

# JBDC Integration (Alarm Export)



Custom  
Integrations

# Why JDBC Integration from LightSpeed PM?

LightSpeed PM's JDBC Custom Integration provides an answer for these challenges:

- Need for 'Custom Event Driven Rules'
- Need for 'Command Invocation'
- Extensive Groovy Scripting
- Limited control



# JDBC Integration Alarm Export

Easily export alarms to a database

Customizable  
fields

**Remote  
Administration**  
of solution  
across servers

Direct  
Insertion to a  
database

- Ability to generate SQL files vs Direct Insertion

Decision  
Engine for total  
and precise  
control

- 20 Levels of granularity
- Severity Level control



# JDBC Integration Highlights

Pattern Editor allows easy access to the information related to the alarm

- No Groovy required
- Access to dozens of fields to easily provide values to parameters
- A dozen common operators available to easily avoid any coding

Use of Groovy scripts for power users

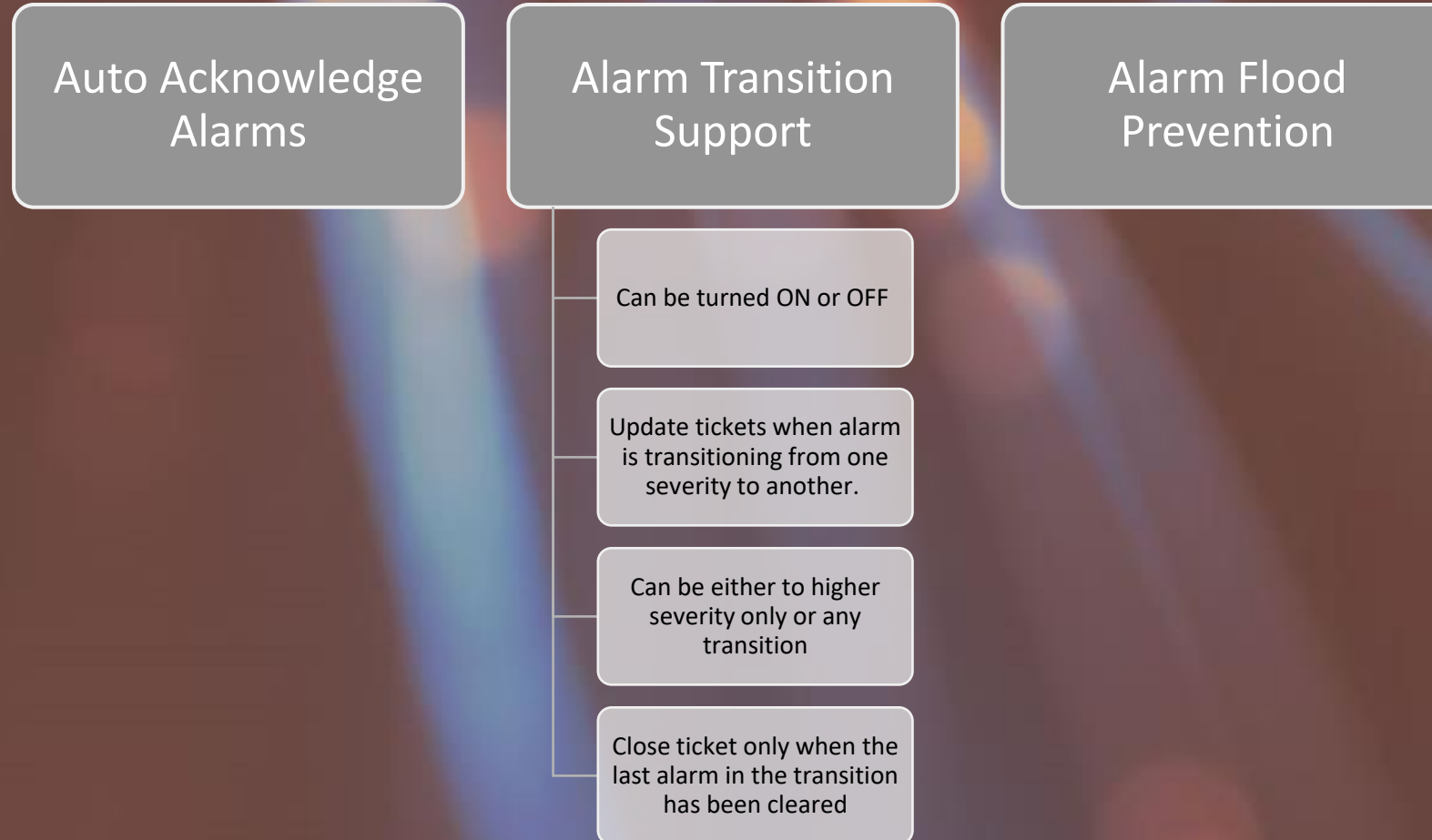
- Use of Groovy scripting with complete injected flow context
- Ability to reject/delay ticket generation

Persisted Queue so no events are lost

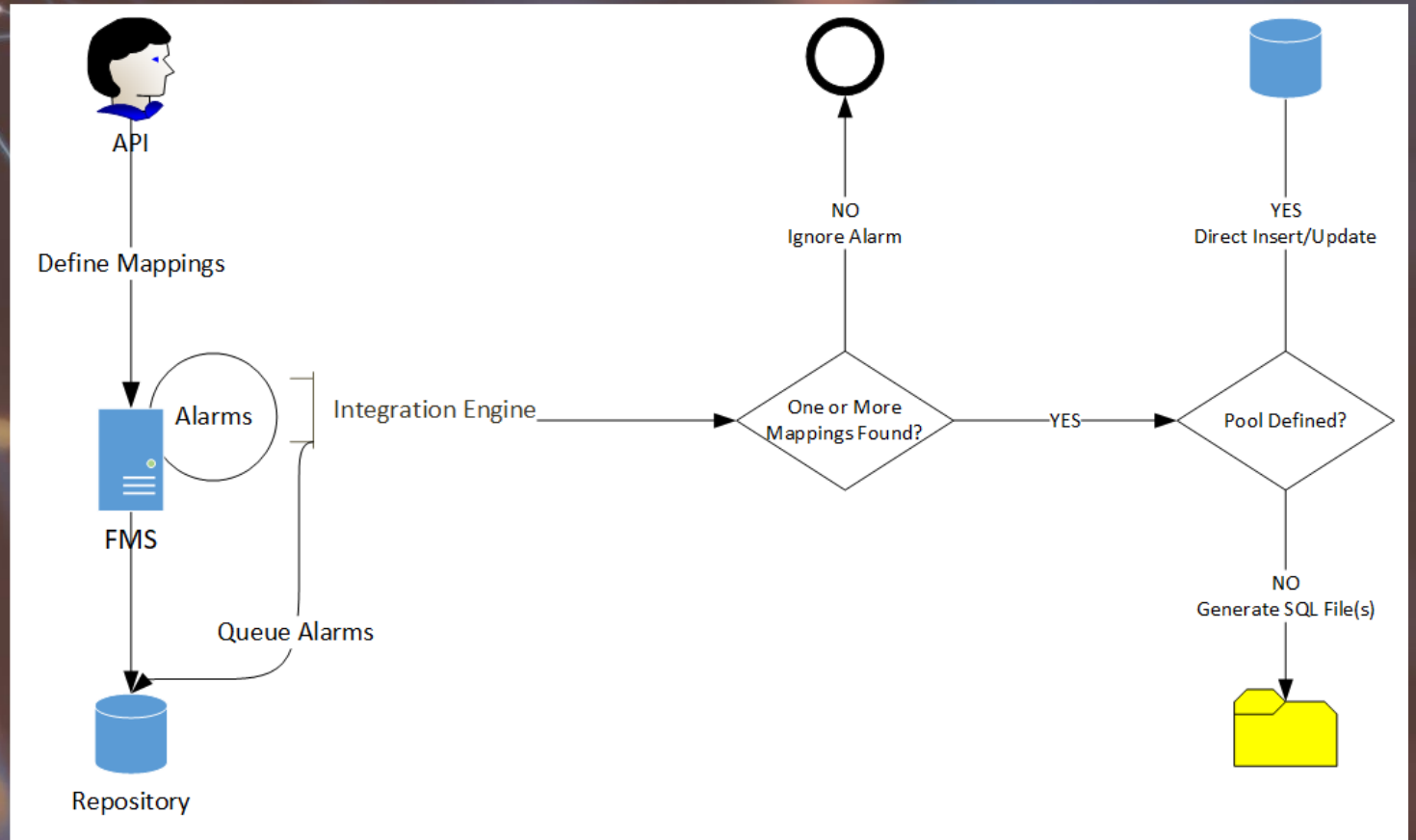
- Guaranteed delivery
- Keep history for rejected, failed and successful operations for total control
- Pause or delay control
- Consumer Thread settings/control as to manage concurrency and volume



# JDBC Integration Alarming Features



# JDBC Integration — Flow





# JDBC Integration – Decision Engine

A rich UI within the solution presents the various mappings produced by the decision engine

Low Priority

No Service

High Priority

With Service

	Service	Host	Agent Type	Agent	Topology Object	Rule
0						
1		x				
2			x			
3				x		
4						x
5					x	
6		x				x
7			x			x
8				x		x
9					x	x
10	x					
11	x	x				
12	x		x			
13	x			x		
14	x					x
15	x				x	
16	x	x				x
17	x		x			x
18	x			x		x
19	x				x	x

# JDBC Integration – Changing Settings

Navigation

Expert View

Bookmarks  
There are no bookmarks

Homes

Dashboards

Loglight Servers

Local FMS

Host Name

There Is No Data To Display

Integration Pack Registry Settings - Local FMS

Save Undo Filter

Name	Value	Scoping
<strong>JDBC Integration</strong>		
<strong>Open Ticket</strong>		
PSO.JDBCIntegration.OpenTicket.NoEmptyValue	false	If true any tag that returns a null will be replaced by a space. If false null values are simply not outputted.
PSO.JDBCIntegration.OpenTicket.TimeZone	GMT	Defines the time zone to use when outputting date and time in the Command.
PSO.JDBCIntegration.OpenTicket.DateTimeFormat	dd/MM/yyyy:HH:mm:ss	Defines the format for the date and time to use when outputting date and time in the Command.
<strong>Queue</strong>		
<strong>Ignore</strong>		
PSO.JDBCIntegration.Queue.Ignore.Normal	true	Should cleared alarms be ignored by the queuing engine? Ignored alarms are not queued thus reducing the overall load on the system.
PSO.JDBCIntegration.Queue.Ignore.Warning	false	Should Warning alarms be ignored by the queuing engine? Ignored alarms are not queued thus reducing the overall load on the system.
PSO.JDBCIntegration.Queue.Ignore.Critical	false	Should Critical alarms be ignored by the queuing engine? Ignored alarms are not queued thus reducing the overall load on the system.
PSO.JDBCIntegration.Queue.Ignore.Fatal	false	Should Fatal alarms be ignored by the queuing engine? Ignored alarms are not queued thus reducing the overall load on the system.
PSO.JDBCIntegration.Queue.Ignore.Rules		A list of comma separated rule names that the queue should ignore. Alarms generated by ignored rules are not queued thus reducing the overall load on the system.
<strong>Delay</strong>		
PSO.JDBCIntegration.Queue.Alarm.DelayPeriod.Warning	0	Time in minutes a warning alarm should be delayed in the queue before being forwarded to the target system if still active (not cleared).
PSO.JDBCIntegration.Queue.Alarm.DelayPeriod.Critical	0	Time in minutes a critical alarm should be delayed in the queue before being forwarded to the target system if still active (not cleared).
PSO.JDBCIntegration.Queue.Alarm.DelayPeriod.Fatal	0	Time in minutes a fatal alarm should be delayed in the queue before being forwarded to the target system if still active (not cleared).
PSO.JDBCIntegration.Queue.AlarmTransition.Enable	false	Should alarm transition be supported. If enabled the integration will update a ticket vs creating a new one when an alarm goes from one state to another.
PSO.JDBCIntegration.Queue.Alarm.AcknowledgeUponSuccess	false	Should the alarm be acknowledged when the alarm has been successfully processed.
PSO.JDBCIntegration.Queue.Alarm.EnforceServiceFilter	false	When an alarm is being processed enforce the filters applied to the service. If true a service is not considered to be a hit (mapping to a service).
PSO.JDBCIntegration.Queue.PausePeriod	0	Time in minutes no alarms should be forwarded to the target system. This is useful when the target system is unavailable due to network issues.
<strong>Export</strong>		
PSO.JDBCIntegration.Export.Folder.Fatal		Indicates the folder name under the Home directory where the Fatal SQL files are to be stored. (i.e.: fatal)
PSO.JDBCIntegration.Export.Folder.Critical		Indicates the folder name under the Home directory where the Critical SQL files are to be stored. (i.e.: critical)
PSO.JDBCIntegration.Export.TableName		Indicates the table name to which alarms will be inserted.
PSO.JDBCIntegration.Export.Folder.Warning		Indicates the folder name under the Home directory where the Warning SQL files are to be stored. (i.e.: warning)
PSO.JDBCIntegration.Export.AlarmIDColumnName		Indicates the column name that represents the alarm ID. Used to update the alarm in case of updates.
PSO.JDBCIntegration.Export.Home		Indicates the home directory where the SQL files are to be stored. (i.e.: C:/jdbc-exports)
<strong>DB</strong>		
PSO.JDBCIntegration.DB.Enable	false	If true direct insertion of values will be executed using the defined DB connection. false will cause the SQL files to be generated.

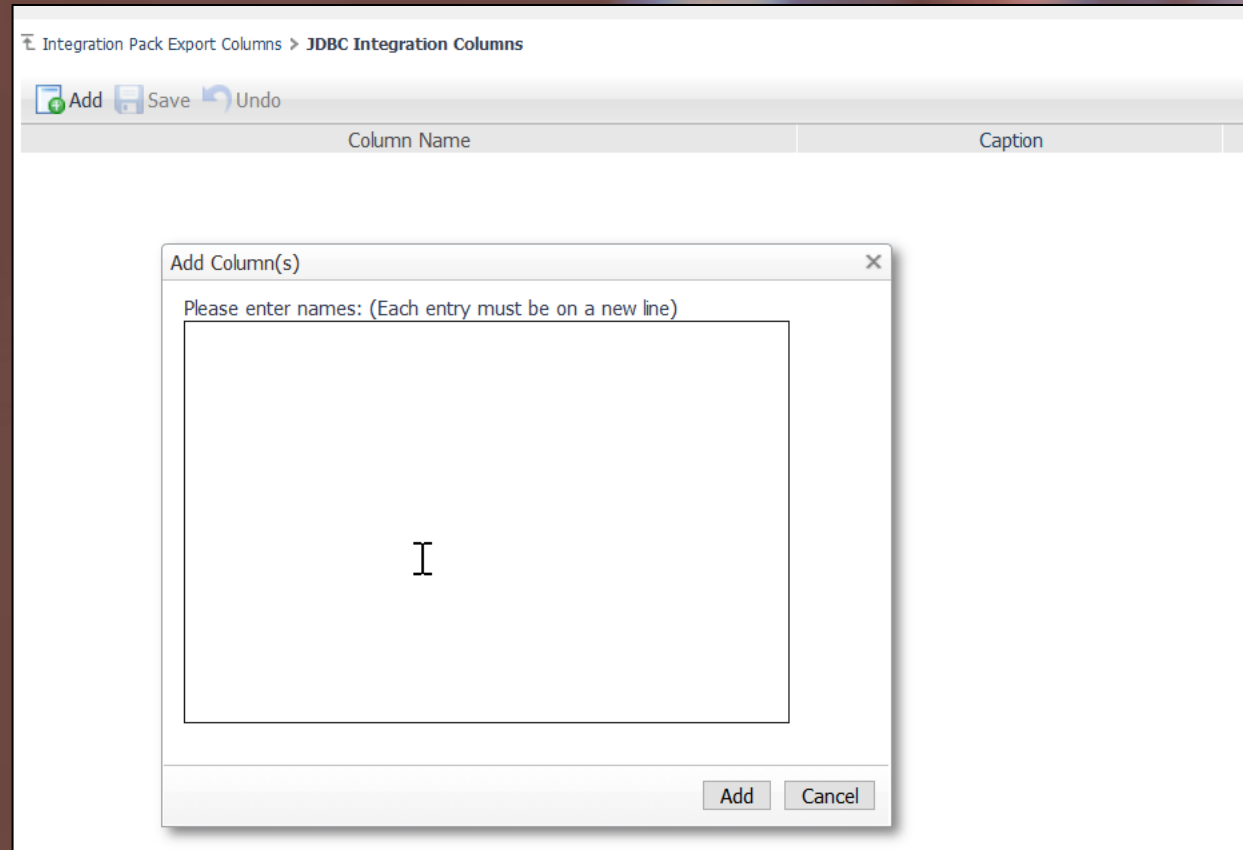




# JDBC Integration — Connection Pool

**JDBC Integration DB Settings**

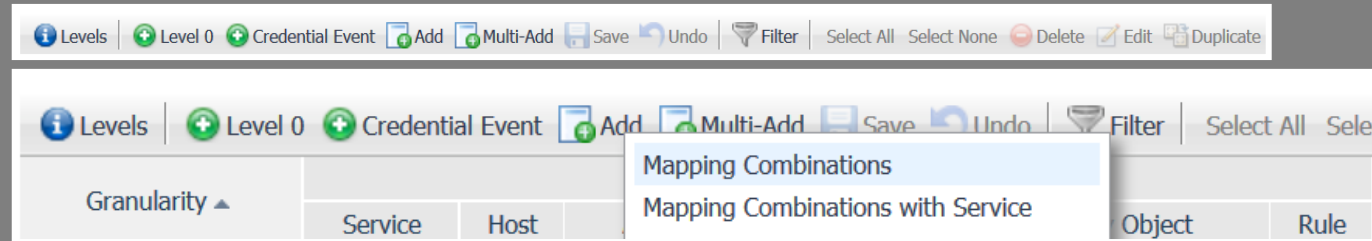
DB Type:	<input type="text" value="MSSQL"/>
Host Name:	<input type="text"/>
DB Name:	<input type="text" value="pso_admin_pack"/>
Port:	<input type="text"/>
Windows Authentication:	<input type="checkbox"/>
Username:	<input type="text"/>
Password:	<input type="password"/>
Max Connections:	<input type="text" value="20"/>



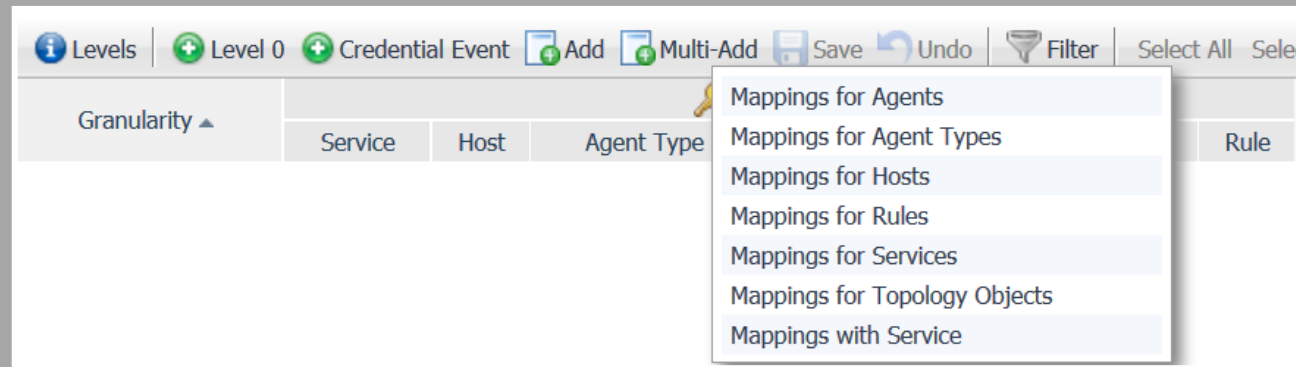
# JDBC Integration — Customizable Columns

# JDBC Integration – Mappings Editor

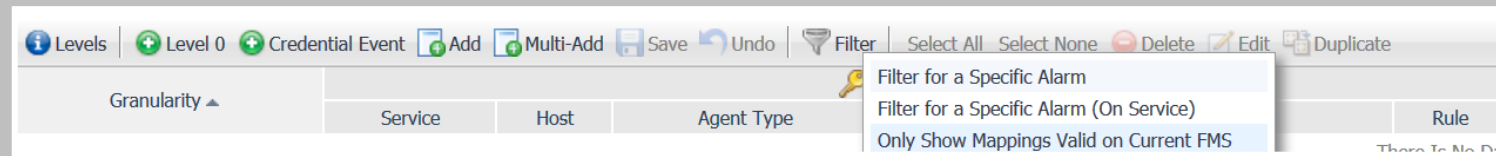
## Combinations



## Multiple Mappings



## Filtering



<b>Alarm ID</b>	: @ALARM_ID			
<b>Alarm Severity</b>	: @ALARM_SEVERITY			
<b>Alarm Severity Name</b>	: @ALARM_SEVERITY_NAME			
<b>Alarm Created Time</b>	: @ALARM_CREATED_TIME			
<b>Alarm Message</b>	: @ALARM_MESSAGE_CLEAN			
<b>Alarm Link</b>	: @ALARM_LINK			
<b>Alarm Is Acknowledged</b>	: @ALARM_IS_ACKNOWLEDGED			
<b>Alarm Acknowledged Time</b>	: @ALARM_ACKNOWLEDGED_TIME			
<b>Alarm Acknowledged By</b>	: @ALARM_ACKNOWLEDGED_BY			
<b>Alarm Is Cleared</b>	: @ALARM_IS_CLEARED			
<b>Alarm Cleared Time</b>	: @ALARM_CLEARED_TIME			
<b>Alarm Cleared By</b>	: @ALARM_CLEARED_BY			
<b>Rule Name</b>	: @RULE_NAME			
<b>Impacted Global Services</b>	: @IMPACTED_GLOBAL_SERVICES			
<b>Agent UID</b>	: @AGENT_UID			
<b>Hostname</b>	: @HOSTNAME			
<b>Topology Object Name</b>	: @TOP_OBJECT_LONG_NAME			
<b>Topology Object UID</b>	: @TOP_OBJECT_UID			

# JDBC Integration — Field Editor

# Pattern Editor

### Alarm Severity Name Elements

**Add** **Insert** **Edit Complete** | **Save** **Undo**

Pattern Element
@ALARM_SEVERITY_NAME

Remember to click Apply if you manually edit the pattern.  
Spaces are automatically trimmed, please use Edit Complete to insert spaces and have them preserved.

@ALARM\_SEVERITY\_NAME

**Apply**

#### TAGS

Search

Tag ▲	Caption
AGENT_TYPE	Agent Type
AGENT_UID	Agent UID
ALARM_ACKNOWLEDGED_BY	Alarm Acknowledged By
ALARM_ACKNOWLEDGED_TIME	Alarm Acknowledged Time
ALARM_CLEARED_BY	Alarm Cleared By
ALARM_CLEARED_TIME	Alarm Cleared Time
ALARM_CREATED_TIME	Alarm Created Time
ALARM_ID	Alarm ID
ALARM_IS_ACKNOWLEDGED	Is Alarm Acknowledged
ALARM_IS_CLEARED	Is Alarm Cleared
ALARM_LINK	Alarm Link

#### OPERATORS

Operator	Short Description
?[]	If tag has a value.
:[]	If tag does not have a value.
?[]:[]	If tag has a value else.
^{}{}	Replace string with another.
=0	Equality
=0?[]:[]	If equal else
![[ ]]	Groovy Script
^U	Uppercase
^L	Lowercase
^T	Trim
^N	New Line Output
^R	Return





# JDBC Integration — System Requirements



Minimum required  
FMS version

5.9.3



Supported  
Database  
Minimum  
Version

MS SQL

2008  
v 10.0.1600 or later

Oracle

9i R2

MySQL

5.1.45

PostgreSQL

9.4.0





## Performance Monitoring customized to your unique environment

Ten plus years of providing Professional Services to Quest customers revealed these enhancements to be most requested modifications.

Let us take Foglight's out of the box capabilities and enhance for your unique environment.

Contact: [Sales@LightSpeedPM.com](mailto:Sales@LightSpeedPM.com)

