# JLR Car Configuration File Management Help Documentation

#### Contents

1	Abbreviati	ons/Acronyms	2
2	Introductio	on	2
3	Overview.		2
4	Functional	Implementation	3
	4.1 Vehicle	e ID / Session Control	
	4.1.1 Activ	ve Session CCF selection – Session Entry Strategy	
	4.1.2 CCF	Validity Check Definition	4
	4.1.2.1	CCF Comparison	4
	4.1.2.2	Validity Check	4
	4.1.3 Opti	onal Vehicle ID Display	5
	4.1.3.1	Generating CCF Data	6
	4.1.3.2	CCF session options selection	7
	4.1.3.2	.1 Valid CCF from Master module with As Built data	7
	4.1.3.2	.2 Valid CCF from Master Module without As Built data	8
	4.1.3.2	.3 All data deemed invalid. CCF loaded from As Built data	9
	4.1.3.2	.4 No available CCF from Master, backup module or As Built data	10
	4.1.3.3	Optional summary Data Display	11
	4.1.3.4	CCF Validity Failure	
	4.1.4 Corr	rective Actions	
	4.1.4.1	Incorrect Checksum display	
	4.1.4.2	Incorrect VIN Number	
	4.1.4.3	Other Validity Checking Failures	
	4.1.4.4	Complete Vehicle Sourcing Validity Failure	
	4.1.4.5	Recovering a CCF during a parameter update	
	4.1.4.6	Comparison Mismatches	
	4.2 CCF C		20
	4.2.1 Men	u Structure	20
	4.2.2 Curr	Application Scroonshots and Wolkthrough	ا∠
	4.2.2.1	sion Active Car Configuration Selection	
	4.2.3 305	Application Screenshots and Walkthrough	20 27
	4.2.3.1	Selection of Session Active CCF from "Other" Source	21 22
5	Revision L	listory	
9			

Abbreviation	Description
CCF	Car Configuration File
CCM	Car Configuration Management
XCL	Cross Car Line
VIN	Vehicle Identification Number
IDS	Integrated Diagnostic System
USB	Universal Serial Bus

## **1** Abbreviations/Acronyms

# 2 Introduction

This document is intended to provide guidance and assistance to any user of the Car Configuration Management (CCM) applications implemented onto the IDS. The purpose of the Car Configuration Management tool is to ensure the validity of the Car Configuration File (CCF) data, select a suitable master Car Configuration and populate Vehicle ID during session entry. The CCM tool also provides the ability to view / edit CCF parameters. In addition, the CCM tool also provides the functionality to select an alternative master CCF from multiple sources (where applicable), thus providing a method of retrieving a valid data set for a possible corrupt CCF data scenario.

# **3** Overview

The Car Configuration Management tool will locate all the possible sources of CCF on entry to the IDS session, where a validity and comparison check will be carried out to determine the status of all available data sets. The validity check will incorporate the VIN comparison application and a check against pre-defined parameters that are specific to the vehicle being interrogated. The comparison check will provide the operator with information regarding any critical or personal discrepancies and provide an optional display of any parameters that do not match between all sources of CCF; at this point the personalisation features will be stored within the session folder available for retrieval if required.

The Car Configuration Management Application extends the ability of the currently implemented CCF tool by informing the operator of which module the data is sourced, also any discrepancies between master module and As built data. With the optional summary screen showing details on each parameter set in the Master CCF.

The term "Master CCF" is referred to throughout this document. The "Master CCF Module" is the vehicle module that stores and transmits the CCF around the vehicle network; this can be a different module depending on the vehicle being used. The "Session Active CCF" is referred to as the controlling CCF data used within the IDS session, where this data configures the IDS session and provides the core of the data for downloading when required. For example the Vehicle Master CCF Module may be the Instrument Cluster; however the application (or user) may select the Session Active CCF to be the data set from the Body Control Module due to corrupt data within the Instrument Cluster.

## **4** Functional Implementation

#### 4.1 Vehicle ID / Session Control

#### 4.1.1 Active Session CCF selection – Session Entry Strategy

The Vehicle ID and Session Control CCF management tool provide the ability to locate all current Car Configuration file sources, determine the validity of the master CCF and then populate the Vehicle ID for the entered IDS session

During IDS Session entry, post VIN input, the session control attempts to obtain the Car Configuration File from the following possible sources:

- Master Module store
- All possible module back-up storage areas
- As-built CCF data.\*

# \* In the future the as built data may need to be accessed via connectivity; this functionality must be available if the as-built files are not located on the IDS

Once successfully located the files will be compared using the two steps detailed in section 4.1.2, to determine the validity of the current CCF data. During the CCF comparison the personalisation parameters are stored within the application, along with the located CCF files (once they have been deemed valid), allowing the files to be accessed during the CCM Application.

The operator will be informed of the CCF status during the session entry. If the CCF data is deemed to be correct (valid and not corrupt) then the vehicle specific data is used and the optional summary screen can be viewed, as detailed in section 4.1.3, providing a "standard vehicle configuration" screen. This master CCF module data set will be used throughout the session, until the session is either, terminated, an alternative Session Active CCF is selected or personalisation features are changed.

Where the CCF validity check confirms non-corrupt CCF data, but the CCF comparison details a critical or personalisation mismatch between the sources of CCF data and As-built, the operator will be informed as detailed in section 4.1.3. This does not include the checksum parameter. With the optional summary screen, the operator is informed by displaying the mismatches with appropriate icons detailing that the parameter is a critical or personalisation feature mismatch. The master CCF module data set continues to be used during the session entry and text is displayed informing that an alternative Session Active CCF can be selected within the CCF Selection Application, if required. A session abort option is also provided at this point.

Where the CCF validity check details corrupt data from the vehicle master CCF module only, the following sources are used as the Session Active CCF data set (providing this data is deemed valid) in the following order:

- 1. Alternative vehicle CCF back-up source
- 2. Where applicable, other alternative vehicle CCF back-up sources
- 3. As-built CCF

The operator is informed of any corruption and the alternative source detailed. In addition, text is displayed informing that an alternative master CCF can be selected within the CCF Selection Application as detailed in section 4.2.

Where the CCF cannot be sourced from the vehicle and if all vehicle sources are deemed corrupt the operator will be informed. At this point the following sources of session Vehicle ID data will be:

- 1. As-built CCF
- 2. Basic Vehicle Configuration (using qualifier questions)

The operator will be informed that an alternative Session Active CCF can be selected within the CCF Selection Application and the ability to abort the session at this point is also provided.

During master CCF selection the Validity check will always take precedence over the CCF comparison. Once a corrupt CCF is determined the CCF comparison is not carried out against the corrupt CCF.

#### 4.1.2 CCF Validity Check Definition

#### 4.1.2.1 CCF Comparison

The CCF comparison functionality will carry out a direct compare against all parameters within the sourced / selected Car Configuration Files and the associated As-built CCF. All CCF data sets (sources) will be compared to the current session active CCF. Where a mismatch of parameter(s) is determined the operator will be informed. Using the optional summary screen the detailed CCF parameter display can be viewed. Where the parameter is a Personalisation Feature the operator will be informed by a specific icon assigned to Personalisation features.

#### 4.1.2.2 Validity Check

The validity check provides the ability to carry out a sanity check of the individual Car Configuration files, against specified data located within the XCL CCF definitions. During the session entry standard VIN comparison test, the VIN numbers accessed from the list of pre-determined modules are compared against the last 6 digits of the manually entered VIN, where a match is determined the full VIN must be stored.

To carry out the validity check the following CCF areas are compared:

- 1. The VIN located in the CCF is compared against the "matched" VIN(s), detailed above, as well the manually entered VIN during session entry. All parameters must match.
- 2. The "Brand" parameter must match the vehicle that has been chosen during session entry, as detailed in the CCF rule-set definition.
- 3. The "Vehicle" type parameter must match the vehicle type that has been chosen during session entry, as detailed in the CCF rule-set definition.
- 4. The file should not contain a complete set of 00 or FF values
- 5. CCF data checksum\*

#### 6. VIN characters versus CCF parameters

\* The CCF data checksum will be calculated by IDS and compared against the checksum programmed into the actual CCF. If the checksums do not match then a failure setting for this validity check will be flagged. This checksum has not currently been enabled for any vehicle lines and therefore will not be actively included within the file validation until implemented within Manufacturing

Once the above parameters have been compared and correctly match, the CCF will be classed as valid data. An invalid file will be detailed to the user.

#### 4.1.3 Optional Vehicle ID Display

Once the Session Active CCF has been selected an optional summary screen can be displayed to the user. This will provide an overview of the complete vehicle CCF state, plus the ability to be able to toggle between the summary screen and the standard CCF pre-defined parameter screen detailing the VIN, vehicle type, personalisation features and all other qualification related details that are sourced from the Session Active CCF.

This screen displays a section that details the source of the Session Active CCF along with the following information:

- A listing of the CCF sources that the have been interrogated
- Vehicle Identification Number
- The Vehicle Network that each CCF source is on (High Speed CAN etc)
- An icon detailing the source (module icon / file icon)
- Status of each CCF source (Valid / Corrupt / No communications)
- The overall amount of CCF parameter mismatches (if applicable), differentiating between personalisation and critical mismatches
- Operator information detailing that an alternative Session Active CCF can be selected using the CCF Selection Application
- A button that can be pressed to toggle between the CCF parameters and the summary screen
- The ability to view CCF data failure reasons.

Where no Car Configuration data is available and basic configuration is used, via operator questions, the basic information (VIN and Vehicle type, plus any qualifier answers) will be displayed. A session abort option is also provided at this point.

\*Where a previous session is selected during session entry, Vehicle ID will use the CCF data previously uploaded from the Vehicle Master Module and all Backup Modules during the entry to the session selected by the operator. This data will be located in the session folder so that the CCF data will not be uploaded from the vehicle. Once sourced the previously detailed Validity and Comparison checks will be conducted and the standard CCF summary screen will be displayed.

#### \*If any CCF parameter changes are carried out a new session must be started allowing the CCF to load the latest modifications.

The following pages display the following session entry vehicle scenarios:

- 1. Valid CCF from Master module with As Built data.
- 2. Valid CCF from Master Module without As Built data.
- 3. All data deemed invalid. CCF loaded from As Built data.
- 4. No available CCF from Master, backup module or As Built data.

# Cenerating car configuration data, please wait

#### 4.1.3.1 Generating CCF Data

During any upload of CCF data from the vehicle, as-built or any other source the IDS application requires a certain amount of time to analyse the data. The screen above is displayed once all the data has been uploaded and is being processed. The processing includes comparison and validity checks as well as ordering for parameter display – At this point the data has already been uploaded and the application is processing the data.

#### 4.1.3.2 CCF session options selection

#### 4.1.3.2.1 Valid CCF from Master module with As Built data.

[IDS-DVD114_V4.1]	
The car configuration has been automatically selected from the RSJB_SYSTEM_A module, which is the master for this vehicle.	
This car configuration data is currently being used by the vehicle and has been deemed valid for use, continuing with this data will now populate the IDS session to configure accordingly. During any car configuration download this selected data will be downloaded to the master module and all supported module back-up storages.	
The selected car configuration has been compared against the as-built car configuration for this vehicle, there were 5 number of comparison differences between the selected and as-built car configuration data.	
To view the current car configuration details, select the car configuration summary button	
Select the tick to continue the session using the automatically selected car configuration.	
	×

The screenshot displayed above details that the Car Configuration in this instance has been taken from the Master module RSJB. Also shown is the confirmation that the Car Configuration is valid. Any applications that require Car Configuration update will use this data as the active session CCF and update the

Master and all backup modules accordingly.

The session active CCF is automatically compared to the As Built CCF & any discrepancies will be show by the number of mismatched comparison differences. The Car Configuration summary is available to view by clicking on the summary button as shown above.

Selecting the tick will continue into the session using the active session CCF from the module source as stated.

Selecting the cross will abort the current session and returns to the start of IDS.

#### 4.1.3.2.2 Valid CCF from Master Module without As Built data.

[IDS-DVD114_V4.1]	
The car configuration has been automatically selected from the RSJB_SYSTEM_A module, which is the master for this vehicle.	
This car configuration data is currently being used by the vehicle and has been deemed valid for use, continuing with this data will now populate the IDS session to configure accordingly. During any car configuration download this selected data will be downloaded to the master module and all supported module back-up storages.	
The as-built car configuration is unavailable and therefore cannot be compared against the selected car configuration.	
To view the current car configuration details, select the car configuration summary button	
Select the tick to continue the session using the automatically selected car configuration.	
Select the cross to end the current session.	
	<b>@</b> 31

The screenshot displayed above details that the Car Configuration has been taken from the Master module RSJB.

If the As Built is not available then no comparison can be carried out. The session will still continue using the Master as the active session CCF sourced from the module as stated.

#### 4.1.3.2.3 All data deemed invalid. CCF loaded from As Built data.

[IDS-DVD114_V4.1]	
The car configuration has been automatically selected from the AS_BUILT module, which is the as-built for this vehicle.	
The master vehicle car configuration and all supported back-up storages have been deemed invalid. The selected car configuration is the as-built data and this has been deemed valid for use. Continuing with this data will now populate the IDS session to configure to the as-built status of the vehicle. During any car configuration download this selected data will be downloaded to the master module and all supported module back-up storages, it is advised that a download of car configuration data is conducted during this session, to synchronise the selected valid car configuration across the vehicle. Please note that customer personalisation settings will need to be reviewed during this action. The selected car configuration has been compared against the as-built car configuration for this vehicle, there were 152 number of comparison differences between the selected and as-built car configuration data. To view the current car configuration details, select the car configuration summary button Select the tick to continue the session using the automatically selected car configuration.	
	<b>8</b> 2
	×

The above screen details that the data sourced from the Master and backup modules, has been deemed invalid. As built CCF data is used during this session. Using the summary button will display the summary and aid investigation as to the cause of the invalid data.

#### 4.1.3.2.4 No available CCF from Master, backup module or As Built data.

[IDS-DVD114_V4.1]	
Car configuration data cannot be located from the vehicle and therefore an IDS basic configuration has been assigned.	
IMPORTANT: Special actions are required for this diagnostic session! The master vehicle car configuration and all supported back-up storages have been deemed invalid or could not be read by IDS, and the as-built car configuration is currently unavailable. The session entry will continue with a basic configuration setting, which will require certain qualification questions to be answered.	
These questions must be answered correctly as they will configure the IDS session and potentially assist in the selection of module software.	
Please navigate to the 'car configuration management' menu, then select 'session active car configuration selection' menu option to manually select an alternative car configuration file or contact the technical hotline for further advice.	
The as-built car configuration is unavailable and therefore cannot be compared against the selected car configuration.	
Select the tick to continue the session using the basic configuration.	
Select the cross to end the current session.	<b>Aa</b>
	×

The example above shows that no CCF data is currently available for this vehicle. Where the above occurs the application will not select a master CCF data set, as none are available.

When this scenario occurs the operator will be presented with the option to either abort the session or continue using basic configuration. The operator should investigate the reason for upload failures before continuing with any further module programming functions. To select a CCF data set from an alternative source the operator can navigate through IDS to the CCF Active Session Selection application.

The above screen will be displayed when either corrupt or invalid data is received from all sources, or when vehicle communications cannot be established. As no CCF has been uploaded it is not possible to provide a summary of the Master or backup modules.

To continue into the session there will be a number of qualifying questions that need to be answered correctly. The active session CCF may cause failures or incompatible software to be programmed into some modules, if the questions are answered incorrectly.

#### 4.1.3.3 **Optional summary Data Display**

Sliding screen display

[IDS-DVD11 Session e	4_V5] ntry car configuration summa			
Active ses			Help on car configuration summary To view the car configuration validity check failures press the following button: To view the car configuration summary press the following button:	i
VIN	SAJWA07C591R00067	RSJB	∟ø To view the car configuration parameter data and any	
	Car configuration type		mismatches, press the following button:	
	Car configuration role	master	A CE	<b>AN</b>
	Car configuration status	1	Additional car configuration help information	Ĩ
0	Session active	0	can be accessed via the information icon on the toolbar	
	Critical mismatches	NA	1	
	Personalisation mismatches	NA		
			×	

On entering the summary screen a blue sliding screen appears. The blue screen will slide to the right after 5 seconds. The screen can be re-opened by clicking on the **i** icon at the top of the light blue strip on the right edge of the screen, see screen below.

The screen displays a brief view of the buttons and their functions within the summary screen.

sion e ve ses	ntry car configuration summa sion active car configuration so	ary urce is AS_BUILT	0			l
	PCM			J		
VIN	0000000000000000	RSJB	PCM	FSJB	AS_BUILT	
VIN	000000000000000 Car configuration type	RSJB	PCM	FSJB		
VIN	0000000000000000 Car configuration type Car configuration role	RSJB	PCM © backup	FSJB implementation implemen	AS_BUILT	
VIN	00000000000000000000000000000000000000	RSJB RSJB master ()	PCM	FSJB	AS_BUILT	
	0000000000000000 Car configuration type Car configuration status Session active	RSJB A master C -	PCM Deckup NA	FSJB Dackup C	AS_BUILT	
	00000000000000000000000000000000000000	RSJB master T 76	PCM Deckup NA -	FSJB Backup C 76	AS_BUILT If as as_built I NA	

#### Main summary screen

ssion e ive ses	ntry car configuration summa sion active car configuration so	ry urce is RSJB <b>()</b>	<b>F</b>	]	<b>K</b>	į	
		R	3				
VIN	SAJWA07C591R00067	RSJB	РСМ	FSJB	AS_BUILT		
VIN	SAJWA07C591R00067 Car configuration type	RSJB	PCM	FSJB	AS_BUILT		
VIN	SAJWA07C591R00067 Car configuration type Car configuration role	RSJB	PCM	FSJB	AS_BUILT		
	SAJWA07C591R00067 Car configuration type Car configuration role Car configuration status	RSJB inter master	PCM	FSJB	AS_BUILT		
	SAJWA07C591R00067 Car configuration type Car configuration role Car configuration status Session active	RSJB	PCM	FSJB backup	AS_BUILT		
	SAJWA07C591R00067 Car configuration type Car configuration role Car configuration status Session active Critical miamatches	RSJB	PCM Deckup - - 8	FSJB Dackup - 0	AS_BUILT		

Where As-built CCF data is available on the IDS a green tick will be displayed alongside the As-built status. Where no data is available from the Master module, back-up modules or As-built a red cross **X** will be displayed. The application selects the Session Active CCF data set and this is stated by the blue **1** icon, under the associated source. This CCF data set is then used to populate the IDS session.

The Session Active Master is used to compare against the other CCF data sets, this determines whether any critical () or personalisation () mismatches are present. The master column will have "NA" displayed in the mismatches rows, where any mismatches are present the amount of mismatches will be displayed in the associated column. Theoretically there should be no mismatches between the master and back-up modules, there may be personalisation mismatches the as-built data set and other vehicle sources.

Session entry car com Active session active ca	figur ar coi	ation summa nfiguration so	ry urce is RSJB	0			<b>F</b>			i	
Group		Paramete	6		Value			<b>11</b>			
Parking aid system		Parking aid	system		Both				^		
Mindshield wipers		Speed depr	endent intermittent v	vipers	No						
Mindshield wipers		Speed depe	endent front wipers		No		3				
fire dynamic rolling radius		MSB			0x00 BIN: 00000000		•	×			
ire dynamic rolling radius		LSB			0×00 BIN: 00000000			-			
Jaguar Legacy Tyre Size		LSB			0×B7 BIN: 10110111		•	1191			
CCF Version		CCF Versio	n		0×06 BIN: 00000110			2			
Car configuration data fi	rom a tatus	all configuratio Role master backup	on sources Mismatch -	Value No Yes		Hex 0x00	_				
-SJB	-	backup	TAP	No		0x00					
		rosentille V B	6A)			0~01			-		

The screenshot above shows the detailed display of the individual parameters when toggled from the summary screen using the parameter display button at the top of the screen. Each parameter can be highlighted within the top window and the associated setting for each CCF source will be displayed within the lower window, this allows the operator to review any mismatches and determine whether a specific vehicle issue is apparent.

The mismatch columns on the right hand side of the top window can be toggled to filter on mismatches or the standard view above.

ssion e tive ses:	4_v4.1] ntry car configuration summa sion active car configuration so	ary urce is RSJB <b>()</b>	E		<b>F</b>	 <b>i</b>	
			3				
VIN	SAJWA07C591R00067	RSJB	РСМ	FSJB	AS_BUILT		
VIN	SAJWA07C591R00067 Car configuration type	RSJB	PCM	FSJB	AS_BUILT		
VIN	SAJWA07C591R00067 Car configuration type Car configuration role	RSJB	PCM	FSJB	AS_BUILT		
	SAJWA07C591R00067 Car configuration type Car configuration role Car configuration status	RSJB	PCM	FSJB	AS_BUILT		
	SAJWA07C591R00067 Car configuration type Car configuration role Car configuration status Session active	RSJB	PCM	FSJB backup -	AS_BUILT		
	SAJWA07C591R00067 Car configuration type Car configuration role Car configuration status Session active Critical miamatches	RSJB	PCM Deckup - 0	FSJB Dackup - 0	AS_BUILT		

Where As-built CCF data is NOT available on the IDS, a red cross **X** will be displayed alongside the As-built status. As it is not possible to compare the Master CCF to the As Built CCF, the Master module and all backup modules will be compared and a yellow tick will be displayed, a green tick will only be displayed when static as-built data can be compared against.

#### 4.1.3.4 CCF Validity Failure

[IDS-DVD11 Session e Active ses	4_V4.1] ntry car configuration summa sion active car configuration so	ary urce is AS_BUILT	0				
VIN	00000000000000000	RSJB	РСМ	FSJB	AS_BUILT		
	Car configuration type				FFF 2AL FFI CCP 2A		
	Car configuration role	master	backup	backup	as_buit		<b>a</b>
	Car configuration status	•	NA	•	<b>V</b>		
0	Session active	5 <del>.</del>	(. <del></del> .)		0		
	Critical mismatches	76	27.	76	NA		
	Personalisation mismatches	7	12	7	NA		
			M	^		<>	

The display above details a scenario where the validity check of CCF data fails, this is denoted by displaying the yellow exclamation mark. Where the above occurs the application will use the As Built data as the master CCF data set. The validity failure reason can be seen by selecting the yellow exclamation button at the top of the screen, this can be seen below where the session entered VIN did not match the VIN located within all three CCF data sets:

Active session	on active car configuration source i	is NONE_SET 1	-	
Module	Validity check type	Failure reason		
RSJB	VIN check	CCF VIN X22222 invalid		
РСМ	VIN check	CCF VIN X22222 invalid		
FSJB	VIN check	CCF VIN X22222 invalid		
AS_BUILT	No validity failures present			

Another potential cause can be seen in the screen below. In this instance the checksum is mismatched between the module CCF and the session upload CCF.

Module	Validity check type	Failure reason	
RSJB	Checksum comparison check	Calculated checksum 0B9A does not match CCF checksum FFFF	
RSJB	Checksum comparison check	Calculated checksum D0BC does not match CCF checksum FFFF	
РСМ	No validity failures present		
FSJB	Checksum comparison check	Calculated checksum 0B9A does not match CCF checksum FFFF	
FSJB	Checksum comparison check	Calculated checksum D0BC does not match CCF checksum FFFF	
AS_BUILT	No validity failures present		
			_

#### **4.1.4 Corrective Actions**

During 95% of IDS session entries against production vehicles the validity and comparison results will display no failures, where personalisation features in the vehicle master and supported back-up stores may match, but differ to the asbuilt. This scenario would indicate that during the lifecycle of the vehicle, certain personalisation changes have been carried out.

The validity check failure will provide a report as detailed previously, to cater for such failures the following scenarios have been provided. These are provided as a guide and therefore there are many other possible reasons for validity failures that may need similar rectification steps.

#### 4.1.4.1 Incorrect Checksum display

Where the validity check returns an incorrect checksum display for a given module data set the source should not be used as a session active CCF. The reasoning behind the incorrect checksum could be that the CCF data is either corrupt or has been manually updated outside of the IDS platform. The IDS application carries out the checksum validity check by compiling the data within the CCF and then calculates the expected CCF checksum – if there is a mismatch between the expected and the actual then the CCF source is deemed invalid. During IDS session entry the application will automatically discard this source of data and select the next most appropriate source, where available. If an alternative valid source is available then this will be selected, the operator should then proceed directly to the Car Configuration Management menu item and select the Current Car Configuration Modification application. Upload the CCF and then download to the vehicle WITHOUT CHANGING ANY PARAMETER VALUES. The application will download the valid session active CCF data to the vehicle master and all associated back-up modules.

Where all vehicle CCF data is deemed invalid, but the as-built CCF data is available and valid, the above steps should be carried out using the as-built data as the session active CCF. This will be automatically selected by the IDS application.

Where all vehicle CCF data is deemed invalid and the as-built CCF data is either unavailable or invalid, then the operator should continue to enter the session using the basic configuration of VIN, Vehicle Type and Model Year. The operator should proceed to the Car Configuration Management menu item and select the Active Session Car Configuration application; once all possible sources are displayed the operator should select the "Other" button and browse to locate a previous session CCF file. If the vehicle has no previous IDS sessions saved, then there will be no CCF files available. If there are previous sessions available then the operator can select a CCF file that they may know or suspect to be valid – this will then be validated and compared. If the data is deemed as valid and correct (a certain amount of user visible validation will be required at this point) then the data can be selected as the session active CCF and downloaded to the vehicle master module and all supported back-up modules. It is advised that the operator restarts the session at this point to ensure the validity check and active CCF session are all correct.

Where no previous session CCF data is available the Technical Hotline should be contacted, where the vehicle as-built CCF file may be available. This can then be passed to the operator and saved on a USB memory stick. Using the "Other" button within the Active Session Car Configuration application the as-built file can be located and selected as the session active CCF. If the data is deemed as valid and correct (a certain amount of user visible validation will be required at this point) then the data can be selected as the session active CCF and downloaded to the vehicle master module and all supported back-up modules. It is advised that the operator restarts the session at this point to ensure the validity check and active CCF session are all correct.

#### 4.1.4.2 Incorrect VIN Number

Where the validity check returns an incorrect VIN number display the operator should ensure that the VIN entered during the session entry matches the VIN number for the vehicle in question. If the VIN entered is correct but the IDS session entry states that the VIN fails the validity check, for a given module data set, the source should not be used as a session active CCF. The reasoning behind the incorrect VIN could be that the CCF data is either corrupt or incorrect for the vehicle. The IDS application carries out the VIN validity check by comparing against the VIN entered during session entry and also against the VIN number read from other vehicle modules – if there is a mismatch between CCF VIN and other VIN sources then the CCF source is deemed invalid.

During IDS session entry the application will automatically discard this source of data and select the next most appropriate source, where available. If an alternative valid source is available then this will be selected, the operator should then proceed directly to the Car Configuration Management menu item and select the Current Car Configuration Modification application. Upload the CCF and then download to the vehicle WITHOUT CHANGING ANY PARAMETER VALUES. The application will download the valid session active CCF data to the vehicle master and all associated back-up modules.

Where all vehicle CCF data is deemed invalid, but the as-built CCF data is available and valid, the above steps should be carried out using the as-built data as the session active CCF. This will be automatically selected by the IDS application.

Where all vehicle CCF data is deemed invalid and the as-built CCF data is either unavailable or invalid, then the operator should continue to enter the session using the basic configuration of VIN, Vehicle Type and Model Year. The operator should proceed to the Car Configuration Management menu item and select the Active Session Car Configuration application; once all possible sources are displayed the operator should select the "Other" button and browse to locate a previous session CCF file. If the vehicle has no previous IDS sessions saved, then there will be no CCF files available. If there are previous sessions available then the operator can select a CCF file that they may know or suspect to be valid – this will then be validated and compared. If the data is deemed as valid and correct (a certain amount of user visible validation will be required at this point) then the data can be selected as the session active CCF and downloaded to the vehicle master module and all supported back-up modules. It is advised that the operator restarts the session at this point to ensure the validity check and active CCF session are all correct.

Where no previous session CCF data is available the Technical Hotline should be contacted, where the vehicle as-built CCF file may be available. This can then be passed to the operator and saved on a USB memory stick. Using the "Other" button within the Active Session Car Configuration application the as-built file can be located and selected as the session active CCF. If the data is deemed as valid and correct (a certain amount of user visible validation will be required at this point) then the data can be selected as the session active CCF and downloaded to the vehicle master module and all supported back-up modules. It is advised that the operator restarts the session at this point to ensure the validity check and active CCF session are all correct.

#### 4.1.4.3 Other Validity Checking Failures

The steps detailed for the previous two scenarios should be adopted for any validity checking failures. The operator should always attempt to download a valid CCF data set to the vehicle master and back-up modules.

#### 4.1.4.4 Complete Vehicle Sourcing Validity Failure

Where all vehicle CCF data is deemed invalid, or the CCF cannot be uploaded – detailed by red crosses as CCF status, but the as-built CCF data is available and valid, the above steps should be carried out using the as-built data as the session active CCF. This will be automatically selected by the IDS application.

Where all vehicle CCF data is deemed invalid or cannot be uploaded and the asbuilt CCF data is either unavailable or invalid, then the operator should continue to enter the session using the basic configuration of VIN, Vehicle Type and Model Year. The operator should proceed to the Car Configuration Management menu item and select the Active Session Car Configuration application; once all possible sources are displayed the operator should select the "Other" button and browse to locate a previous session CCF file. If the vehicle has no previous IDS sessions saved, then there will be no CCF files available. If there are previous sessions available then the operator can select a CCF file that they may know or suspect to be valid – this will then be validated and compared. If the data is deemed as valid and correct (a certain amount of user visible validation will be required at this point) then the data can be selected as the session active CCF and downloaded to the vehicle master module and all supported back-up modules. It is advised that the operator restarts the session at this point to ensure the validity check and active CCF session are all correct.

Where no previous session CCF data is available the Technical Hotline should be contacted, where the vehicle as-built CCF file may be available. This can then be passed to the operator and saved on a USB memory stick. Using the "Other" button within the Active Session Car Configuration application the as-built file can be located and selected as the session active CCF. If the data is deemed as valid and correct (a certain amount of user visible validation will be required at this point) then the data can be selected as the session active CCF and downloaded to the vehicle master module and all supported back-up modules. It is advised that the operator restarts the session at this point to ensure the validity check and active CCF session are all correct.

#### 4.1.4.5 Recovering a CCF during a parameter update

During an IDS session the operator may incorrectly change the CCF features, these can easily be changed back in the same manner. If the operator would prefer to recover the CCF to the state of when the vehicle was initially connected to IDS then the session entry CCF can be selected and downloaded to the vehicle. This also applies to previous session CCF data sets stored on IDS.

The operator should proceed to the Car Configuration Management menu item and select the Active Session Car Configuration application; once all possible sources are displayed the operator should select the "Other" button and browse to locate a previous session CCF file. If the data is deemed as valid and correct (a certain amount of user visible validation will be required at this point) then the data can be selected as the session active CCF and downloaded to the vehicle master module and all supported back-up modules. It is advised that the operator restarts the session at this point to ensure the validity check and active CCF session are all correct and that the personalisation features are reset to the correct original values.

#### 4.1.4.6 **Comparison Mismatches**

Comparison failures do not cause an IDS automatic selection of an alternative CCF source, the reason behind the comparison test is to alert the operator to any parameter differences between the vehicle master, back-up sources and as-built data. These comparison differences may cause incorrect vehicle functionality, however the implications of a parameter mismatch is down to the operator to determine. As the vehicle master module controls the CCF cyclically around the vehicle CANbus it is this data set that could cause incorrect vehicle functionality ONLY. The first check to carry out is to compare any mismatches to the as-built data set, to determine whether the mismatches are correct (personalisation change) or incorrect.

If the parameter(s) in question has the same value through the vehicle master and vehicle back-ups, but the as-built is different the assumption that an IDS change caused the mismatch can be made. If the comparison mismatch is between vehicle master and vehicle back-up sources, then either the IDS CCF download failed part way through or the change was made outside of the IDS platform.

The corrective action requires the operator to review the specific parameter comparison mismatches and decide what the correct setting should be for the vehicle. If this can't be determined then the as-built CCF should be used as the session active CCF, where any personalisation parameter differences should then be decided upon.

#### 4.2 CCF Control Application

#### 4.2.1 Menu Structure

The CCF control application will be located within the Vehicle Configuration tool, under the following Vehicle Configuration menu structure:

<u>High level Title</u>

• Car Configuration Management

#### Sub-headings

- Current Vehicle Car Configuration Modification
- Active Session Car Configuration Selection

#### 4.2.2 Current Vehicle Car Configuration Modification

The Current Vehicle Car Configuration will either locate the Session Active CCF from session entry or, where a CCF has been previously downloaded during the current session, locate the last CCF to be downloaded to the vehicle ensuring that the latest possible master CCF data set is always being used. This will be used as the master data set to view / edit and also will remove the requirement to upload the CCF data set during this application. Where no CCF is available the application must inform the operator and detail that the Car Configuration Selection application must be carried out to select an appropriate Session Active CCF.

The Current Vehicle Car Configuration application provides the following functionality:

- Display the pre-determined parameters
- Edit function for personalisation features
- Information detailing the master source
- A column where an information icon can be displayed for each parameter, where applicable.
- A column where a Parameter Type icon can be displayed for each parameter. The icon will indicate whether the parameter is a personalisation feature or base parameter (engine type, etc)
- A help text area that will display the associated help text once the "information icon" is selected.
- A column that will detail the original parameter setting, once a parameter has been manually changed. The parameter box will be highlighted to ensure a change is easily recognisable.

Once the confirmation tick is pressed the operator will be informed that the CCF data will be downloaded, if the cross  $\mathbf{X}$  is selected then the operator is provided with the ability to return to the parameter editing screen or to the main menu.

#### 4.2.2.1 Application Screenshots and Walkthrough

The following screen shows the menu entry into the Current car configuration application:



The following screen provides the operator with some entry user information.



Module RSJB	Status	n pa	Description Auxiliary junction	or n	(boi	Type body contr Vehicle master module					
Description Locking delivery m Trailer towing ball. North America trai Drive Spare wheel Drive type Parking aid system Speed dependent Speed dependent Speed dependent	ode. ler lighting func intermittent wip front wipers	tion.			L	Current Value     Inactive     Not fitted     Disabled     Undefined     No     Left hand drive     Both     No     Yes	•	Proposed value :			
Description Parking aid system Parking aid system tem help not yet av	vailable.			Curr Both	ent \	t Value Proposed v Both Undefined Reverse pa Both Not fitted Error	alu: rkin	e  ng aid.	HEX 0x02		

Screen below displays the parameter view and edit screen:

The display is broken into four sections or panes. The top window provides details about the Session Active CCF, data source and the associated status. The second window displays a list of pre-defined parameters for view and edit. This window also displays whether the parameter is a personalisation feature (second column) and the current vehicle setting. Editable parameters are distinguished by the white display as shown above, a darker grey display indicates that the parameter is for viewing only.

To edit a parameter it must be selected and highlighted in the second window, as detailed above. This parameter will then be displayed in the third display window, where all possible values can be selected using the drop-down box in the proposed value section. Any additional help text associated to this parameter will be displayed in the forth window.

The check box at the bottom of the screen "View all parameters" allows the operator to toggle between the pre-defined listing of parameters and the complete CCF listing of parameters.

The following screen displays parameter screen post parameter edit:

Module RSJB	Status De	scription kiliary junction bo	(bo	Type dy contr Vehicle master module	_			
Description			1	Current Value	•	Proposed value	~	
Locking delivery m	node.		-	Inactive				
Trailer towing ball		<b>M</b>		Not fitted				
North America tra	iler lighting function.			Disabled				
Drive				Undefined				
Spare wheel				No				
Drive type				Left hand drive				
Parking aid system	n			Both	>	Not fitted		
Speed dependent	intermittent wipers	( <u>)</u>		No				
Speed dependent	front wipers			Yes			~	
<b>Nodification</b>	n procedure					Res	et parameters	
Description		Cur	rent \	Value Pr	oposed valu	Je HEX		
Parking aid system	0	Bot	1	Ι	lot fitted	▼ 0×03	1	
			_					
arking aid system	l usilable							
tem neip not yet a	Vallable.							

Once a parameter has been edited the display details the current vehicle value and the proposed value selected. This allows the operator to be able to review multiple changes prior to downloading to the vehicle. The "Reset Parameters" button allows all changes to be reset back to the current value setting within the display screen.

#### NOTE:

#### At this point the CCF changes have <u>NOT</u> been downloaded to the vehicle.

The screen below displays the pop-up once the confirmation tick is pressed, pressing the green confirmation tick  $\checkmark$  will download the CCF to the vehicle master module and all associated back-up modules:

[IDS-DVD112_V4.2] Jaguar >	(F 08 / 100-00 Complete vehicle	
Active session car configu	Description Type	<b>i</b>
List of personalisation p	<b>?</b> Operator question	
Description Trailer towing ball. North America trailer lighting function. Drive Spare wheel Drive type Parking aid system	Do you wish to download the vehicle configuration file?	
Speed dependent intermittent wipers Speed dependent front wipers Headlamp delay Modification procedure Description		ameters
Parking aid system Parking aid system Item help not yet available. View all parameters		×

The following screen allows the operator to return to the main menu by selecting the cross  $\checkmark$  or return to the parameter editing screen; this screen will only be displayed if the cross  $\bigstar$  is selected on the above screen:

DS-DVD112_V4.2] Jaguar XF 08 / 100-00 Complete vehicle  Active session car configuration source is: RSJB				🌮 🚞	
Active session car configuration source is: RSJB	[IDS-DVD112_V4.2] Jaguar X	F 08 / 100-00 Complete vehicle			
Active session car configuration source is: RSJB					
Incodule Status   Pescription   Supervision delivery mode.   Locking delivery mode.   Locking delivery mode.   Traffer towing ball.   North America traffer lighting function.   Drive   Speed dependent intermittent wipers   Speed dependent intermittent wipers   Parking aid system   Item help not yet available.	Active session car configu	ration source is: RSJB			
Ist of personalisation p     Description     Supersion delvery mode.   Toding delvery mode.   Trafer towing ball.   North America trafer lighting function.   Drive type   Parking aid system   Parking aid system   Parking aid system   Parking aid system     Parking aid system     View ail parameters     View ail parameters	Module Status	Description Type			
List of personalisation p   Description   Superator question   Superator question   Superator question   Uoking delivery mode.   Trafer toxing ball.   North America trafer lighting function.   Drive type   Parking aid system   Speen wheel   Drive type   Parking aid system   Parking aid system   Team help not yet available.   View all parameters	RSJB 🔬 🖌		<i>w</i>		
List or personalisation p       Comparison delivery mode.         Superson delivery mode.       Do you wish to continue editing parameters?         Locking delivery mode.       Image: Comparison delivery mode.         North America trailer lighting function.       Drive type         Parking aid system       Image: Comparison delivery mode.         Space wheel       Drive type         Parking aid system       Image: Comparison delivery mode.         Item help not yet available.       Image: Comparison delivery mode.         View all parameters       Image: Comparison delivery mode.		Operator question			
Description         Suspension delivery mode.         Trailer towing ball.         North America trailer lighting function.         Drive         Spare wheel         Drive type         Parking aid system         Speed dependent intermittent wipers         Description         Parking aid system         View all parameters	List of personalisation p	Construction decoulder			
Suspension delivery mode.         Tradier towing ball.         North America tradier lighting function.         Drive         Spare wheel         Drive type         Parking aid system         Speed dependent intermittent wipers         Parking aid system         Parking aid system         Parking aid system         Parking aid system         View all parameters	Description	1			
Locking delivery mode.   Trailer towing ball.   North America trailer lighting function.   Drive   Spare wheel   Drive type   Parking aid system   Speed dependent intermittent wipers     Modification procedure   Parking aid system     Parking aid system     Parking aid system     Parking aid system     View all parameters	Suspension delivery mode.	Do you wish to continue editin	a parameters?		
Trailer towing ball. North America trailer lighting function. Drive Spare wheel Drive type Parking aid system Speed dependent intermittent wipers Modification procedure Description Parking aid system Item help not yet available. View all parameters	Locking delivery mode.	Do you wish to continue cultin	g parameters:		
North America trailer lighting function.   Drive   Spare wheel   Drive type   Parking aid system   Speed dependent intermittent wipers     Description   Parking aid system     Parking aid system     Parking aid system     View all parameters	Trailer towing ball.				
Drive   Spare wheel   Drive type   Parking aid system   Speed dependent intermittent wipers     Modification procedure   Description   Parking aid system     Parking aid system     View all parameters	North America trailer lighting function.				
Spare wheel   Drive type   Parking aid system   Speed dependent intermittent wipers     Modification procedure   Description   Parking aid system     Parking aid system     Parking aid system     View all parameters	Drive				
Drive type   Parking aid system   Speed dependent intermittent wipers	Spare wheel				
Parking aid system Speed dependent intermittent wipers Modification procedure Description Parking aid system Item help not yet available. View all parameters	Drive type				
Speed dependent intermittent wipers   Modification procedure   Description   Parking aid system	Parking aid system				
Modification procedure         Description         Parking aid system         Parking aid system         Item help not yet available.         View all parameters	Speed dependent intermittent wipers			~	
Modification procedure         Description         Parking aid system         Parking aid system         Item help not yet available.         View all parameters					
Description       Parking aid system       Parking aid system       Item help not yet available.       View all parameters	Modification procedure			ameters	
Parking aid system Parking aid system Item help not yet available. View all parameters	Description				
Parking ald system Tem help not yet available. View all parameters	Description Description				
Parking aid system Item help not yet available.					
Parking aid system Item help not yet available.			-		
View all parameters	Parking aid system		¥ 1		
View all parameters	item neip nut yet available.		<b>^</b>		
View all parameters					V
✓	View all parameters				~
					1
	2				<b>V</b>
	r.				

#### 4.2.3 Session Active Car Configuration Selection

This application has been developed to assist the rework of certain vehicle CCF corruption scenarios, where an alternative CCF data set can be viewed, compared and downloaded to the vehicle. For the majority of diagnostic work this application will not be needed, however below is an example listing of when an alternative session active CCF may be needed:

- Where the vehicle master module has blank CCF data
- Where the vehicle master module has corrupt or incorrect CCF data
- Where the operator preferred session active CCF differs from the IDS automatically selected CCF
- Where incorrect CCF editing has been carried out using IDS, previous CCF sessions can be retrieved
- Downloading a CCF provided by JLR hotline

The Session Active Car Configuration Selection application will provide the ability to compare a selected CCF (or multiple CCF's) with the As-built data and the current Session Active CCF. On entering the application a help screen will be displayed providing an overview of the application functionality. The operator will be prompted that the CCF will be sourced from the master CCF vehicle module, all possible back-up modules and (where possible) the As-built data.

Once uploaded the CCF validity check will be conducted as explained earlier in this document, if one (or all) of the CCF(s) is deemed as being corrupt or invalid then the operator will be informed. A corrupt CCF will not be available to select as a Session Active CCF or to use as a comparison CCF. Once the validity check has completed and passed against one or more of the CCF(s) the following options will be provided for selection:

- 1. As-built CCF / Vehicle Master CCF / Vehicle Back-up(s) CCF
- 2. Other sources
  - The other sources will include the following
    - Session CCF store
    - USB Drive (Engineering Access only)

Selection of the "Other" source will allow the operator to navigate to a USB drive or the session folder, where all previously stored session CCF files will be made available for selection. Where a CCF data set is selected from this source, the validity check will be conducted along with the CCF Comparison function. On selection the operator will be able to view the selected file through either the summary display or the detailed parameter display screen, these can be toggled using specific icons. If one or more of the selected CCF's are classed as corrupt they will not be loaded into the viewing tool.

Each CCF displayed can be selected using the buttons at the base of the screen display, on selection the parameter listing will dynamically update. Once the confirmation tick is pressed any session entry personalisation features will be compared to the chosen CCF, where a mismatch is located between the chosen CCF and the session entry CCF the operator is informed. The operator will also be provided with the ability to accept or reject all session entry mismatches.

#### 4.2.3.1 Application Screenshots and Walkthrough

The screen below shows the menu entry into the current active session car configuration application:

🔶 🧾 🗊 🛛 🗇 🗮 🚵	💞 🚉		
[IDS-DVD112_V4.2] Jaguar XF 08 / 100-00 (	Complete vehicle	_	
Car Configuration Management > Sess	ion active car configuration selection	j	
Car Configuration Management	Session active car configuration selection		
Module programming	Current venicle car configuration modification		
Set-up and configuration.			
Special applications.			
Module information			
Add/remove accessories.			
Before carrying out any car configuration or software download operations, please run the			
diagnostic trouble code monitor to verify no diagnostic trouble codes are present Action			
any diagnostic trouble codes raised as		×	
Toquirou.		<b>√</b>	

The following screen provides the operator with the summary screen of the current vehicle CCF status:

🔶 📓		en 1997	
[IDS-DVD114_V5]			
Session entry car configuration summ Active session active car configuration so	ary ource is RSJB 1	Let the car configuration summary	1 1
201		press the following button:	
VIN SAJWA07C591R00067	RSJB	To view the car configuration parameter data and any mismatches, press the following button:	
Car configuration type	master	E C	<b>Q</b> B
Car configuration status		Additional car configuration help information	
Critical mismatches	NA		
Personalisation mismatches	NA	- •	
		×	
	Vehicle se	lector	

The next screen provides the operator with an overview of the CCF availability:

🔶 🔜 🗊 🛛 📎 🗮 🌦 👘 💞 🚵	
[IDS-DVD112_V4.2] Jaguar XF 08 / 100-00 Complete vehicle	
Session entry car configuration summary Active session active car configuration source is RSJB	
and the second sec	<b>I</b> F
	т
PAN	р
	T
VIN \$4,JW407C591R00067 RSJB PCM FSJB AS BUILT	т
Car configuration type	m
Car configuration role master backup backup as_built	b
Car configuration status	If
Session active	a
Critical mismatches NA 0 0 16	s
Personalisation mismatches NA 0 0 4	
	X
	$\checkmark$
	<b></b>

The next screen provides the operator with an overview of the application:



The screen below provides the operator with the current CCF source details:

		_		Description		Value	_		16	<b>a</b>	~		
Brand						Jaquar				- unit - i		-	
Model vear						2009 model year							
Vehicle identificatio	on number					SAJWA07C591R00067							
VIN character 04 -	Market/Restra	int syst	em			W - USA (Federal)							
VIN character 08 -	ECS Code					C - ECS 03 (Federal)							
Transmission type						Automatic transmission is fil	tted.						
Fuel type						Petrol engine							
Engine type						AJ33 4.2L engine							
Vehicle status.				Battery delivery mode.		Inactive							
Vehicle status.				Suspension delivery mode.		Inactive					~		
Ise the buttons belo	low to change t	ne activ	e ses	sion car configuration source	Turne			Value	ſ	View all para	ameters		
se the buttons bek Module	low to change t	ne activ	re ses	sion car configuration source Description Auditary function box (body contr	Type Vehicle (	matter module	•	Value	ſ	View all para HEX			
Ise the buttons bek Module RSJB PCM	low to change the Status	ne activ	e ses	sion car configuration source Description Auxiliary junction box (body contr Powertrain control module	Type Vehicle I	master module	•	Value Jaguar	r	View all para HEX 0x02 0x02			
Ise the buttons belo Module RSJB PCM FS18	Status	ne activ	e ses	sion car configuration source Description Auxiliary junction box (body contr Powertrain control module Central works powerted	Type Vehicle I Vehicle I	master module backup module backup module	•	Value Jaguar Jaguar	r	View all para HEX 0x02 0x02 0x02	ameters		
Jse the buttons belo Module RSJB PCM =SJB As built file	Status	ne activ	e ses	sion car configuration source Description Auxiliary junction box (body contr Powertrain control module Central junction box (body control R00067.VBF	Type Vehicle I Vehicle I Vehicle I	master module backup module backup module e binary file	0	Value Jaguar Jaguar Jaguar Jaguar	1	View all para HEX 0x02 0x02 0x02 0x02 0x02	ameters		
Jse the buttons belo RSJB PCM PSJB As built file	low to change the status s Status status s	he activ	o ses	sion car configuration source Description Auxiliary junction box (body contr Powertrain control module Central junction box (body control R00067.VBF	Type Vehicle I Vehicle I Versatile	master module backup module backup module e binary file	1	Value Jaguar Jaguar Jaguar Jaguar	ſ	View all para HEX 0x02 0x02 0x02 0x02 0x02	ameters		

The current session active CCF is detailed within the centre of the screen and also by the blue 1 icon in the bottom table display. The window towards the top of the screen displays the pre-defined list of parameters for the selected session active CCF, once again all CCF parameters can be viewed using the "view all parameters" checkbox. The columns to the right of this window show the overall critical and / or personalisation mismatches, against all sources. On selection of any parameter in the top window, by highlighting blue (as shown above), the lower window will then display the associated value for the selected parameter against every CCF source being used.

All CCF data sets will be compared to the session active CCF within this application. To select an alternative session active CCF the 5 icons at the bottom of the screen can be used. A icon will be greyed out (not selectable) when the source is already the master, the source is unavailable or the source is corrupt / invalid. Selecting an alternative source will dynamically update the upper window to display the parameter listing for the selected session active CCF.

At this point the session active CCF has not been downloaded to the vehicle, once the required session active CCF has been selected for use the green confirmation tick  $\checkmark$  must be pressed.

The next screen displays a selection without any differences. The application will not allow an alternative session active CCF to be downloaded, if there are no comparison differences with the current master.

	1	(	100 ···		
aroup title	Description	Value	<b>U</b> 16	0,14	
rand	- W	and the second			<b>47</b>
lodel year					لهك
enicle identification number					
in character 04 - Market/Restrai					
IN character U8 - EC5 Code			4		
ansmission type	The source you have s	selected contains no difference	es to the		
Jei type	current active source				
igirie cype					
ahide status					
				~	
Active session c				port simu	
Active session e					
e the buttons below to change th				w all parameters	
e the buttons below to change th				w all parameters	
e the buttons below to change the				v all parameters	
e the buttons below to change				w all parameters	
e the buttons below to change				v all parameters	
e the buttons below to change the odule Status 538 & Company Comp			×.	v all parameters	
e the buttons below to change the odule Status 538 Grief Status 538 Grief Status 538 Grief Status 558 Grief Status 558 Grief Status Status 550 Grief Status S			×	v all parameters	
the buttons below to change the oddle Status 538 & 538 & 539 & 539 & 540 & 5			2	v all parameters	
the buttons below to change the duttons below to change the duttons below to change the dutton below t			×	v all parameters	×

Where there are comparison differences with personalisation data the display will be similar to the one below. Both SJB CCF data sets have the same setting however the newly selected PCM CCF has 4 different personalisation settings:

Group title			Description		Value		0	)4	🕅 4	■
Powertrain			Drive		Undefined					<b></b>
Tire pressure monit	toring		Spare wheel		No					
Drive type					Left hand drive					
Parking aid system					Undefined				<b>60</b>	-
Windshield wipers			Speed dependent intermittent wip	ers	No					
Windshield wipers			Speed dependent front wipers		Yes					
Exterior lamps			Headlamp delay		00					
Exterior Lights 3			Scandinavian daylight running lam	ps enable	Disabled					
Exterior Lights 3			Canadian daylight running lamps e	nable	Disabled					
Alarm status Alarm status Alarm status Active se the buttons before	session o	ar co	Canadian daylight running lamps	enable CM	Disabled Fitted			[	Reset view	
Alarm status Alarm status Active se the buttons belo	session c	ar co	Canadian daylight running lamps i	CM	Disabled Fitted			[	Reset view View all param	•ters
Alarm status Active se the buttons belo	session c ow to change th Status	ar co le active	Canadian daylight running lamps i canadian asylight running lamps i canadian source is: Pro- session car configuration source Description	CM Type	Disabled Fitted	0	Walue	[	Reset view View all param HEX	eters
Alarm status Active se the buttons belo Module RSJB	session c ow to change th Status	ar co ne active	Canadian daylight running lamps i configuration source is: Po a session car configuration source Description Auxiliary junction box (body contr.	CM Type Vehicle	Disabled Fitted	•	Value 60s	] r	Reset view View all param HEX 0x3C	eters
Alarm status Active se the buttons belo Module RSJB PCM	Session c ow to change th Status	ar co ne active	Canadian daylight running lamps i configuration source is: Pi session car configuration source Description Auxiliary junction box (body contr. Powertrain control module	Type Vehicle Vehicle	Disabled Fitted e master module e backup module	() () ()	Value 60s 00	[	Reset view View all param HEX 0x3C 0x00	eters
Alarm status Alarm status Active se the buttons belo Module RSJB PCM =SJB	session c ow to change th Status	ar co	Canadian daylight running lamps - canadian daylight running lamps - canadian daylight running lamps - canadian source : P4 session car configuration source Description Auxiliary junction box (body control Central junction box (body control	Type Vehicle Vehicle Vehicle	Disabled Fitted e master module e backup module		Value 60s 00 60s	[	Reset view View all param HEX 0x3C 0x00 0x3C	eters

Once the previous screen session active CCF has been selected the operator is presented with the option to accept or reject the session entry personalisation values. This allows the operator to ensure the vehicle configuration settings for the owner personalisation features remain constant. The default display accepts the session entry values and this is detailed by the direction of the blue arrow highlighted  $(\rightarrow)$  in the top window display:

ist of personalisa	ion pa	rameters for o	opying						1	
escription		<b></b>	L Current	vehicle settings	•	Selected session	active settings			
oeed dependent intermitte	wipers	1	Yes		<b>(</b> *	No				
eadlamp delay		( <u>)</u>	60s		-	00				
Tirror dip in reverse enable			Inactive		-	Active				
		Take session	active se	itting Keep	p current	state	☐ <u>View all p</u>	arameters		
User selected	sessic ter and us value.	Take session	active se	itting Keep	p current	state	T View all p	arameters) eject this		
User selected lect a personalisation param detain the previously store todule Status	sessic ter and us value.	Take session	active se	Itting Keep	p current	state	Car configuration file or r	arameters eject this		
User selected lect a personalisation param d relain the previously store lockule Status	sessid ter and us value.	Take session	active se	Itting Keep ion source is: P r to accept the new value f	P current	state	View all p     View all p     data configuration file or n     HEX     0x01	arameters sject this		
User selected lect a personalisation param d relain the previously store Status 538 i CM i	sessid ster and us value.	Take session n active car c the buttons below to Description Auxiliary functio Powertrain cont	active se	Itting Keep ion source is: P r to accept the new value f Type ntr Vehicle master moc Vehicle backup moc	P current	state ed active session Value Yes No	View all p     V	arameters sject this		

Using the blue arrow buttons  $\rightarrow$   $\leftarrow$  highlighted at the bottom of the screen the personalisation features can be changed to take the new value or continue with the current vehicle state, as shown below:

ist of per	sonalisatio	n par	ameters for co	pying						1	
Description				Current vehicle	e settings	•	Selected session	active settings			
peed depende	ent intermittent wip	bers	<b>69</b>	Yes		->	No				
leadlamp delay	li.			60s		•	00				
lirror dip in rev	verse enable			Inactive		•	Active				
		(	Take session a	ctive setting	g Keep c	urrent	state	I <sup>™</sup> View all	parameters		
User	selected se	ession	Take session a	ctive setting	g Keep c source is: PC	urrent ¢	state	T View all	parameters reject this		
User User a persona Id retain the pro	selected se visation parameter eviously stored val	ession and use ue.	Take session a	ctive setting	g Keep c source is: PCt	urrent	state	☐ View all car configuration file or HEX	varameters reject this		
User Usert a persona dr retain the pri fodule (538	selected se alisation parameter eviously stored val Status Status	ession and use ue.	ake session a	ctive setting	g Keep c source is: PCP coept the new value from Type Vehicle master module	urrent	state	☐ View all car configuration file or HEX 0x3C	varameters		
User elect a personn nd retain the pri Module (\$38 >CM	selected se alisation parameter eviously stored val Status Q Q Q	ession and use ue.	ake session a	ctive setting	g Keep c source is: PCI scept the new value from Type Vehicle master module Vehicle backup module	he propos	state	☐ View all car configuration file or HEX 0x3C 0x00	reject this		

The screen below displays the pop-up once the confirmation tick is pressed, pressing the green confirmation tick  $\checkmark$  will download the CCF to the vehicle master module and all associated back-up modules:

		🌌 🍋	
[IDS-DVD112_V4.2] Jaguar XF	08 / 100-00 Complete vehicle		
List of personalisation para	meters for copying		
Description	🔯 🤳 Current vehicle settings	Selected session active settings	
Speed dependent intermittent wipers Headlamp delay	Aug Vec	- No	
Mirror dip in reverse enable	<b>Operator question</b>		
	Do you wish to download the ver	hicle configuration file?	
			irameters
User selected sessi			
			ingt this
and retain the previously stored value.			Ject this
Module Status		<u>×</u>	
PCM Q		¥	
Headlamp delau	×	<u> </u>	
Item help not yet available.			X
			1
			<b></b>

Screen below allows the operator to return to the main menu by selecting the cross  $\varkappa$  or return to the parameter editing screen; this screen will only be displayed if the cross  $\varkappa$  is selected on the above screen:

🔶 📓 🗊 🛛 👳		💞 🚵	
[IDS-DVD112_V4.2] Jaguar XF	08 / 100-00 Complete vehicle		
List of personalisation para	meters for copying		1 🖃
Description	🔯 🧜 Current vehicle settings	Selected session active settings	
Speed dependent intermittent wipers	Yec	No.	
Mirror dip in reverse enable	<b>Operator question</b>		
		2	
	Do you wish to continue editing par	ameters?	
			irameters
User selected sessi			
Select a personalisation parameter and u and retain the previously stored value.			ject this
Module Status	]	9	
PCM Q			
Headama dalau	<b></b>	<u> </u>	
Item help not yet available.			X
·			1
			<b></b>

#### 4.2.3.2 Selection of Session Active CCF from "Other" Source

If all other CCF data is invalid the "select other" button highlighted can be selected:

Group title				1	1			51			
Group dde				Description	Value		16	0014			
Brand					Jaguar					<b>47</b>	
Model year					2009 model year				_	لجك	
Vehicle identificat	entification number		5AJWA07C591R00067			_					
VIN character 04	- Market/Restrai	лt systi	em		W - USA (Federal)	W - USA (Federal)			_		
VIN character 08	/ - ECS Code				C - ECS 03 (Federal)	C - ECS 03 (Federal)					
Transmission type	e				Automatic transmission is	hitted.			_		
Fuel type					Petrol engine						
Engine type					AJ33 4.2L engine						
Vehicle status.	Vehicle status.			Battery delivery mode	Inactive						
/ehicle status.				passory delivery mode.							
Vehicle status.	e session c	ar c	onfi	Suspension delivery mode.	Inactive Duilt file			Reset vie	•••		
Vehicle status. Active Jse the buttons be	e session c elow to change th	: <b>ar c</b> ) le activ	onfi e sess	Suspension delivery mode. guration source is: As I nion car configuration source	Inactive Duilt file	() uses		Reset vie View all pa	w rameters		
Vehicle status.  Active Jse the buttons be Module	e session c elow to change th Status	ar ci	onfi e sess	Suspension delivery mode. guration source is: As I ion car configuration source Description	Inactive Duilt file	Value		Reset vie View all pa HEX	ww rameters		
Vehicle status.  Active Jse the buttons be Module RSJB	e session c elow to change th Status	ar ci	onfi e sess	Suspension delivery mode. Suspension delivery mode. Suspension delivery mode. Suspension source is: As if ion car configuration source Description Auxiliary junction box (body contr	Inactive Duilt file Type Vehicle master module	Value Jaguar		Reset vie View all pa HEX 0x02	ww rameters		
Vehicle status. Active Jse the buttons be Module RSJB PCM	e session c elow to change th Status	ar c) le activ	onfi e sess	Suspension delivery mode. Suspension delivery mode. Suspension source is: As I sion car configuration source Description Auxiliary junction box (body contr Powertrain control module	Inactive Inactive Type Vehicle master module Vehicle backup module	Value Jaguar Jaguar		Reset vie View all pa HEX 0x02 0x02	www.		
Vehicle status. Active Active Jse the buttons be Module RSJB PCM FSJB PSJB Active RSJB	e session c elow to change th Status Q Q Q Q Z Z	ar ci	onfi e sess	Suspension delivery mode. Suspension delivery mode. guration source is: As I ision car configuration source Description Auxiliary junction box (body contr Powertrain control module Central junction box (body control power use	Inactive Dutit file Type Vehicle master module Vehicle backup module Vehicle backup module	Value Jaguar Jaguar Jaguar		Reset vie View all pa HEX 0x02 0x02 0x02	www.		

On selecting other, a window appears with previously stored CCF data. The data is collected from previous sessions. This data is only available for the current vehicle:



If the vehicle has not previously been connected to using the current IDS a message will appear "No file found". If data is available, selecting the most recent file would be most appropriate, as this will have the least amount of discrepancies:

Group title	Description		Value		0 🕐		lo 🔥		
Brand		1	Jaguar					_	
Model year								3 🗖	
vehicle identification									
VIN character 04 - M	R00067 X250 MY08								
VIN character 08 - E	Please select source file								
Transmission type			0						
Fuel type	Vehicle/file details.	Maste	r Date	Time	Size (KB).	Туре	Drive		
Engine type	CCF_J_R00067_PAGGB99999_06_20080701114531.X	ML RSJB	01 July 08	11:46:49	474 KB	XML	C:\Do		
Vehicle status.	X250 RSJB CCF J R00067 PAGGB99999 05 20080	624 RSJB	24 June 08	07:54:50	2 KB	VBF	C:\Do		
Vehicle status.	×250_FSJB_CCF_J_R00067_PAGGB99999_05_20080	S24 RSJB	24 June 08	07:54:49	2 KB	VBF	C:\Do		
	CCF_J_R00067_PAGGB99999_05_20080624074238 X 2250_PCM_PETROL_CCF_L_R00067_PAGGR999999_0	ML RSJB	24 June 08 B 23 June 08	07:54:02	478 KB	XML	C:\Do		
Active :	X250_PCM_PETHOE_CCP_3_H00007_PAG4853333_0 X250_RSJB_CCF_J_R00067_PAG6899999_04_20080	623 OTHE	R 23 June 08	11:23:36	2 KB	VBF	C:\Do		
ise the buttons help	X250_FSJB_CCF_J_R00067_PAGGB99999_04_20080	523 OTHE	R 23 June 08	11:23:35	2 KB	VBF	C:\Do		
ise the buttons belo	CCF_J_R00067_PAGGB99999_04_20080623110412.X X250_PCM_PETBOL_CCF_L_B00067_PAGGB999999_0	ML UTHE	R 23 June 08 23 June 08	11:21:27	479 KB 2 KB	VBE	C:\Do		
Madula	X250_RSJB_CCF_J_R00067_PAGGB99999_03_20080	623 RSJB	23 June 08	11:02:04	2 KB	VBF	C:\Do		
Piddule DC ID	X250_FSJB_CCF_J_R00067_PAGGB99999_03_20080	S23 RSJB	23 June 08	11:02:03	2 KB	VBF	C:\Do		
KOJD DCM	CCF_J_R00067_PAGGB99999_03_20080623105346.X	ML HSJB ML BSJB	23 June 08	10:59:59	478 KB	XML	C'\Do		
		11000	2010/000			(CAMP-C	(		
n DUD Ale faulte Gla	· · · · · · · · · · · · · · · · · · ·	-	-		1				
Other		<b>√</b>		×					
2010	,				-				
								X	

The following screen now shows the additional file as 'Other'. To download the CCF data set to the vehicle the green confirmation tick  $\checkmark$  must be pressed and the data set reviewed and the download process continued as standard.

	Description	Value Jaguar 2009 mo			13	2	^	
		Jaguar 2009 mo						<b>1</b>
		2009 mo	Jaguar					
		2009 model year						
		SAJWA07C591R00067						
/scem		W - USA (Federal)						
		C - ECS (	C - ECS 03 (Federal)					
		Automatic transmission is fitted.						
	MSB	0000000	0		•			
	LSB	0000000	0		•			
		Petrol en	gine					
		AJ33 4.2	L engine				~	
tive ses	sion car configuration source	1		1.75		View all par	rameters	
	Description	Туре		U Va	alue	HEX		
(	Auxiliary junction box (body contr	Vehicle master m	odule	Ja	guar	0×02		
<i>(</i>	Powertrain control module	Vehicle backup m	odule	Ja	guar	0x02		
<u>(</u>	Central junction box (body control	Vehicle backup m	odule	Ja	guar	0x02		
	R00067.VBF	Versatile binary f	le	Ja	guar	0x02		
1		and the second se						
0	User selected file	User selected file		Ja	guar	0×02		
C	conf	MS8 LS8 configuration source is: Oth clive session car configuration source Description Auxilary junction box (body contr Pewertrain control module Central junction box (body control	Automati MS8     O000000 LS8     O000000     LS8     O000000     Petrol en     A333 4.2      Configuration source is: Other      Clive session car configuration source      Description     Auxilary juncton box (body contr Vehicle master m     Powertrain control module Vehicle backup m     Central juncton box (body control Vehicle backup m	Automatic transmission is fit     MS8     0000000     LS8     0000000     LS9     0000000     Petrolengine     A333 4.2L engine     A334 4.2L engine     A344 4.2L engine     A444 4.2L engine	Automatic transmission is fitted.  MSB 0000000 LSB 0000000 CSB 000000 CSB 000000 CSB 000000 CSB 00000 CSB 00000 CSB 00000 CSB 00000 CSB 0000 CSB 000	Alastary junction box (body control)      Velice backup module     Jaguar      Central junction box (body control)      Velice backup module     Jaguar	Central junction box (body control Vehicle backup module	

# **5** Revision History

Date	Author	Version	Change Reference
27/02/2008	P. Lumley-Holmes	V1.0	Initial Release
10/03/2008	P. Lumley-Holmes	V1.1	Removal of Engineering text
07/07/2008	P. Lumley-Holmes A. Smith	V1.2	Updates for DVD114 inclusions