

Appendix K

OBS and CCS Administrator Toolkits

OBS Administrator Tools for Revenue Vehicle and Base Operations Domains

REVENUE VEHICLE DOMAIN

OBS Administrator's Tool Description	SOW Reference
Creation/deletion of user accounts.	Various
Set defaults for and modify all Agency-specific and configurable parameters	Subsection 2.A.1.4.4.j. General Software Requirements Subsection 2.A.1.7.3.1.1. Configurable Parameters
Provide software error information to user upon demand.	Subsection 2.A.1.4.4. General Software Requirements
Provide tools to tune and clean up database(s) on as-needed basis.	Subsection 2.A.1.7.2.2.3. Database Integrity
A parameterized process for archiving data from database(s).	Subsection 2.A.1.8.3.1. Data Collection.
Utilities to access and control all data and data processes involved with the Landing Pad/Base Server and the OBS Raw Repository.	Subsection 2.A.1.7.3.2.2. Data Manipulation
Initiate a request for the RV to transmit one or more of its service data sets to the Landing Pad/Base Server.	Subsection 2.A.1.7.1.3. Version Control
Utilities (written scripts and procedures) to perform all data exchanges.	Subsection 2.A.1.7.4. Data Exchange Requirements (Software)
Full configurable capability for the "Bus in a Box" simulator via an Intranet connection.	Subsection 2.A.3.8.4.5. "Bus in a Box" Simulator
Hold access rights and grant/manage access rights for Vehicle and Radio Maintenance testing functions including: <ul style="list-style-type: none"> Log in to multiple vehicles. Test routes to check vehicle and OBS performance. DDU screens and functions for maintenance of the VLU. NOTE: These will not be accessible with an operator login. All OBS functions for troubleshooting hardware problems. Radio/AVL communications (Level 2). Tools and controls to enable monitoring and troubleshooting of the OBS interface to the radio/AVL system (Level 2). 	RV-1-Initiate Vehicle for Operation
<ul style="list-style-type: none"> Assign criticality to configuration comparison alarm types. 	RV-2-Verify Vehicle Configuration (RV)
<ul style="list-style-type: none"> Assign and dynamically reassign priorities for transmission of historical service data from the RV to the Landing Pad/Base Server. Determine contents and access right to maintenance logs of historical data related to configuration versions, processing errors, etc. 	RV-3-Take Vehicle Out of Operation

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<ul style="list-style-type: none">• Assign the shutdown order for RV subsystems in vehicle shutdown process.• Assign time delay in shutdown of master system and subsystems after RV is turned off.	
<ul style="list-style-type: none">• Select, process, stage and transmit data to the RV from the Landing Pad/Base Server.• Assign and dynamically reassign priorities for transmission of service data sets and other needed data/files for transfer between the Landing Pad/Base Server to the RV.• Manage the receipt, activation, storage and version control of planned service data sets and other needed data/files for the RV.	RV-4-Update Vehicle Data Subsection 2.A.1.5.1.2. Base Operations Domain
<ul style="list-style-type: none">• Track changed out on-board subsystems and reconfigure associated designations/parameters.• Manage health status events including logging, data storage and reporting.	RV-5-Monitor System Health
<ul style="list-style-type: none">• Adapt the flow of data and event management to handle the addition or removal of new, replaced, or optional components.• Manage the handling, logging and reporting of event errors.	RV-6-Manage Events
<ul style="list-style-type: none">• Select arrival, departure or estimated time as a baseline for measuring time point schedule adherence.<ul style="list-style-type: none">- Set as global default.- Override the global default for selected timepoint(s).• Manage, edit and/or modify the on-board route adherence parameters.• Detect and report schedule adherence at designated timepoints.	RV-8-Route & Schedule Adherence
<ul style="list-style-type: none">• Create, manage and maintain audio data.• Specify which announcement will be triggered where (location).• Manage the content, volume of and conditions under which exterior and interior stop announcements occur.• Configure PA and Annunciator events to be logged.• Remotely update DDU configuration settings that allow/disallow Operators to enable/disable annunciator, PA and "next stop" displays and volume control, where applicable, over the WLAN.	RV-10-Manage PA and Annunciator
<ul style="list-style-type: none">• Specify 'Fault' conditions and related data sets by type, vehicle type and specific vehicle ID.	RV-11-Manage AVM
<ul style="list-style-type: none">• Define the trigger point at which the destination sign will automatically change.	RV-13-Interface to Destination Signs
<ul style="list-style-type: none">• Configure messages to update the variable TSP fields.	RV-16-Manage TSP Data Tag

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BASE OPERATIONS DOMAIN

OBS Administrator's Tool Description	OBS/CCS Use Case Reference
<ul style="list-style-type: none"> Set defaults for and modify all Agency-specific and configurable parameters 	Subsection 2.A.1.4.4.j.General Software Requirements Subsection 2.A.1.7.3.1.1. Configurable Parameters
<ul style="list-style-type: none"> Assign and manage recipients for automated alarm messages for loss of WLAN connection. 	BO1-Verify Vehicle Configuration (BO)
<ul style="list-style-type: none"> Prepare and stage data updates for transmission from the Base Server to the Revenue Vehicle. Manage the transmission, activation and version control of service data sets and other files. 	BO2-Update Vehicle Data
<ul style="list-style-type: none"> Perform manual back up of Landing Pad data locally and remotely. Automatically and manually restore the Landing Pad data via a local and a remote device. Parse raw data for separate data loads Manage real-time and automated load of OBS data into the raw data Repository. When a failure occurs at any point during the load or processing of the Landing Pad or Raw Repository data, restart or reverse the process. Develop reports and queries Access and view all data in the Raw Repository Set and activate Generate Reports trigger when the data is ready. Release web reports to Intranet from KCM enterprise databases. Manually process report production, when necessary Supervise and set administrative privileges for the Landing Pad and Repository Adjust CPU resources Manually manage data loads to update, delete and insert to Repository Manage web reporting <ul style="list-style-type: none"> Revert and/or replace report with previous or updated data and rerun Set thresholds on required data for publication of reports based on file type and report type Set up and/or halt an automatic release of reports Grant/manage access rights to read and run any report Filter out bases, fleet type and report type from publication Grant/manage user access to Historical Playback Archive historical data 	BO3-Manage Historical Data

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- Reload archived data

CCS Administrator Tools for Communications Center Domain

COMMUNICATIONS CENTER DOMAIN	
CCS Administrator's Tool Description	OBS/CCS Use Case Reference
<ul style="list-style-type: none"> • Set defaults for and modify all Agency-specific and configurable parameters 	Subsection 2.A.1.4.4.j.General Software Requirements Subsection 2.A.1.7.3.1.1. Configurable Parameters
<ul style="list-style-type: none"> • Grant access rights for CCS users 	CC1-Log in CCS User
<ul style="list-style-type: none"> • Access polling tables, including all poll response message data fields. 	CC3- Manage Revenue Vehicle Polling
<ul style="list-style-type: none"> • Manage the CCS service and geographic data import process. <ul style="list-style-type: none"> - Select appropriate service data from TED - Import the service data from TED into the CCDB - Overwrite obsolete schedule tables from the CCDB - Import updated geographic service tabular data and shape files to CCS, including stop locations, timepoint locations, street names and map shape files - Verify the process and data quality • Implement the service and geographic data updates as the current version of the systems' schedule and GIS data. <ul style="list-style-type: none"> - Ensure implementation of the same schedule version for OBS and CCS - Replace or change the trigger for the data update for both the CCS and OBS - Activate "next," "current" and "previous " data sets for OBS and CCS - Revert to the "previous" dataset for OBS (via radio command) and CCS • Handle data errors during data load <ul style="list-style-type: none"> - Perform recovery operation - Reverse the data load if data validation is not achieved - Override the data load at any point in the process, with the system automatically rolling back any changes 	CC5-Manage Transit Service and Geographic Data
<ul style="list-style-type: none"> • Grant access rights to CSR Web reports for remote KCM Transit users groups. 	CC5-Manage Incidents
<ul style="list-style-type: none"> • Build, edit and launch Strategies • Configure all configurable functions of the CCS including but not limited to: 	CC13-Manage Configuration

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CCS Administrator's Tool Description	OBS/CCS Use Case Reference
<ul style="list-style-type: none"> - User access permissions - System logins - System settings - Client settings - Strategies process - Default channel assignment process - Automated notifications - Data logging - Reporting tools - Maximum number of reports - Report type, e.g. canned or custom - Reporting query parameters, e.g. time frames - Report format - Report content - Automated email of reports to designated recipients - Configure access to KCM standard software from the desktop, such as e-mail, Web browsers, word processing. - System hardware 	
<ul style="list-style-type: none"> • Manually manage CCS system health <ul style="list-style-type: none"> - Monitor, review and interact with data messaging systems and subsystems in real and/or near-real time. - Monitor, test diagnose and troubleshoot the general functions of the systems and subsystems including CCS databases, modules and process, internal interfaces and interfaces with the radio system. <ul style="list-style-type: none"> ▪ Check the underlying structure and integrity of CCS databases ▪ Research poll messages; access all of the data in a poll message that exists in the fields of the polling table, access poll data through the CCS database, monitor real-time poll data messages as they are processed by the CCS, Query by VID or time of day for the purpose of identifying missed messages - Access combined systems (CCS, radio and OBS) data to monitor, test, diagnose and troubleshoot data message functions - Monitor real-time message input and output for individual components - Verify message quality - Determine which CCS component is responsible for message corruption or identify 	CC14-Manage System Health

CCS Administrator's Tool Description	OBS/CCS Use Case Reference
<p>that the problem originated from beyond the CCS radio interface (outside of the CCS boundary)</p> <ul style="list-style-type: none">- Correct CCS health status problems, including component and interface processing errors and failures- Conduct maintenance on a component(s) of one system without interrupting the functionality of the active redundant system e.g. updating schedule data. <ul style="list-style-type: none">• Filter the System Health Event log	
<ul style="list-style-type: none">• Transition the CCS<ul style="list-style-type: none">- transition the CCS from data mode to voice mode and back to data mode again- shut down and then boot back up the CCS application and/or database functionality- Shut down and bring back up the CCS operating system and servers.	CC15-Transition CCS