



# Accident Management System (AMS)

Capable of operating within an Integrated Management System, Accident Manager is also available as a separate standalone module. In this mode, the software allows the user to:

- Import & Validate accident data;
- Fit accident data to a highway network (either NSG or Road /Section);
- Summarise, Query and Report Accident data;
- Perform cluster analysis;
- Calculate accident rates together; and Analyse Accident data against Road Condition Datasets, including SCRIM and Surface Texture.

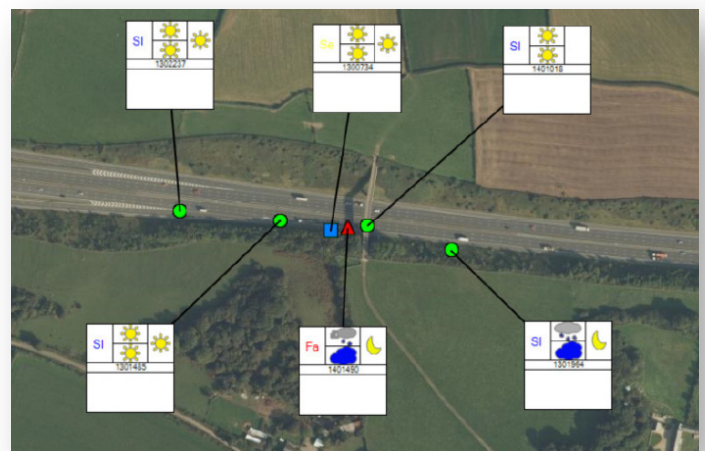
Data is imported by the accident import module. This can be direct from the police authority via the Department of Transport's Stats 19 specification, using either of the last three quinquennial review formats including 2005.

Alternatively, data may be imported using WDM® own accident import format. The accident import routine validates the data and provides reports to facilitate quick and easy cleansing.

Once imported and validated, the Fit Module is used to fit the accident data to the network

used by the WDM® Pavement Management System (PMS) network by assigning a road section and chainage within a section to each accident. Accidents fitted to the network are assigned a status – fitted with an exact road code match, fitted using co-ordinates (no road code match) or unfitted. Graphical 'drag and drop' tools are provided enabling a user to manually fit accidents to the network.

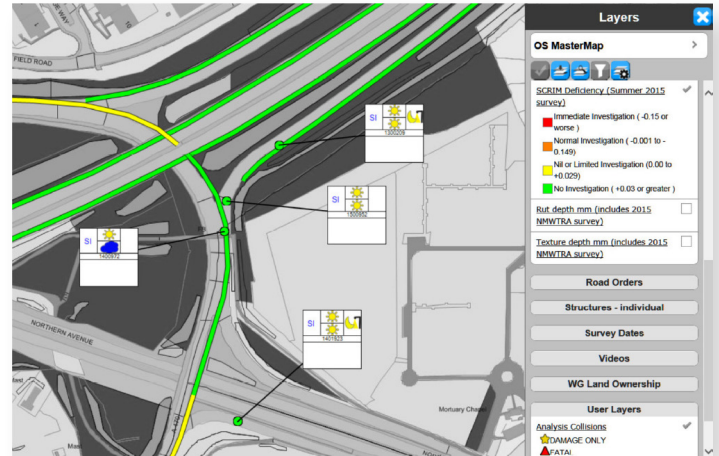
WDM® provide a purpose built tool, webACC, to Query and Report Accident data using a web browser. The opening screen provides system filters to limit the dataset to a date range, exclude damage only accidents and/or to filter to a predefined or user defined polygon.





**Driving Innovation**  
in an ever changing world

Collisions									
Collisions between: 01/Jan/2010 and 25/Mar/2016 Trunk road accidents & agent filter: (SWTVA, June 2012)									
Dy Date	Time	Tr	Road	Location	Accretion	Exiting	North	LI	LI Post Vth
06 December 2014	15:45	SLG	A40	PENRYN BACKLAN ROAD, PORT TALBOT	1402237	270205	58	180425	14
06 January 2015	15:45	SLG	A40	SLIP ROAD FROM J42 WESTBOUND OF M4 TO A40	1400041	272587	23	180441	45
21 February 2014	11:13	SLG	A40	M40 FABIAN WAY	1400308	272061	65	184314	2
10 June 2015	11:30	SLG	M40	AM TREDEGON PARK ROUNDABOUT 13 METERS SOUTH OF JUNCTION 20 BM NEWPORT	0802015	280305	21	180620	1
30 March 2014	10:30	SLG	A40	"CARLETON ROAD" N/A	062614	322228	89	180605	12
02 February 2015	10:03	SLG	M4	JUNCTION 40 - HENDY N/A N/A SLIP ROAD AT HENDY JUNCTION (LANELL)	AC00115	257098	209398	1	0
21 November 2014	17:55	SLG	M4	JUNCTION 40 - HENDY N/A N/A SLIP ROAD AT HENDY JUNCTION (LANELL)	AC14174	257098	209398	1	0
06 April 2015	15:59	SLG	M4	JUNCTION 40 - HENDY N/A N/A SLIP ROAD AT HENDY JUNCTION (LANELL)	AC16815	257098	209398	1	0
13 March 2015	15:43	SLG	M4	JUNCTION 40 - HENDY N/A N/A SLIP ROAD AT HENDY JUNCTION (LANELL)	AC00215	257098	209398	1	0
02 May 2015	06:22	SLG	M4	JUNCTION 40 - HENDY N/A N/A SLIP ROAD AT HENDY JUNCTION (LANELL)	AC16815	257098	209398	1	0
15 March 2014	04:03	SLG	M4	JUNCTION 40 - HENDY N/A N/A SLIP ROAD AT HENDY JUNCTION (LANELL)	AC06214	257098	209398	1	0
01 November 2013	04:29	SLG	M4	JUNCTION 40 - HENDY N/A N/A SLIP ROAD AT HENDY JUNCTION (LANELL)	AC06713	257098	209398	1	0
21 March 2014	17:58	SLG	M4	MOTORWAY JUNCTION 40 N/A N/A BEFORE SWANSEA JUNCTION HENDY	AC08114	257550	203510	1	0
08 September 2014	17:28	SLG	M4	JUNCTION 40 WEST N/A N/A SLIP ROAD (LANELL) CARBANTHENSURE N/A	AC17514	257070	203000	1	0
13 September 2014	14:30	SLG	M4	HENDY N/A N/A HENDY HENDY CARBANTHENSURE N/A	AC17514	257070	203140	1	0
11 August 2013	00:21	SLG	M4	500 YARDS PRIOR TO EXIT OF JUNCTION 40 BM WESTBOUND	1301480	256470	202740	1	0
16 June 2013	09:13	SLG	M4	FASTROAD CARBANTHENSURE N/A	1301000	256810	201900	1	0
21 December 2013	09:48	SLG	M4	M4 SWANSEA BETWEEN JUNCTION 47 AND 48	1302306	256940	201670	1	0
12 April 2010	13:01	SLG	M4	JUNCTION 40 - HENDY N/A N/A SLIP ROAD AT HENDY JUNCTION (LANELL)	1000625	260040	201377	1	0
15 December 2013	09:42	SLG	M4	BM WESTBOUND, APPROXIMATELY 12 MILE WEST OF JUNCTION 47, SWANSEA	1302376	261000	199710	1	0



Data meeting the initial filter can be:

- Further filtered by any field of the Accident, Casualty or Vehicle records;
- Displayed graphically against digital maps; or
- Reported using a range of predefined reports including public, full, factor grids etc.

Three types of cluster analysis (KSI, Wet / Dry and General) can be undertaken on the queried data. The user can define the cluster radius and the summary bands used to present the data. The clusters may be reported either as a text report or against a map background.

One of the main strengths of Accident Manager is its ability to analyse accidents against highway condition datasets including SCRM and Texture from the SCANNER.

Tools are provided enabling the user to perform queries such as show sites where the number of wet skidding accidents is greater than 1 and the SCRM deficiency is below investigatory level. Other useful PMS datasets include Construction, which detail the carriageway surface material type, specification and date of construction. Again results may be reported as a text report, charted or displayed against a map background. Data can be exported out of Accident Manager in a number of formats including stats 21 / DfT.

