

## VANGUARD INTEROPERABILITY TEST WITH HONEYWELL ONEWIRELESS SYSTEM

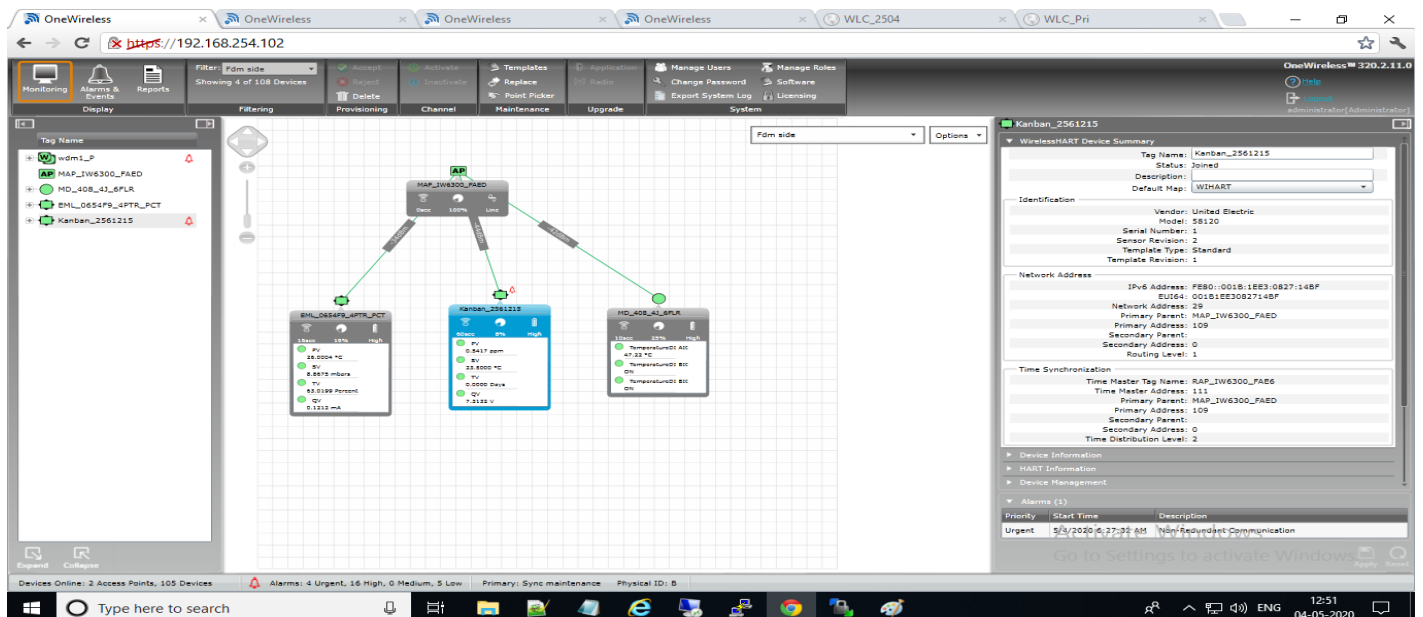
The Vanguard Toxic and Combustible WirelessHART® Gas Detector was tested for wireless interoperability at the Honeywell Bangalore (India) Testing Facility. The Vanguard integrated successfully with the Honeywell OneWireless Gateway, Field Device Manager (FDM R511.1) and Experion DCS (R511.3).

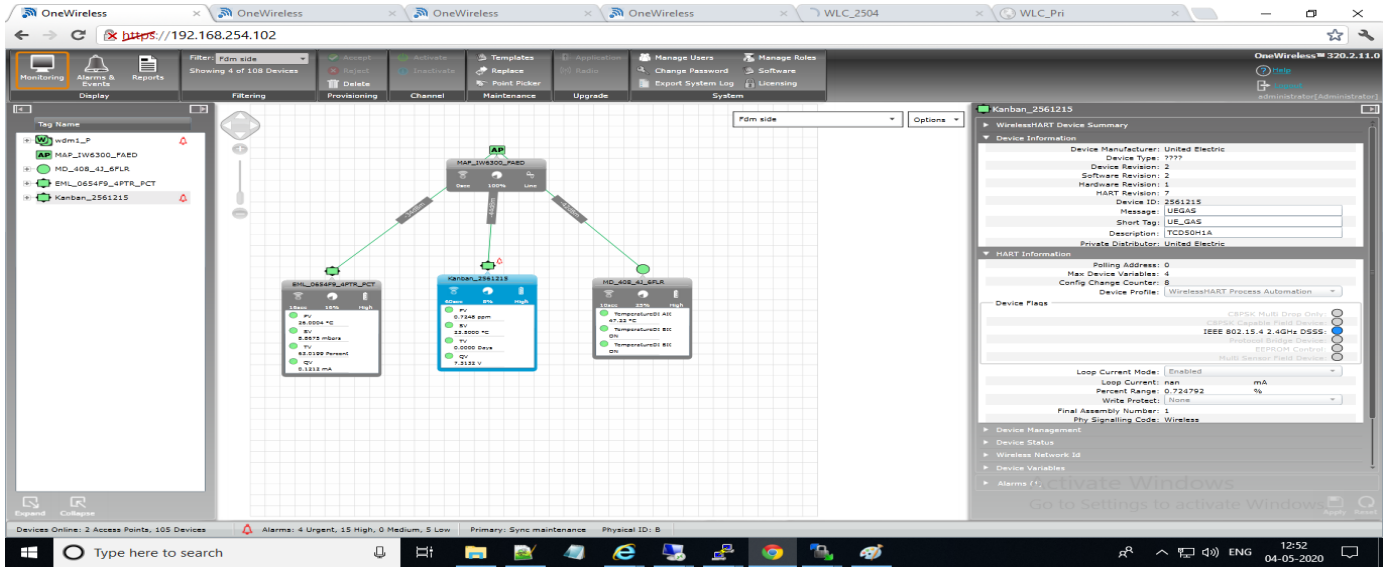
This technical note outlines the test steps with corresponding screen shots demonstrating successful integration across the 3 platforms.

### A. ONEWIRELESS GATEWAY

The following steps and observations were noted to connect the Vanguard to the OneWireless Gateway.

1. Join key and network ID was given to device
2. The device joined the OneWireless network
3. Process values (Primary variable – gas concentration; Secondary variable – temperature; Tertiary variable – days since calibration; Quaternary variable – battery voltage) and diagnostics were reported
4. Stayed in the network without any network synchronization issues
5. All device data is read from the OPC-UA and other external clients from OneWireless gateway.

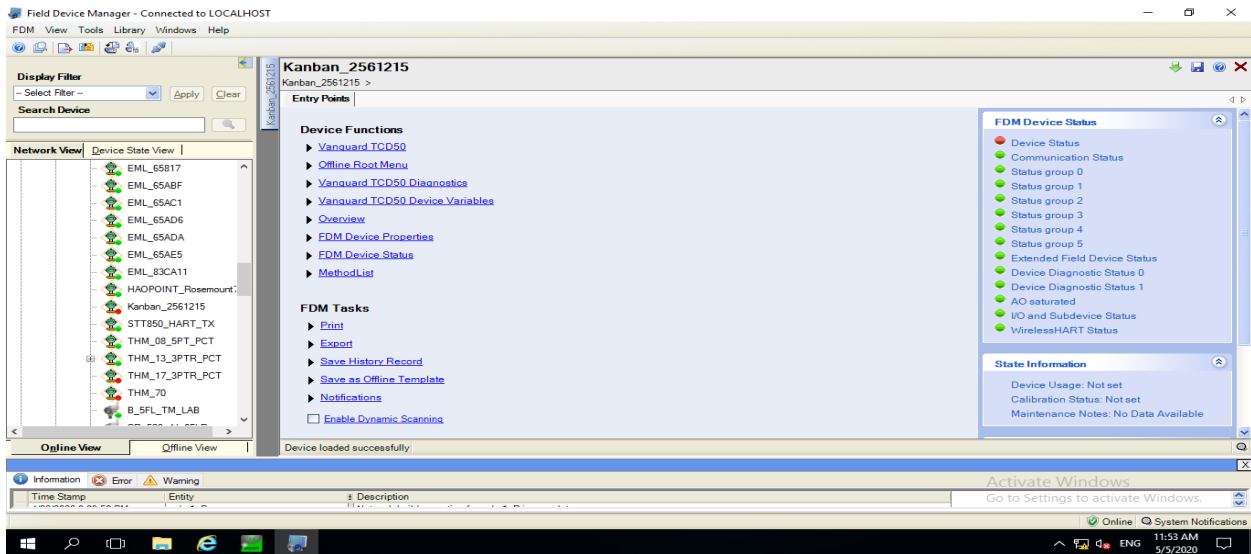


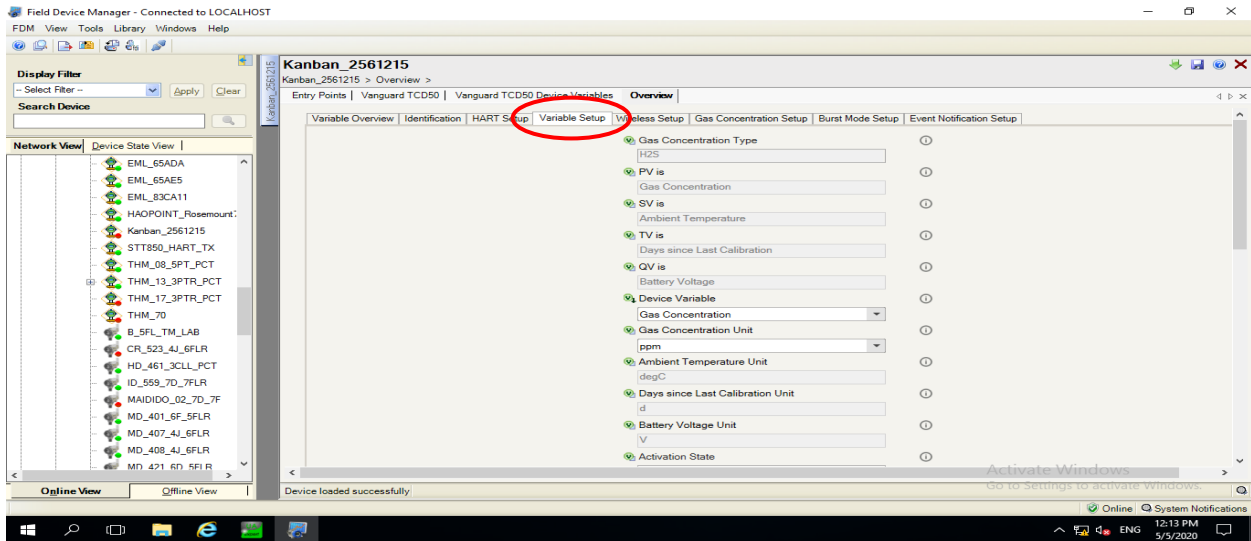
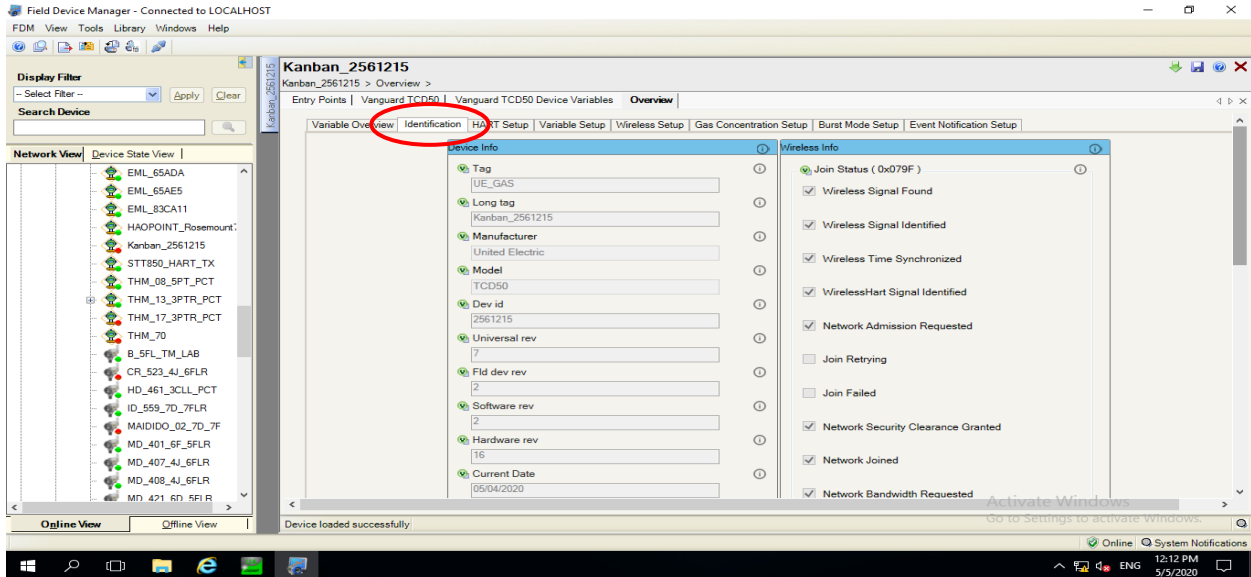


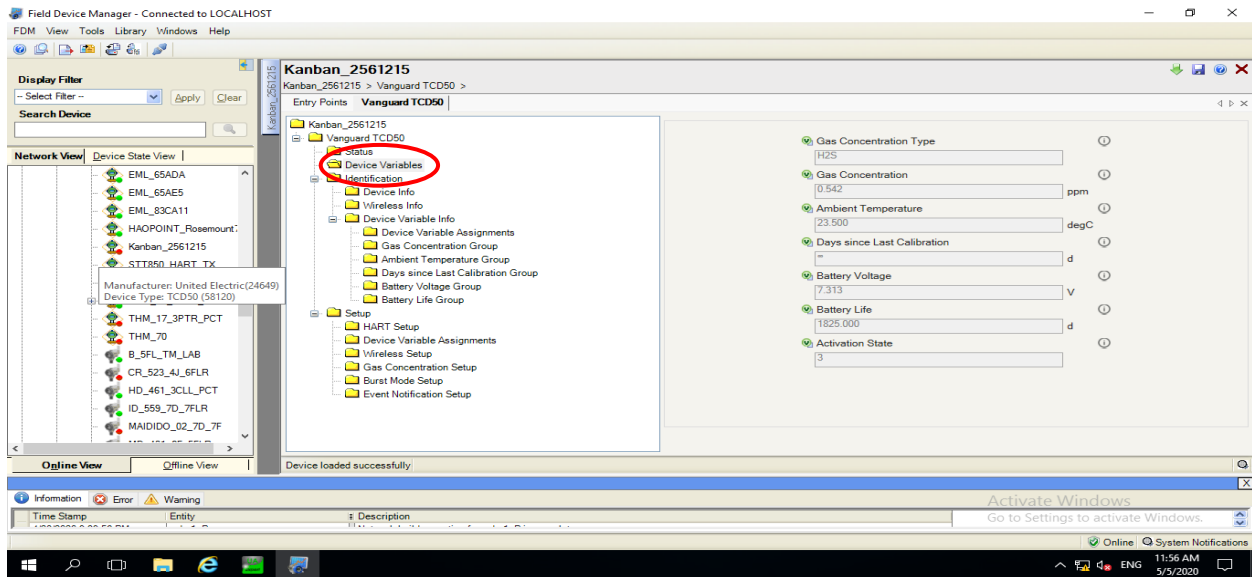
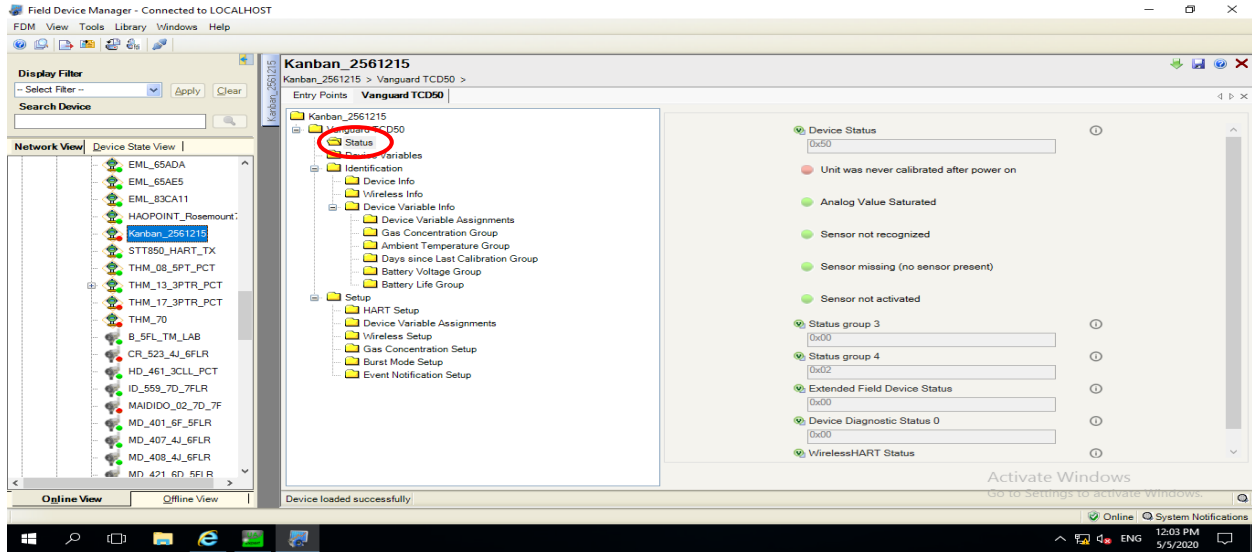
## B. FIELD DEVICE MANAGER (FDM R511.1)

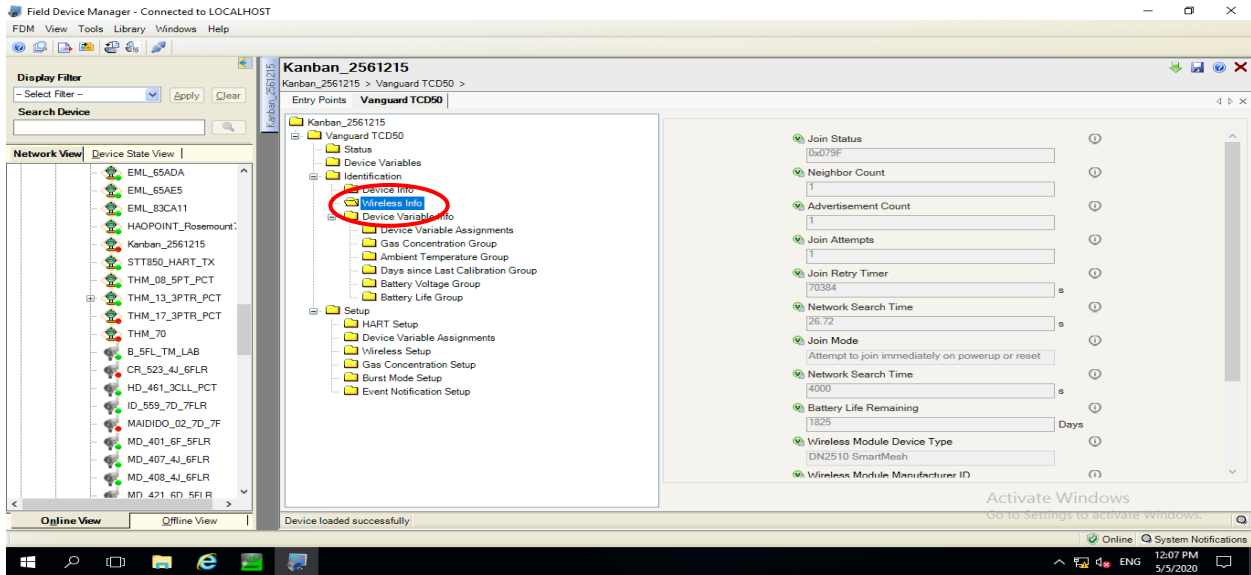
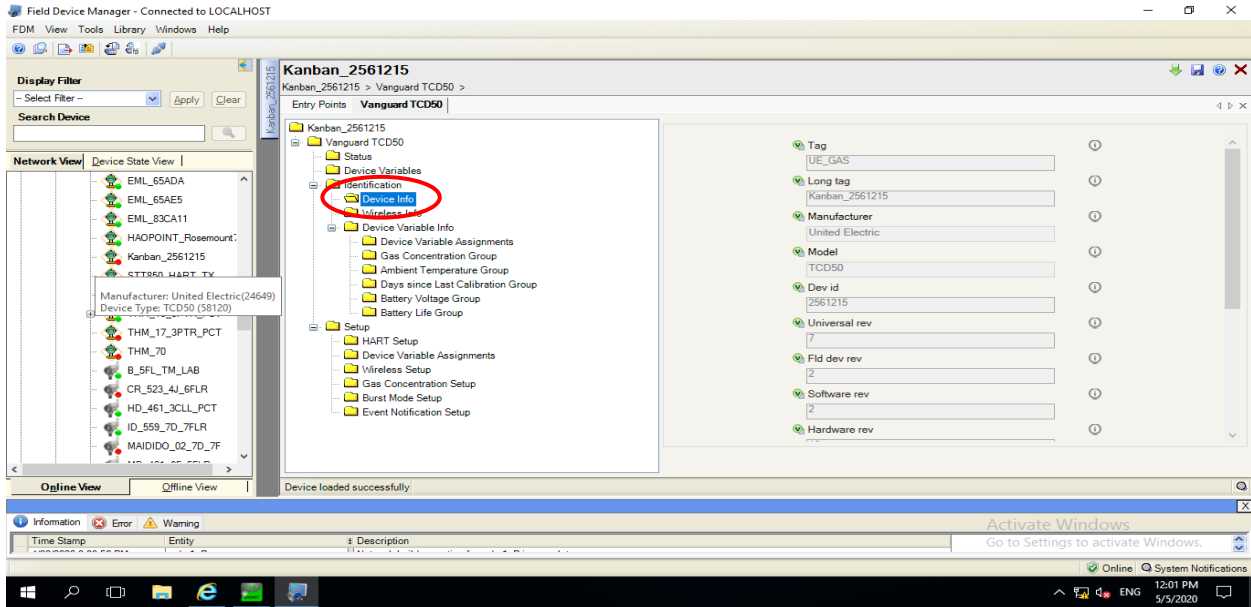
The Vanguard Toxic and Combustible WirelessHART® Gas Detector was integrated into Honeywell OneWireless R320.2 system and subsequently with the Honeywell Asset Management Software called Field Device Manager (FDM). The Honeywell FDM communicated with Vanguard over HART-IP interface through the OneWireless Wireless Device Manager (WDM).

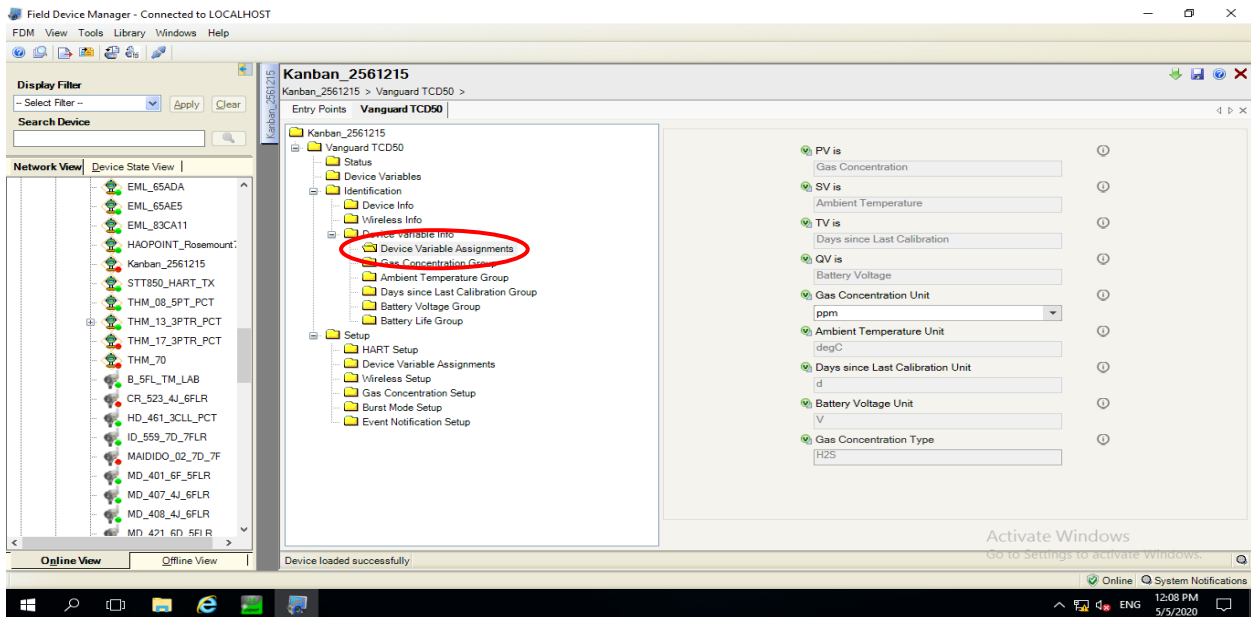
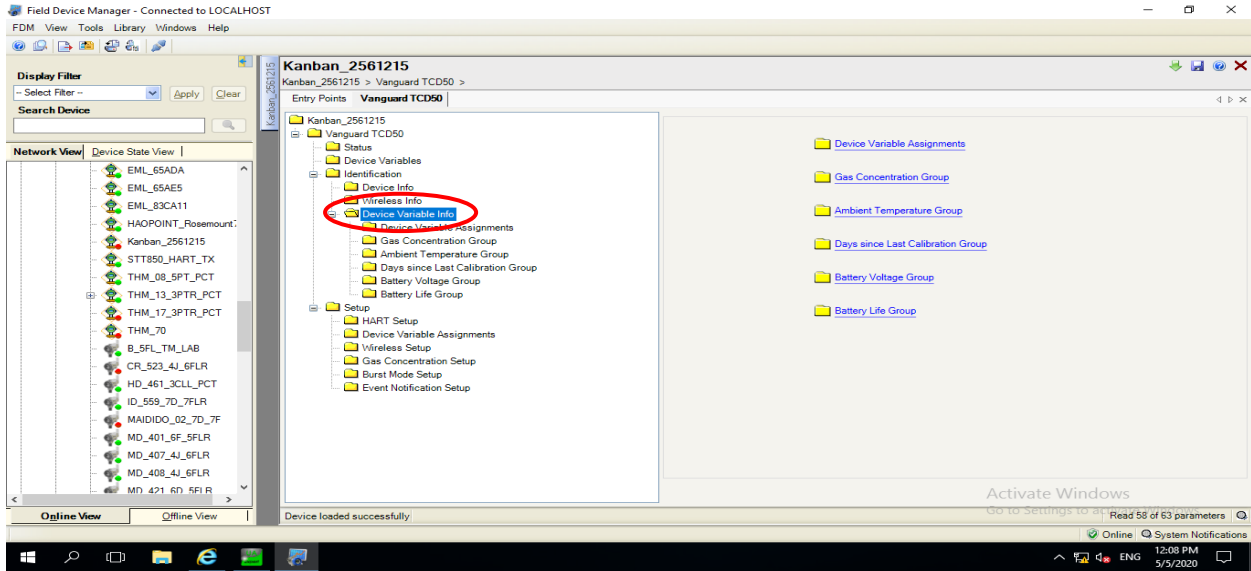
The following screenshots showcase the Vanguard data representation in the Honeywell FDM software.

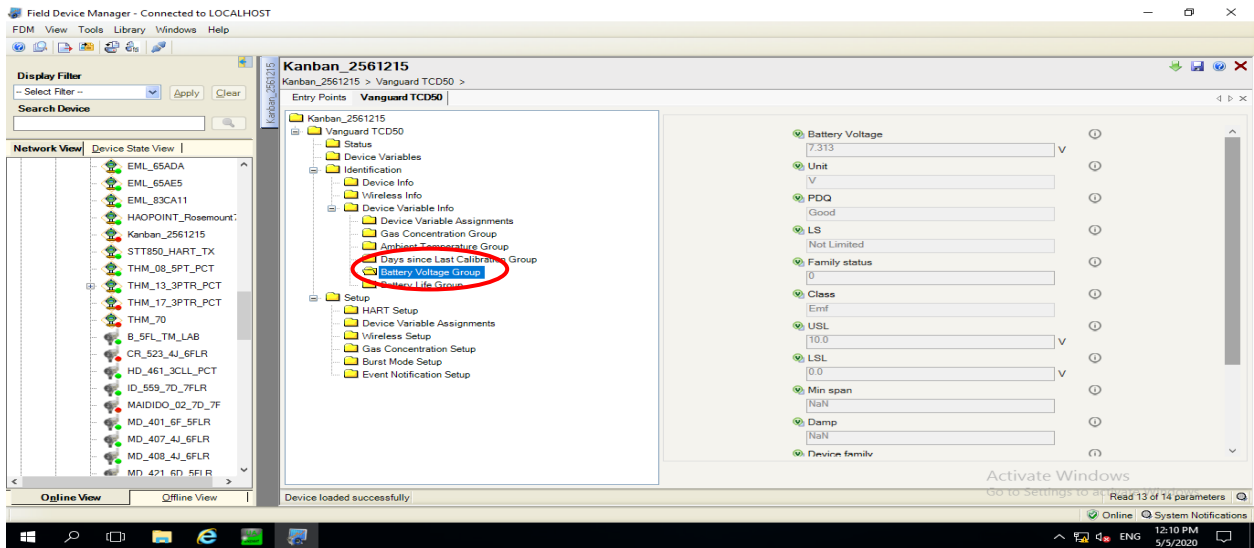
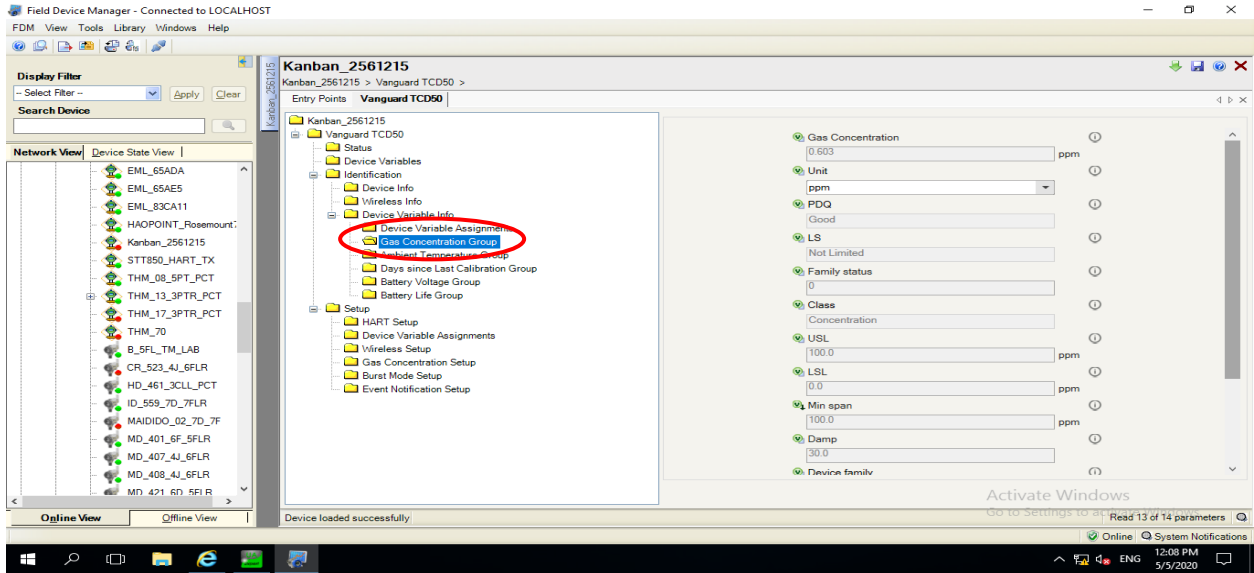


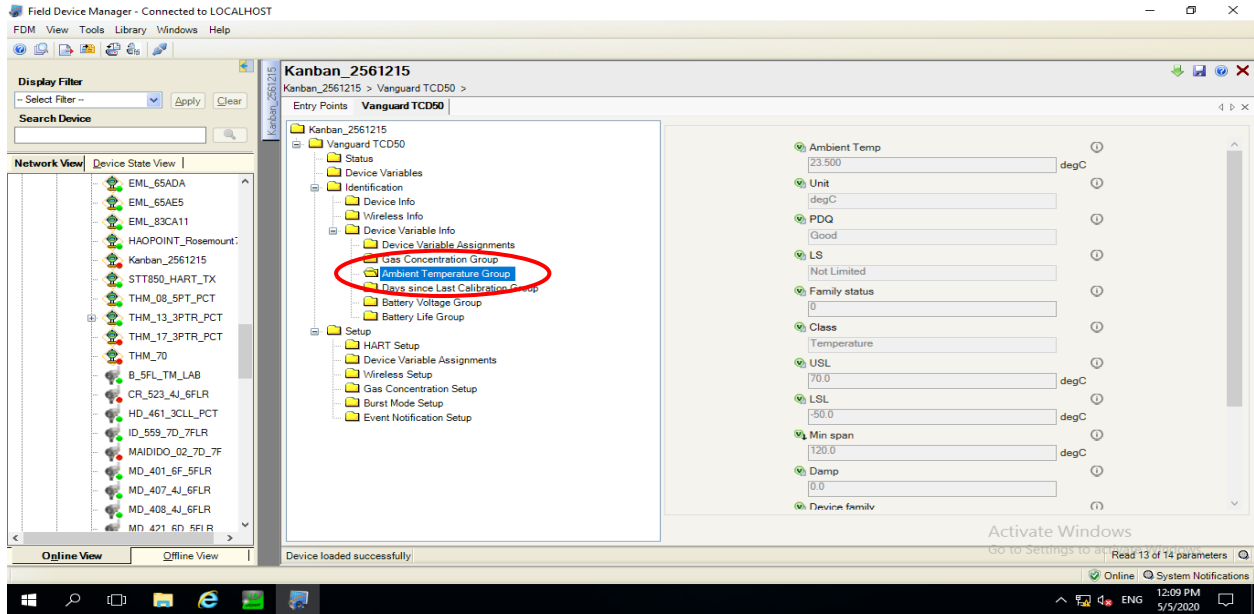






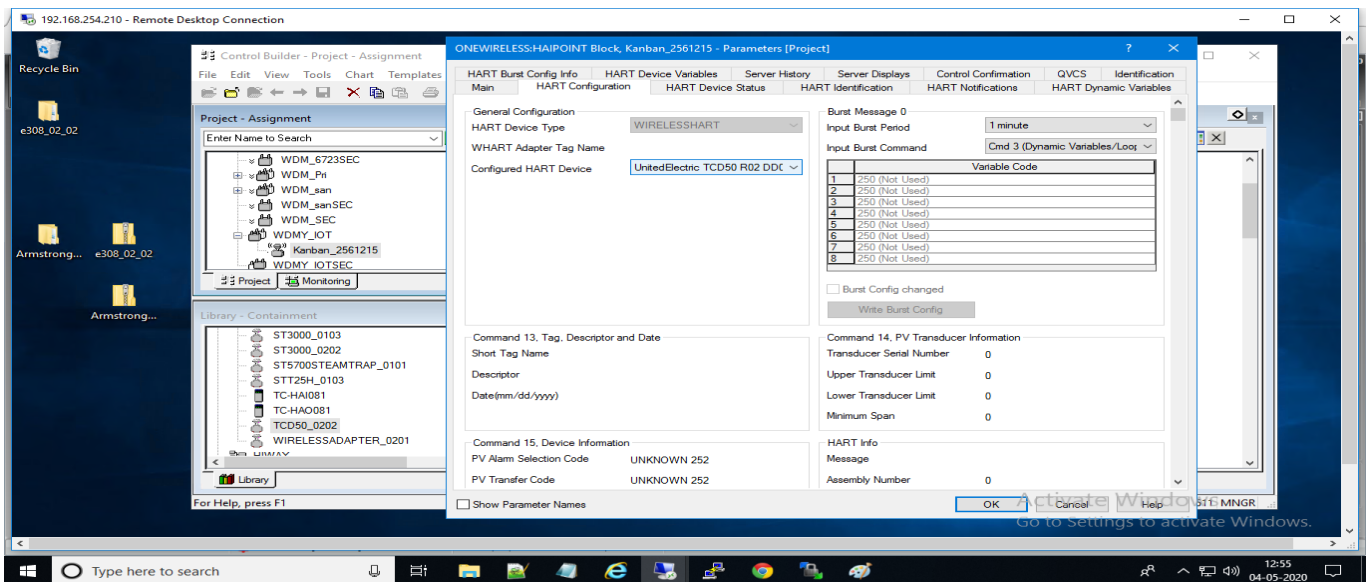


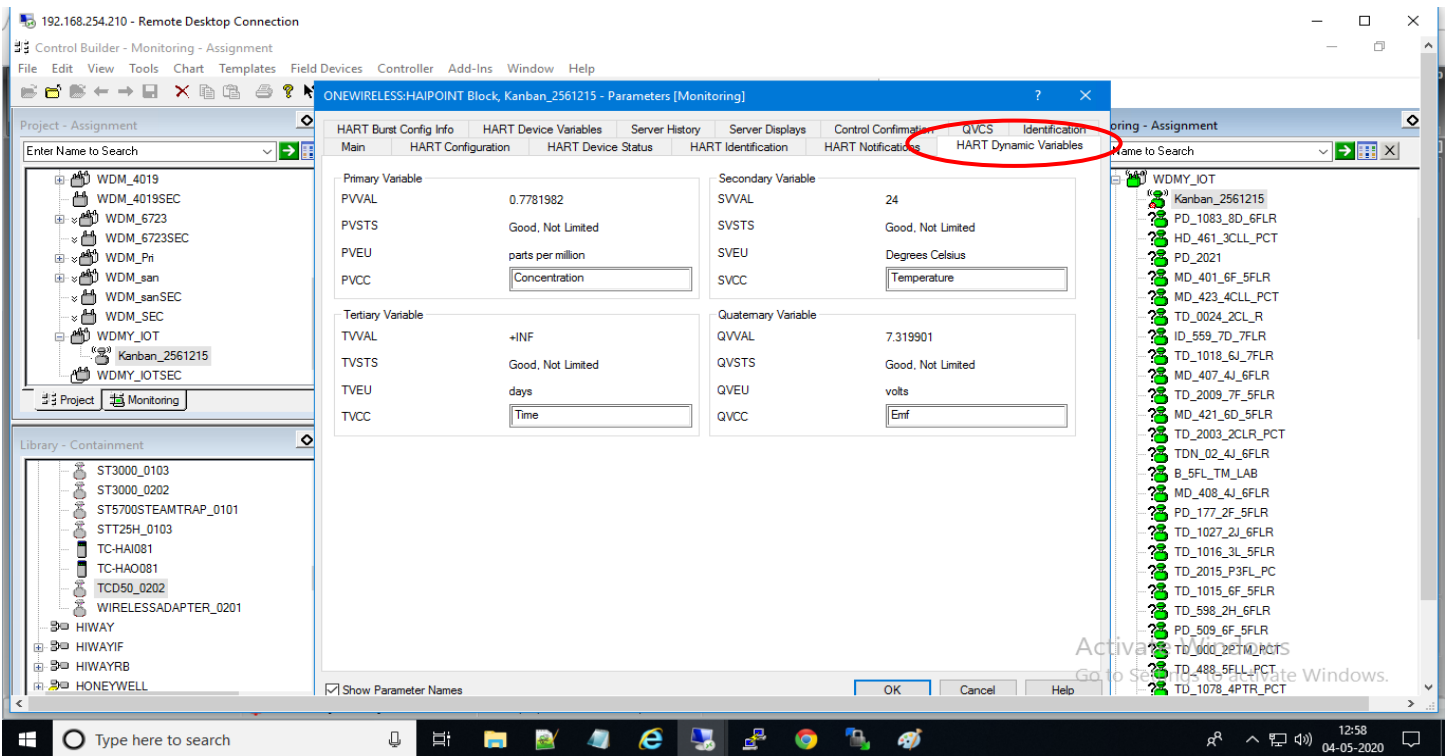
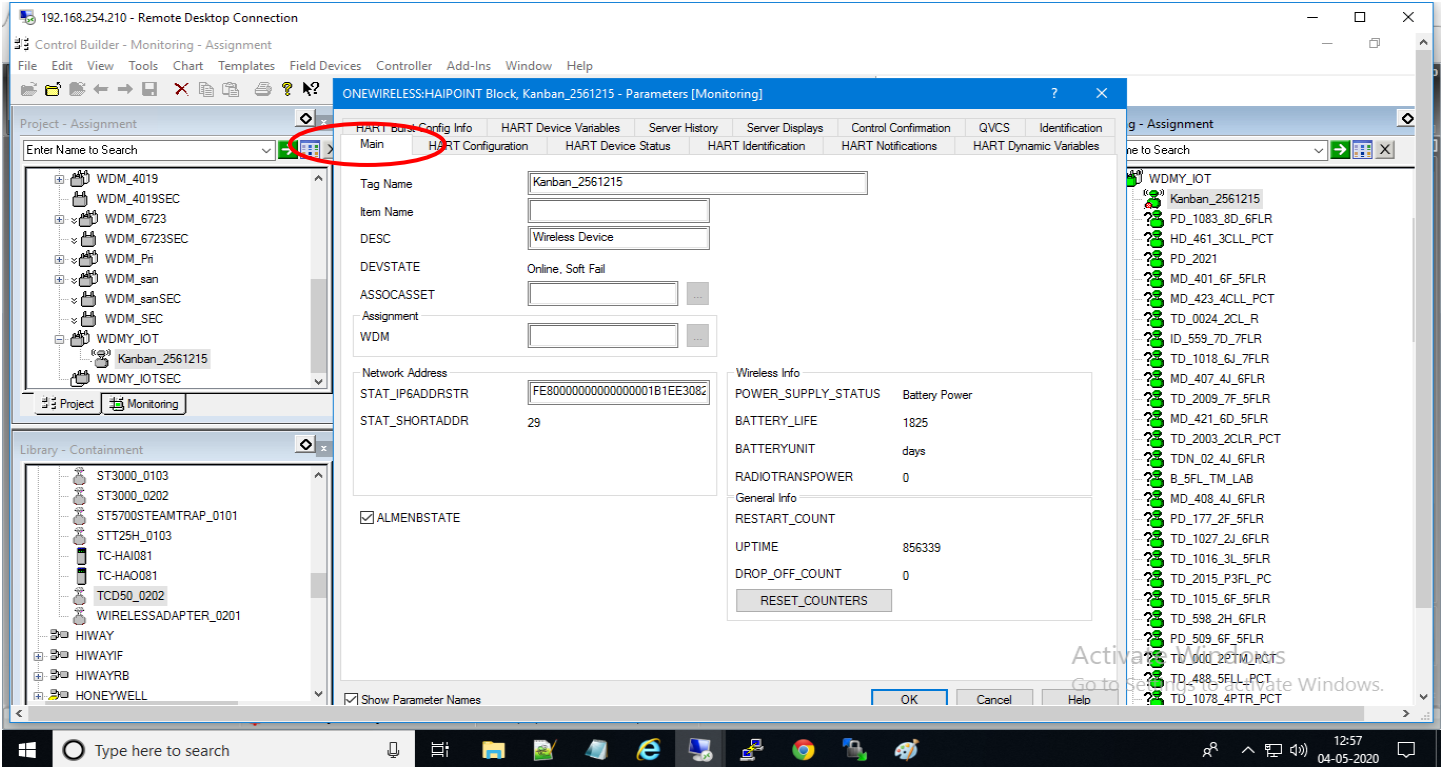




### C. EXPERION DCS (FDM R511.3)

The Vanguard Toxic and Combustible WirelessHART® Gas Detector was integrated into the Honeywell OneWireless R320.2 system and subsequently with Honeywell’s Experion DCS via Honeywell gateway over Common Data Access (CDA) interface. The following screenshots showcase this integration.





END OF TECHNICAL NOTE