



# SQL Server 2012

## Periodic Table of Dynamic Management Objects

## Dynamic Management Object Classification Key

Activity D100s

The user and internal activity that has or is occurring on the instance and the associated query engine and procedure cache information that results from the activity.

QLOS; the operating system internal to SQL Server. The DMOs here are divided into Locking/locking, Memory, and CPU-centric sub-classes.

Index  
EMOs

Broken down into three sub-classes (Physical, Usage, and Missing Indexes) these DMOS provide insight into how indexes are structured, used, or recommended for creation.

While many DMOs address performance, unlike INFORMATION\_SCHEMA views, these six are vital for providing metrics for I/O, performance counters, and *Wait Stats* metadata.

Monitoring DMOs

Tied closely to performance, enhance the same shade of colors. Monitoring DMOs encompass COC, Extended Events, Auditing, Service Broker, and Resource Governor.

All things object-related (as far as the DMOs are concerned). Encryption, statistics, referential integrity, usage, object metadata and partitioning all fall into this category.

FRG  
Frage DMOs

These involve SQL constructs that are on the fringe of SQL: Full-Text Search, CLR, FileStream, and File Table are all covered here.

All things server-related (as far as the DMOs are concerned). Server metadata, stall information, registry metrics, and encryption are part of this class.

High Acid  
H

High Availability architectures get a lot of attention in SQL Server 2012. Most of the new DMOs—Availability Groups, Mirroring, Log Shipping—all get attention.

mention in SQL  
related to  
g, and replication

10

black line = division between classes.

### Event Function

The diagram illustrates a dynamic management function for a symbol. It features a large central box labeled "Symbol" in bold. Above this box is a smaller box labeled "Dynamic Management Function". To the left of the "Symbol" box is another box labeled "SUB-CLASS". Inside the "Symbol" box, there is a green vertical bar on the left side containing the text "(fx)" at the top and "2012" below it. At the bottom of the "Symbol" box, the text "Dynamic Management Object Name" is displayed. A legend on the right side defines the symbols: "+2008 = Appears 1st in 2008", "+R2 = Appears 1st in 2008R2", and "+2012 = Appears 1st in 2012".