

Third-Party Support for SAS® Fraud Management Releases in Limited Support

😊 - Support still available into the future

😬 - Support is mixed (base expired, extended support still available)

😞 - Support has already expired

(The above states are based on the Third-Party Vendor's view and are shared for awareness below)

Table 1: Server Operating System Support

SAS Fraud Management Version	Red Hat Linux 7	Red Hat Linux 8
	😞	😊
5 Release 7 and higher (4.4M1)	✓	
6.1	✓	✓ +

+ 6.1 HF7 on SAS 9.4 M7 was fully tested with Red Hat Linux 8.

Table 2: Database Mid-Tier Support

SAS Fraud Management Version	DB2 11.1 FP3	DB2 11.5	Oracle 12c R2*	Oracle 18c	Oracle 19c	PostgreSQL 11**	PostgreSQL 12**	Redis 3.2***
	☹️	😊	☹️	☹️	😊	☹️	☹️	☹️
5 Release 7 and higher (4.4M1)	✓		✓	✓	✓+			✓
6.1	✓	✓	✓	✓^	✓^^	✓	✓++	✓

* Oracle JDBC Driver should be at version of 12.1.0.2.

** XAMS installations only prior to 6.1 HF4.

*** Multi-Entity History (MEH) database only. Python models are not supported when using Redis for MEH.

^ Oracle 18c systems require the ojdbc7.jar on the specified version of SAS Fraud Management.

^^ Oracle 19c systems require the ojdbc7.jar on SAS Fraud Management 6.1 with SAS 9.4 M6. The ojdbc8.jar can be used on SAS Fraud Management 6.1 with SAS 9.4 M7.

+ Oracle 19c is supported but not verified for the specified version of SAS Fraud Management.

++ 6.1 HF7 on SAS 9.4 M7 was fully tested with PostgreSQL 12.

Table 3: Message Queueing

SAS Fraud Management Version	IBM MQ 8 FP 5	IBM MQ 9.0	IBM MQ 9.2 and higher	Apache ActiveMQ*
	☹	☹	😊	😊
5 Release 7 and higher (4.4M1)	✓	✓		
6.1	✓	✓	✓	✓

Note: Multi-instance QM and MQ clustering require manual configuration of IBM MQ.

* Use the ActiveMQ version that is included with the SAS 9.4 version that SAS Fraud Management was installed with.

Table 4: Web Mid-Tier Support

SAS Fraud Management Version	IE 11	Microsoft Edge*	Google Chrome	Elasticsearch 2.3.4
	☹	😊	😊	☹
5 Release 7 and higher (4.4M1)	✓			✓
6.1	✓^	✓+	✓+	✓

* For 6.1 releases prior to HF4, Microsoft Edge can be used where IE 11 is supported but Microsoft Edge must be run in IE 11 compatibility mode.

^ For 6.1 HF4 and later, the use of IE 11 is not supported.

+ Supported in 6.1 HF4 and higher.

Table 5: SAS Support

SAS Fraud Management Version	SAS 9.4 M5	SAS 9.4 M6	SAS 9.4 M7
	☹️	☹️	😊
5 Release 7 and higher (4.4M1)	✓	✓	
6.1 HF10 and lower		✓	✓+
6.1 HF11 and higher			✓

+ 6.1 HF4 was fully tested with SAS 9.4 M7 (20w34).

Table 6: SAS Business Orchestration Services (BOSS) Support

SAS Fraud Management Version	BOSS 10.1	BOSS 10.2	Classic BOSS on Viya (Apache Camel)
	☹️	☹️	😊
5 Release 7 and higher (4.4M1)	✓	✓	
6.1	✓	✓	

Table 7: Python Support

SAS Fraud Management Version	Python 2.7.5	Python 3.0.1	Python 3.8*	Google Protobuf for Java 3.6.1	Google Protobuf for Java 3.14	Google Protobuf for Java 3.19
	☹	☹	☹	☹	☹	☹
5 Release 7 to 8 (4.4M1 to 4.4M1 HF2)						
5 Release 9 to 15 (4.4M1 HF3 to 4.4M1 HF9)	✓	✓	✓	✓	✓	
5 Release 16 and higher (4.4M1 HF10 and higher)	✓	✓	✓			✓
6.1 to 6.1 HF8	✓	✓	✓	✓	✓	
6.1 HF9 and higher	✓	✓	✓			✓

Notes:

- Python models are not supported in Mainframe environments.
- Python models are not supported when using Redis for the MEH database.

* Python v3.8 requires Oracle v.19c and higher.

Table 8: Supported Languages

SAS Fraud Management Version	English	Spanish	Portuguese (Brazilian)	Chinese	Polish	German	Japanese	Korean	Italian	Russian
5 Release 7 and higher (4.4M1)	✓	✓	✓	✓	✓	✓	✓	✓	✓ +	
6.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

NOTE: This indicates languages supported within the software solution, documentation is not provided for all documents in all languages.

+ Available on Version 5 Release 10 (4.4 M1 HF4) and higher.

Table 9: SSL/TLS Support

SAS Fraud Management Version	SSL/TLS Web	SSL/TLS ODE/MQ	SSL/TLS ODE/Socket
5 Release 7 and higher (4.4M1)	✓	✓	✓
6.1	✓	✓	✓

Table 10: MVS Support

SAS Fraud Management Version	IBM MQ 7.1	IBM MQ 8	DB2 11	DB2 12	CICS TS 5.2	CICS TS 5.3
	☹	☹	☹	😊	☹	☹
5 Release 7 and higher (4.4M1)	✓	✓	✓	✓	✓	✓
6.1 (none)						

Table 10: MVS Support (continued)

SAS Fraud Management Version	z64 Only	z/OS 2.2	COBOL 5.x	COBOL 6.x
	😊	☹	☹	😊
5 Release 7 and higher (4.4M1)	✓	✓	✓	✓
6.1 (none)				