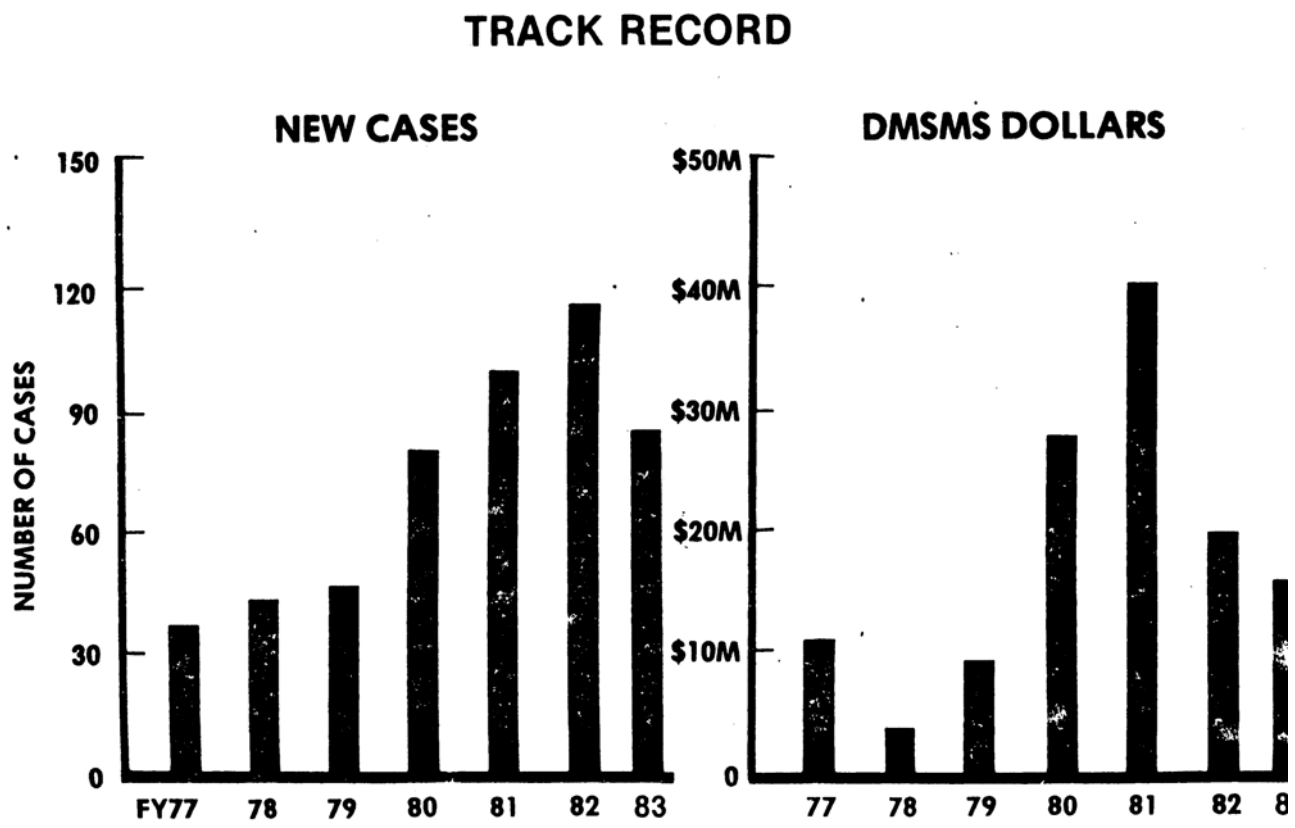
1983 DMSMS Workshop (The first one?)

DMSMS WORKSHOP

20-22 September, 1983

DEFENSE ELECTRONICS SUPPLY CENTER

1983 DESC (a.k.a DSCC) Metrics







DMSMS Metrics Panel

ARINC DMSMS Progress Indicator

Presented to

DMSMS 2006

Charlotte, NC

July 10 – 12, 2006

ARINC DMSMS Progress Indicator

- Observation of progress advancement can be measured linearly by the ratio of good events over total events.
- Based on classic availability equation of Uptime over Total Time.
- Therefore the ARINC DMSMS Progress Indicator can be measured as:

$$ADPI = (G + Y1) / (G + Y1 + R + Y2 + B)$$

Where,

G = green, two or more suppliers
Y1 = yellow, one supplier and funded solution
R = red, obsolete part, no solution
Y2 = yellow, one supplier, no funded solution
B = blue, unknown parts

Additional Observations

- Ideally, a macro level assessment was already completed with an Operational Impact Analysis. Knowing how your spares will be depleted, because you cannot repair them because of obsolete parts, takes into consideration:
  - reclamation from assemblies or retiring assets.
  - reliability data (wearout) and varying operating hours.

- Generally progress can be measured by funded solutions over total potential problems. This will take into account all types of solutions, including engineering.

- A ratio of one (1.0) is a perfect score, meaning the program has no problems; a ratio of zero (0.0) means the program has not addressed obsolescence.

What the Score Means

- If you do not have any BOM's then you have all blues and will score a Zero.
- If the predictive tool has many false positives (reds), that will hurt the program. (Yes, this could be used to compare predictive tools.)
- If the predictive tool has many blues (unkowns), that will hurt the program.
- Generally as problems are solved they move to the numerator.
- We normalized each like a test score by multiplying by 100
- The following could be considered tongue and cheek (or is it?)

  - 90 – 100 = A: DMSMS Best Practice program
  - 80 – 89 = B: Solid DMSMS program
  - 70 – 79 = C: Getting close, obtain more $ or research the blues
  - 60 – 69 = D: Tutors may be needed
  - 40 – 59 = F: Let's talk
  - 0 – 39 = Seek the witness protection program or learn to say "would you like fries with that?"

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