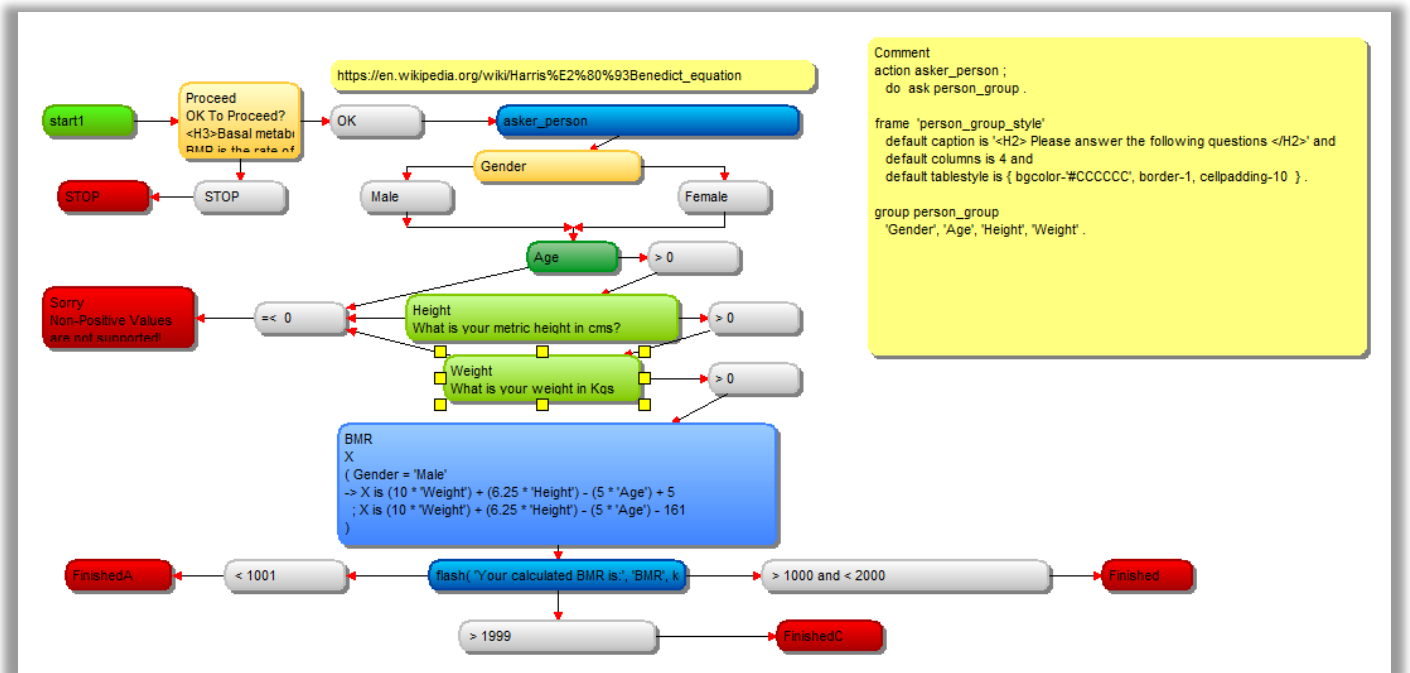
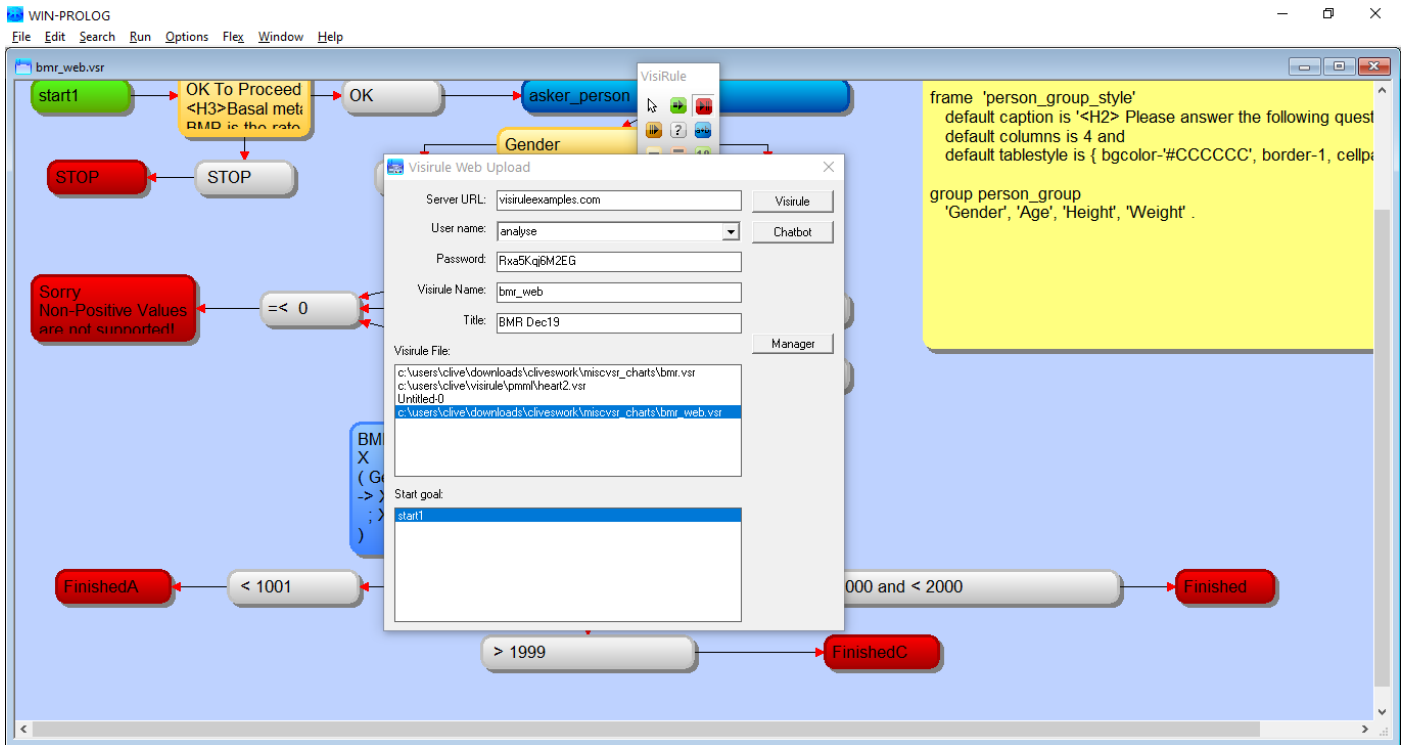


VisiRule Manager & Chart Analytics Jan 30th

We have a VisiRule chart with some questions:



We can publish the chart using the VisiRule Uploader.



You can run the chart on:

<https://visiruleexamples.com/visirule/analyse/webflex.exe?webflex=bmr>

When the chart is published it generates a simple questionnaire for users to complete

The screenshot shows a web browser window displaying the VISIRule application. The URL in the address bar is visiruleexamples.com/vrapp/analyse/webflex.EXE. The page has a blue header with the VISIRule logo and the text "Bmr". There are "Restart" and "Go Back" buttons in the header. A "Theme" dropdown menu is set to "Medical".

The main content area is divided into two sections. On the left, there is a questionnaire with four input fields:

- What Gender are you: Radio buttons for "Male" and "Female" (selected).
- What is your age?: Input field with "65".
- What is your metric height in cms?: Input field with "112".
- What is your weight in Kgs: Input field with "50".

Below the questionnaire, it says "Please answer the following questions" and has a blue "Next" button.

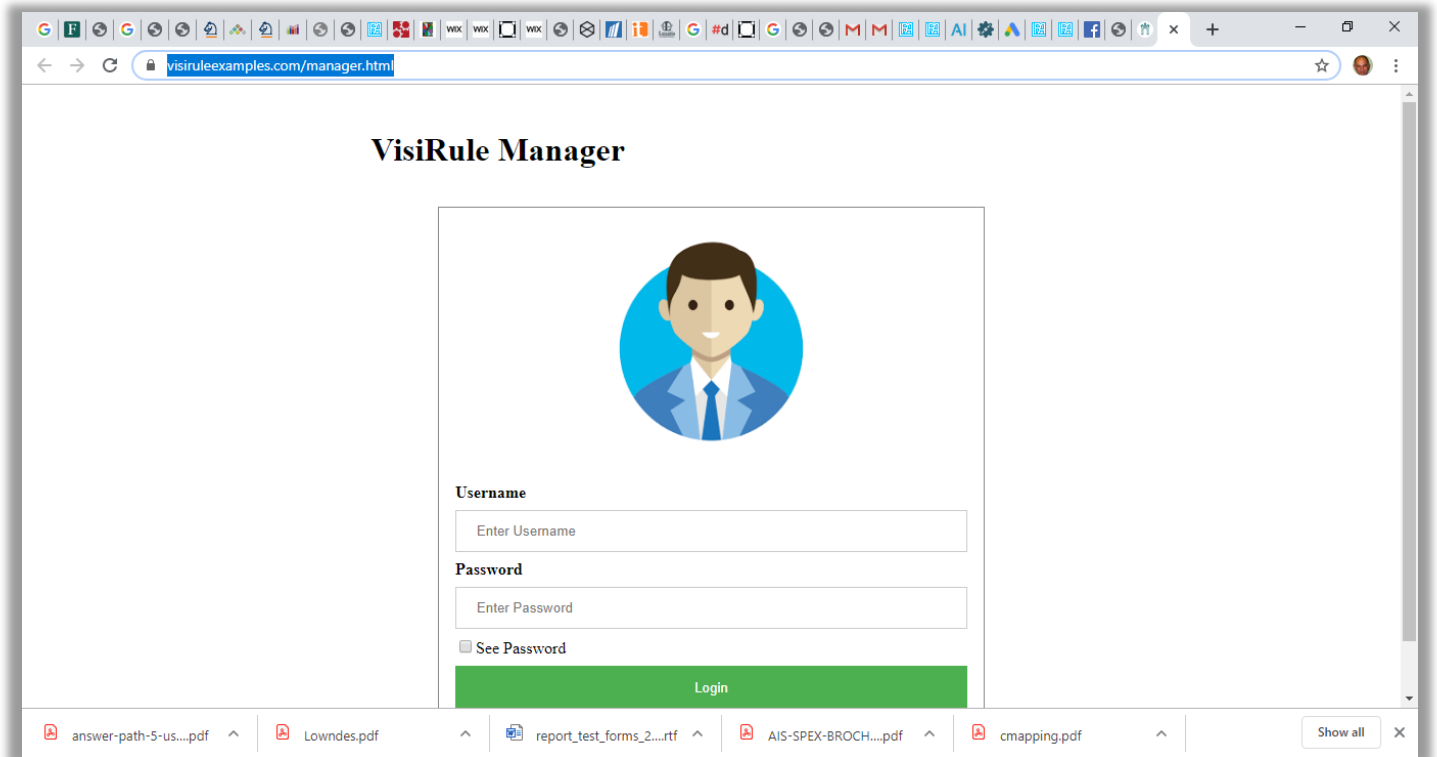
On the right, there is an "Application State" panel. It has a "Questions" section with a table:

Name	Value	Prompt	Explanation
Proceed	OK	OK To Proceed?	Basal metabolic rate (BMR) BMR is the rate of energy expenditure per unit time by endothermic animals at rest. It is reported in energy units per unit time ranging from watt (joule/second) to ml O ₂ /min or joule per hour per kg body mass J/(h·kg). Proper measurement requires a strict set of criteria be met. These criteria include being in a physically and psychologically undisturbed state, in a thermally neutral environment, while in the post-absorptive state (i.e., not actively digesting food). Metabolism comprises the processes that the body needs to function. Basal metabolic rate is the amount of energy per unit time

At the bottom of the browser window, there is a taskbar with several open PDF files: "answer-path-5-us....pdf", "Lowndes.pdf", "report_test_forms_2....rtf", "AIS-SPEX-BROCH....pdf", and "cmapping.pdf". A "Show all" button is visible on the right side of the taskbar.

We can log into the VisiRule Manager from:

<https://visiruleexamples.com/manager.html>



This shows all the models (VisiRule charts) published in this user area.

The screenshot shows a web browser window with the URL `visiruleexamples.com/plg/manager`. The page title is "VRTEST". There are three buttons: "Models", "Log Files", and "Add Model". Below the buttons is a table with the following columns: Model, Size, Hits, First Date, and Last Date. The table lists 14 models, sorted by size in descending order.

Model	Size	Hits	First Date	Last Date
accenture_demo_jan20	2953	1	Mon 20 Jan 2020	Mon 20 Jan 2020
ai_1a	4699	5	Tue 05 Jun 2018	Wed 06 Jun 2018
airhandler_diagnostic_v2	23017	4	Fri 14 Jun 2019	Mon 17 Jun 2019
airhandler_diagnostic_v3	23868	5	Mon 17 Jun 2019	Tue 18 Jun 2019
airhandler_diagnostic_v3_pjm2	22935	0	Mon 17 Jun 2019	Mon 17 Jun 2019
airhandler_diagnostic_v4	1252	27	Wed 19 Jun 2019	Fri 21 Jun 2019
airhandler_diagnostic_v5	33006	31	Sun 23 Jun 2019	Wed 17 Jul 2019
airhandler_diagnostic_v6	42190	9	Thu 27 Jun 2019	Sun 08 Dec 2019
airhandler_v5	26302	18	Wed 11 Jul 2018	Mon 16 Jul 2018
airhandler_v5b	29325	9	Thu 07 Mar 2019	Mon 11 Mar 2019
airhandler_v5c	31654	25	Wed 13 Mar 2019	Sun 08 Dec 2019
annotated_germancredit2	5706	0	Thu 24 Aug 2017	Thu 24 Aug 2017
ask_group	1711	1	Thu 08 Aug 2019	Thu 08 Aug 2019
austrian_intestate	8856	33	Mon 12 Nov 2018	Mon 10 Dec 2018

We can sort by say size or hits

The screenshot shows the same web browser window as above, but the table is sorted by hits in descending order. The page title is "VRTEST" and the buttons are "Models", "Log Files", and "Add Model".

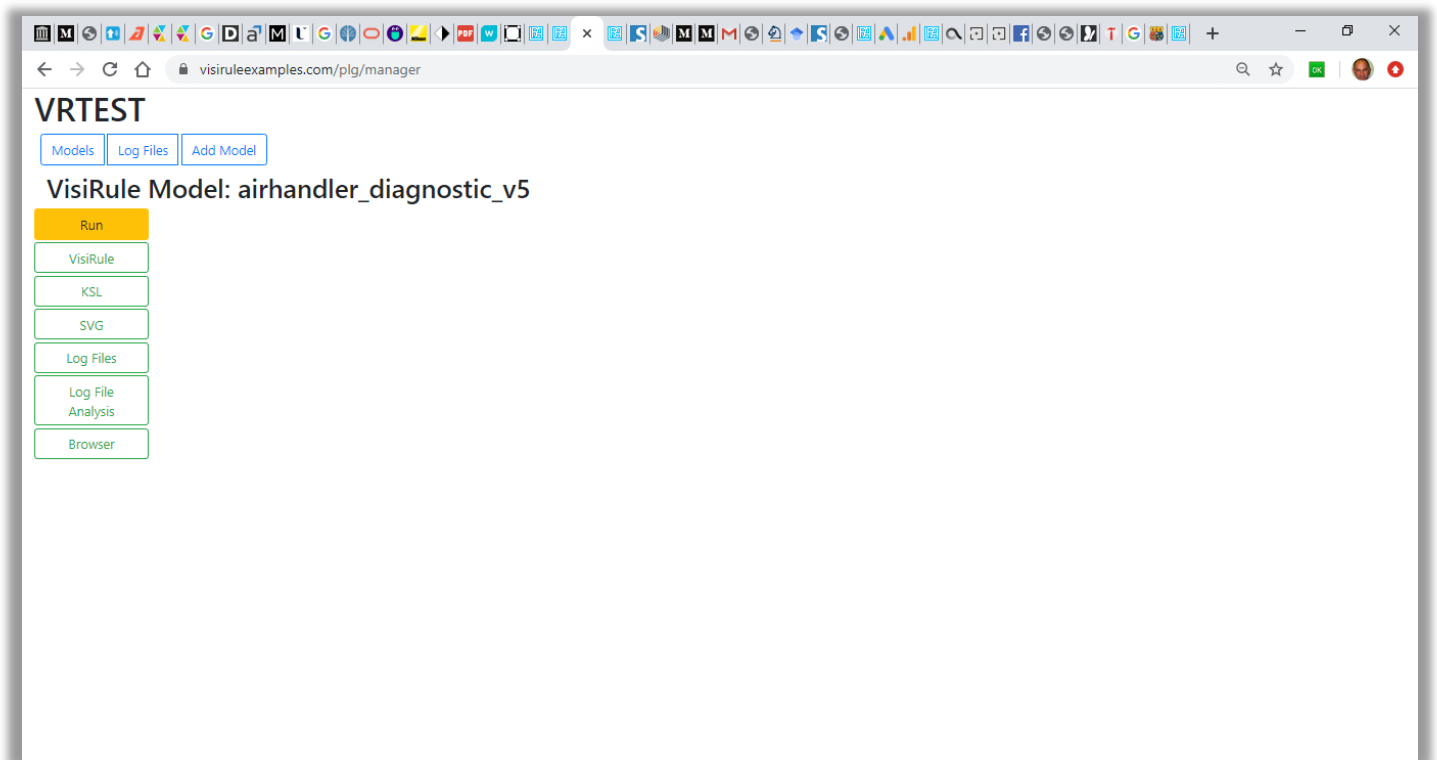
Model	Size	Hits	First Date	Last Date
woundcareexpertsystem	122596	85	Thu 24 Aug 2017	Thu 23 Jan 2020
cs_extra_integrated_eu261	65974	53	Tue 28 Nov 2017	Mon 19 Nov 2018
cs_mrg_tool_1	63745	8	Tue 17 Sep 2019	Mon 30 Sep 2019
extra_integrated_eu261	55684	27	Wed 01 Nov 2017	Thu 02 Nov 2017
cs_merged_dec03_1812	48246	8	Mon 03 Dec 2018	Tue 04 Dec 2018
merged1	46291	32	Wed 21 Nov 2018	Mon 25 Feb 2019
merged	46250	9	Wed 21 Nov 2018	Thu 22 Nov 2018
new_integrated_eu261	43240	2	Tue 12 Sep 2017	Wed 13 Sep 2017
heleportrobertdiagnostic	42863	31	Wed 04 Jul 2018	Mon 23 Jul 2018
airhandler_diagnostic_v6	42190	9	Thu 27 Jun 2019	Sun 08 Dec 2019
diagnosticv2engl	41449	32	Tue 26 Jun 2018	Wed 04 Jul 2018
integrated_eu261	40862	7	Tue 12 Sep 2017	Tue 08 Oct 2019
fab_3	39946	19	Sun 30 Jun 2019	Sat 27 Jul 2019
nec_v3n	38215	7	Mon 11 Nov 2019	Thu 19 Nov 2019

VRTEST

[Models](#) [Log Files](#) [Add Model](#)

Model	Size	Hits	First Date	Last Date
unsure_loan1	9770	278	Tue 16 Jan 2018	Tue 28 Jan 2020
data_loan	6038	99	Wed 27 Jun 2018	Tue 14 Jan 2020
woundcareexpertsystem	122596	85	Thu 24 Aug 2017	Thu 23 Jan 2020
lawns	5242	78	Fri 14 Jun 2019	Fri 10 Jan 2020
country_demo	6581	64	Thu 07 Dec 2017	Mon 14 Jan 2019
hwsv6	17676	54	Fri 04 Oct 2019	Thu 07 Nov 2019
cs_extra_integrated_eu261	65974	53	Tue 28 Nov 2017	Mon 19 Nov 2018
red_flag	9593	53	Fri 14 Jun 2019	Fri 10 Jan 2020
rentorbuy	5323	53	Mon 21 Jan 2019	Fri 17 Jan 2020
fcc_requirements	20037	43	Fri 14 Jun 2019	Fri 13 Sep 2019
intestacy_basic_chart_spouse_and_issue_calcs	15056	42	Fri 14 Jun 2019	Sat 18 Jan 2020
rev_radio_grouped	10142	42	Fri 27 Oct 2017	Fri 02 Feb 2018
testdb	1615	36	Mon 04 Sep 2017	Wed 06 Dec 2017
hrln_tavlah	13647	35	Fri 23 Nov 2018	Mon 07 Jan 2019

Lets select a chart, airhandler_diagnostics_v5



Log File Analysis

Log File Analysis shows various counts and statistics for the questions used across different user sessions

The first tables show counts for all user sessions irregardless of conclusion reached.

The second table shows counts partitioned by reached conclusion (in this case 3).

The screenshot shows a web browser window with the URL `visiruleexamples.com/plg/manager`. The page title is "VRTEST". Below the title, there are navigation buttons: "Models", "Log Files", and "Add Model". The main heading is "VisiRule Model: airhandler_diagnostic_v5".

On the left side, there is a vertical menu with buttons: "Run" (highlighted in orange), "VisiRule", "KSL", "SVG", "Log Files", "Log File Analysis" (highlighted in green), and "Browser".

The main content area is titled "Log Analysis" and contains two tables:

Continuous Questions All

Question	Mean	Maximum	Minimum	Count	σ^2	σ	Conclusion
qVibration_num	86.55	143.00	35.00	31.00	536.38	23.16	-
qTemp2ndTurbineAir_num	85.71	126.00	80.00	31.00	220.85	14.86	-
qTempDuctAir_num	24.71	45.00	12.00	31.00	28.53	5.34	-
qTempBearings_num	52.74	189.00	40.00	31.00	1573.48	39.67	-
NN RUL Prediction	1337.32	1433.00	569.00	31.00	60970.86	246.92	-

Continuous Questions Partitioned

Question	Mean	Maximum	Minimum	Count	σ^2	σ	Conclusion
qVibration_num	35.00	35.00	35.00	2.00	0.00	0.00	Running normally - No faults]
qVibration_num	35.00	35.00	35.00	1.00	0.00	0.00	[ACM - Heat Exchanger Overloaded]
qVibration_num	109.33	143.00	42.00	3.00	2266.89	47.61	[Unknown issue - Unknown fault]
qVibration_num	90.00	90.00	90.00	25.00	0.00	0.00	[Water Separator - Separator filter full]
qTemp2ndTurbineAir_num	80.00	80.00	80.00	2.00	0.00	0.00	Running normally - No faults]
qTemp2ndTurbineAir_num	120.00	120.00	120.00	1.00	0.00	0.00	[ACM - Heat Exchanger Overloaded]
qTemp2ndTurbineAir_num	125.67	126.00	125.00	3.00	0.22	0.47	[Unknown issue - Unknown fault]
qTemp2ndTurbineAir_num	80.00	80.00	80.00	25.00	0.00	0.00	[Water Separator - Separator filter full]
qTempDuctAir_num	25.00	25.00	25.00	2.00	0.00	0.00	Running normally - No faults]
qTempDuctAir_num	45.00	45.00	45.00	1.00	0.00	0.00	[ACM - Heat Exchanger Overloaded]
qTempDuctAir_num	13.33	16.00	12.00	3.00	3.56	1.89	[Unknown issue - Unknown fault]

Continuous Questions are separated from Discrete Questions

Discrete Questions All

Question	Value	Count	Value	Count	Total Counts	Conclusion
AirHandler Flights	Input manually	16	AH003 Flight 31	12	31.00	-
qRULnominal	No	31	-	-	31.00	-
qTemp2ndTurbineAir	medium	27	high	4	31.00	-
qTempDuctAir	comfortable	27	low	3	31.00	-
qBearingsTemperature	low	28	high	2	31.00	-
qVibration2	high	27	low	3	31.00	-
qBearingsTemperature2	low	28	high	2	31.00	-
qVibration	high	27	low	3	31.00	-

Discrete Questions Partitioned

Question	Value	Count	Value	Count	Total Counts	Conclusion
AirHandler Flights	AH001 Flight 25	2	-	-	2.00	Running normally - No faults
AirHandler Flights	AH004 Flight 33	1	-	-	1.00	[ACM - Heat Exchanger Overloaded]
AirHandler Flights	Input manually	3	-	-	3.00	[Unknown issue - Unknown fault]
AirHandler Flights	Input manually	13	AH003 Flight 31	12	25.00	[Water Separator - Separator filter full]
qRULnominal	No	2	-	-	2.00	Running normally - No faults
qRULnominal	No	1	-	-	1.00	[ACM - Heat Exchanger Overloaded]
qRULnominal	No	3	-	-	3.00	[Unknown issue - Unknown fault]
qRULnominal	No	25	-	-	25.00	[Water Separator - Separator filter full]
qTemp2ndTurbineAir	medium	2	-	-	2.00	Running normally - No faults
qTemp2ndTurbineAir	high	1	-	-	1.00	[ACM - Heat Exchanger Overloaded]
qTemp2ndTurbineAir	high	3	-	-	3.00	[Unknown issue - Unknown fault]
qTemp2ndTurbineAir	medium	25	-	-	25.00	[Water Separator - Separator filter full]
qTempDuctAir	comfortable	2	-	-	2.00	Running normally - No faults
qTempDuctAir	high	1	-	-	1.00	[ACM - Heat Exchanger Overloaded]

SVG

visiruleexamples.com/plg/manager

VRTEST

Models Log Files Add Model

VisiRule Model: airhandler_diagnostic_v5

Run Download

VisiRule
KSL
SVG
Log Files
Log File Analysis
Browser

The diagram is a complex flowchart representing a diagnostic model for an airhandler. It is organized into several main sections. On the left, there are five vertical columns, each representing a different diagnostic path or sensor input. Each column starts with a 'Main Diagnostic Function' node (orange) and branches into several sub-diagnostic functions (blue and green). The central and right sections of the diagram are more complex, featuring a large 'Main Diagnostic Function' node (orange) that branches into multiple sub-diagnostic functions (blue and green). These sub-diagnostic functions are further divided into smaller nodes, some of which are labeled with specific diagnostic steps or sensor readings. The diagram uses a color-coding system: orange for main functions, blue for sub-diagnostic functions, green for sensor readings, and grey for intermediate logic or data flow. Arrows indicate the direction of the diagnostic process, showing how data from sensors and sub-diagnostic functions is processed to reach a final diagnostic conclusion.

VisiRule

Shows the char exported as a table

VRTEST

Models Log Files Add Model

VisiRule Model: airhandler_diagnostic_v5

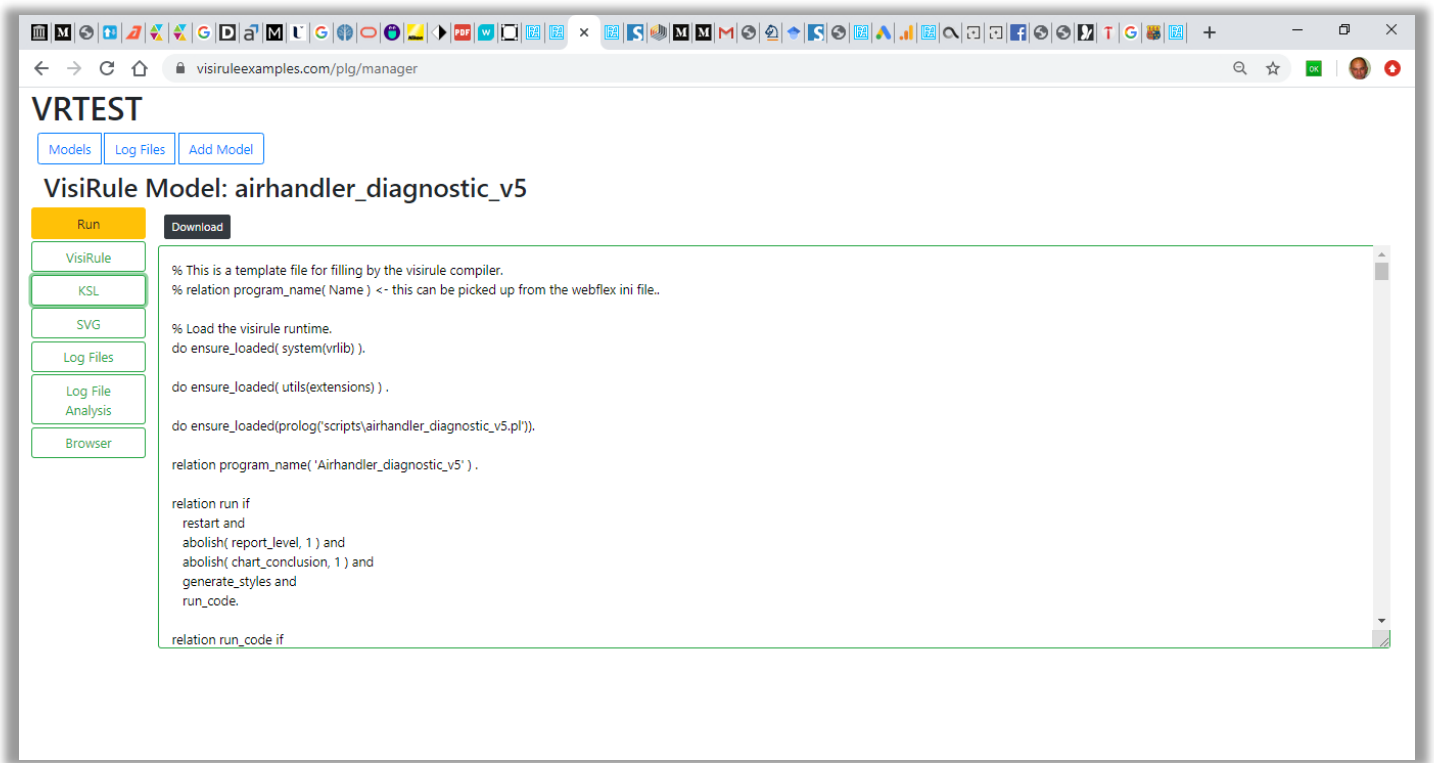
Run Download

VisiRule KSL SVG Log Files Log File Analysis Browser

Id	Type	Name	Prompt	Explanation	Connected To	Linked From
1	start	Input 2nd Turbine Temperature			2	
3	start	Input Duct Air Temperature			4	
5	start	Input Bearings Temperature			6	
7	start	Input Sensor Readings			8	
9	start	Input RUL Prediction			10	
11	start	start Diagnostic system			12	
13	start	Run Diagnostic Ruleset			14	
15	continue	Input 2nd Turbine Temperature				16
17	continue	Input Bearings Temperature				18
19	continue	Input Duct Air Temperature				20
21	continue	Input RUL Prediction				22
23	continue	Run Diagnostic Ruleset				24
25	continue	Input Sensor Readings				26 27
28	statement	s2	Y	(qTemp2ndTurbineAir_num < 60 -> Y = 'low'; qTemp2ndTurbineAir_num < 100 -> Y = 'medium'; Y = 'high')	29 30 31	32
33	statement	s3	W	(qTempBearings_num < 50 -> W = 'low';	34 35 36	37

KSL

Shows the Fex KSL code which is generated



The screenshot shows a web browser window with the URL `visiruleexamples.com/plg/manager`. The page title is "VRTEST". Below the title are three buttons: "Models", "Log Files", and "Add Model". The main heading is "VisiRule Model: airhandler_diagnostic_v5".

On the left side, there is a vertical menu with the following items: "Run" (highlighted in orange), "Download" (black), "VisiRule", "KSL" (highlighted in green), "SVG", "Log Files", "Log File Analysis", and "Browser".

The main content area displays the generated KSL code:

```
% This is a template file for filling by the visirule compiler.
% relation program_name( Name ) <- this can be picked up from the webflex ini file.

% Load the visirule runtime.
do ensure_loaded( system(vrilib) ).

do ensure_loaded( utils(extensions) ) .

do ensure_loaded(prolog('scripts\airhandler_diagnostic_v5.pl')).

relation program_name( 'Airhandler_diagnostic_v5' ) .

relation run if
  restart and
  abolish( report_level, 1 ) and
  abolish( chart_conclusion, 1 ) and
  generate_styles and
  run_code.

relation run_code if
```

Log Files

This shows individual sessions in a table for different days

The screenshot shows the VRTEST web application interface. At the top, there are navigation buttons for 'Models', 'Log Files', and 'Add Model'. Below this, the current model is identified as 'VisiRule Model: airhandler_diagnostic_v5'. A sidebar on the left contains buttons for 'Run', 'VisiRule', 'KSL', 'SVG', 'Log Files' (highlighted), 'Log File Analysis', and 'Browser'. The main content area features a 'Download' button and a table of log entries.

Date	Time	Model	Question Path	Globals	Conclusion	IP Address	User Agent
Sun 23 Jun 2019	19:56:00	Airhandler_diagnostic_v5	qVibration_num	90	[Water Seperator - Seperator filter full]	73.63.29.141	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/64.0.3282.140 Safari/537.36 Edge/18.17763
			qTemp2ndTurbineAir_num	80			
			qTempDuctAir_num	25			
			qTempBearings_num	40			
			NN RUL Prediction	1405			
			AirHandler Flights	AH003 Flight 31			
			qRULnominal	No			
			qTemp2ndTurbineAir	medium			
			qTempDuctAir	comfortable			
			qBearingsTemperature	low			
qVibration2	high						
qBearingsTemperature2	low						
qVibration	high						
Sun 23 Jun 2019	20:02:21	Airhandler_diagnostic_v5	qVibration_num	90	[Water Seperator - Seperator filter full]	73.63.29.141	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/64.0.3282.140 Safari/537.36 Edge/18.17763
			qTemp2ndTurbineAir_num	80			
			qTempDuctAir_num	25			
			qTempBearings_num	40			
			NN RUL Prediction	1405			

Notes:

Access to the underlying data in a variety of formats will be available thru a rest Service and download option

The ability to select date ranges will be supported.