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2019 CBM+ MINI-SUMMIT

USAF CBM+ UPDATE

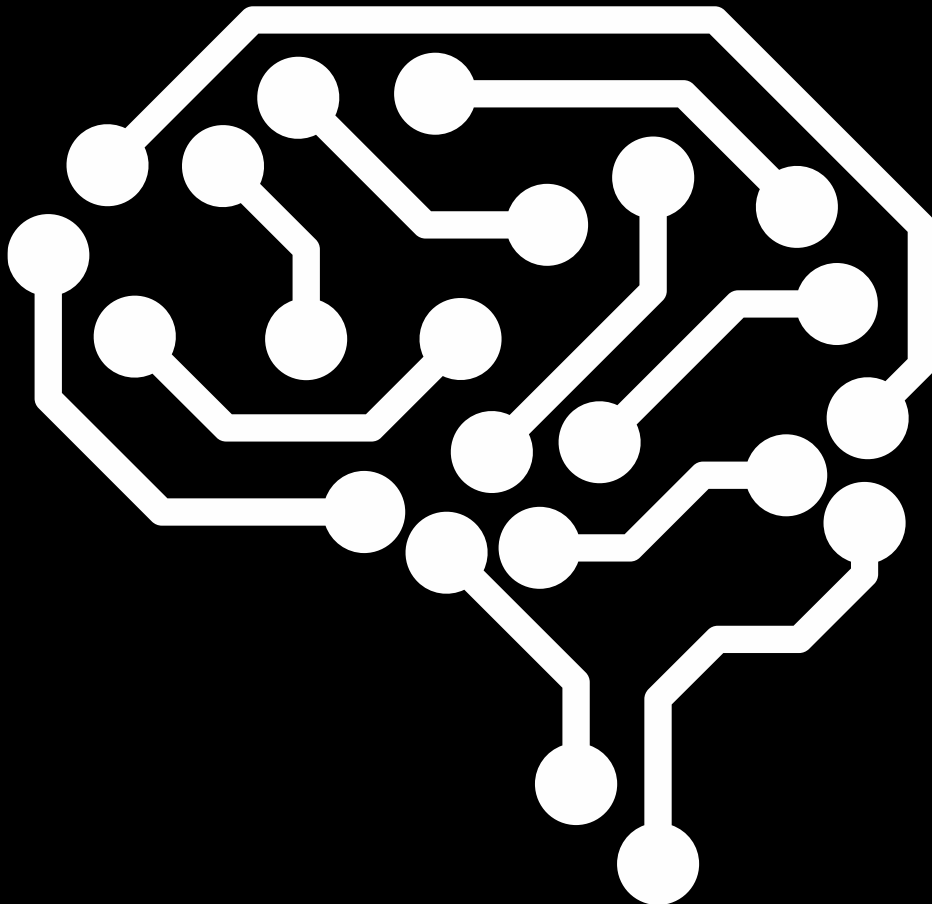
Rapid Sustainment Office

12 Dec 19

John Hedke, Chief Engineer, CBM+ Program Office

- OVERVIEW
- KEY ACCOMPLISHMENTS
- 2019 ACTIVITIES
- 2020 OBJECTIVES
- SUMMARY

PROVIDES PREDICTIVE HEALTH
INDICATORS FOR EACH AIRCRAFT



CBM+ IS A NEW SUSTAINMENT PARADIGM!

- CBM+ is a proven methodology that is now active in the Air Force
- CBM+ is more than algorithms and sensors
- CBM+ improves overall reliability

ACCOMPLISHMENTS – CBM+ BY THE NUMBERS

As of Nov 19

66 Mx Units
Trained on
CBM+

105 Predictive Mx
Jobs
Completed

5,000+
Troubleshooting Hours Saved

179 Parts Under
Review for
Early Failure

2,500+
Data cleansing tool users

700+ Aircraft
Actively
Monitored

10%+
Reduction in NMCMU

178+
Live Algorithms

Common AF CBM+
Vision for 2030

Common CBM+
Supply Code

Common CBM+
Data Approach

3 Partner Nation
Opportunities

2019 ACTIVITIES

- Proved enhanced Reliability Centered Mx (eRCM) workflow scalability
- Fielded eRCM for four platforms
- Initiated CBM+ activities for three additional platforms with fielding set for FY20
- Expanded Sensor Based Algorithms (SBA) across two platforms
- Expanded data cleansing tool to more than 20 AF Mx units
- Developed CBM+ Training and executed worldwide
- Reduced OEM dependency via decoder reverse engineering successes

2020 OBJECTIVES

**ONBOARD EIGHT ADDITIONAL
PLATFORMS TO eRCM**

**FIELD SENSOR BASED ALGORITHMS
FOR A MULTI-PLATFORM SYSTEM**

**EXPAND DATA CLEANSING TOOL TO
40 ADDITIONAL AF MX UNITS**

**KICKOFF SENSOR BASED
ALGORITHMS FOR TWO NEW
PLATFORMS**

**DEPLOY CBM+ APPS INTO
CLOUD ONE VIA BESPIN**

**DEPLOY NEW DECODERS FOR
THREE PLATFORMS**



U.S. AIR FORCE

MAINTENANCE ● ENGINEERING ● LOGISTICS
SUPPLY ● MISSION OPERATIONS ● DEPOT
SENIOR LEADERS

CBM+ IS A “**ONE TEAM**” SPORT

- FY19: AF PROVED WE CAN DO CBM+ (BOTH SBA AND eRCM), DIRECTLY PARALLELING INDUSTRY
- FY20: LEVERAGE LEARNING AND DEMOS TO SCALE
- FY20+: FOCUS ON RELIABILITY IMPROVEMENTS AND CHANGING LEGACY PROCESSES TO MAX CBM+ BENEFITS

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