

Development and Solutions

CustardWare V7

Scalability and Design into the future

Development and Solutions

V7 CustardWare greatly extends the operation and functionality of our software it provides:

- Greatly enhanced user interface.
- Higher cost effectiveness.
- Efficient, powerful and intuitive operation.
- Lower cost flexible and highly customizable design.
- Managed service, reduces hidden staff costs.
- Fast delivery and excellent support

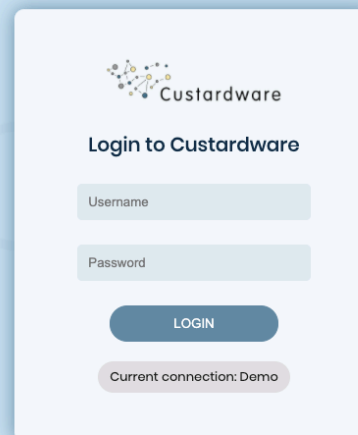
“We need something that is future proofed and adaptable – CustardWare is our answer.”

Head of Internet Operations – Large Delivery Company

Version 7.0 CustardWare is the latest version of our software. This is a development platform and will provide a new release around the 3rd quarter of 2021. Our development methodology allows us to integrate useful features back into earlier versions.

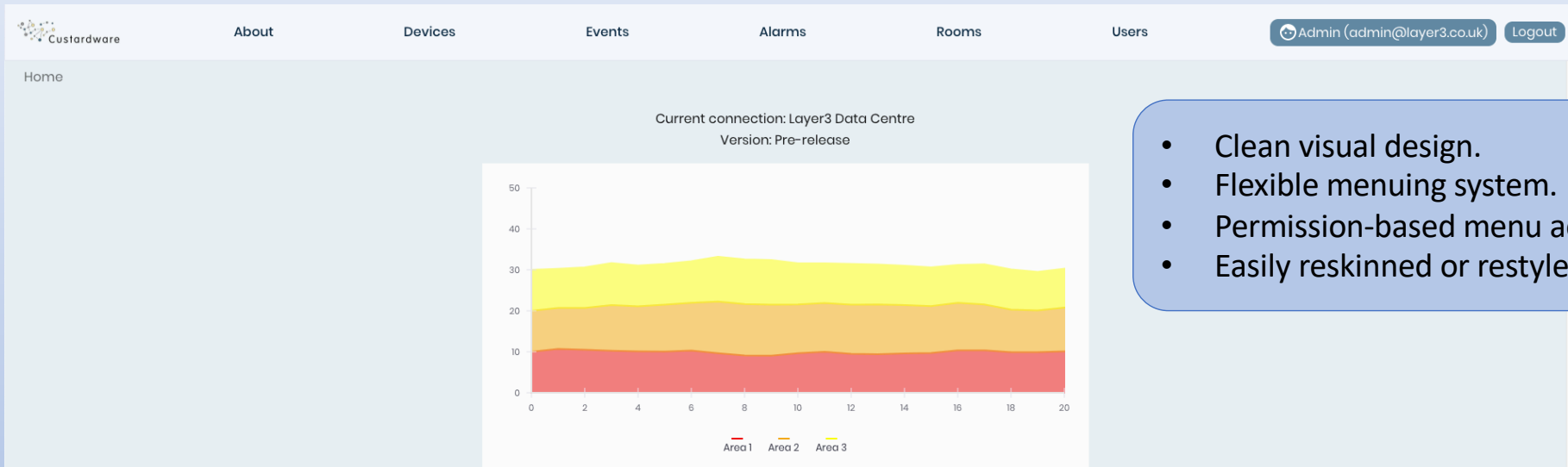
Version 7.0 CustardWare features:

- A new layout and design.
- Flexible and adaptable front end.
- Support for more scalable operation.
- Enhanced graphics capability.
- Better user access control.



The screenshot shows a login page for CustardWare. At the top is the CustardWare logo, which consists of a cluster of small colored dots forming a network-like shape, followed by the text 'Custardware'. Below the logo is the heading 'Login to Custardware'. There are two input fields: 'Username' and 'Password', both with light blue borders. Below these fields is a dark blue 'LOGIN' button. At the bottom of the form, there is a small grey box containing the text 'Current connection: Demo'.

Version 7.0 CustardWare offers a more adaptable front end where we can quickly create custom pages to meet any requirements.



- Clean visual design.
- Flexible menuing system.
- Permission-based menu access.
- Easily reskinned or restyled.

Graphs, for example, become multi-layer objects making it possible to remove or add layers of data so detail can be viewed more easily.

Version 7.0 CustardWare provides a powerful platform for developing future solutions. In the past we have used CustardWare to implement solutions in many different scenarios, from data collection through to system control and into web-based applications. If you have a data capture, storage and handling problem you should talk to us!

Custardware [About](#) [Devices](#) [Events](#) [Alarms](#) [Rooms](#) [Users](#) Admin (admin@layer3.co.uk) Logout

Home > Users

User List

Search Page 1 of 4 [<](#) [>](#) Show 10 [⚙️](#)

Username	Full Name	Enabled	Administrators	Create devices	View devices	Manage devices	Actions
heather01	Heather Lumby	●	●	●	●	●	
demo1@layer3.c...	Demo1	●	●	●	●	●	
demo2@layer3.c...	Demo2	●	●	●	●	●	
demo3@layer3.c...	Demo3	●	●	●	●	●	
demo4@layer3.c...	Demo4	●	●	●	●	●	
admin@layer3.c...	Admin	●	●	●	●	●	
dragoi01	Idris Dragon	●	●	●	●	●	
dufourc	Clément Dufour	●	●	●	●	●	
fefeff	Josh Douglas	●	●	●	●	●	
foxf01	Fox Moulder 10	●	●	●	●	●	

Version 7.0 CustardWare provides a precise control over users and how they can access the contents of the system. This is achieved by the use of hierarchies and groups.

The screenshot displays the 'Users' management interface in CustardWare V7.0. At the top, there is a navigation bar with links for 'About', 'Devices', 'Events', 'Alarms', 'Rooms', and 'Users'. The user is logged in as 'Admin (admin@layer3.co.uk)'. The main content area is titled 'User List' and features a search bar, pagination controls (Page 1 of 4, Show 10), and a table of users. A 'Hide/Show Columns' panel is open, allowing users to toggle the visibility of various columns in the table.

Username	Create devices	View devices	Manage devices	Actions
heather01	●	●	●	🗑️ ↶
demo1@layer3.c...	●	●	●	🗑️ ↶
demo2@layer3.c...	●	●	●	🗑️ ↶
demo3@layer3.c...	●	●	●	🗑️ ↶
demo4@layer3.c...	●	●	●	🗑️ ↶
admin@layer3.c...	●	●	●	🗑️ ↶
dragoi01	●	●	●	🗑️ ↶
dufourc	●	●	●	🗑️ ↶
fefefeff	●	●	●	🗑️ ↶
foxf01	●	●	●	🗑️ ↶

Hide/Show Columns

- Username
- Full Name
- Enabled
- Administrate users
- Create devices
- View devices
- Manage devices
- Actions

SAVE AS PREFERENCES

In Version 7.0 CustardWare all tables can be configured to hide or reveal columns. This makes it possible for users to focus on the detail they need and to work more efficiently.

Custardware **About** **Devices** **Events** **Alarms** **Rooms** **Users** Admin (admin@layer3.co.uk) Logout

Home > Devices

Device List

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Model ID	Model Name	Model Type	Actions
388578484	Switch01.layer3.co.uk	o_SNMPdevices	
891	MDU-A001	o_SNMPdevices	
34327051	Switch02.layer3.co.uk	o_SNMPdevices	
34338611	Big-Switch-MEF-D11	o_SNMPdevices	
209005171	MEF-DVN-P2	o_SNMPdevices	
195281491	MEF-DVN-P3	o_SNMPdevices	
381782142	MEF-XC1-PA	o_SNMPdevices	
209005271	MEF-XC2-PB	o_SNMPdevices	
195273811	MEF-QX1	o_SNMPdevices	
195273821	MEF-QX2	o_SNMPdevices	

Version 7.0 CustardWare still provides the same simple structure of information but using a more modern interface.

Search functionality has been enhanced and columns can be used to order data, making searches easier and faster to carry out.

Greater use is now being made of simpler icon based controls.

The screenshot displays the CustardWare V7.0 interface for a device named 'MEF-DVNI-P2 (Switch)'. The interface includes a navigation menu at the top with options like 'About', 'Devices', 'Events', 'Alarms', 'Rooms', and 'Users'. A user is logged in as 'Admin (admin@layer3.co.uk)'. The main content area shows a table of network interfaces with columns for Name, VRF, Alias, MTU, Speed, Duplex, POE, Address, Connects to, VLANs, LAG, and Outbound Rate. A 'Hide/Show Columns' dialog box is open, allowing users to toggle the visibility of various columns. The table shows several GigabitEthernet interfaces with their respective configurations and status indicators.

Name	VRF	Alias	MTU	Speed	Duplex	POE	Address	Connects to	VLANs	LAG	Outbound Rate
GigabitEthernet0/0/0			1500	100M	H	●	ce60058d321f	MEF-XC01			
GigabitEthernet0/0/1			1500	1G	U	●	ce60058d321g				
GigabitEthernet0/0/2		MEF-XC0/43	1500	1G	U	●	ce60058d321h	MEF-XC02	1 884	Laq1 Laq2	
GigabitEthernet0/0/3		MEF-XC0/44	1500	1G	U	●					
GigabitEthernet0/1/0			1500	1G	U	●					
GigabitEthernet0/1/1		MEF-XC0/45	1500	1G	U	●					

Version 7.0 CustardWare still offers the same level of detail including a comprehensive breakdown of features and their state within a device. Where appropriate CustardWare provides small live thumbnail graphs and the ability to click through devices to get at other connected devices or other levels of data.

The ability to hide unwanted columns makes studying detail faster and easier and gives users a way to customize views when regularly reviewing specific areas of configurations.



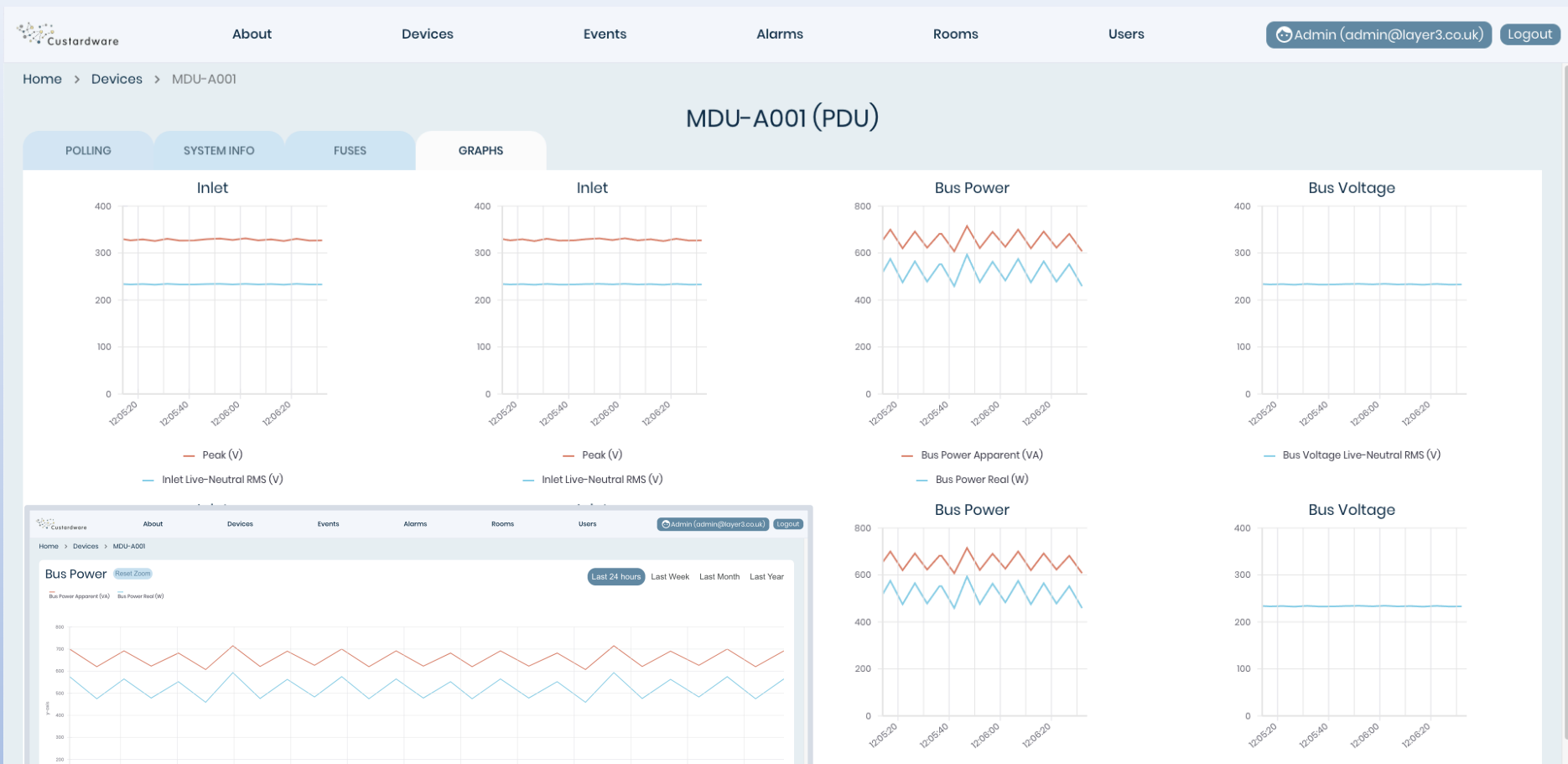
Version 7.0 CustardWare gives a richer set of functionality around graphs. Multiple traces can be viewed on a single graph and each trace can easily be switched on and off.

The screenshot displays the CustardWare V7.0 interface for a device named MDU-A001 (PDU). The main view is divided into four tabs: POLLING, SYSTEM INFO, FUSES, and GRAPHS. The SYSTEM INFO tab is active, showing a table of device details. A smaller inset window shows the FUSES tab, which displays a grid of 14 fuses for two units. The status of each fuse is indicated by a power button icon, which is green for 'on' and red for 'off'.

ID	132495221
Device name	MEF-XQ1
Polling enabled	yes
IP Address	192.168.19.201
SNMP Version	2c
Community string	aCOMMunityStriNg
SSH username	
SSH password	

Unit No.	In		Fuses														
	1	2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌
2	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌	🔌

Version 7.0 CustardWare will handle many different types of device. It provides custom displays for specialist devices such as Mains Distribution Units. It uses powerful dynamic graphics to present the state of areas of interest within the device, such as fuse arrays.



Version 7.0 CustardWare can display multiple graphs for a device allowing quick understanding of the state of operation. Graph drill in is available to gain a clearer view, with options for the last day, week, month or year.

Home > Events

Event List

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Event	Timestamp	Device	Element	Description	Object Type	State	Details
14930	2020-08-09 14:52:13	MEF-XCI-PA01	mgmt0	Outgoing dropped packet rate normal	Interface	OK	
14929	2020-08-09 14:52:13	MEF-XCI-PA02	mgmt0	Outgoing bandwidth utilisation normal	Interface	OK	
14928	2020-08-09 14:52:13	MEF-XCI-PA03	mgmt0	Incoming dropped packet rate normal	Interface	OK	
14927	2020-08-09 14:53:46	MEF-XCI-PA04	GV-CTRL	Incoming dropped packet rate normal	Interface	OK	VLAN GV-CTRL
14926	2020-08-09 14:59:12	MDU-05	TW Name Unit 1 (1)	Temperature normal	Bryant 1-Wire Sensor	OK	Location: CROOM-32-A2
14925	2020-08-09 15:09:53	MDU-06	Unit 1 Bus 1	Voltage below warning threshold of 216.2Volts	Bryant Mains Bus	Minor	Location: CROOM-32-A3
14924	2020-08-09 15:24:22	MEF-XCI-PA05	TenGigabitEthernet2/0/3	Outgoing dropped pkt rate exceeds Critical threshold of 5 pkt/s	Interface	Major	LINK to LUD-CR8-FWI int gi0/3
14923	2020-08-09 15:24:22	MEF-XCI-PA06	TenGigabitEthernet0/3	Outgoing dropped packet rate normal	Interface	OK	LINK to LUD-CR8-FWI int gi0/2
14922	2020-08-09 15:29:23	MEF-XCI-PA07	TenGigabitEthernet0/2	Outgoing dropped packet rate normal	Interface	OK	
14921	2020-08-09 15:29:23	MEF-XCI-PA08	Port-channel	Outgoing dropped packet rate normal	Interface	OK	

Version 7.0 CustardWare supports Eventing and Alerting, providing the means to warn of changes in the environment that may indicate an emerging problem.

Home > Alarms

Alarm List

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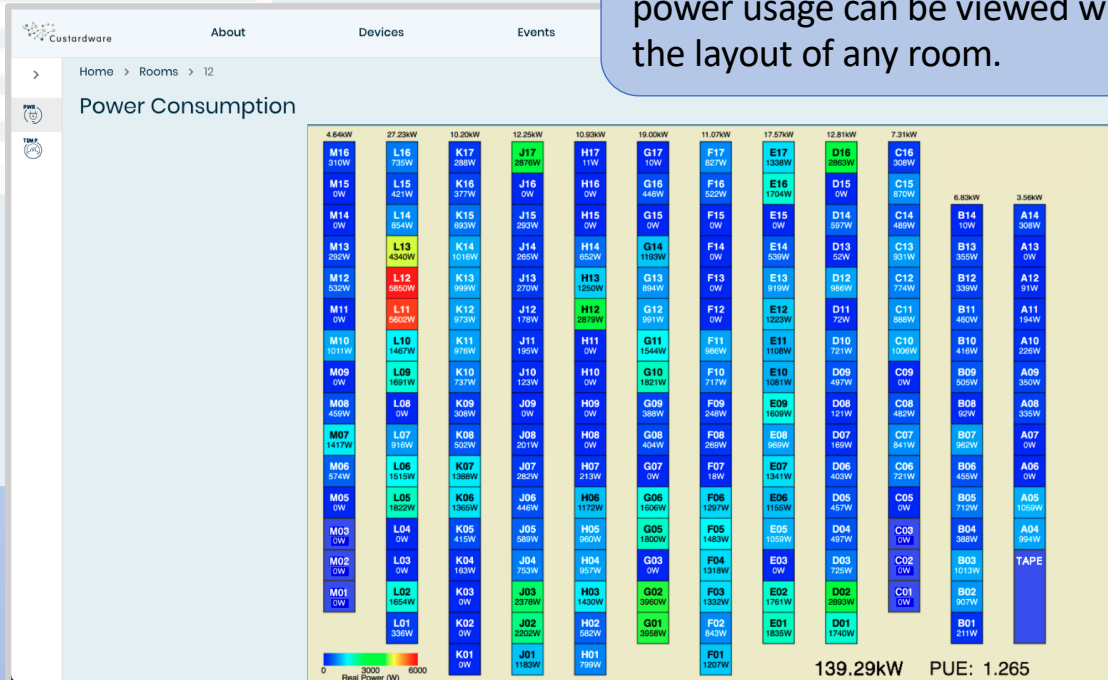
Alarm	Timestamp	Device	Element	Description	Object Type	State	Details
4655941	2020-08-17 14:36:15	MEF-01-XS1	GigabitEthernet0/11	Interface operationally down	Interface	Critical	CR Admin engineer access
4655951	2020-08-17 14:36:15	MEF-01-XS2	GigabitEthernet0/12	Interface operationally down	Interface	Critical	CR Admin engineer access
4655921	2020-08-17 14:38:09	MEF-01-XS3	GigabitEthernet8	Interface operationally down	Interface	Critical	MDU-2
4655671	2020-08-17 13:33:44	MEF-01-XS4	GigabitEthernet9	Incoming dropped pkt rate exceeds Critical threshold: 20 pkt/s	Interface	Major	CROOM8
4655691	2020-08-17 13:33:44	MEF-01-XS5	GigabitEthernet10	Incoming dropped pkt rate exceeds Warning threshold: 10 pkt/s	Interface	Minor	
4655711	2020-08-17 13:33:44	MEF-01-XS6	GigabitEthernet11	Incoming dropped pkt rate exceeds Warning threshold: 10 pkt/s	Interface	Minor	
4655721	2020-08-17 13:33:44	MEF-01-XS7	Ethernet3/3	Incoming dropped pkt rate exceeds Critical threshold: 20 pkt/s	Interface	Major	CROOM9
4655641	2020-08-17 13:32:19	MEF-01-XS8	Ethernet1/27	Interface operationally down	Interface	Critical	XPSI-B3/56
4655651	2020-08-17 13:32:19	MEF-01-XS9	Ethernet1/1	Interface operationally down	Interface	Critical	CROOM10
4655661	2020-08-17 13:32:19	MEF-01-XS10	GigabitEthernet0/19	Interface operationally down	Interface	Critical	CROOM11

Custardware About Devices Events Alarms Rooms Users Admin (admin@layer3.co.uk) Logout

Home > Rooms

Room List

Room	Room Power PUE
ARG06	6.58kW
WTA1	694.2W
WTA2	
MAR11	
MAR12	
JAR5	
JAR6	
JAR17	
NEP13	



Version 7.0 CustardWare supports room monitoring, temperature, humidity and power usage can be viewed with a model of the layout of any room.

Summary

- CustardWare is cost-effective, efficient and powerful.
- Intuitive and easy to use.
- It is vendor-neutral and extendable.
- It is highly automated.
- Provided as a fully managed service by Layer3:
 - Requiring no day to day maintenance or management by internal staff.
 - You don't need specialist staff or people dedicated to integrating or supporting the tool.
- CustardWare has an excellent track record:
 - 20+ years of development and use.
 - Developed under active use in monitoring or tackling existing or emerging real customer problems.

Any Questions?

- We would be pleased to answer questions and explore possible use cases:
 - [email vivg@layer3.co.uk](mailto:vivg@layer3.co.uk)
 - or call 0208 769 4484.
- Please contact us directly if you have more in depth questions or would like to discuss requirements or ideas in more detail.
- Demonstrations can be arranged at your request...

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