



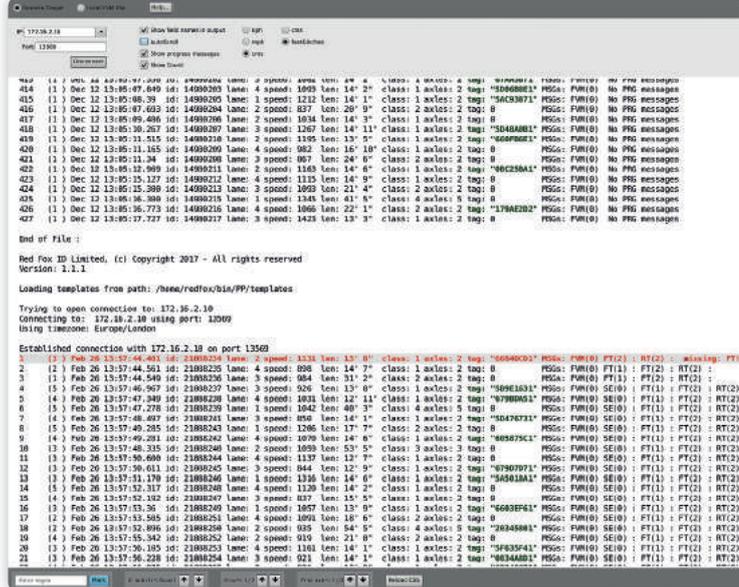
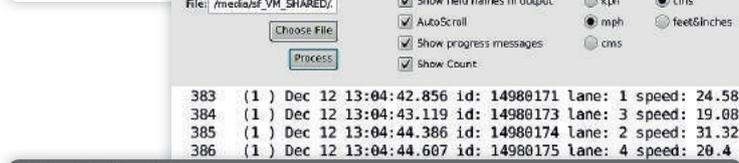
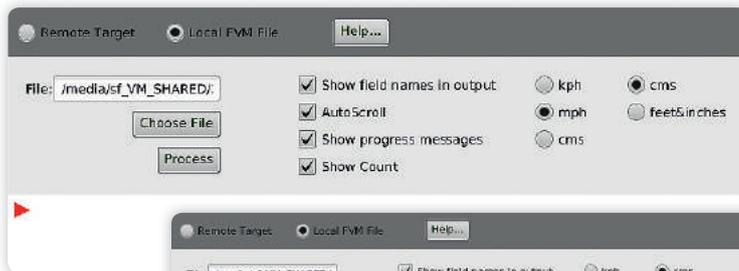
# Quantum Format

## DATA CONVERSION TOOL

Quantum Format is one of the tools from the Quantum Toolkit Suite, with a comprehensive User Manual, the application has been developed to enable real-time or live monitoring of a production site. Quantum Format has a powerful search mechanism for data analysis and auditing purposes. The application converts the Quantum Final Vehicle Message (FVM) into a CVS format, human readable (customisable) text format in a scrollable, searchable display or custom text format to feed into external data processing or display tools.

Using Java version 8 or above, Quantum Format runs on a customers' laptop and processes the same messages seen by a Lane Controller process. It connects to the output of Quantum converting the streaming information into the desired format. The application is highly flexible and customisable and allows customers to write new or modify existing templates to suit individual requirements. Quantum Format supports translation into other languages. Users can specify the 'time zone' to match up data streams coming in.

Quantum Format is a powerful and useful fault monitoring tool available to our AVC field and system engineers.



383	(1)	Dec 12 13:04:42.856	id: 149880171	lane: 1	speed: 24.58	len: 446	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages
384	(1)	Dec 12 13:04:43.119	id: 149880173	lane: 3	speed: 19.08	len: 433	class: 1	axles: 2	tag: "5D0C1171"	MSGs: FVM(0)	No PRG messages
385	(1)	Dec 12 13:04:44.386	id: 149880174	lane: 2	speed: 31.32	len: 437	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages
386	(1)	Dec 12 13:04:44.607	id: 149880175	lane: 4	speed: 20.4	len: 465	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages
442	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages	len: 434	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages
443	class: 1	axles: 2	tag: "6749D9A1"	MSGs: FVM(0)	No PRG messages	len: 442	class: 1	axles: 2	tag: "6749D9A1"	MSGs: FVM(0)	No PRG messages
375	class: 1	axles: 2	tag: "59DF94E1"	MSGs: FVM(0)	No PRG messages	len: 375	class: 1	axles: 2	tag: "59DF94E1"	MSGs: FVM(0)	No PRG messages
479	class: 1	axles: 2	tag: "66893F41"	MSGs: FVM(0)	No PRG messages	len: 479	class: 1	axles: 2	tag: "66893F41"	MSGs: FVM(0)	No PRG messages
453	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages	len: 453	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages
436	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages	len: 436	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages
428	class: 1	axles: 2	tag: "5BA42071"	MSGs: FVM(0)	No PRG messages	len: 428	class: 1	axles: 2	tag: "5BA42071"	MSGs: FVM(0)	No PRG messages
1646	class: 4	axles: 4	tag: "27B3E34"	MSGs: FVM(0)	No PRG messages	len: 1646	class: 4	axles: 4	tag: "27B3E34"	MSGs: FVM(0)	No PRG messages
1682	class: 4	axles: 5	tag: 0	MSGs: FVM(0)	No PRG messages	len: 1682	class: 4	axles: 5	tag: 0	MSGs: FVM(0)	No PRG messages
393	class: 2	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages	len: 393	class: 2	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages
399	class: 1	axles: 2	tag: "676CF331"	MSGs: FVM(0)	No PRG messages	len: 399	class: 1	axles: 2	tag: "676CF331"	MSGs: FVM(0)	No PRG messages
539	class: 2	axles: 2	tag: "5D0E6821"	MSGs: FVM(0)	No PRG messages	len: 539	class: 2	axles: 2	tag: "5D0E6821"	MSGs: FVM(0)	No PRG messages
417	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages	len: 417	class: 1	axles: 2	tag: 0	MSGs: FVM(0)	No PRG messages
416	class: 1	axles: 2	tag: "581B5F31"	MSGs: FVM(0)	No PRG messages	len: 416	class: 1	axles: 2	tag: "581B5F31"	MSGs: FVM(0)	No PRG messages
1563	class: 4	axles: 4	tag: 0	MSGs: FVM(0)	No PRG messages	len: 1563	class: 4	axles: 4	tag: 0	MSGs: FVM(0)	No PRG messages

TOP LEFT: This shows the main screen of Quantum Formats (QF) GUI tool where you can select either a target to connect onto or select a local Final Vehicle Message (FVM) file for QF to open.

ABOVE: This shows the end of a local FVM file after being read by QF. Once you select the file just select the options you require from the radio buttons and then click process.

LEFT: This shows QF connected to a live production site, converting the Quantum output into human readable form in real-time.

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Quantum ® is the registered trade mark of Red Fox ID Limited. Other trade marks are the property of their respective owners. The Quantum ® system is subject to the following patent applications: UK 1503692.4. Further applications pending.

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