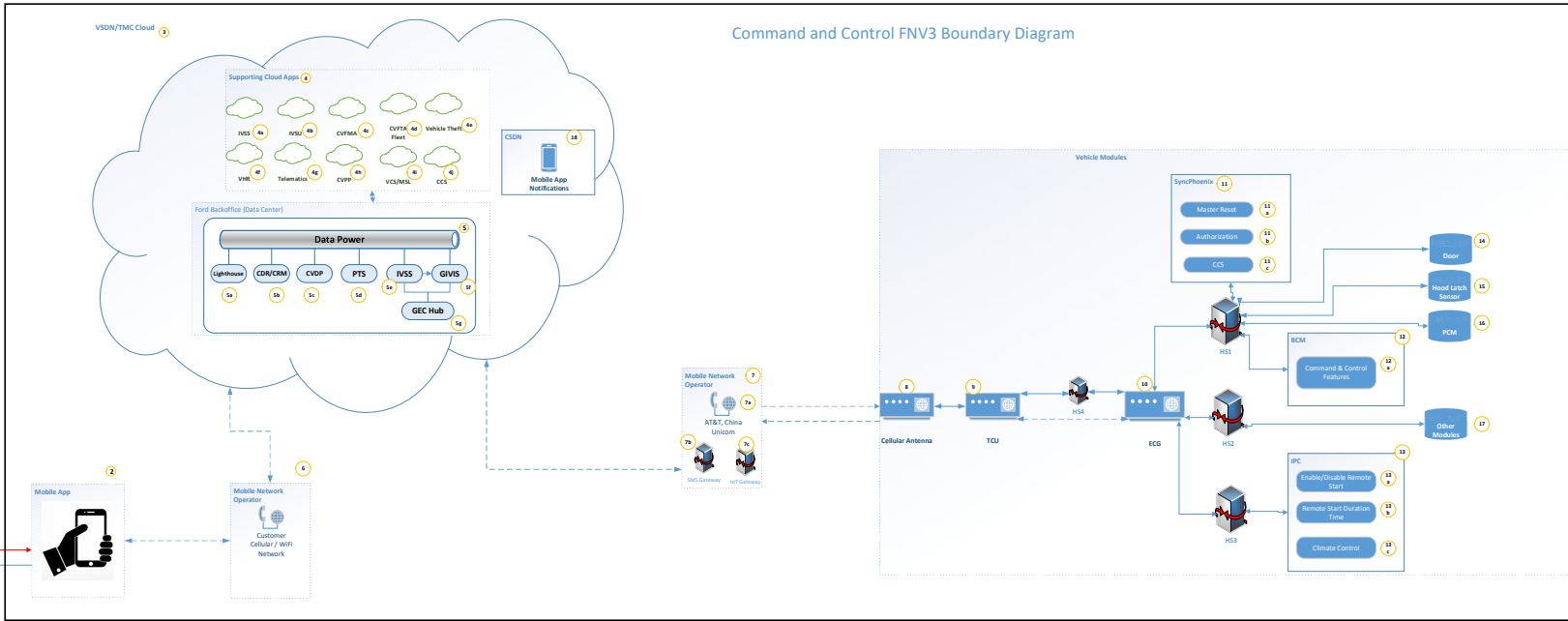


Command and Control FN3 Boundary Diagram



Legend

1. Mobile app customer.
2. Smartphone with mobile app (FordPass/Lincoln Way) that gives customer access to Command & Control Feature HMI
3. VSDN/TMC Cloud
4. Supporting Cloud Apps
- 4a. IVSS Reads GEC Hub mailbox and handles encrypted Supplier feed files from GEC Hub. Wraps keys for region and provides GIVS key blobs and other TCU data
- 4b. IVSU
- 4c. CVTMA Connected Vehicle Feature Management Application: Provides a common, generic - data driven set of constructs
- 4d. CVFTA Connected Vehicle Ford Telematics Application (FT FIA) Vehicle Health Report application which receives data from TCU diagnostics and/or Applink
- 4e. Vehicle Theft
- 4f. VHR
- 4g. Telematics
- 4h. CVP
- 4i. VCS/MSL
- 4j. CCS
5. Data Power Ford backoffice An XML security gateway that sits on the edge of the 828 network that works as standard hub for exchanging messages (through web service interfaces) to and from any third party application outside of ford network with any Ford enterprise system
- 5a. Lighthouse Provides Authentication and password management for MLM-C; Functionality: Register User, Login/Authentication, Change Password, Reset Password, List Available Secret Questions, Validate Security Questions
- 5b. CDR/CRM Consumer Data Repository - the CRM system for Ford North America /An Internal Ford system that manages user profile data and provides authentication with the registered vehicles and roles for a given user. Functionality: Create/Update Consumer, Retrieve Consumer and VIN mapping, Validate unique user id (email or phone number), Associate VIN to Consumer, Disassociate VIN to Consumer, Disassociate All Consumers from VIN, Take Ownership of Vehicle (move VIN from one consumer to another consumer)
- 5c. CVP Connected Vehicle Data Platform which stores vehicle data for future analytics. IVSS Cloud - Connected vehicle security application
- 5d. PTS Provides Make/Model/Year of vehicles in region and provides link to ownership information. Once link is provided Mobile app uses PTS directly for browsing. Functionality: Decode VIN for Make, Model and Year, Get List of Make, Model and Year for Channel (region), Validate unique user id (email or phone number), Get Owner Manual Information for VIN, Get Owner Manual Information for Make, Model and Year
- 5e. IVSS Reads GEC Hub mailbox and handles encrypted Supplier feed files from GEC Hub. Wraps keys for region and provides GIVS key blobs and other TCU data
- 5f. GIVS An incoming data feed that provides the SDN NG with the meta data for each TCU. This feed is critical because it provides the shared secrets required to enable communication between SDN NG and the TCU. Functionality: Process Incoming TCU Supplier Data and save shared secrets securely
- 5g. GEC Hub Drop point for Supplier data. TCU manufacturer sends encrypted TCU feed file GEC Hub mailbox
6. Customer Cellular or WiFi Provider
7. Vehicle Mobile Network Operator: Provider for wireless communication services
- 7a. Telecom Provider AT&T (Ma), Unicom(Cn)
- 7b. SMS Gateway. Provide the ability to send SMS message to the TCU; Functionality: - Send Wake-up and Send APN Change
- 7c. IoT Gateway. An API integration layer supporting direct integration with AT&T OEM Partners, backend AT&T IT Platforms (e.g. CSJ), AT&T Wi-Fi portal and external partners (e.g. Jaeger).
8. Cellular Antenna
9. TCU
10. CCS
11. SyncPhenix Module
- 11a. Master Reset. SyncPhenix functionality that allows client to de-authorize users who previously have the ability to remote control the vehicle. Brand Master Reset
- 11b. Authorization. SyncPhenix functionality that allows client to remote control the vehicle after completing the authorization process
- 11c. CCS. Customer Connectivity settings, allowing the user to disable data connection or disable commands & controls functionality only (lock/unlock & remote start)
12. Body Control Module. Electronic Control Unit responsible for controlling electronic accessories in the vehicle's body
- 12a. Command and Control Features: Door Lock/Unlock, Remote Start, Schedule Remote Start, Remote Climate Control, Zone Lighting, Trailer Light Switch
13. Instrument Panel Cluster
- 13a. Enable/Disable Remote Start. Ability to disable or enable remote start function from the cluster
- 13b. Remote start duration time. Option available through the vehicle settings to select the desired duration time (5, 10, 15)
- 13c. Climate Control. Option through vehicle settings that allow the user to select between "Auto" or "Last Settings"
14. Door
15. Hood Latch Sensor
16. Powertrain Control Module
17. Other modules that communicate on HS2
18. CSDN
19. Ford Assembly Plant
- 19a. TCU Swap
- 19b. Provisioning
- 19c. ECS Swap
20. Ford Dealership & Service

Legend

- Physical Interaction With Customer
- Wireless / Cellular Information
- Physical Information
- C&C Boundary

