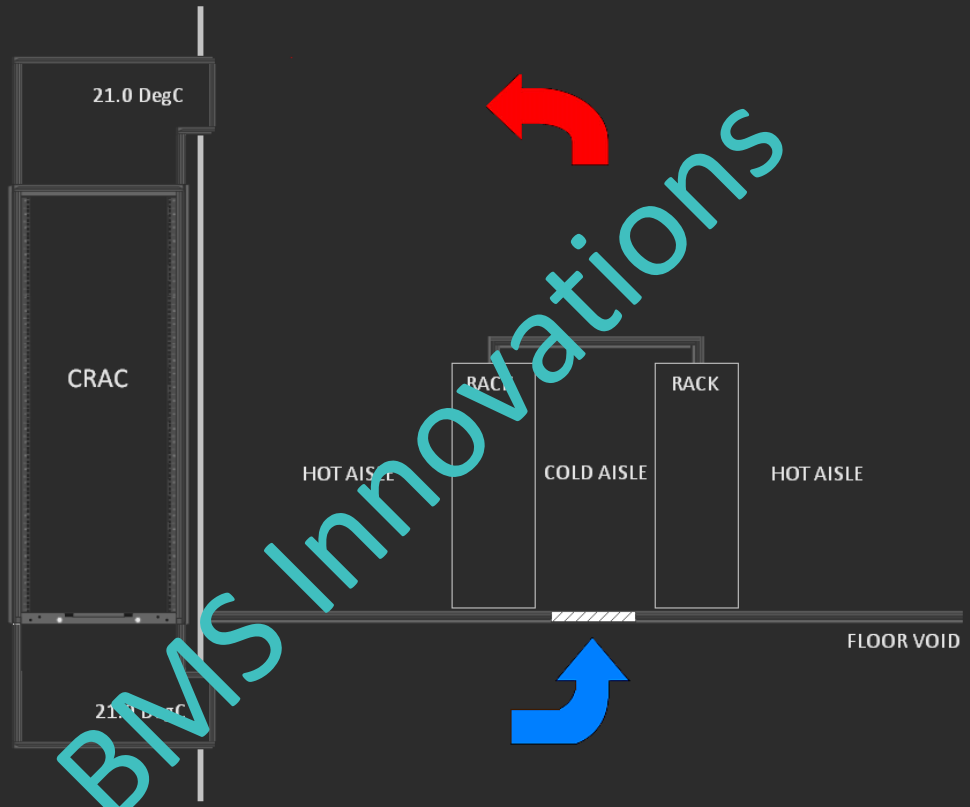
Navigator

Denco AHU4

OS11

Overview | Generator | Data Centre | Protection | UPS | Cooling

	UNIT	
CONTROL TEMPERATURE	DegC	321.7
CONTROL HUMIDITY	%RH	21.0
RETURN AIR TEMPERATURE	DegC	21.0
RETURN AIR HUMIDITY	%RH	21.0
COOLING DEMAND	%	21.0
HEATING DEMAND	%	21.0
HUMIDITY DEMAND	%	21.0
DEHUM DEMAND	%	21.0
AMBICOOL DEMAND	%	21.0
SUPPLY AIR TEMPERATURE	DegC	21.0
WATER TEMPERATURE	DegC	21.0
CONDENSING PRESSURE 1	Bar	21.0
CONDENSING PRESSURE 2	Bar	21.0
TEMPERATURE SETPOINT	DegC	21.0
HUMIDITY SETPOINT	%RH	21.0



BMS Innovations

FAN STATUS	OFF
CRITICAL ALARM STATUS	OK
MAINTENANCE ALARM STATUS	ALARM
RETURN AIR TEMP SENSOR FAIL	ALARM
RETURN AIR HUMIDITY SENSOR FAIL	ALARM
PRESSURE 1 SENSOR FAIL	ALARM
PRESSURE 2 SENSOR FAIL	ALARM
WATER TEMP SENSOR FAIL	ALARM
SUPPLY AIR TEMP SENSOR FAIL	ALARM
SUPPLY AIR HUMIDITY SENSOR FAIL	ALARM
AIR FLOW FAIL ALARM	ALARM
FILTER BLOCKED ALARM	ALARM
WATER DETECTION ALARM	ALARM
AUXILLARY ALARM	ALARM
HIGH CONTROL TEMP ALARM	ALARM
LOW CONTROL TEMP ALARM	ALARM
HIGH CONTROL HUMIDITY ALARM	ALARM
LOW CONTROL HUMIDITY ALARM	ALARM
LOW SUPPLY TEMP ALARM	ALARM
HIGH SUPPLY HUMIDITY ALARM	ALARM
SIP COMMS FAIL	ALARM

Default | Zoom: 100% | 963 v3.60 [R][PROPAK][SERVER] | 963 Communications Simulation Mode