

# TMS, DMS and CMS Usage Guide for Falcon BMS 4.38.1

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# 1 DMS — Display Management Switch

## 1.1 Concept and Sensor of Interest (SOI)

The Display Management Switch (DMS) is a four-direction spring-loaded hat located on the throttle grip. Its primary role is to manage which display or sensor receives hands-on control inputs, known as the Sensor of Interest (SOI), and to cycle through the Multifunction Display Set (MFDS) format pages.

Unlike the Target Management Switch (TMS), which performs tactical functions such as target designation and data management (see Chapter 3), the DMS is a **transversal SOI architecture manager**. It does not designate targets or change radar modes directly; instead, it selects *which display or sensor* the pilot is currently controlling with other HOTAS inputs (such as CURSOR/ENABLE or TMS).

**DMS Across F-16 Blocks and Variants:** The functionality of the DMS—SOI selection, MFD format cycling, and all associated behaviors—is identical across all F-16 blocks and variants available in Falcon BMS 4.38.1. Differences in aircraft avionics do not alter DMS switchology. For this reason, all DMS procedures in this chapter apply universally to the entire F-16 family.

### 1.1.1 SOI Definition and Scope Across Displays

The Sensor of Interest (SOI) is the display or sensor that currently receives HOTAS cursor slew commands and, where applicable, TMS actions. At any moment, only one display can be the SOI. Valid SOI displays include:

- **Fire Control Radar (FCR)** — A-A and A-G modes.
- **Targeting Pod (TGP)** — when in A-G or A-A tracking.
- **Horizontal Situation Display (HSD)** — all master modes.
- **HARM Attack Display (HAD)** — A-G SEAD/EW context.
- **Weapon page (WPN)** — IAMs, Maverick, Harpoon and other weapon-specific pages.
- **Head-Up Display / Helmet Mounted Cueing System (HUD/HMCS)** — Navigation and A-G master modes only (not A-A or DGFT).

Displays that are *not* valid SOI include: SMS (Stores Management Set), DTE (Data Transfer Equipment), TEST, and blank/inactive MFDS formats. These pages provide information or control but do not accept sensor-like slew or targeting inputs.

The SOI is indicated visually:

- On the **HUD/HMCS**: an asterisk (\*) appears in the upper left corner when HUD/HMCS is the SOI.
- On an **MFD**: a border outline appears around the edges of the display when it is the SOI. When an MFD format is *not* the SOI, the text “NOT SOI” may appear on the format (depending on the mode).

### 1.1.2 Role of the DMS in SOI Selection

The DMS manages SOI selection through two orthogonal axes of control:

- **Vertical (Up / Down):** Selects *which display* is the SOI.
  - **DMS Up:** Transfers SOI to the HUD/HMCS (when permitted by master mode).
  - **DMS Down:** Cycles SOI between MFDs, or from HUD/HMCS to an MFD.
- **Horizontal (Left / Right):** Steps through MFDS format pages on the left or right MFD, independently of which display is the SOI.
  - **DMS Left:** Cycles the left MFD format (FCR → SMS → HSD → TGP → ...).
  - **DMS Right:** Cycles the right MFD format.

**Critical constraint:** In Air-to-Air (A-A), Dogfight (DGFT) and Missile Override (MSL OVRD) master modes, the HUD/HMCS *cannot* be the SOI. DMS Up has no effect in these modes. HUD/HMCS SOI is permitted only in Navigation (NAV) and Air-to-Ground (A-G) master modes.

This constraint reflects the underlying sensor management architecture: A-A modes rely exclusively on the FCR, HSD or TGP (when in A-A track) for targeting and situational awareness. The HUD in A-A contexts displays weapon delivery cues but is not a selectable SOI.

In the following sections, this chapter details how the DMS interacts with MFD format selection (Section ?? and ??). and how DMS integrates with TMS in some weapon specifics circumstances in Section ??.