

with head units running firmware version 2.0 and earlier.” As an extension of this workflow, firmware upgrades might be pushed to individual ECUs to fix software bugs and avoid expensive significant car recalls.

**Figure 2. Sample Product for Satellite Radio Update on Head Unit in the AirWatch Console**

The screenshot shows the 'Edit Product' interface in the AirWatch console. The title bar is blue with the text 'Edit Product' and a close button. Below the title bar are five tabs: 'General' (selected), 'Manifest', 'Conditions', 'Deployment', and 'Dependencies'. The main content area contains the following fields:

- Name\***: Satellite Radio Update 3.4
- Description**: Updates SRU channels
- Managed By\***: Automotive Use Case
- Assigned Smart Groups**: North America @ Automotive Use Case (with a search icon and a 'View Device Assignment' button below it)
- Assignment Rule**: SatelliteLicense = 'Valid' AND ( Language = 'English' OR Language = 'French' ) AND ChannelSet = 'Canada' AND SatelliteHardwareVersion >= '2.0'

At the bottom of the form are three buttons: 'Save', 'Activate', and 'Cancel'.

### 3.2.2 Remote Command and Control

As IoT matures, people expect to remotely command and control connected objects. Remote car lock/unlock, A/C setup, and car finder and charging management for electric vehicles are features launched by some of the most innovative car manufacturers in recent years. These features require that the entire value chain to be integrated and multiple components, from vehicle ECUs to back-end application and database servers, to interact flawlessly. Complexity and integration costs increase as more technologies are integrated. Combining AirWatch product provisioning and scalable API framework with the VMware software-defined data center (SDDC) and analytic tools allow OEMs to build a sustainable connected car strategy for the future.

#### 3.2.2.1. Use Cases

- Remote car lock/unlock
- Remote A/C setup/pre-heat/cooling
- Find my car

### 3.2.3 Apps, Content, and User Profile Deployment

Mobile apps enhance our everyday life, quality, and productivity. Ubiquitous and secure access to content (email, documents, media) is the core of today’s connected world. As cars become more and more connected, drivers are expecting app and content delivery to be as flexible as on their smartphones and tablets. The AirWatch mobile application and content management can be used to remotely provision