Army Data and Analytics Platforms (ARDAP) AFCEA Belvoir Breakout Session

Connecting the Army.
Working for Soldiers.

Nov. 5, 2021 - 1100-1200

Since Last Year

- ARDAP
  - ATIS moved from PM DIBS to PM ARDAP (JUL 21)
  - GCSS-Army moved to PM DIBS (OCT 21)
  - Developed ARDAP roadmap to execute Army Data Plan
- EBS-C
  - New PL – Preston Hayward (JUL 21)
  - Continued to refine acquisition strategy- including ROM, OTA roadmap, and roadmap to ILD software build schedule
  - Achieved Functional Requirements ATP approval (OCT 21)
- GFIM
  - Awarded the Phase I Prototype to two vendors (Palantir & NuWave)
  - Phase I prototype sprints underway delivering 'Army At Rest' Force Management capabilities
  - Phase I efforts will subsume 6 of 13 legacy systems supporting the D2RR business process
- ATIS
  - New PL – Tim Hale (JUL 21)
  - Provided more than 230K hours of training to nearly 150K Soldiers and Civilians
  - Completed nearly 3M training courses in the Army Learning Management System

Since Last Year (cont'd)

- AESIP Hub
  - Successful Global Combat Support System Army Increment 2, Wave 2, BI/BW Capability Drop 2.1 Limited Deployment Authority to Proceed
  - Cloud migration
  - Enterprise Data Services Catalog Proof of Concept Kick-Off

- AMIS
  - Awarded Next Generation Transponder contract (ORBCOMM) to provide an Army-wide satellite/cellular asset tracking capability
  - Continued to work DACMS (Weigh in Motion) interface with TC AIMS II to electronically capture and import vehicular/asset dimensional data for development of Unit Deployment Lists

- Army Vantage
  - New PL – Miranda Coleman (NOV 20)
  - Supported the Joint Staff's Project ORSUS and 82D in support of the Afghanistan retrograde and NEO crisis
  - Go-live of the Weapons Accountability workflow
  - Developed new data interfaces, data assets, and visualizations in support of the Army's Business Health Metrics (BHM) reporting to OSD

- LIS
  - Implemented 2 SAAS interim change packages to ensure regulatory/safety compliance regarding Net Explosive Weight (NEW) calculations and updating of forms to be compliant with current regulations
  - Migrated PBUSE user training package to current technology, which provides property accountability for Special Operations Commands in a classified environment

ARDAP Overview

MISSION & INTENT

- Accelerating Army leader informed decisions and Warfighter mission accomplishment by ensuring real-time availability of command and logistics information & data
- Allowing Army leaders to make fact-based decisions through availability of relevant information

ARDAP OBJECTIVES

- Data management/security at scale
- Near Real time data
- Provide intuitive systems
- Expanded self-service capabilities
- Leverage authoritative data
- Facilitate E2E business processes and BEA compliance

ARDAP Will

- Operate data management principles
- Optimize systems
- Establish open and flexible architecture
- Design for maximum data correctness
- Establish technical design

ARMY OBJECTIVES

- Make Data Visible, Accessible, Understandable, Linked, Trustworthy, Interoperable, and Secure (VAULTIS)
- Accelerate data driven decisions
- Decrease time to field software
- Operational data and cloud enabled at echelon
- Machine learning and artificial intelligence enabled mission execution, automated systems
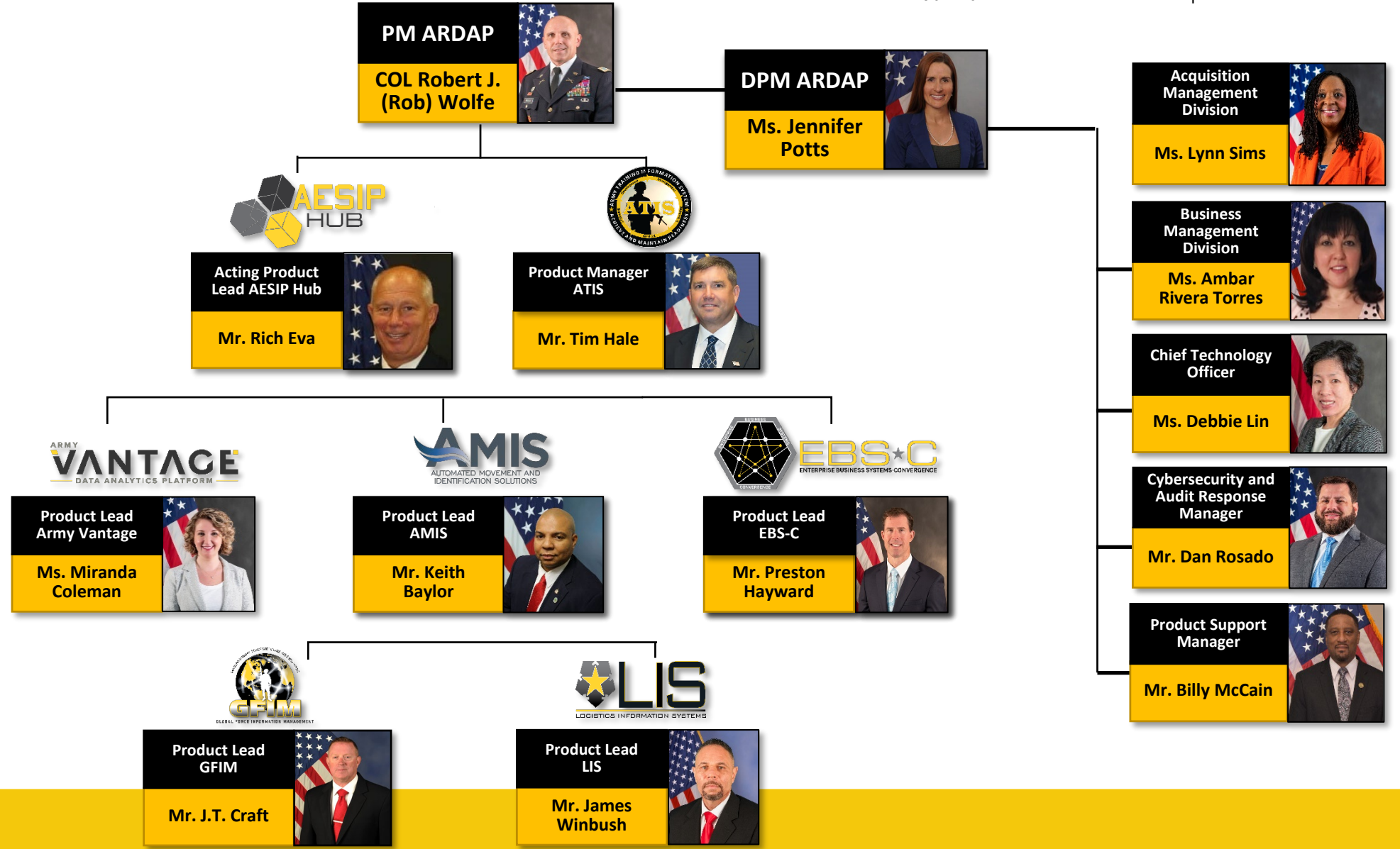
ARDAP Organization

LOCATIONS
Fort Belvoir, VA
Redstone Arsenal, AL
Newport News, VA
Fort Lee, VA

STAFF
Military – 5
Civilian – 74
Contractor – 329

PM ARDAP
COL Robert J. (Rob) Wolfe

DPM ARDAP
Ms. Jennifer Potts

Acquisition Management Division
Ms. Lynn Sims

Business Management Division
Ms. Ambar Rivera Torres

Chief Technology Officer
Ms. Debbie Lin

Cybersecurity and Audit Response Manager
Mr. Dan Rosado

Product Support Manager
Mr. Billy McCain

AESIP HUB
Acting Product Lead AESIP Hub
Mr. Rich Eva

ATIS
Product Manager ATIS
Mr. Tim Hale

ARMY VANTAGE — DATA ANALYTICS PLATFORM
Product Lead Army Vantage
Ms. Miranda Coleman

AMIS — AUTOMATED MOVEMENT AND IDENTIFICATION SOLUTIONS
Product Lead AMIS
Mr. Keith Baylor

EBS-C — ENTERPRISE BUSINESS SYSTEMS-CONVERGENCE
Product Lead EBS-C
Mr. Preston Hayward

GFIM — GLOBAL FORCE INFORMATION MANAGEMENT
Product Lead GFIM
Mr. J.T. Craft

LIS — LOGISTICS INFORMATION SYSTEMS
Product Lead LIS
Mr. James Winbush

Where We Need Industry Input

MODERNIZATION

- Large-scale data sharing
- Machine Learning / Artificial Intelligence
- Automation
- Application integration

- Hybrid cloud
- Business Process Re-engineering
- Composable ERP approach

Data Platforms

- Disparate Data Sources
- Data Integration
- Data Virtualization
- Self-service analytics
- Predictive analytics

Data Management

- Governance
- Data Quality
- Data Catalogs

MODERNIZATION is the Army's top priority….data enables modernization

Army Enterprise Systems Integration Program Hub (A technical component of GCSS-Army)

Mission: Provide the capability to integrate Army business processes by providing a single source for centralized master data management, business intelligence and analytics and enterprise hub services.

Capabilities	FY22 Program Priorities
• **Master Data Management:** Oversight of authoritative sources for common data used by multiple systems. • **Business Intelligence/Business Warehouse:** Processes and tools that transform raw data into relevant and timely information that facilitate leaders' decision-making efforts. • **Enterprise Hub Services**: Activities involving data brokerage responsibilities and integration of common IT services. • **Enterprise Identity Management:** Automated management functions to authenticate and authorize users' access to pertinent data, applications and Cloud platforms.	**Data-Driven Projects** • Deploy select transactional reports to help the Army aviation community better see itself in maintenance and operational issues • Enhance the Commander's Actionable Readiness Dashboard with a self-service capability to better monitor readiness building and sustainment **Cloud Migration** • Transition to new AWS Managed and Cloud Service Providers • Migrate all Logistics Data Analysis Center (LDAC) applications to the AWS Cloud **Capability Sets** • Implement various Enterprise Portal and Identify Management initiatives to provide greater capacity to end users **Cyber Security Management** • Achieve three Authorization to Operate system re-accreditations

Stakeholders		Users	Software / Technology Stack		
DLA	HQDA, G-4	140K + Annually	SNOW	AWS	Lumira
AMC	ASA (FM&C)	Army EAVN	SAP	AppDynamics	Tableau
OSD	DHA	CASCOM	LoadRunner	S4 HANA	ADVANA
(+ 41 Trading Partners)		LDAC			

Automated Movement and Identification Solutions (AMIS)

Mission:
- Provide a single point of contact for procurement, technical expertise, training and customer support for TC-AIMS II and RF-ITV products and services
- Support the integration of automated movement and identification technologies into Army and enterprise business processes

Capabilities	FY22 Program Priorities

• Transportation Coordinators' Automated Information for Movements System II (TC-AIMS II) consists of three modules:
  – Unit Move
  – Convoy Planning Highway Regulation
  – Theater Operations (TOPS)
• Radio Frequency In-Transit Visibility (RF-ITV): uses radio frequency, cellular and satellite tracking devices to provide ITV information to track the identity, status and location of cargo from origin to destination
	• Execute Financial Management/Tracking capability to TOPS component
	• Align Army G-4 and TRANSCOM requirement to support High Level Objectives (TMAS CRD) and TMS task listing
	• Establish FY21 and beyond strategy for In-Transit Visibility
	• DACMS (Weigh in Motion) /TC AIMS II Interface

Stakeholders	Users	Software / Technology Stack
G-4, DPMO, CASCOM, FORSCOM, TRANSCOM	• TC-AIMS – Users U.S Army, Active Duty, Reserve, National Guard ; 8,280 users • RF-ITV – Users, U.S. Army, Active Duty, Reserve, National Guard, Marines, Navy, Air Force, DLA, SDDC, Joint User, NATO, and Coalition Partners, • TRANSCOM; 3916 + users	• TC-AIMS II - n-tiered architecture base on Windows platforms. • RF-ITV - n-tiered architecture base on Oracle Solaris technology

Army Training Information System (ATIS)

Mission: Premiere, one-stop training solution for the Total Force.

Capabilities	FY22 Program Priorities
• Army Learning Management System – Centralized training management system that hosts courseware and delivers standardized training • Digital Training Facility/Mobile Deployed Digital Training Campus – Fixed, deployable and mobile classrooms used to conduct DL training to improve individual and unit readiness • Army e-Learning – Offers Courses in IT, Business Leadership, and Professional Development • Range Facility Management Support System – Web Based Range management application • ATIS (Development) – Combine 28 legacy training systems into a single solution that will provide training development, scheduling, resource learning and content management	• Legacy System Sub-sumption Plan • RMF re-accreditation • Agile SW Development that works in DoD environment • Market Research on Commercial Off The Shelf Products that will fulfill ATIS Development Capabilities

Stakeholders	Users	Software / Technology Stack
PEO EIS, TPO ATIS, Army U, CAC-T, ATSC, TPO Range, Army G-3/5/7 and ACOMs	1.8M Compo 1,2,3 DA Civilian and CTR	**cARMY:** FOX BKS, ArcGIS, GCDS, Worksoft, NeoLoad, WhatFix, Qlink, Mulesoft Anypoint, NNCompass (see notes) **HRC/ALTESS**: CISCO, Oracle, VMware, Tivoli, Remedy, VOIP

Army Vantage

Mission: Allow the Army to "see itself" by providing senior leaders, Soldiers, staff and analytic communities with a common, integrated data platform to visualize and analyze the current and predicted future state of the Army

Capabilities	FY22 Program Priorities
- Vantage spans all data domains, powers a set of configurable views, and provides tools for making data-driven decisions at every level of the Army - Supports the Army's modernization and readiness priorities - Displays past, current and future total force data - Produces predictive analytics - Empowers users at every level through collaboration - Facilitates real-time or near real-time decision making - Supports strategic, operational and tactical planning - Helps identify cost savings and return on investment	- Continue prioritization of proposed LOEs for Platform integration through COC governance - Continue data quality improvements by making all data visible, accessible, understandable and trusted - Continued support of independent development of front-end workflows. - Expansion of the Vantage Data Brokerage capabilities

Stakeholders	Users	Software / Technology Stack
-Army CDO (Functional) -Executive Stakeholders: G-4, XVIII ABC, FORSCOM, 82d, AMCOM, G-3/5/7, AMC, G-2, AFC, PEO-EIS, USASOC, ABO, ASC, OBT, G-4/6, and G-1	-Vantage has over 32,000 active users, including military, civilians, and contractors, with demand growing daily. -Most active MACOMs include: USAMC, FORSCOM, OSA, USARC	- SAAS Palantir Foundry Product / Palantir Federal Cloud Services & AWS at FedRAMP IL5/IL6

ABO = Army Budget Office
ABC = Army Business Council
AFC = Army Futures Command
AMC = Army Materiel Command
AMCOM = Aviation and Missile Command

ASC = Army Sustainment Command
AWS = Amazon Web Services
COC = Council of Colonels
FORSCOM = United States Army Forces Command
HQDA = Headquarters Department of the Army

MACOM = Major Army Commands
OBT = Office of Business Transformation
OSA = Office of the Secretary of the Army
PEO EIS = Program Executive Office, Enterprise Information Systems
SAAS = Software as a Service

SSA = Strategic Support Area
USASOC = U.S. Army Special Operations Command

Enterprise Business Systems – Convergence

Mission: To implement a modernization approach that will improve how all business is done and reported in a rapidly modernizing Army by reengineering existing processes and developing the full range of needed requirements to enable readiness generation, modernization and direct business-related support from the strategic support area to the tactical edge – '*Commercial as Possible, Military as Necessary*'

Capabilities (Future)	FY22 Program Priorities
Convergence of existing 6 SAP ERPs into a single solution (GFEBS, GFEBS SA, GCSS-Army, LMP, HQAES, AESIP) **Functional:** • Force Planning • Force Equipping • Force Readiness • Force Deploy **Enabling:** • Procurement • Human Resources (integration with IPPS-A) • Technology • Finance	**Functional:** • Functional Requirements ATP • Further Requirements Definition • Additional Business Process Reengineering (BPR) • DOTMLPF-P Actions **PMO:** • Finalize Acquisition Approach • Execute initial contract action • Develop materials in support of BCAC Phase 3

Stakeholders	Users (Future)	Software / Technology Stack
AMC, FM&C, OBT, CIO G-6, G-4, and CASCOM	200,000+ finance, logistics, real property and environmental management users across the Army	Composable ERP with Transactional Core, Enterprise Service Bus, Non-ERP SaaS / PaaS solutions and microservices

AESIP = Army Enterprise Systems Integration Program
AMC = Army Materiel Command
CIO = Chief Information Office
CRD = Change Requirements Document
ERP = Enterprise Resource Planning

FM&C = Financial Management and Comptroller
GCSS-Army = Global Combat Support System - Army
GEBS-SA = General Fund Enterprise Business System – Sensitive Activities
GFEBS = General Fund Enterprise Business System

HQAES = Headquarters Army Environmental System
IPPS-A = Integrated Personnel and Pay System - Army
LMP = Logistics Modernization Program
OBT = Office of Business Transformation
OTA = Other Transaction Authority

PaaS = Platform as a Service
SaaS = Software as a Service

Global Force Information Management (GFIM)

Mission: Provide an integrated, interoperable Global Force Management Data Initiative compliant platform that supplies authoritative Dynamic Force Structure and Dynamic Force Employment data.

Capabilities	FY22 Program Priorities
• Presents near real time Global Force Management (GFM) insight of Army formations down to team level at rest and in motion • Automates FM functions enabling Deploy to Redeploy/Retrograde (D2RR), DOD GFM, and Joint C2 processes • Authoritative, open data platform for the exchange of unclassified/classified force structure, GFM, and readiness data • Distributes Global Force Management – Data Initiative (GFM-DI) compliant authoritative data	• Completion of GFIM Prototype Phase 1 (focused on six legacy systems providing 'at rest' Army Force Management data) • Award of Phase 2 (providing 'in motion' Army Force Management data) • Integration with the G-3 Data Lake • Foundation of fundamental Force Management processes and data

Stakeholder	Users	Software / Technology Stack
G-3/5/7 Army Force Management professionals	160,000+ Army wide Combatant Commanders from Company to Division	Cloud based, open source, no/low code

Logistics Information Systems (LIS)

Mission: Responsible for acquisition program management and lifecycle sustainment within cost, schedule, and performance for assigned logistics information systems

Capabilities	FY22 Program Priorities
• Standard Army Ammunition System (SAAS): Legacy system for tactical ammunition supply management • Property Book Unit Supply Enhanced (PBUSE): Legacy system for property accountability and unit supply operations. Used as a stand-alone capability in 2 Cmds for classified property accountability.	• Maintain SAAS operational viability, cybersecurity readiness, and server availability to support tactical and installation ammunition management operations world-wide • Maintain PBUSE application software's cyber readiness and functional capabilities until an objective classified capability is delivered

Stakeholders	Users	Software / Technology Stack (SAAS)
HQDA G-4/6 (Proponent) CASCOM (Cap Dev) JMC	385 SAAS authorizations (TOE/TDA ASPs, ATHPs, or DMCs) 560+ SAAS users accounts	SAAS: centralized server architecture hosted by ALTESS Data Center / Remote operations server access via CAISI-VSAT PBUSE: centralized Oracle SPARC server architecture

ALTESS = Acquisition, Logistics and Technology
   Enterprise Systems and Services
ASP = Ammunition Supply Point
ATHP = Ammunition Transfer-Holding Point
CAISI = CSS Automated Information System Interface

CASCOM = Combined Arms Support Command
DMC = Distribution Management Center
HQDA = Headquarters Department of the Army
JMC = Joint Munitions Command
SPARC = Scalable Processor Architecture

TDA = Table of Distribution and Allowances
TOE = Table of Organization and Equipment
VSAT = Very Small Aperture Terminal

Procurement Opportunities

PROGRAM	PROCUREMENT TYPE	DESCRIPTION	OFFICE	CONTRACT / TYPE	ESTIMATED AWARD DATE
LIS	SERVICES	PBUSE PDSS/Capability Support	ACC-RI	CPFF	2QFY22
ATIS	SERVICES	Army e-Learning	MICC-Ft. Eustis	FFP	2QFY22
EBS-C	SERVICES	EBS-C OTA	ACC-RI	OTA	FY22
ATIS	SERVICES	Digital Training Facility Managers	MICC-Ft. Eustis	FFP	3QFY23
Army Vantage	SERVICES	Enterprise Data Analytics Platform	ACC-NJ	TBD	4QFY23

EBS-C Industry Day – December 2021

Points of Contact

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For more information about ARDAP and its portfolio, visit https://www.eis.army.mil/programs/ardap
Vendors may request a meeting with our programs at: https://theforge.force.com/peoeis/s/

AESIP = Army Enterprise Systems Integration Program
AMIS = Automated Movement and Identification Solutions
EBS-C = Enterprise Business Systems Convergence

GFIM = Global Force Information Management
LIS = Logistics Information Systems

The Army relies on PEO EIS

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