

INSITE[™] 8.0.0 - What's New?

Cummins Electronic Service Tools



What's New Topics?

- Installation
- Operating Systems Supported
- New Engines Supported
- New Features Supported
- New ECM Diagnostic Test Supported
- What's New Summary
- INSITE[™] Overview



Installation INSITE™ 8.0.0 installation

- INSITE[™] 8.0.0 is available for download from the <u>https://insite.cummins.com/insite/downloads/index.ht</u> <u>ml</u> on or after February 28th 2014.
- Administrative rights are NOT needed to install INSITETM 8.0.0 via Update Manager (INSITE 7.6.X required on the machine to use this method)
- New licenses may be required should license migration fail from 7.6.X to 8.0.0. Launch INSITE™ first if INSITE was on the machine previously to perform the license migration.



Operating Systems

Supported:

- Windows® 7, 32-bit and 64-bit
- Windows® 8.X 32-bit and 64-bit
- Not supported:
 - Windows® XP, 32-bit and 64-bit
 - Windows® Vista, 32-bit and 64-bit



Product Based Licensing

 INSITE 8.0.0 licensing has been updated to include licensing based on the engine support needed. All of the existing levels of Pro, Lite and RSGR/Industrial Pro and Basic are supported in all of the Product Levels.

- Product Levels:

- MR/HD Automotive This will support all Mid Range and Heavy Duty automotive engines supported by the Service Information Rule (SIR) and Repair and Maintenance Information (RMI) regulations.
- MR/HD Plus This will support all Mid Range and Heavy Duty automotive and industrial engines including those supported by SIR and RMI. This does not include High Horsepower engines.
- Service Plus This will support all Mid Range and Heavy Duty automotive and industrial engines and High Horsepower engines. This functionality level will require High Horsepower Certification before it can be purchased.
- Note: Higher functionality levels will not function without an active Basic license.



Reset Inactive Faults

 With INSITE 7.6.2, this function was disabled for the 2007 and above engine models. To reset inactive fault codes, the Reset All Faults option can be selected.

INSITE Integrated Simulator - Multi Module

- With INSITE 7.6.2, changes were made for 2007 models and above were combined into one single simulator called INSITE Integrated Simulator - Single Module.
- With INSITE 8.0.0, for 2007 models and above multi module simulators are now combined into one single simulator called INSITE Integrated Simulator - Multi Module. This will display all the Features and Parameters, ECM Diagnostic Tests, and Advanced ECM Data that is supported for multi module engines.
- The existing 2007 models and above multi module engine simulators will be removed. This will not impact the multi module engine simulators prior to 2007 models.

INSITE Data Packs

 Installed with 8.0 is the Data Pack program. This is a base program that will allow minor updates to be installed without the need of an INSITE Feature Pack release. This program, and the License Configuration Tool, is built into the INSITE installation and will install before INSITE. If they are removed after installation, INSITE will not function. INSITE Data Packs may include the support of a new engine product, new features and new monitors. These will be installed using the Cummins Inc. Update Manager.

- Calibration Selection and Download
- INCAL
 - The INCAL expiration date has been extended from six months to seven months. This change will also apply to calibrations that are downloaded from QuickServe Online.
- Calibration Passwords
 - If a calibration authorization is needed during a calibration download, a Fleet Calibration Count will be needed.
 Fleet Counts will be the only Calibration Authorization Password available with the Licensing Configuration Manager.
 - The single calibration password option is no longer available. The Calibration Authorization window will only
 display a check box to use a Fleet Calibration Count and display the current and requested ECM Code
 information.
- Programmable Datalink Device (PDD) Calibration
 - When selecting PDD under Calibration Selection, INSITE will disconnect from the ECM and open the reflash window in full screen.
 - Once the PDD reflash has completed, the PDD window must be closed by using the Close Button (X) on the window.
 - INSITE will not automatically reconnect to the ECM after the PDD window has been closed. A manual reconnection will be necessary.



Work Orders

- Work Orders and Images created in Simulator Mode on an earlier release, will be deleted on the upgrade to 8.0.0. This affects simulator only. Work Orders and Images created from an ECM will be retained.
- When connected in Simulator Mode, only Work Orders and Images created with the Integrated Simulator will be displayed.



New ECM Diagnostic Test Supported

- ***This will only be displayed if it is supported by the calibration.
- Aftertreatment Diesel Particulate Filter Restriction Test
 - This test will aid in the evaluation of the Aftertreatment Diesel Particulate Filter to determine if it needs to be cleaned and if it meets reuse criteria after a cleaning event.



Advanced ECM Data

- ***These will only be displayed if they are supported by the calibration.
- Aftertreatment Diesel Oxidation Catalyst Efficiency
 - Each time a regeneration is performed, the ECM calculates the efficiency of the Diesel Oxidation Catalyst. This value is logged in the ECM when there is a change from the previously calculated value. This feature will display the last ten log values.
- Aftertreatment Maintenance and Aftertreatment Maintenance Filter Installation
 - This feature has been updated to include two new monitors: Aftertreatment Diesel Particulate Filter Remaining Hours and Aftertreatment Diesel Particulate Filter Remaining Distance. These monitors provide the distance and hours remaining before the next Diesel Particulate Filter cleaning.





Overview of INSITE Licensing Changes



Overview of INSITE Licensing Changes

- INSITE will change how it is licensed with the release of INSITE 8.0.0
 - Requires an internet connection to activate a license and revalidate the license (every 90 days).
 - Introduces Product Based licensing
 - The active 7.5.X or higher licenses will migrate automatically to 8.0.0 license system
 - Allows for bulk license purchasing for larger customers (up to100 licenses).
 - Introduces Simulator Mode
 - Allows the end user to activate, repair, revalidate, and transfer a license.
- Will only support Windows® 7 and Windows® 8 Operating Systems



New Licensing Terminology

 Activation Key – A 12 character alpha-numeric string used as part of activating licenses via online and offline mode methods. A license administrator and/or Distributor will receive an activation key for each license purchase transaction.

 Tool Instance – Replaces the PCID. The Tool Instance will display everywhere the PCID displayed previously (Work Orders, Activity Logs, Images, Help About, etc.)



Internet Connectivity Requirements

- Does the new licensing require INSITE to be connected to the internet all the times?
 - No The internet is only needed when activating licenses, repairing licenses (corrupt / back dated), transferring licenses, and revalidating licenses.
 - Being connected to the internet at all times just limits the prompting INSITE will do as the system gets close to the revalidation period. (30, 15, 10-1 days remaining)
- NOTE: Requires everyone with an active INSITE license to connect to the internet at least once every 90 days.



Revalidation Information

- Everyone with an active INSITE license must connect to the internet at least once every 90 days to revalidate their licenses and counts.
- If the revalidation period has passed (over 90 days), INSITE will revert to Basic functionality and all counts on the PC will be removed.
- The user can connect to the internet after the revalidation has passed and then functionality license will be activated back on to the PC.
- If the license has expired after the revalidation period, the user must purchase a new license and enter in the new activation keys.

Product Based Licensing

- With the introduction of INSITE 8.0.0, licensing will be defined by product and functionality levels.
- INSITE Pro, Lite, RSGR/Industrial Pro, and Basic will still be available as functionality levels.
- New Product Levels
 - Service Plus All supported engines
 - All 7.5.0 to 7.6.2 licenses will be migrated to the Service Plus level
 - MR/HD Plus All supported engines minus HHP
 - MR/HD Automotive EPA 2007 > (SIR) and Euro VI (RMI) products only
- Example: Currently have Pro, the license will migrate to 8.0.0 as Service Plus Pro.
- See screenshots on next two slides for more information.



Product Levels and Functionality Levels

			MR/HD
Product Level	Service Plus	MR/HD Plus	Automotive
	(All Supported)	(All minus HHP)	(SIR/RMI Only)
Functionality Level			
Pro	Х	Х	Х
Lite	Х	X	X
RSGR/Industrial Pro	Х	Х	X
Basic	Х	Х	X
Simulator*	X	Х	X
*No licensing required.			



Functionality Levels

Functionality Level	SIMULATOR	BASIC	LITE	RSGR	PRO
-	No license required / No live ECM connection	Read Only ECM Access	No Calibration Download	No Calibration Download / Limited Special Features and Diagnostic Tests	Full Functionality
Features					
View Trip Information		Х	X	X	Х
View Fault Trees		Х	X	X	Х
Fault Information System		Х	X	X	Х
View Troubleshooting Steps		Х	X	X	Х
View Parameter Settings		Х	X	X	Х
View Wiring Diagrams		Х	X	X	Х
View Engine Dataplate		X	X	X	Х
Driver Rewards		X	X	X	Х
Data Monitor / Logger		Х	X	X	Х
Reset Trip Information			X	X	Х
Reset and Clear Fault Codes			X	X	Х
Set Engine Features (on/off)			X	X	Х
Set / Adjust Parameters			X	X	Х
Set / Change ECM Passwords			X	X	Х
Create Settings Templates			X	X	Х
Create Work Orders / Jobs			X	X	Х
ZAP-It Functionality			X	X	Х
Run Special Features			X	Limited	Х
Run Diagnostic Tests			X	Limited	Х
Read / Retrieve Calibration Files					Х
Load Engine Calibrations					X



License Migration Information From Versions 7.5.X or Higher to 8.0.0

- All <u>active</u> INSITE licenses that are 7.5.X or higher will be migrated to the 8.0.0 licensing system.
- If the user only has a BASIC license and it is 7.5.X or 7.6.X, it will be migrated for free to get the user onto the new licensing system.
- All active INSITE licenses will be migrated to the Service Plus product level.
- The migrated licenses will keep the same functionality level.
- All fleet counts, Zap-Its, and OEM Zap-Its will be migrated.
- The expiration of the current licenses will remain the same once the licenses are migrated to the new licensing system.
- Migrated licenses will not be able to be renewed once they expire.
 - Once the migrated license has expired, a new license must be purchased in the new licensing system with the correct product level and functionality level.
 - Only those certified to work on HHP products will receive the Service Plus product level once the migrated license has expired.

License Migration Information From Versions 7.5.X or Higher to 8.0.0 Continued

- To migrate the license from INSITE 7.5.X or 7.6.X (recommended) to 8.0.0 follow these steps:
 - Step 1: Install INSITE 8.0.0 and the License Configuration Tool on the PC
 - Step 2: Open INSITE 8.0.0 with an active internet connection
 - Step 3: The 7.X.X licenses and counts will be migrated, if an internet connection is on the PC.
 - Step 4: The migrated licenses will work on the PC until they expire.
 - Step 5. New licenses must be purchases once the migrated licenses have expired.

NOTE: The PC must be on Windows® 7 or Windows® 8 operating systems to install INSITE 8.0.0



Bulk License Purchasing

- Distributors and License Administrators may purchase up to 100 INSITE licenses at one time.
 - Allows easier management of large accounts for the Distributors and License Administrators.
 - Can be broken up for a region or location for a particular customer.
 - Example: A business has 5 locations that need INSITE licenses with each one having different types and numbers of licenses.
 - Option 1: Could purchase 7 Pros and then 16 Lites in one transaction to track the whole business.
 - Option 2: Could purchase for each location separately but in bulk for the multiple licenses.

Location #1	Location #2	Location #3	Location #4	Location #5	Total
2 Pro	1 Pro	1 Pro	2 Pro	1 Pro	7 Pro
1 Lite	6 Lite	2 Lite	4 Lite	3 Lite	16 Lite



Bulk License Information

- Licenses can be purchased in bulk from 2 to 99 at one time.
- The licenses are for the same functional type and product level type.
 - If purchasing 15 Service Plus Lite licenses in bulk, will receive 1 activation key for the 15 Service Plus Lite licenses and 1 activation key for the 15 Service Plus Basic licenses to go with those Service Plus Lite licenses.
- For bulk licenses, the first license to be activated will be the expiration date for all of the other licenses that were purchased in bulk.



New Simulator Mode



- INSITE 8.0.0 introduces a Simulator Mode for showing INSITE to customers prior to purchasing.
 - Step 1: Install INSITE 8.0.0 or later on the user's PC and do not add licenses.
 - Step 2: In Help About, it will show NA for the tool instance.
 - Step 3: Can view INSITE features using Simulator Mode.



New Simulator Mode Continued

- Will not be able to connect to an ECM in Simulator Mode. No "Live" connection.
- Will not be able to view images and/or Work Orders created on a "Live" ECM.
- Will only be able to view information available in the Simulators.



INSITE Screen Changes – Help About



- INSITE Version: Keeps the same format as previous INSITE releases.
- Data Pack Version: This is new and contains the data content version for this release of INSITE.
- **Tool Instance:** Replaces the PCID.



INSITE Screen Changes – Manage Licenses



The licensing information has been removed from the Tools > Options location. All licensing must be done through the LCT.

End User Ability to Activate, Repair, Revalidate, and Transfer Licenses

- Will have the ability to activate their licenses if provided the Activation Key or QuickServe Log In information.
- Will be able to repair the license for PC back-dating and if the license is corrupt.
- Will be able to revalidate the license every 90 days.
- Will be able to transfer a license from one PC to another.
- NOTE: All of these actions require a PC with internet access.



INSITE 8.0.0 Release Information

- INSITE 8.0.0 will be released through DVD only starting in early January 2014.
- The user will be able to install INSITE 8.0.0 using Cummins Inc. Update Manager DVD/CD install and the DVD provided to them.
- The .iso file will be available on the INSITE website in mid-February for downloading and creating DVDs.



INSITE 7.X.X Licensing System Information

- The renewal function for the current 7.X.X system will be turned off starting in May 2014.
 - The user will not be able to renew a 7.6.X license after May 2014.
 - If the user must be on 7.6.X due to a critical business need, please contact your Cummins Distributor, who will request a renewal from the Electronic Service Tools Product Marketing Team.
 - The system will still provide fleet counts, Zap-Its, and OEM Zap-Its after May 2014.
- The 7.X.X Licensing System will be phased out sometime in Q1/Q2 of 2015. All users must be on the new 8.0.0 Licensing System prior to the phased out in 2015.



Introduction to the Cummins License Configuration Tool (LCT)



Cummins License Configuration Tool (LCT) Overview

- The Cummins License Configuration Tool or LCT is a separate application from INSITE that handles all of the tool licensing for INSITE.
- The LCT can be launched from inside INSITE through the "Manage License(s)" tab or opened from the Cummins Folder on the start menu.
- The LCT requires revalidation of the INSITE functionality license once every 90 days.
- An internet connection is required to activate, repair, revalidate, and transfer a license using the LCT.



View Active Licenses / Counts

No Licenses Activated

Licenses Activated

Cummins License Cor	riguration Tool	Cummins License Co	Infiguration Tool	and the second sec		
Language English (Er	iglish) • Help Exit INSITE Tool Instance: 88F2F9DE	Language English (i	nglish) - Help Ex	it Let	INSITE Tool	Instance: 88F2F9DE
INSITE •	Licenses/Counts must be returned to allow activation on another machine. Please select the	INSITE		Active	Licenses	
View Active Licenses/ Counts	Transfer Licenses	View Active Licenses/ Counts	License Type	Expiration Date	Revalidate By	Status 🕐
		-	Service Plus Pro	09/18/14	03/13/14	Active
Transfer Licenses	1	Transfer Licenses	Service Plus Basic	09/17/18	12/13/14	Active
Activate Licenses/ Counts Offline Operations	There are no active licenses on this machine	Activate Licenses/ Counts Offline Operations			-	
	Transfer Counts			Active	Counts	
	Transfer Counts		Count Type	Counts Available	Revalidate By	Status 🕜
			Zap-It	7	03/13/14	Active
			Fleet Count	15	03/13/14	Active
	There are no active counts on this machine Transfer Selected Transfer All React			Updat	e Licenses	





Activate Licenses / Counts Methods

- There are two methods to active licenses and counts.
 - Activation Key Method
 - QuickServe Log In Method



Activate Licenses / Counts – Activation Key Method

- Activate Licenses with an Activation Key
 - Select Activate Licenses / Counts button
 - Enter your Activation Key in the provided field
 - 3. Select "Activate"
 - 4. Repeat for each license (Basic, Functionality Level, and Fleet Counts, etc.)



Activated Licenses Example

anguage English (I	inglish) + Help Exi	t hs	INSITE Tool	Instance: 88F2F9DE
ISITE •		Active	Licenses	
/iew Active Licenses/ Counts	License Type	Expiration Date	Revalidate By	Status 🤇
	Service Plus Pro	09/18/14	03/13/14	Active
Transfer Licenses	Service Plus Basic	09/17/18	12/13/14	Active
Offline Operations		Active	Counts	
Offline Operations	Count Type	Active Counts Available	Counts Revalidate By	Status (2
Offline Operations	Count Type Zap-It	Active Counts Available	Revalidate By 03/13/14	Status (? Active
Offline Operations	Count Type Zap-It Fleet Count	Active Counts Available 7 15	Counts Revalidate By 03/13/14 03/13/14	Status Active Active
Offline Operations	Count Type Zap-It Fleet Count	Active Counts Available 7 15	Counts Revalidate By 03/13/14 03/13/14	Status Active Active


Activate Licenses / Counts – QuickServe Log In Method Steps 1 to 4

- Activate Licenses with a QuickServe Log In
 - Select the ______
 "Activate Licenses/Counts" button
 - 2. Select "Log In"
 - Enter the QSOL-Username and Password
 - 4. Select "Log In" -





Activate Licenses / Counts – QuickServe Log In Method Steps 5 to 7

- Activate Licenses with QuickServe Log In
 - 5. Select the passwords you want to activate
 - Select "Activate" to apply these passwords to the PC.
 - Select "Yes" to confirm the activation of the license(s)

Note: "Reset" button will deselect all checked items.



Activate Licenses / Counts – QuickServe Log In Method Step 8

- Activate Licenses with QuickServe Log In
 - Review the activated licenses by clicking "Yes" –





Activated Licenses Example

anguage English (I	inglish) + Help Exi	t hs	INSITE Tool	Instance: 88F2F9DE
ISITE •	Active Licenses			
View Active Licenses/ Counts	License Type	Expiration Date	Revalidate By	Status 🤇
	Service Plus Pro	09/18/14	03/13/14	Active
Transfer Licenses	Service Plus Basic	09/17/18	12/13/14	Active
Offline Operations		Active	Counts	
Offline Operations	Count Type	Active Counts Available	Counts Revalidate By	Status (2
Offline Operations	Count Type Zap-It	Active Counts Available	Revalidate By 03/13/14	Status (? Active
Offline Operations	Count Type Zap-It Fleet Count	Active Counts Available 7 15	Counts Revalidate By 03/13/14 03/13/14	Status Active Active
Offline Operations	Count Type Zap-It Fleet Count	Active Counts Available 7 15	Counts Revalidate By 03/13/14 03/13/14	Status Active Active









Repairing and Revalidating Licenses

- Repairing a license will happen automatically when LCT detects a condition that requires the license to be repaired with the server
 - Corrupt local license
 - Backdated licenses
 - Tampered licenses

 Revalidation of the license happens every 90 days. If the PC is always connected to the internet, LCT will perform this action on it's own. However, if the PC is only on the internet for short periods of time, the user can trigger a manual revalidation by selecting "Update Licenses" on the Active License Page.



Updating Licenses

- Updating licenses will happen every time LCT connects to the server and sees changes to your active licenses. For example, if you renew a license and extend the license for another year, the next time LCT checks, then it will update your local license to reflect the new expiration date.
- If for any reason this update does not happen, the user can trigger a manual update by selecting "Update License" on the Active Licenses/Counts page. (Screenshot example on next slide)



Updating Licenses Manually



 The user can trigger a manual update by selecting "Update Licenses" on the Active Licenses/Counts page.





Transfer Licenses / Counts – Transfer All Method

- Select "Transfer Licenses" Button
- Select "Transfer All" button
- Select "Yes" to transfer all licenses and counts off of Machine #1

NOTE: This will remove all licenses from Machine #1





Transfer Licenses / Counts – Save Activation Keys

Recommended:
 Save the Activation
 Key information, by
 clicking on "Save
 Keys" button

 This will save the Activation Key(s) information to a file for future reference.

 Once the Activation Key(s) file has been saved, click "OK" to continue





Transfer Licenses / Counts – Save Activation Keys Continued

 Enter a unique name for the Activation Keys and then click "Save".

 Once the Activation Key(s) file has been saved, the location information will be displayed, click "OK" to continue





Transfer Licenses / Counts – Selected Method

- Select "Transfer Licenses" Button
- Select the Licenses and/or Counts to be transferred off of Machine #1.
- Select the "Transfer Selected" button
- Select "Yes" to confirm the transfers
- Same process as "Transfer All" Method from this point forward.





Transfer Licenses/Counts Summary

- Once the licenses and/or counts have been transferred back to the server from Machine #1, the user can use either the Activation Keys created during the transfer process (in saved file) or the QuickServe Log In Method to activate the transferred licenses on Machine #2.
- See the Activate Licenses/Counts Section for more information on how to activate the transferred licenses and/or counts.
- There is a transfer limit for licenses and counts.
- NOTE: Transferring the licenses back to the license server does not stop the expiration count down.



Offline Operations – Activate License Items Needed

- The following is needed to perform offline activations:
 - 1. PC without Internet Connection (INSITE and LCT Loaded)
 - 2. PC with Internet Connection (Only Need LCT for this machine)
 - 3. The Activation Keys you want to activate on the offline machine
 - 4. A method to transfer files between the 2 PCs.
 - USB Drive, Android Phone in Mass Storage Mode, etc



Offline Operations – Activate License Steps 1 to 4

- Select "Activate Licenses / Counts" on Machine without internet connectivity; and with INSITE and LCT installed
- 2. Enter the Activation Key in the provided field
- 3. Select "Activate"
- Select "Yes" to the message that is displayed





Offline Operations – Activate License Steps 5 to 8

- Provide a name for the request file.
- 6. Select "Save"
- 7. Select "OK"
- Repeat Steps 2 through Steps 7 for each License that needs to be activated on the Machine. (Basic, Functionality Level, Fleet Counts, etc.) Be sure and use a different file name for the Request File.





Offline Operations – Activate License Steps 9 to 13

- 9. Open LCT on the Machine with an Internet connection
- Select "Browse" and select the Request file generated in Step 6
- 11. Select "Generate Response File"
- Name the Activations file and Select "Save"
- Repeat for each Request file created



Offline Operations – Activate License Steps 14 to 15

- 14.Select "OK" for confirmation dialog
- 15.Transfer the files via USB drive or other means to the Machine without Internet
- **NOTE:** Remember to transfer ALL files created.





Offline Operations – Activate License Steps 16 to 18

- 16. On the PC without Internet connectivity, go to the Offline Operations tab
- 17. Select "Browse"-
- 18. Find and select the Activation file from the other Machine and Select "Open"







Offline Operations – Activate License Steps 19 to 21

- 19. Select "Apply Response File"
- 20. Select "Yes" or "No" to view the activated License
- 21. If you have more than one key to enter select "No" and repeat Step 16 thru Step 20 until all Activation Files have been applied





Offline Operations

- Offline operations only work for activating and repairing licenses or counts, not for revalidating a license.
- The user must connect to the internet to revalidate the license once every 90 days.





Licensing: Frequently Asked Questions



Does the LCT take the place of the Tools/Options/Security process for passwords used for the old 7.X.X licensing system?

- Yes, the older system has been replaced. INSITE licensing is no longer under the Tools/Option/Security section of INSITE.
- The LCT is a separate application from INSITE.
- The LCT can be launched through INSITE under the "Manage License(s)" tab or through the PC start menu under the "Cummins" folder.



Will the technician need to use the LCT?

- It will depend on the location and what the Service Manager allows the technician to do on his or her own.
 - If the technician is provided the activation key or QSOL Login to activate the license(s), then yes the technician will need to know how to use the tool to activate the license.
 - The technician will have the ability to repair the license using the LCT through the "Update License" button.
 - The technician will have the ability to transfer the license off of the PC through the LCT.
 - The technician will be able to manually revalidate the license(s) through the "Update License" button.

Will the use of Update Manager also take care of the licensing internet connection requirement?

- Sort of, the LCT works similarly to Update Manager where Update Manager checks the servers for updates at a set time designated by the user.
- The LCT does a maintenance check daily with no user interaction, so if the user is connected to the internet at any time, even if they are not using INSITE, the LCT will revalidate and move the date out by a day.
- They are separate applications.
 - Update Manager for updates and software installation
 - License Configuration Tool for the licensing



How will the INSITE user (technician) be notified the 90 day revalidation is needed?

- There is a pop up that will let the technician know about the 90 day revalidation starting at 30 days out, then 15 days, then 10 days, and then every day past 9 days.
- If it is after the revalidation date, INSITE will revert to Basic and will provide a pop-up that the user needs to connect to the internet to continue using INSITE. Once the user connects to the internet, INSITE will revert to the previous functionality unless the license has expired during that time.

NOTE: If the revalidation period has passed the user will lose the counts that are on the PC, since there is no way to verify if the counts were used during the last 90 days.

When will our dealers activate subscriptions be migrated to the new licensing system?

- When the user installs INSITE 8.0.0 and goes to open INSITE for the first time, the migration process will be attempted at that time.
- If the user is not connected to the internet, a pop-up will ask if they want to activate using the offline mode method or not.
- The user can either connect to the internet to migrate the license or use the offline mode process to activate the license with the activation key(s).



What happens when a dealer with an active INSITE 7.6.X subscription upgrades to INSITE 8.0.0?

- The license will be migrated to the INSITE 8.0.0 licensing system and will keep the same expiration date as the INSITE 7.6.X license.
- The expiration of the current licenses will remain the same once the licenses are migrated to the new licensing system.
- All active INSITE licenses will be migrated to the Service Plus product level.
- The migrated license will keep the same functionality level.
- All fleet counts, Zap-Its, and OEM Zap-Its will be migrated.
- The migrated license cannot be renewed in the new licensing system. A new license must be purchased in the new system once the migrated license has expired.



The Distributor supplies the dealer a new functionality password when their subscription expires with the old system, what will we supply the dealer with the new system when their subscription expires?

- Once the subscription has expired in the new system, if the license is not a migrated license, the system will update the license on the PC without user interaction once it is connected to the internet.
- For the migrated licenses from 7.X.X, a new license must be activated on the PC. Once a new license has been activated, no technician interaction is needed as long as there is an internet connection to the PC.
- The offline mode activation is also available for renewal for those without internet connectivity.



What will happen to a dealer subscription that expires the day after the change to the new licensing system?

 They will revert to Basic and will have to purchase a new license in the new licensing system.



Does the new licensing require INSITE to be connected to the internet at all times?

- No, the internet is only needed when activating licenses, repairing licenses (corrupt / back dated), transferring licenses, and revalidating licenses.
- Being connected to the internet at all times just limits the prompting INSITE will do as the system gets close to the revalidation period. (30, 15, 10-1 days remaining)



What's New Summary

- This has been an overview of INSITETM
- For further training on INSITE, please refer to the INSITE[™] Virtual College CD, P/N 4091839
- For Additional information and support:
 - Contact Cummins® local distributor
 - Visit https://insite.cummins.com/insite/index.html
 - INSITE[™] Help Desk 1-800-433-9341
 Option 2 or 812-377-8136 Option 2





INSITE[™]

INSITE™ Functionality Breakdown and Details

Innovation You Can Depend On[™]

Table of Contents – Part 1

Audit Trail

- Calibration Selection and Download
- ECM Connections
- Data Monitor Logger and OBD Monitors
- ECM Diagnostic Tests and Advanced ECM Data
- Fault Information and Fault Information System
- Feature and Parameters
- Inquire Data Extraction


Table of Contents – Part 2

- Installation and Tool / ECM / User Security
- Trip Information
- Work Orders
- Cummins Inc. Update Manager





INSITE™ Audit Trail

Electronic Service Tools

Innovation You Can Depend On[™]

Audit Trail

- Tracks changes made to ECM settings
 - INSITE Tool Version
 - User Identification
 - ECM Time

 Audit Trail displays the last four or eight times, if supported by the calibration, that the ECM was modified

A single record can contain multiple changes







🖳 INSITE 8.0.0.379 FT - Signa	ture/ISX - CM870 - Engine Serial Numbe	r - 10101010 - ECN	1 Code - AB10040.00				
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools N	<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools Manage License(s) <u>W</u> indow <u>H</u> elp						
0000.000	5 🗟 M 🖻 🖉 🔍 🗗 🖴	B B Y D	#				
Tisconnect from	Record Number	Tool Name	Tool ID	User Type	User ID	ECM Time (Key on Time)	ECM Real Time
¹ ECM			Code	Description			
	□ Signature/ISX - CM870						
Fault Codes	- □ CM870						
	1	INSITE	950211112020	Software	95024444	Not Applicable	08-Jan-1996 18:29:52
Data			000	Unknown		•	
			003	Cruise Contro			
ECM Diagnostic			005	Road Speed			
1esis			009	Maximum Vel			
Advanced ECM	- 2	Compulink	950877770020	Cartridge	23435120	Not Applicable	01-Jan-1996 18:52:22
🖳 🖳 Data			000	Unknown		· · ·	
Features and			001	Idle Shutdow			
Parameters			002	Remote PTO			
			003	Cruise Contro			
		Echek	950788881020	Cartridge	00000000	Not Applicable	31-Dec-1995 20:42:19
			000	Unknown			
Work Orders			003	Cruise Contro			
ľ		VEPS	CEC000600123	Software	00000000	Not Applicable	31-Dec-1995 19:10:43
Trip Information			002	Remote PTO			1
hquire Data			-				
Extraction	Use + or – sigr	ns to					
r#1	ovpand or coll	2000			_		
OBD Monitors	expand of con	apse				If the "Poal Time (Nock"
	each record						JUCK
						option in INSITE is	\$
						selected, Real Tim	e will
						show instead of th	De FCM
						Show mstead of th	
						lime	
-	5						
2 1							
Connected to ECM.			🕌 🛃 Signature/ISX - C	M870 Simulator	-		



INSITE 8.0.0.379 FT - Signatu	re/ISX - CM870 - Engine Serial Nur	mber - 10101010 - ECM	M Code - AB10040.00	ing factory and			
File Edit View Tools Ma	nage License(s) Window Help						
New	· · M 🖸 🖉 🔍 🖉 🛍		iiii ii) → 11 = ±	BR			
Open Ct	d Number	Tool Name	Tool ID	User Type	User ID	ECM Time (Key on Time)	ECM Real Time
Close			Code	Description		,	
Save C	trl+S ature/ISX - CM87	0					
Save As	1870						
Convert	> 010	INSITE	950211112020	Software	95024444	Not Applicable	08-Jan-1996 18:29:52
Export	•	mone	000	Unknown	00021111	not ppiloabio	00 0dil 1000 10.20.02
Import	•		003	Cruise Contr			
Connections	•		005	Boad Speed	ì		
Page Setup			009	Maximum Ve	at		
Print Preview		Compulink	950877770020	Cartridge	23435120	Not Applicable	01-Jan-1996 18-52-22
Print Ct	trl+P	Compania	000	Unknown	20100120	not Applicable	01041100010.02.22
for dTe			001	Idle Shutdo	v		
Send To	Fatur 1		002	Remote PTC			
Properties Ait+t	Enter		002	Cruise Contr	, ,		
Exit		Echok	050788881020	Cartridge	0000000	Not Applicable	91-Dec-1005 20:42:10
- Curcular		LCHEK	000	Unknown	0000000	Not Applicable	51-Dec-1990 20.42.19
Work Orders			002	Cruice Cont			
Win Cruders		VERS	003	Citilise Conti	0000000	Not Applicable	21-Doc-100E 10:10:42
410	4	VEFS	002	Software Domoto DTC	0000000	Not Applicable	31-Dec-1990 19.10.43
Trip Information			002	Remote PTC	,		
Audit Trail		· ∖ r					
			To Print :				
Inquire Data		l N	Click on Fi	le and			
			chooco Dri				
ORD Monitors			choose Pri	int			
(g.p) OOD Monitors							
La							
Audit							
Connected to ECM		9	B Sanatural V /	M870 Simulator			
Confidence to com.		- ä	B C signature/ISX - C	Smord Simulator			

INSITE 8.0.0.379 FT - Signa	ture/ISX - CM870 - Engine Serial Numbe	r - 10101010 - ECN	/ Code - AB10040.00				
File Edit View Tools N	Aanage License(s) Window Help						
0000 1 1000	🛎 💽 🗛 🔯 🖉 🔍 🖉 🖴 🛛	B B Y D	iiii (i) → 11 = 4				
Disconnect from	Record Number	Tool Name	Tool ID	User Type	User ID	ECM Time (Key on Time	e) ECM Real Time
ECM			Code	Description			
Fault Codes	□ Signature/ISX - CM870 □ CM870						
	-81	INSITE	950211112020	Software	95024444	Not Applicabl	e 08-Jan-1996 18:29:52
Monitor/Logger			000	Unknown			
			003	Cruise Contro			
ECM Diagnostic			005	Road Speed			
			009	Maximum Vel			
Advanced ECM	-= 2	Compulink	950877770020	Cartridge	23435120	Not Applicabl	e 01-Jan-1996 18:52:22
Data			000	Unknown			
Features and			001	Idle Shutdow			
Parameters			002	Remote PTO			
College and			003	Cruise Contro			
Selection	-= 3	Echek	950788881020	Cartridge	00000000	Not Applicabl	e 31-Dec-1995 20:42:19
			000	Unknown			
Work Orders			003	Cruise Contro			
ľ		VEPS	CEC000600123	Software	00000000	Not Applicabl	e 31-Dec-1995 19:10:43
Trip Information			002	Remote PTO			
				Ð	pand		Drivet
Aude Trail				0	ollapse	10	SPrint :
				R	efresh 🕨	A	Iternate Click
Inquire Data				D	int	ar	nd chose Print
Extraction					int	u,	
-21							
OBD Monitors							
<u> </u>							
100							
1							
Connected to ECM	N I	9	al Signature/SV - C	W870 Simulator	*		

Audit Trail Wrap Up

- The most recent changes will appear under record number 1
- Multiple changes might be listed under each of the 4 or 8 records if supported by the calibration
- Audit Trail will automatically update as changes are made to the ECM
- User can perform refresh within INSITE[™] by using the alternate click and choosing Refresh



Cummins Confidential

You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





INSITE™ Calibration Selection

Electronic Service Tools

Innovation You Can Depend On[™]

Programmable Datalink Device

 The Calibration Selection has been redesigned to include a separate section for Programmable Datalink Device (PDD) Calibrations such as the Aftertreatment Device or Turbocharger. This will allow users to bypass connecting to the ECM and download directly to a PDD.





Ability to update or change the rating of an Engine



- Calibration Selection has products sorted into groups:
 - Automotive
 - Industrial
 - HHP/PowerGen
 - Other





Innovation You Can Depend On





Ability to Select Specific Certification Codes



Calibration Selection

- Search/Find Calibration Note Data
- Sort each Column in Ascending or Descending order
- Filter Calibrations according to HP, Torque, etc.
- Move Columns to better align Notes





🖳 INSITE 8.0.0.379 FT - Signature/ISX - CM870 - Engine Serial Number - 10101010 - ECM Code - A810040.00											
🕼 File Edit View Tools Manage License(s) Window Help											
10 10 10 X ID I	[™]										
=> Disconnect from	🖃 🖳 My Computer			ECM Code	Engine Mod	el Market	Critical Part	ts List Advertised Power at RPM	Governed Power at RPM	Torque Peak at RPM	Applicat 🔺
- ECM				(All)	(All)	(All)	(All)			(All)	
		E\Cal	1	AB10197.17	STA15	LINEHAUL		8283 All)	0565 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
		2		AB10205.17	STA15		/	0284 0385 np @ 0000 rpm	0565 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
Fault Codes				AD10227.17	STAIS CTAIE			0203 0435 hp @ 0000 rpm	0565 hp @ 2000 rpm	1050 lb-rt @ 1200 rpm	AUTOM
× -	Dec2013INCAL_2 (E:V)				15	LINEHAUL		0204 0450 hp @ 0000 rpm 8519 0465 ha @ 0000 rpm	0500 hp @ 2000 rpm	1850 lb-8 @ 1200 rpm	
Data	🖃 🥨 December 2013	Sol	00	ot to	15			8522 0475 bp @ 0000 rpm	0500 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
Monitor/Logger	📥 🛅 Automotive	Jei	ec		15	LINEHAUL		8519 0500 hp @ 0000 rpm	0500 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
	🕀 🗐 B5.9G	77.1			.15	LINEHAUL		8522 0500 hp @ 1800 rpm	0500 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
FCM Diagnostic	Film C Gas/B Gas Plus	<i>F`ll</i>	tei	r	.15	LINEHAUL		8519 0525 np @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
Tests					.15	LINEHAUL		8522 0550 hp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
Ť		11	2	AB10517.06	STA15	LINEHAUL		8519 0550 hp 1800 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
Advanced FCM		12	2	AB10518.06	STA15	LINEHAUL		8522 0365 hp @ 0000 fpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
Data	🛨 🗄 Celect Plus	13	3 🗳	AB10425.12	STA	LINEHAUL		8286 0550 p @ 0000 rpm	0518 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
-	庄 🗐 ISB5.9 G/ISC8.3 G CM2180) 14	. 🛃	AB10426.12	STA	LINEHAUL		8286 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
Eestures and	📺 🖬 ISL G - CM2180	15	5 🛃	AB10427.12	STA15	LINEHAUL		8285 0570 hp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
Parameters		16		AB10428.12	STA15	LINEHAUL		8285 0750 hp @ 0000 rpm	0518 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
		17		AB10429.12	STA15	LINEHAUL		8285 1550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		18		AB10431.12	STA15	LINEHAUL		8285 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
Selection	15M - CM875			-		_	_	265 0550 hp @ 0000 rpm	0518 np @ 2000 rpm	1650 lb-rt @ 1200 rpm	AUTOM
-	📺 🖷 🔝 ISM - CM876		Sol	lort f	filtor	od val	110	85 0550 hp @ 0000 rpm	0518 np @ 2000 rpm 0519 hp @ 2000 rpm	1050 lb-rt @ 1200 rpm	AUTOM
	庄 🗐 ISM11 CM876 SN			iccij	uuu	cu rui	inc	286 0550 hp @ 0000 ipin	0518 hp @ 2000 ipin 0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
Work Orders	ISM-Fuel Control Module -C	M570 23	. 	4B1043912	STA	LINEHALI		8286 0550 bp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-8 @ 1200 rpm	
~		24		AB10433.12	STA15			8285 0550 bp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	
A		25	. 💽	AB10442.12	STA	LINEHAUL		8286 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
Trip Information	ISX/ISZ13 CM2150 SN	26		AB10443.12	STA	LINEHAUL		8286 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
	📺 🗐 ISX 12 G CM2180 EJ	27	. 💽	AB10444.12	STA15	LINEHAUL		8285 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
1	庄 🗐 ISX12/11.9/15 CM2250	28	1	AB10445.12	STA	LINEHAUL		8286 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
Audit Trail	🕂 🗐 ISX12/15 CM2350 X102/X1	01 29) 🛃	AB10446.12	STA15	LINEHAUL		8285 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
	П. П. ISX15 СМ2250 AN	30) 🛃	AB10454.12	STA15	LINEHAUL		8285 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
Data		31	2	AB10455.12	STA	LINEHAUL		8286 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		32	2 🛃	AB10456.12	STA	LINEHAUL		8286 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
	🕂 🛄 L10G	33		AB10457.12	STA	LINEHAUL		8286 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
- 27	🕂 🗐 Signature/ISX	34	- N	AB10458.12	STA15	LINEHAUL		8285 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
OBD Monitors	🖃 🗐 Signature/ISX - CM870	35		AB10459.12	STA15	LINEHAUL		8285 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
<u> </u>		35		AB10460.12	STAIS	LINEHAUL		8285 0550 hp @ 0000 rpm	0518 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOM
	3683289			AD10136.17	STAIS CTAIE			8283 0530 hp @ 0000 fpm	0530 np @ 2000 npm 0520 hp @ 2000 npm	1050 Ib-R @ 1200 rpm	AUTOM
		30		AB10204.17	STA15	LINEHAUL		8283 0530 hp @ 0000 rpm	0530 hp @ 2000 ipm 0530 hp @ 2000 ipm	1850 lb-8 @ 1200 rpm	AUTOM
	⊡ 3684009	40		AB10220.17	STA15	LINEHAUL		8284 0530 hp @ 0000 rpm	0530 hp @ 2000 ipm	1850 lb-8 @ 1200 rpm	
	🕂 🖷 🛅 Industrial	41		AB10233.11	STA15			8125 0525 bp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
	🕂 🛗 HHP/PowerGen	42		AB10041.04	STA15	LINEHAUL		8127 0525 hp @ 0000 rpm	0500 hp @ 1900 rpm	1650 lb-ft @ 1200 rpm	AUTOM
	庄 🖷 🦳 Other	43		AB10048.25	STA15	LINEHAUL		8281 0525 hp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		44	. 🛃	AB10057.25	STA15	FIRE TRUCK		8282 0525 hp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		45	5 🛃	AB10058.25	STA15	LINEHAUL		8282 0525 hp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		46	: 🛃	AB10130.18	STA15	LINEHAUL		8284 0525 hp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		47	2	AB10131.18	STA15	FIRE TRUCK		8283 0525 hp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		48	2	AB10132.18	STA15	FIRE TRUCK		8284 0525 hp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		49	2	AB10133.18	STA15	LINEHAUL		8283 0525 hp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		50	1	AB10200.17	STA15	FIRE TRUCK		8281 0525 hp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		51	N.	AB10209.17	ISTA15	FIRE TRUCK		8285 0525 hp @ 0000 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOM
		52		AB10217.17	SIA	FIRE TRUCK		8286 U525 hp @ UUUU rpm	0500 hp @ 2000 rpm	1650 lb-lt @ 1200 rpm	AUTUM +
											•
Connected to ECM	9			Signature	/ISX - CM870	Simulator	_				
-		-									

•

🖳 INSITE 8.0.0.379 FT - Sign	nature/ISX - CM870 - Engine Serial Number - 10101010 -	ECM Code - AB100	40.00	And and Address of the Owner, which the	and the second			J X
🜻 <u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> oo	ols Manage License(s) <u>W</u> indow <u>H</u> elp							_ 8 ×
1 10 10 10 1 X 🗈 🖻	# Q # # # ~ • # & B B 7	· 🖹 📽 🔿 I	• II = 2					
		ECM Cod	le Engine M	Model Market	Critical Parts List Advertised Power at RPM	Governed Power at RPM	Torque Peak at RPM	Application
Disconnect from		(All)	(All)	(All)	(All) 0550 hp @ 1800 rpm	(All)	(All)	(All)
	Calibration Workspace (C:\Intelect\INSITE\Cal	1 🛃 AB10511	.06 STA15	LINEHAUL	8519 0550 hp @ 1800 rpm	0500 hp @ 2000 rpm	1850 lb-ft @ 1200 rpm	AUTOMOT
	Lenovo Recovery (D:))	2 💕 AB10512	206 STA15		8522 U550 hp @ 1800 rpm	0500 hp @ 2000 rpm	1850 lb-it @ 1200 rpm	
Fault Codes		4 🕰 AB10514	06 STA15		8522 0550 hp @ 1800 rpm	0500 np @ 2000 npm 0500 hp @ 2000 npm	1850 lb-ft @ 1200 rpm	
-		5 🛃 AB10515	06 STA15	LINEHAUL	8519 0550 hp @ 1800 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOMOT
💭 🖉 Data		6 📝 AB10516	06 STA15	LINEHAUL	8522 0550 hp @ 1800 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOMOT
Monitor/Logger		7 🛃 AB10517	2.06 STA15	LINEHAUL	8519 0550 hp @ 1800 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOMOT
		8 🗾 AB10518	8.06 STA15	LINEHAUL	8522 0550 hp @ 1800 rpm	0500 hp @ 2000 rpm	1650 lb-ft @ 1200 rpm	AUTOMOT
ECM Diagnostic	El C Gas/B Gas Plus				Î			
- Toats	🖽 🛄 C8.3G							
Advanced FCM	Et Celect							
Data	🛨 🛄 Celect Plus							
	ISB5.9 G/ISC8.3 G CM2180							
Features and	ISL G - CM2180							
Parameters	⊡ I IM							
C III-II	🕀 🗎 ISM - CM870							
	🖽 🛅 ISM - CM875							
	庄 🛅 ISM - CM876							
	📺 🗐 ISM11 CM876 SN							
Work Orders	🕀 🖷 🔝 ISM-Fuel Control Module -CM570							
	🖽 🗐 ISX - CM871				•			
Trip Information	🖽 🖷 🔝 ISX/ISZ13 CM2150 SN			Only	shows calibrat	tions		
	🕀 📳 ISX12 G CM2180 EJ			Only	Shows canoral			
	⊡ 🔲 ISX12/11.9/15 CM2250			with	alastad navam	otor		
Audit Trail	🕀 🗐 ISX12/15 CM2350 X102/X101				selecieu param	eler		
	🖽 🔲 ISX15 CM2250 AN							
🙀 Inquire Data	🕀 🐨 🗐 L Gas Plus							
Extraction	🕀 🗐 L10G							
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	🕂 🗐 Signature/ISX							
OBD Monitors	🗐 🗐 Signature/ISX - CM870							
**								
	3683289							
	3684009							
	🕂 🗠 Industrial							
	🕂 🛄 🕂 🝋 HHP/PowerGen							
	🕂 🛄 Other							
	- G:\							
	۲ III ۲	•	1	11				+

Connected to ECM.

물

•



ECM Calibration Download Wizard





#### Warning!

Failures or damage resulting from unauthorized engine modifications or horse power uprates, including, but not limited to, recalibrations of ECMs through the ECM Calibration Wizard, are not covered by Cummins warranty or CAP programs.

Next >

Cancel

Read calibration warning

Next to continue

Cancel to stop



< Back

Innovation You Can Depend On

Help

23

## **Calibration Selection:** Authorization Passwords

Calibration Authorization Password is <u>not</u> required:

- Calibrating an ECM to a newer or older ECM Code revision
- Superseding ECM Codes
- Calibrating a Foot Printed ECM

Calibration Authorization Password is required:

- Calibrating a ROM booted ECM
- Changing to a different ECM Code

Authorization can be done by using:

- Fleet Count
- Calibration Authorization Password
- ⁹⁷ ^{1/20} These are obtained from local distributors Depend On









100 1/20/2014

Cummins Confidential

Innovation You Can Depend On

a de la companya de la	
Calibration Transfer Please continue when the transfer is complete	cummins
A Calibration Download is in progress. Please do not change the key switch state during downloa process unless instructed.	d 🔺
CM2250[0]	Ŧ
Preparing ECM to receive calibration. 10 seconds remained and the second	ining
68 %	
Calibration Transfer Summary	
	*
Progress Bar	
	Ŧ



Cummins Confidential

Innovation You Can Depend On

 Follow all prompts through the calibration transfer process until the calibration transfer has been completed.

Calibration Transfer Results CM2250[0] Saving Dataplate Parameters Successful. Saving Adjustable Parameters Successful. Calibration Transfer Successful. Restore Dataplate Parameters Successful. Restore Adjustable Parameters Successful. Audit Trail Update Successful.	Key Switch         Image: Please turn the Key Switch off, and then click OK.         OK
OK OK	Turn key off, follow instructions, then key on and click OK
Action: Waiting 30 seconds before allowing for Key On	21 seconds remaining
	cum

A Calibration Download is in progress. Please do not change the key switch state during download process unless instructed.	
CM2250[0] Closing ECM. 0 seconds remaining 100 % Calibration Transfer Summary CM2250[0] Saving Dataplate Parameters Successful. Saving Adjustable Parameters Successful. Calibration Transfer Successful. Saving Adjustable Parameters Successful. Restore Dataplate Parameters Successful. Restore Adjustable Parameters Successful. Restore Adjustable Parameters Successful.	
Closing ECM. 0 seconds remaining 100 % Calibration Transfer Summary Calibration Transfer Successful. Saving Dataplate Parameters Successful. Calibration Transfer Successful. Calibration Transfer Successful. Restore Dataplate Parameters Successful. Restore Dataplate Parameters Successful. Restore Adjustable Parameters Successful.	
100 %       Followinstruction         Calibration Transfer Summary       instruction         CM2250[0]       Saving Dataplate Parameters Successful.         Saving Adjustable Parameters Successful.       Calibration Transfer Successful.         Calibration Transfer Successful.       Restore Dataplate Parameters Successful.         Restore Dataplate Parameters Successful.       Restore Adjustable Parameters Successful.	
Calibration Transfer Summary CM2250[0] Saving Dataplate Parameters Successful. Saving Adjustable Parameters Successful. Calibration Transfer Successful. Restore Dataplate Parameters Successful. Restore Adjustable Parameters Successful.	W
CM2250[0] Saving Dataplate Parameters Successful. Saving Adjustable Parameters Successful. Calibration Transfer Successful. Restore Dataplate Parameters Successful. Restore Adjustable Parameters Successful.	
Audit Trail Üpdate Successful.	



Cummins Confidential

Innovation You Can Depend On

ECM Calibration Download Wizard	
Calibration Transfer Please continue when the transfer is complete	
Select Next to continue.	
CM2250[0]	
Closing ECM. 0 seconds remaining	
100 %	Click Next
Calibration Transfer Summary	
CM2250[0] Saving Dataplate Parameters Successful. Saving Adjustable Parameters Successful. Calibration Transfer Successful. Restore Dataplate Parameters Successful. Restore Adjustable Parameters Successful. Audit Trail Update Successful.	
< Back Next > Cancel Help	



ECM Calibration Download Wizard	Place elect Disk to close the COM Collection		
	Please select Finish to close the ECM Calibration Download Wizard.		Click Finish to close the Calibration Download Wizard window
	K Back Finish Cancel	Help	



#### Programmable Datalink Device (PDD) Calibration Download Capability

- INSITE provides the capability to download a calibration to a PDD using any RP1210A adapter
- This capability is found in the Calibration Selection
- The latest INLINE 4/5 and INLINE 6 Drivers Firmware are needed to support the calibration download





## Programmable Datalink Device (PDD) Calibration Download




Programmable Datalink Device Reflash Management		
Calibration Selection		
Select Database Location		
Select Product C:\ "June 2013" E:\ "December 2013"	•	
Compatible Calibration 🕏		
	Click on the dran down many to	
	Click on the drop down menu to	
	select the Database Location.	
		Reflach
- Poflach Status		THE THEFT
1/20/2014		

Programmable Datalink Device Reflash Management		
Calibration Selection		
Select Database Location 🔄 "December 2013"		
Select Product		
Compatible Calibrati Turbo Actuator Controller		
	Click on the drop down menu to	
	select the Product type	
	select the Froduct type.	
		Reflash
r Reflash Status		

Programmable Datalink Device Keflash Management		
Calibration Selection		
Select Database Location E:\ "December 2013" *		
Select Product Aftertreatment Diesel Exhaust Controller	w	
Compatible Calibration 😨		
Detecting		
	Detection Process Progress Bar	
		Reflash
r Reflash Status		

Programmable Datalink Device Reflash Management	
Calibration Selection	
Select Database Location E\ "December 2013"	
Select Product Aftertreatment Diesel Exhaust Controller	
Compatible Calibration 😰	
Device Address Device PN Software PN Voltage Version	
0x30 2660460 3263312 12V AND 24V 3.7.6	
Device Information	
	Click on Reflash
	button to download
	Reflash
Reflash Status	

Programmable Datalink Device Kenash Management	
Calibration Selection	
Select Database Location E:\ "December 2013" *	
Select Product Aftertreatment Diesel Exhaust Controller	Ψ.
Compatible Calibration 💈	
Device Address Device PN Software PN Voltage Version	
0x3D 2880480 5283312 12V AND 24V 3.7.8	
	Poflach Status prograss bar
	Remasir Status progress bar.
	(Ketlash)
Reflash Status	
5283312.dsr - 0x3D	
Elapsed Time: 01 minutes 48 seconds	Remaining Time: 04 minutes 18 seconds
l	



🕼 Programmable Datalink Device Reflash Management	×
Calibration Selection	
Select Database Location E/\ "December 2013" 🔹 😴	
Select Product Aftertreatment Diesel Exhaust Controller	
Compatible Calibration 😰	
Device Address Device PN Software PN Voltage Version	
0x3D 2880480 5283312 12V AND 24V 3.7.8	
Click on the red X button to close.	
R	eflash
r Reflash Status	
5283312.dsr → 0x3D	
Elapsed Time: 04 minutes 39 seconds	

### Single key off for multi-module downloads

- INSITE[™] only requires a single key off at the end of a multi-module calibration download
- All ECM Codes to be downloaded can be selected before the calibration download begins













Please continue when the transfer is complete	cum
Calibration Download is in progress. Please do not change lownload process unless instructed.	the key switch state during
CM850[144] Secondary 2	<b>~</b>
Preparing ECM to receive calibration.	2 seconds remaining
Calibration Transfer Summary	Calibration Transfer
Calibration Transfer Summary      I     CM850[0] Primary     Calibration Transfer Successful.     CM850[1] Secondary 1	Calibration Transfer Summary shows the calibration download
Calibration Transfer Summary CM850[0] Primary Calibration Transfer Successful. CM850[1] Secondary 1 Calibration Transfer Successful.	Calibration Transfer Summary shows the calibration download status





121

Cummins Confidential

Innovation You Can Depend On

#### **Adjustable Parameters Recovery File**

- If a calibration download fails when Save/Restore Adjustable Parameters is selected, INSITE[™] will save these parameters to an Adjustable Parameter Recovery File
- The file can be used by INSITE[™] to restore the Dataplate and adjustable parameters on this ECM if it is in a ROM Booted or Foot Printed state on the next successful download



### **Adjustable Parameters Recovery File**





# **Calibration Selection**

Calibration Supersession

 Supersession refers to the process of providing replacement calibrations for obsolete calibrations

 Superseded Calibrations are not active and not installed on the INCAL DVD

 Calibration Reduction has generated a large number of Superseded Calibrations



# **Calibration Selection**

#### **Calibration Supersession**

- If INSITE has "Show Installed Calibrations" or "Show Active Calibrations" selected
  - Calibration Selection will not display the Superseded calibration
  - Auto detect will not find the Superseded calibration
- Uncheck "Installed Calibrations" and uncheck "Active Calibrations" on Tools menu
  - Tools > Calibration Selection or Alternate Click
- When downloading the replacement calibration, first select the Superseded calibration. A pop-up window will appear displaying the replacement calibration.
- View Replacement Calibrations

125

Tools > Calibration Selection > View Replacement Calibrations
Cummins Confidential
Cummins Confidential



INSITE 8.0.0.402 - QSB4.5	5/5.9/6.7 - CM850 - Engine Serial Number - 0 - ECM Cor	le - 290044	.16	Summaries State					- 0 X
G File Edit View Too	ols Manage License(s) Window Help			_					ж
10 10 10 1 1 10 10	BABS OF BBB	1114		1 = :# E		View	$\mathbf{R}$	onlacom	ont 📔
		-	ECM Code	Engine Model	Maket	Calical Parts List		epiacem	
Disconnect from	E My computer		IAII	(All)	(All)		has	tiona	
~ ECM	m. 2 c/	150	290239.05	GBTAAE	NON ROAD	042 Call	ora	uons	
~ ~ ~ ~	(UNSITE)Cal	151	Z90240.05	6BTAAE	NON ROAD	8454			
🚳 ('alihra	ation Z90245	152	Z90241.05	GBTAAE	NON ROAD	8466 190 hp @ 2300	3 rpm	190 hv @ 2300 rpm	685 Ib-R @ 1500 r
		153	Z90242.05	68TAAE	NON ROAD	8610 185 hp @ 2500	3 rpm	185 pp @ 2500 rpm	575 lb-ft @ 1500 r
· · · · · · · · · · · · · · · · · · ·		154	Z90243.04	6BTAAE	NON ROAD	8611 260 hp @ 2300	) rpm	290 hp @ 2300 rpm	730 lb-ft @ 1500 r
🔜 IS NOT G	ivaliable on 🛛 🦳	155	290244.05	GBTAAE	NON ROAD	8610 185 hp @ 2500	3 rpm	785 hp @ 2500 rpm	575 lb-lt @ 1500 r
- ser		156 0	290245.07	68TAAE	Transfer To ECM		(pm)	260 hp @ 2400 rpm	730 B-R @ 1500 r
L the DV		157	290,46.08	681AAE			rpm	240 hp @ 2500 ipm	730 Ib-R @ 1500 r
	$\boldsymbol{\nu}$	150	200247.05	COTANE	Сору		1pm	185 hp @ 2200 ipm	505 ID-R (P 1400 r
	in 🗖 danner merer	100	290249.07	ERTAAE	MI Paste		L.	275 kp @ 2200 rpm	730 b.8 /0 1500 r
	QS84.5 CM2150 B108/QS86.7 C	161	290250.06	GRTAAF	NI CALANCER		Z	155 ho @ 2000 rpm	460 b.8 (2) 1500 r
Advanced ECM	QS84.5 CM2250 EC	162	290251.06	GBTANE	NI Select All Calibrat	oons	(cen	180 hp @ 2000 rpm	524 b-8 @ 1500 r
Last Data	C- C 0584 5/5 9/6 7 - CM850	163	290254.06	AUTAA4 SE	NI View Replacemen	t Calibrations	rpm	155 hp @ 2000 rpm	460 b-ft @ 1500 r
_	e e construirer constr	194 2	290255.06	4BTAA4 5E	NI		rpm	155 hp @ 2000 rpm	460 lb-ft @ 1500 r
Features and	2963139	65	290256.06	4BTAA4.5E	NI Show Compatible	e Calibrations	rpm	110 hp @ 1800 rpm	360 lb-ft @ 1300 r
Parameters	- 6 4921776	166	290257.06	4BTAA4.5E	NI View Compatible	ECM/ECM Calibrations	rpm	130 hp @ 1900 rpm	400 b-R @ 1300 r
Constant Address	Q585.9/44, 5.9/30, 4.5/30, 3.9/	167	290258.06	4BTAA4.5E	N	Conversion camprations -	rpm	109 hp @ 2000 rpm	338 Ib-ft @ 1500 r
Catherine		168	Z90259.06	4BTAA4.5E	NI Show Active Calil	brations	rpm	130 hp @ 2000 rpm	457 b-ft @ 1400 r
Doubl	a dial ECM	189 📑	290260.06	4BTAA4.5E	NI Show Installed Co	Desting	rpm	128 hp @ 2000 rpm	403 lb-ft @ 1400 r
Douoie	E CIICK ECNI 👔 /	170	290261.06	4BTAA4.5E	NI Show installed Cr	niprations	rpm	140 hp @ 2000 rpm	432 lb-ft @ 1500 r
()		171	290262.06	4BTAA4.5E	NI Apply Custom Fil	ter	rpm	139 hp @ 2000 rpm	372 lb-ft @ 1800 r
Code	or Altornato 🛛 🏸	172	290263.06	4BTAA4.5E	NI Certification Cod	es	rpm	121 hp @ 2200 rpm	347 lb-lt @ 1500 r
Coue		173	290264.07	4BTAA4.5E	N		D ipm	0130 hp @ 2200 rpm	0457 Ib-R @ 1500
<b>##</b>		174	Z90265.08	4BTAA4.5E	NI Print		D rpm	0152 hp @ 2200 rpm	0405 lb-lt @ 1500
💻 click to	o transfer to	175	290266.07	4BTAA4.5E	NI Properties		rpm	160 hp @ 2300 rpm	460 Ib-It @ 1500 r
	<i></i>	1/6	290267.06	481AA4.5E	N. Find		rpm	160 hp @ 2400 rpm	460 Ib-It @ 1500 r
<b>FCM</b>		170	290268.06	40TAAA SE	NI Pino		ipm	110 hp @ 1800 ipm	360 ID IT (9 1300 F
		179	290203.06	ARTAAA SE	NON BOAD	8756 109 kp (8 200	) energi	109 kp (9 2000 rpm	338 b.8 @ 1500 /
		180	290271.06	ARTAAA SE	NON ROAD	8755 130 kp @ 200	l mm	130 kp @ 2000 rpm	457 5-8 @ 1400 /
Inquire Data	🕑 - 🛅 H#P/PowerGen	181	290272.06	4BTAA4 SE	NON ROAD	8756 128 hp @ 2000	) rpm	128 hp @ 2000 rpm	403 b-tt @ 1400 r
Extraction	E Cother	182	290273.06	4BTAA4 5E	NON ROAD	8756 140 hp @ 2000	) rpm	140 hp @ 2000 rpm	432 b-tt @ 1500 r
	- == Fil	183	Z90274.06	4BTAA4.5E	NON ROAD	8755 139 hp @ 2000	) rpm	139 hp @ 2000 rpm	372 b-ft @ 1800 r
OBD Monitors	3	184	290275.06	4BTAA4.5E	NON ROAD	8754 121 hp @ 2200	) rpm	121 hp @ 2200 rpm	347 lb-ft @ 1500 r
at 10 and 1 million		185	290276.07	4BTAA4.5E	NON ROAD	8755 0130 hp @ 220	10 rpm	0130 hp @ 2200 rpm	0457 Ib-R @ 1500
		186	290277.08	4BTAA4.5E	NON ROAD	8755 0152 hp @ 220	10 ipm	0152 hp @ 2200 rpm	0405 lb-ft @ 1500
		187 🛃	290278.07	4BTAA4.5E	NON ROAD	8725 160 hp @ 2300	) rpm	160 hp @ 2300 rpm	460 lb-ft @ 1500 r
		188	290279.06	4BTAA4.5E	NON ROAD	8725 160 hp @ 2400	3 rpm	160 hp @ 2400 rpm	460 lb-ft @ 1500 r
		189	290280.08	68TAAE	NON ROAD	8466 220 hp @ 2200	) rpm	220 hp @ 2200 ipm	700 lb-ft @ 1500 r
		190	290281.05	4BTAA4.5E	NON ROAD	8756 128 hp @ 2200	3 rpm	128 hp @ 2200 ipm	397 Ib-It @ 1600 r
		191	290282.07	4BTAA4.5E	NUN HUAD	8/56 140 hp @ 2200	) rpm	140 hp (9 2200 rpm	433 Ibit @ 1600 r
		192	290283.07	401AA4.0E	NUN HUAD	8756 140 hp @ 2200	a rpm	140 hp @ 2200 ipm	433 ID-R (@ 1600 r 220 h A @ 1600 r
		104	290204.05	ADTAAA SE	NON ROAD	9756 109 kp @ 220	) rpm	109 kp @ 2200 ipm	338 IDH (# 1500 r
		195	290286.05	ARTAAA SE	NON BOAD	8756 128 kp @ 2200	2 rpm	128 kp @ 2200 pm	397 b.k @ 1600 r
		196	290287.05	GBTAAE	NON ROAD	8456 220 hp @ 220	) rpm	220 hp @ 2200 rpm	700 b-tt @ 1500 r
		197	Z90288.07	68TA5.9-ME	MARINE	1860 0480 hp @ 340	10 rpm	0475 hp @ 3475 rpm	0940 b-/t @ 2200
		198	Z90289.04	6BTAAE	NON ROAD	8610 190 hp @ 2500	) rpm	190 hp @ 2500 rpm	520 b-ft @ 1500 r
		199	Z90290.07	68TA5.9-ME	MARINE	1860 0480 hp @ 340	10 rpm	0475 hp @ 3475 tpm	0940 Ib-R @ 2200
		200	Z90291.08	68TAAE	NONROAD	8611 275 hp @ 2500	0 rpm	275 hp @ 2500 rpm	730 lb-ft @ 1500 r
		201	Z90292.08	4BTAA4.5E	NON ROAD	1700 121 hp @ 2200	3 rpm	121 hp @ 2200 rpm	347 b-R @ 1500 r .
	< >	1		Langer and					
			Lan			0012104 (11930) Elementer 6 40			
Connected to ECM.	4	U.	ID NLNE6,U	(58 (J1939) Cor	nection •	PERSONAL FIRMWARE 6.40			

## **Calibration Selection**

Selected Calibration that was not available

	The selected E Superseded ca The first replac	CM Calibration librations belo eement calibrat	has been superse w are grayed out a tion in the list has b	ded. Ind not available to be trans Deen highlighted. Another re	ferred to an ECM. eplacement calibration may	* III *
ECM Code	Engine Model	Market	Critical Parts List	Advertised Power at RPM	Governed Power at RPM	Tor
Z90245.07	6BTAAE	NONROAD	8611	260 hp @ 2400 rpm	260 hp @ 2400 rpm	730
Z90054.13	6BTAAE	NONROAD	8611	260 hp @ 2400 rpm	260 hp @ 2400 rpm	730
Z90070.10	BRTAAE	NONROAD	8611	260 hp @ 2400 rpm	260 hp @ 2400 rpm	730
Z90072.10	6BTAAE	NONROAD	8611	260 hp @ 2400 rpm	260 hp @ 2400 rpm	730
Z90454.08	6BTAAE	NONROAD	8611	260 hp @ 2400 rpm	260 hp @ 2400 rpm	730
		F	Replacen	nent Calibra	tion	
< Help		k	Replacen	ient Calibra	To ECM Cance	•
<	" Click O continu transfer ECM C	K To I be calif r with Code	Replacen ECM to bration replacen	nent Calibra	TO ECM Cance	



# PowerMatch calibrations are now able to be sent using INSITE

- –The PowerMatch calibration will be based on an ECM Serial number and will only download to the specific ECM for which it was created
- –Calibration download attempts to different ECMs will produce a warning message and will end the calibration download process

#### **INSITE - Calibration Selection**



The PowerMatch calibration was not generated for the connected ECM. Please ensure the ECM serial number matches the connected ECM.INSITE will not perform the calibration download.





Innovation You Can Depend On

# **Calibration Selection Wrap Up**

- Calibration Download is used to update the ECM
- Calibration Selection
  - Contact local distributor for Calibration and/or Calibration Authorization password
  - To view Superseded Calibrations, uncheck "Installed Calibrations" and uncheck "Active Calibrations"
- Use Calibration filtering to reduce number of Calibrations listed
- Calibration Authorization Password is required for uprating or ROM Booted ECMs



You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





# **INSITE™** Connections

**Electronic Service Tools** 

Innovation You Can Depend On[™]

# Connections

Additional Connections/Simulators can be added.

-Add new...

-Tools  $\rightarrow$  Options  $\rightarrow$  Connections

-File  $\rightarrow$  Connections  $\rightarrow$  Add New Connection...



INSITE 8.0.0.402								
File Edit View Too	ls Manage Lice	nse(s) Window Help						
New		A 38 0 # 5	YEE	🗋 📾 🛞 🕨 🛙 🖷	488			
Open	Ctrl+O		- A	10				
Close								
	100000							
Save	Ctrl+S							
Save As								
Convert	•							
Export								
Import	•							
Connections	•	Add New Connection						
Page Setup		n						
Print Preview								
Driet	ChileD							
- Fridam	curr							
Send To	•							
Properties	Alt+Enter							
Exit								
-								
Work Orders								
1.1								
Trip Information								
-								
Audit Trail								
Data								
Extraction								
150								
OBD Monitors								
	-							
								2
O No ECM Connected.			3	CO NUNEA USB (J1	939) Connection	•		

Options		٢
Options Connections File General Inquire Data Extraction Units of Measure User Manager Work Orders	All   Serial   Simulator     Name   Status     INLINE6,USB (J1939) Connection   Current     INSITE Integrated Simulator - Single M   Disconnected     INLINE5, USB (Auto Detect) Connection   Disconnected     EZ TAP COM7 - Auto Detect - RP1210A   Disconnected     INLINE5, USB (J1939) Connection   Disconnected     INLINE5, USB (Auto Detect) Connection   Disconnected     INLINE5, USB (Auto Detect - RP1210A   Disconnected     INLINE5, USB (J1939) Connection   Disconnected	
	Signature/ISX - CM870 Simulator Disconnected	
	Add Remove Properties	
	OK Cancel Apply Help	



## **Auto Configure**

 The Auto Configure feature is updated and improved to identify not only Cummins adapters but also other third party RP1210A compliant datalink adapters



# ECM Connection Wizard – Auto Configure





Cummins Confidential

Innovation You Can Depend On

# ECM Connection Wizard – Auto Configure



Cummins Confidential

Innovation You Can Depend On

# **ECM Connection Wizard – Auto** Configure

	ECM Connection Wizard
	Auto Configure Please select Start for INSITE to automatically detect and configure a connection.
Follow the Instructions, then Click Start	Instructions 1) Ensure the Datalink Adapter driver is installed. 2) Ensure the adapter is physically connected to a J1939 or J1708 communication network, the key switch is on and the adapter is powered up.
	Start
	Help Cancel Cancel
138 1/20/2014	Cummins Confidential Innovation You Can Depend On



Innovation You Can Depend On

cumm

ECM Connection Wizard	$\times$
Auto Configure Please select Start for INSITE to automatically detect and configure a connection.	4
Instructions      1) Ensure the Datalink Adapter driver is installed.     2) Ensure the adapter is physically connected to a J1939 or J1708 communication network, the key switch is on and the adapter is powered up.     Please wait     Attempting to detect an RP1210A-compliant adapter     Stop	
Help < <u>Back</u> Next>	Cancel









Cummins Confidential

ECM Connection Wizard		
Connection Name: Specify connection name		
The information describing your connection is grouped together as an ECM Connection and labeled with a name you provide.		
Please enter a name for the new connection.		
Connection Name: USB (J1939) Connection		
	(	Click Next to continue
Help < <u>Back</u> Next> Car	icel	



### **Connection Wizard**

 The connection wizard is updated and simplified for the easy selection of RP1210A compliant datalink adapters and connection tests within the connection wizard



# **ECM Connection Wizard**






**Cummins Confidential** 

RP1210A Datalink Adapter Vendor list will be displayed if the corresponding adapter drivers are installed. Select the Datalink Adapter Vendor

E	ECM Connection Wizard
	Connection Settings Please select the specific Connection Settings based on the system configuration.
	Vendor
	<please a="" select="" vendor=""></please>
	Adar Cummins Inc. INLINE6 Cummins, Inc.
	Protocol
	Datalink Adapter Connection Test
	Help Cancel



Connection Settings       You can choose the specific Connection settings based on the configuration of you         Select the Datalink Adapter <ul> <li>Datalink Adapter</li> <li>Computer Port</li> <li>Nill NE 5</li> </ul> Datalink Protocol <ul> <li>Datalink Adapter Connection Test</li> </ul>		ECM Connection Wizard						
Select the Datalink Adapter   Datalink Adapter     Computer Port        Computer Port        Computer Port        Datalink Adapter        Datalink Protocol        Datalink Adapter Connection Test		Connection Settings You can choose the specific Connection settings based on the configuration of your computer.						
Select the Datalink Adapter		Datalink Adapter Vendor						
Datalink Adapter Connection Test	Select the Datalink Adapter	Datalink Adapter						
Help ( <u>B</u> ack <u>N</u> ext) Cancel								

Cummins Confidential

	ECM Connection Wizard Connection Settings You can choose the specific Connection settings based on the configuration of your computer.	
Select the computer port	Datalink Adapter Vendor         Datalink Adapter         INLINE 5         Computer Port         Select a Port>         Communications Port (COM1)         Communications Port (COM3)         Auto Detect	Cancel

## **Connection Name**



**Cummins Confidential** 

### Completing the ECM Connection Wizard



Cummins Confidential

#### **Connection Wizard**



**Cummins Confidential** 

### **Datalink Adapter Connection Test**

ECM Connection Wizard	
Connection Settings Please select the specific Connection Settings based on the system configuration.	
Datalink Adapter Vendor   Cummins Inc.   Datalink Adapter   INLINE 5   Computer Port   INSB   Datalink Protocol   Image: Computer Connection Test	Click on Datalink Adapter Connection Test
Help <u><back< u=""> <u>N</u>ext&gt; Cancel</back<></u>	



#### **Datalink Adapter Connection Test**





### Connections

Select the desired Connection Type

- -INLINE 5/6, RP1210A or Simulator
- -Will open a Connect Window
- If previous connection type selected
  - -Tools  $\rightarrow$  Connect to ECM
  - -Ctrl+E
  - -Connect to ECM icon on the View Bar
  - -Connect to ECM icon on the Tool Bar





INSITE 8.0.0.402 File Edit View Tools Manage License(s) Window Help Connect to ECM Ctrl+E Connect to ECM , Connect to Fault Codes Disconnect ECM **ECM** Login a New User Data option ECM Passwords... ECM Diagnosti Tests ECM Password Removal... PowerSpec... Advanced ECM Data Reset Datalink Adapter Connect to Features and Calibration Selection **ECM** ۲ Parameters Data Monitor/Logger ۲ Calibration Selection option Trip Information ۲ Options Work Orders Trip Information **Connect** to Connect to **ECM** Audit Trail **ECM** option option Inquire Data

틛

OBD Monitors

•

### Connections

Connect 🛛
Contraction of the second seco
Security Type: Master
ECM Password:
Connec <u>t</u> <u>C</u> ancel Properties <u>H</u> elp



# **Engine Simulators**

- INSITE can Simulate connections to all supported engines
  - Celect Plus, ISX, ISB...
  - Almost Full Simulated tool Functionality
  - Can be used for training or exploring Engine Features
  - Data is simulated and may not represent actual engine data

 Simulator can be used to learn INSITE and Engine features without being connected to an Engine



# **Connections Wrap Up**

- Make sure the desired connection is selected
- -To connect to ECM
  - Use Ctrl+E as a shortcut to get connected
  - Use the View Bar icon
  - Tool Bar icon to connect
  - Click on Tools → Connect to ECM



You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





#### INSITE[™] Data Monitor/Logging and OBD Monitors

**Electronic Service Tools** 

Innovation You Can Depend On[™]

Method to view or log live engine data at a user defined sample rate.

- Monitor data:
  - View selected parameters to display
- Log data:
  - Continuous logged data for each parameter selected and saved to a file for analysis
- Snapshot:
  - Single data point logged for each parameter selected and saved to a file for analysis



😫 INSITE 8.0.0.402 - Signature/I	ISX - CM870 - Engine Serial Number -	0 - ECM Code -	- AB10400.23	string the local division in which the	and the second second		_	- 0 <b>-</b> ×	3
■ <u>File Edit View T</u> ools I	Manage License(s) <u>W</u> indow <u>H</u> elp							- 8	×
10 10 10 1 X 10 10 1	3 🖪   M   🖻 🖋   🔍 🗗 🗳	BBY	🖺   📾 🚯 🕨 💵 🛛						
Disconnect from	Parameter Groups		Deremeter		Upite	Minimum	Maximum	^	
[™] LECM 📮 F					Value	Offics	Measured	Measured	
	All Parameters		Accelerator Pedal F	Position Sensor	0.00	V	0.00	0.00	
Fault Codes	ECM Information	-	Signal Voltage			·			
	EGR and Turbocharger	=	Adjusted Tire Size		501	revs/mi	501	501	
Data	Performance		Air Conditioning Pre	essure Switch	On				
	Engine Braking		Amber Warning Lar	np Status	On				Ε
ECM Diagnostic	Engine Protection		Anti-theft Status		Unlocked				
	Hard Start		Barometric Pressur	e	24.3	InHg	24.3	24.3	
Advanced ECM	Lamps		Barometric Pressur	e Sensor Signal	0.00	V	0.00	0.00	
Data	Low Power and Fuel Economy				10.01		10.01	10.00	
Features and	Parameters		Broke Dedel Desitio	n Cwitch	Dopropood	V	10.01	10.00	
Parameters	Signature/ISX - CM870		_ Brake Pedal Position Switch						
	T CM870		Campbott Desition Senser		0000001			0	
			Camshaft Position	Sensor State					
			Clutch Podal Position Switch		Depressed				
Work Orders			Cruise Control ON/	DEE Switch	Depressed				
			Cruise Control Set	Resume Switch	Neutral				
Trip Information						mi	0	0	
	Parameter Gr	oups a	avallable	e Switch	Off				
Audit Trail	for some products t		a allow	o o intoir	None				
	jui some prou		0 anow		14:54:44	HH'MM'SS			
Hallinguire Data	common mon	itors t	to be	×	Not Available	Percent			
Extraction	1 / 1 • 1	1		rz ssure	-20	InHa	-2.0	-2.0	-
7.57 J	selected quick	cly.		ssure Sensor					
OBD Monitors	Г		Signal Voltago		0.00	V	0.00	0.00	4
		The I	Inner and	Lower lim	nit columns	have he	en modifi	ed to	
Click once to open Data     🛄					1 -				
	*	ay the Mina	imum Me	asured and	Maximi	um Measu	ıred		
Monttor/Logg	ger	nalua	a read by I	NCITE	hile the new	ana at ana	ano hoine	~	
		vuiue	s read by I		nne me pai	ameters	ure veing	5	
		moni	tored.						

Connected to ECM.

INLINE6,USB (J1939) Connection

Engine Brake Switch Level

· · —

Engine Coolant Level

불

Error RP1210A (J1939) Firmware: 6.40

•

0 Percent

0

. . . .

0

Ŧ



	Amber Warning Lamp Status	Diagnostic Test Mode
Audit Trail	Anti-theft Status	Driver Reward State
₩U <u>()</u>	Barometric Pressure	ECM Time
Inquire Data	Barometric Pressure Sensor Signal Voltage	EGR Cooler Efficiency
	Battery Voltage	EGR Differential Press
OBD Monitors	Brake Pedal Position Switch	EGR Differential Press
	Calibration Software Phase	EGR Flow Derate
	Camshaft Position Sensor	EGR Temperature
	Camshaft Position Sensor State	EGR Temperature Ser
	Clutch Pedal Position Switch	EGR Valve Position (P
	Cruise Control ON/OFF	EGR Valve Position Co
	Cruise Control Set / Resume	EGR Valve Position Se Voltage
	Current Miles On Tires	Engine Brake Output C
	Diagnostic Tost Mode	Engine Brake Output C
		Engine Brake Switch L

Switch

🗟 Driver Reward State

무

GR Differential Pressure -2.0 InHq -2.0 GR Differential Pressure Sensor 0.00 V 0.00 ignal Voltage GR Flow Derate Active 32 GR Temperature 32|°F GR Temperature Sensor Signal 5.17 V 5.16 oltage GR Valve Position (Percent Open) 0 Percent 0 GR Valve Position Commanded 0 Percent 0 GR Valve Position Sensor Signal 0.00 V 0.00 oltage ngine Brake Output Circuit 2 Inactive ngine Brake Output Circuit 3 Inactive Engine Brake Switch Level 0 Percent 0 Engine Coolant Level Error RP1210A (J1939) Firmware: 6.40 -

None

Not Available Percent

14:58:09 HH:MM:SS

-2.0

0.00

32

5.17

0

0

0

0.00

11 INSITE 8.0.0.402 - Sign	sature/ISX - CM870 - Engine Serial Number - 0 - ECI	M Code - AB10400.23		
JE Eile Edit View I	ools ManageLicense(s) <u>W</u> indow <u>H</u> elp			- E X
0000 100	6 6 0 M 9 8 4 8 6 6	🖻 Y 🖸 🏶 🐠 🕨 II = 🞜 🗟 🕅 🚃		
	Parameter Groups	*	A debut A better	Minimum Maximum
LI ECM	- Engine Braking	Parameter	Value Units	Measured Measured
	Engine Protection	Accelerator Pedal Position Sensor		
Fault Codes	Hard Start	Signal Voltage	Marine Marin	
	Lamps	Air Conditioning Pressure Switch		
Data	- Low Power and Fuel Econom	v		
K/ Monitor/Logger	- Sensors			
ECM Diagnostic	Switches			
Tests	White Smoke and Engine	H		
T Alerend FCM	Stumble			
Data Data	Custom			
_		Add to Monitot/Logger	Altownato Clie	1-
Features and Parameters	Parameters	Remove from Monitor/Logger	Allerhale Click	L I
	Signature/ISX - CM870	Create New Group	——— and select Cre	ate
Calibration Selection	-∈ CM870	Edit Group		<i>xic</i>
	Accelerator Pedal Position	Delete Group	New Group	
Work Orders	Sensor Signal Voltage	Rename Group		
	Adjusted Tire Size	Export to File		
	Air Conditioning Pressure Sw	Import from File		
Trip Information	an All Contantoning Pressure 5%	Funand		
	Amber Warning Lamp Status	Collanse		
Audit Trail	Anti-theft Status	Compos		
×	Barometric Pressure	Set Sampling Rate		
Inquire Data	Barometric Pressure Sensor Sig	Event Marker Setup		
Extraction	Voltage	Start Graphical Monitoring		
150	Battery Voltage			
OBD Monitors	Brake Pedal Position Switch			
	<ul> <li>Calibration Software Phase</li> </ul>			
	Camshaft Position Sensor			
	Camshaft Position Sensor State			
	Clutch Pedal Position Switch			
	Cruise Control ON/OFF Switch			
	Cruise Control Set / Resume Switch	1		
	Current Miles On Tires			
	Diagnostic Test Mode Switch	1		
	Driver Reward State	1		
	ECM Time	1		
	EGR Cooler Efficiency			
Connected to ECM.		NLNE6.USB (J1939) Connection	<ul> <li>RP1210A (J1939) Firmware: 6.40</li> </ul>	

### **Create Custom Group**

Please enter the group name below.			
Group Name: Select parameters or groups on the left, Select parameters on the right, and click	Custom Group 1 and click "Add" to add to the group. "Remove" to remove from the group.		Select Add to a parameters to new group
Available Parameters          Available Parameters         Signature/ISX - CM870         CM870         Accelerator Pedal Position         Sensor Signal Voltage         Adjusted Tire Size         Air Conditioning Pressure         Switch         Amber Warning Lamp Status         Anti-theft Status         Barometric Pressure Sensor	Add ->	Gr CM83 Ac Se Ac	oup Parameters 70 ccelerator Pedal Position ensor Signal Voltage djusted Tire Size conditioning Pressure Switch
Help	ОК		Cancel
t desired neters for proun	Select O continue	P <b>K</b> to e	

165 1/20/2014

Cummins Confidential

INSITE 8.0.0.402 - Signat	ture/ISX - CM870 - Engine Serial Number - 0 - ECM Code	- AB10400.23				
😼 <u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> oo	ols Manage License(s) <u>W</u> indow <u>H</u> elp					_ 8 ×
10 10 10 10 10 10 10 10 10 10 10 10 10 1	🖨 🖪   A   🖻 🖉   🔍 🗩 🖶   B, 🖻 🦄	/ 🖺 🖾 🚯 🕨 🗉 💻 🎜 🖪 📄				
Disconnect from	Parameter Groups	Parameter	Value	Linits	Minimum	Maximum
-JE ECM	Engine Protection		Value		Measured	Measured
.0.0	- Hard Start	Accelerator Pedal Position Sensor	0.00	V	0.00	0.00
Fault Codes	Lamps	Signal Voltage				
	Low Power and Fuel Economy	Air Conditioning Pressure Switch	On			
Data	Sensors	Adjusted Tire Size	501	revs/mi	501	501
	- Switches	<b>1</b>				
ECM Diagnostic	White Smoke and Engine	•				
- Tests	Stumble	Ŧ				
Advanced ECM	Custom					
Data	Custom Group 1	◀ \	N N			
Features and	Parameters ^		$\backslash$			
Parameters	🖩 Adjusted Tire Size 💦 🚽		$\mathbf{A}$			
Calibration Selection	Air Conditioning Pressure Switch					
	Amber Warning Lamp Status		\			
Work Orders	Anti-theft Status		Desired	1		
- -	Barometric Pressure		Destrea	ļ		
Trip Information	Barometric Pressure Sensor Signal		narame	ters for		
	Voltage		parame	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Audit Trail	Battery Voltage		Custom	Group		
<u>∞u(≣(</u>	Brake Pedal Position Switch	New custom		<b>`</b>		
📄 🛃 Inquire Data	Calibration Software Phase	010110				
Extraction	Camshaft Position Sensor	group				
e	Camshaft Position Sensor State					
OBD Monitors	Clutch Pedal Position Switch					
	Cruise Control ON/OFF Switch					
	Cruise Control Set / Resume					
	Switch					
	Current Miles On Tires					
	Diagnostic Test Mode Switch					
	Driver Reward State					
	ECM lime					
	EGR Cooler Efficiency					
	EGR Differential Pressure					
	EGR Differential Pressure Sensor					
4/00/4						
<ul> <li>1/20/2</li> <li>Connected to ECM.</li> </ul>		INI NE6 USB (11939) Connection	RP1210A (J1939) Fir	mware: 6.40		

Setting the Data Monitor / Logger sample rate.

 Select Tools → Data → Monitor/Logger → Set Sampling Rate





Converting a Log file for external use:

- Generate a Log File
- -Save the Log File
  - INSITE prompts to save once Stop has been selected in Data Monitor/Logger
  - The log files or the snapshot files are saved as Comma Separated Value (CSV) files
  - This file is saved to the hard drive in the C:\Intelect\Insite\Logs Directory or to the drive INSITE is installed
  - User Comments can be added to the Log File

ave Logged D	ata				7 🔀
Savejn	Cogo		•	- •	
My Recert Decision Decision My Decision My Decision	C 200809	13-101046.csv 19-101106.csv			
My Network	File pare:	COROCCUSIES NO.			Save
Places	Save as tare	Course Securited Files (* co	a.		Cancel



-Log file contains:

Cummins Inc.							
Data Log Information		Start Date and Time: Total Log Time: Source Log Filename: Destination Path SamplingRate: Comments:	17-Dec-2013,11:05:54.441 C:\Users\AME\AppData\Local\Temp\\DML-20131217-110 C:\Intelect\INSITE\Logs 1 seconds per sample	00:07.7 553.log			
Customer and Vehicle Info	rmation						
		Customer Name:	Bart Starr				
		Vehicle Unit Number:		123456			
Engine Information							
		Model:	STA15				
		Serial Number:		0			
		ECM Part Number:		3684009			
Date		Time	Accelerator Pedal Position Sensor Signal Voltage (V)		Adjusted Tire Size (revs/r	ni) Air Conditioning Pressure Switch	Amber Warning Lamp Status
	17-Dec-13	3 05:54.	5	0		501 On	On
	17-Dec-13	3 05:55.	5	0		501 On	On
	17-Dec-13	3 05:56.	9	0		501 On	On
	17-Dec-13	3 05:57.	9	0		501 On	On
	17-Dec-13	3 05:58.	9	0		501 On	On
	17-Dec-13	3 06:00.	2	0		501 On	On
	17-Dec-13	3 06:01.	2	0		501 On	On
	17-Dec-13	3 06:02.	2	0		501 On	On



**INSITE Professional 8.0.0.402** 

#### Data Monitor / Logger Limits

- The Lower Limit and Upper Limit column titles have been replaced with "Min Measured" and "Max Measured"
- The Min Measured column now contains the minimum value observed for each parameter during an open Data Monitor/Logger session.
- The Max Measured column now contains the maximum value observed for each parameter during an open Data Monitor/Logger session.
- The Out of Range Parameter window will no longer be used and has been removed.



Increasing the font size in Data Monitor/Logger:

 Select Tools → Options and select Appearance under the General settings

Options			×	Select des	sired
Connections File	Appearance			Font si	ze
<ul> <li>□ General</li> <li>Appearance</li> <li>Inquire Data Extraction</li> <li>□ Security         <ul> <li>Authorization Password I</li> <li>ECM Password Remova</li> <li>Fleet Calibration Counts</li> <li>Units of Measure</li> <li>User Manager</li> <li>Work Orders</li> </ul> </li> <li>Select Data Monitor/Loop</li> </ul>	Iext Options Audit Trail Audit Trail Columns Data Monitor/Logger Background Colors Audit Trail Audit Trail Columns Audit Trail Highlights toors udit Trail udit Trail udit Trail udit Trail Columns	Select Modify	Font Font: MS Sans Serif MS Sans Serif MS Serif MS UI Gothic MT Extra O MV Boli NSimSun O Palatino Linotype	Font style: Regular Italic Bold Bold Italic	Size:       9       0K       8       10       12       14       18       24
<	Current Selection	Cancel Apply Help	Lifects Strikeout Linderline Color: Black	Script: Western	

**Cummins Confidential** 

#### **Data Monitor/Logging**

- An event can be marked while logging in the main Data Monitor / Logger screen, or when in Graphical Monitoring, by pressing the spacebar
- This provides the option to enable or disable the Event Marker as well as providing the option to create comments for event markers
- The Log file contains the Event Marker Description.
   For more information on Data Monitor/Logger, refer to Data Monitor logger module on slide 20.



INSITE 8.0.0.402 - Signa	ture/ISX - CM870 - Engine Serial Number - 0 - ECM C	ode - A810400.23			
📴 Eile Edit View To	ols Manage License(s) <u>W</u> indow <u>H</u> elp				_ 8 :
0001100	5   🖨 🖪   M   🖻 🖋   🔍 📽 🖴   B. 🖻	y 🖺 🗰 📀 > II = 🚾 🗟 😰			
Disconnect from ECM	Parameter Groups	- Parameter	Value Unite	Minimum	Maximum -
	Predefined	Falameter	Value Offics	Measured	Measured
	All Parameters	Accelerator Pedal Position Sensor	0 00 V	0.00	0.00
Fault Codes	- ECM Information	Signal Voltage	0.00	0.00	0.00
	EGR and Turbocharger	Adjusted Tire Size	501 revs/mi	501	501
Data	Performance	Air Conditioning Pressure Switch	On		
2 Wonitor/Logger	- Engine Braking	Amber Warning Lamp Status	On		=
ECM Diagnostic	- Engine Protection	Anti-theft Status	Unlocked		
E Tests	<ul> <li>Hard Start</li> </ul>	Barometric Pressure	24.3 InHg	24.3	24.3
Advanced FCM	– Lamps	Barometric Pressure Sensor Signal	0.00 V	0.00	0.01
Data	- Low Power and Fuel Economy	Voltage	0.00	0.00	0.01
		Battery Voltage	13.88 V	13.75	13.94
Parameters	Parameters	<ul> <li>Brake Pedal Position Switch</li> </ul>	Depressed		
-	Fan Control Command	Calibration Software Phase	06060001		
Calibration	Fan Control Switch	Camshaft Position Sensor	0 RPM	0	0
Selection	Fuel Shutoff Valv Data Monitor/La	ogger : Enter Event Description	Later.		
Wat Orlan	Gear-Down Prote	e description below for: Event 1			
Work Orders	Governor Type				
	Idle Validation Sv				
Trip Information	🗧 Intake Manifold A			0	0
	Temperature				
Audit Trail	Intake Manifold A				
	Temperature Sen			SS	
Inquire Data	Voltage	EGR Cooler Efficiency	Not Available Percent		
Extraction	Intake Manifold Pressure	EGR Differential Pressure	-2.0 InHg	-2.0	-2.0
CAL OPP Home	Intake Manifold Pressure	EGR Differential Pressure Sensor	0.00 1/	0.00	0.01
CBD Monitors	I 1020 President	Signal Voltage	0.00 V	0.00	0.01
	11020 Engine Centrel	EGR Flow Derate	Active		
		EGR Temperature	t Markor with	numoric ²	32
	- 11939 Engine Control	EGR Temperature Sen			5.17
	Status	Voltage	and user ente	red 🖆	0.17
	- J1939 Engine Source	EGR Valve Position (Pe		0	0
	Address	EGR Valve Position Co	description	0	0
	_ J1939 Retarder Control	EGR Valve Position Select orginal	0.001	0.00	0.00
	Source	Voltage	0.00 V	0.00	0.00
	J1939 Retarder Control	Engine Brake Output Circuit 2	Inactive		
	Status	Engine Brake Output Circuit 3	Inactive		
	J1939 Stop Broadcast	Engine Brake Switch Level	0 Percent	0	0
	Source Address One	Engine Coolant Level	Error		
Connected to ECM		NUNES USB (11920) Connection	RP1210A (J1939) Firmware: 6.	40	
Connected to com.	3	The memory of the memory of the state of the			

# Data Monitor/Logger Graphical Monitoring

- Graphical Monitoring is a way to display, log, print, and save data for up to six parameters in a graph
- Graphical Monitoring visually monitors and plots multiple parameters into a graphical display



INSITE 8.0.0.402 - Sig	gnature/ISX - CM870 - Engine Serial Number - 0 - ECM Co	de - A810400.23				- 0 -×
😼 <u>F</u> ile <u>E</u> dit <u>V</u> iew	<u>T</u> ools Manage License(s) <u>W</u> indow <u>H</u> elp					- 8 1
066120	■ <b>● ▲</b>   ▲   <b>●</b> <i>S</i>   <b>● ●</b>   <b>●</b>   <b>●</b>	🍸   🙄   🕮 🚯 🕨 II = 🚾 🐻 🔯				
Disconnect from ECM	Parameter Groups	Parameter	Value	Unite	Minimum	Maximum 🗠
	Predefined			Offics	Measured	Measured
.00.	All Parameters	Accelerator Pedal Position Sensor	0.00	V	0.00	0.00
Fault Codes	<ul> <li>ECM Information</li> </ul>	Signal Voltage				
	EGR and Turbocharger	Adjusted Tire Size	501	revs/mi	501	501
Data	Performance	Air Conditioning Pressure Switch	On			
	<ul> <li>Engine Braking</li> </ul>	Amber Warning Lamp Status	On			
ECM Diagnostic Tests	<ul> <li>Engine Protection</li> </ul>	Anti-th-ft Status	Unlocked	Sna	apshot	
	<ul> <li>Hard Start</li> </ul>	Barometric Pressure	24.3	InHg	Data	24.3
Advanced ECM	- Lamps	Barometric Pressure Sensor Signal	0.00	∨ Sta	rt/Resume	0.01
Data	<ul> <li>Low Power and Fuel Economy</li> </ul>	- Voltage	10.01	Pau	ise	10.01
Eestures and	Parameters	Battery Voltage	13.81	V Sto	p	13.94
Parameters	Farameters	Brake Pedal Position Switch	Depressed	Prir	nt	
	Fan Control Command	Calibration Software Phase	06060001	Sav	e As Group	
Calibration Selection	Fun Control Switch	Camshaft Position Sensor	0	RPM Ad	d to Group	0
	Coor Down Protection State	Camshaft Position Sensor State	Low	Rer	move Parameter(s)	
Work Orders	Gear-Down Protection State	Clutch Pedal Position Switch	Depressed	Rer	nove All Parameters	
	Governor Type	Cruise Control ON/OFF Switch	Off			
	Idle validation Switch	Cruise Control Set / Resume Switch	Neutral	Set	Sampling Rate	
The monitation	Tomporaturo	Current Miles On Tires	0	mi	nt Marker Setup	0
<b>D</b>	Intake Manifold Ar	Diagnostic Test Mode Switch	Off	Sta	rt Graphical Monitoring	
Audit Trail	Temperature Sensor Signal	Driver Reward State	None			_
#12 · · · · · ·	Voltage	ECM Time	15:31.12	HH:MM:SS		
Extraction	Intake Manifold Pressure	EGR Cooler Efficiency	Not Available	Percent		
		Differential Pressure	-2.0	InHg	-2.0	-2.0
OBD Monitors	Click on the icon o	Differential Pressure Sensor al Voltage	0.00	V	0.00	0.01
	right_click to sta	Flow Derate	Active			
	right-click to sta	Temperature	32	°F	32	32
	the graphing	Temperature Sensor Signal Ige	5.17	V	5.17	5.17
L	11030 Engine Source	Valve Position (Percent Open)	0	Percent	0	0
	Address	EGR Valve Position Commanded	0	Percent	0	0
	J1939 Retarder Control	EGR Valve Position Sensor Signal Voltage	0.00	V	0.00	0.00
	- J1939 Betarder Control	Engine Brake Output Circuit 2	Inactive			
	Status	Engine Brake Output Circuit 3	Inactive			
	J1939 Stop Broadcast	Engine Brake Switch Level	0	Percent	0	0
	Source Address One	Engine Coolant Level	Error			
Conservation From				Firmware: 6.40		
Connected to ECM.		NLNE6,USB (J1939) Connection	KF1210A (31333)	1 million 0.40		

176 1/20/2014

Cummins Confidential



INSITE 8.0.0.402 - Signat	ture/ISX - CM870 - Engine Serial Number - 0 -	- ECM Code - AB10400.23		23
📑 Eile Edit View Too	ols Manage License(s) <u>W</u> indow <u>H</u> elp			_ 8 ×
0000 200	- <b></b>	🕞 🖻 🍸 🖾 📽 🕪 🕨 🗉 = 🔩 🔂 😭		
Disconnect from	Parameter Groups	Parameter	Value Units Minimum Maxir	mum 🔺
L ECM	Predefined	r al al lie tel	easured Measured Meas	ured
	All Parameters	Accelerator Pedal Position Sen	The graph can be 0.00	0.00
Fault Codes	<ul> <li>ECM Information</li> </ul>	Signal Voltage		504
	EGR and Turbocharger	Adjusted Tire Size	imported or saved	501
Data	Performance	Air Conditioning Pressure Swite		
	Engine Braking	Amber Warning Lamp Status		E
ECM Diagnostic	ECM Diagnostic Engin 👷 INSITE - Data Monitor Logger - Graphical Display			
- Itali	Hard File Edit View Gra	aphing Help	24.3	24.3
Advanced ECM	Lamps Import Log File		0.00	0.01
Leg Data	Low Pi Save As Picture			2.04
Features and	Parame Save/Export File	Signature/ISX - CI	M870 0.70 1	5.54
Parameters	Ean Print Preview		- "Air Conditioning Pressure Suit	
Calibration	Ean Print		ch" 0	0
Selection			- "Amber Warning Lamp Status"	
	Geal Boot			
Work Orders	Gov 0.0		- "Anti-theft Status"	
	20.0 J		- "Adjusted Tits Size"	
Trip Information	_ Intal _		Adjusted Tire Size	0
	Tem 5 10.0			
Audit Trail	Intal			
×4	Tem 00			_
Inquire Data				
Extraction	🖬 Intal		- "Accelerator Pedal Position Sen sor Signal Voltage" -2.0	-2.0
El annu a	<b>Intal</b> > 10.0		- "Barometric Pressure Sensor Sig	
OBD Monitors	Sen		nal Voltage" 0.00	0.01
		50 100	150 200 32	32
	110		517	5.17
	State		0.17	0.17
	- J1939 Engine Source	EGR Valve Position (Percent Op	en) 0 Percent 0	0
	Address	EGR Valve Position Commanded	d 0 Percent 0	0
	J1939 Retarder Control	EGR Valve Position Sensor Sign	nal 0.00 V 0.00	0.00
	- Source	Engine Brake Output Circuit 2	Inactive	
	J1939 Retarder Control	Engine Brake Output Circuit 2	Inactive	
	11090 Stop Broadcast	Engine Brake Switch Level	0 Percent 0	0
Source Address One		Engine Coolant Level	Error	-
				••••
Connected to ECM.		NLINE6,USB (J1939) Connection	P1210A (J1939) Firmware: 6.40	

178 1/20/2014

Cummins Confidential



179 1/20/2014 **Cummins Confidential** 



1/20/2014

**Cummins Confidential**
🛃 INSITE 8.0.0.402 - Signat	ture/ISX - C	M870 - Engine Sei	rial Number - 0 - ECM Code	- AB10400.23	and have been				
😼 Eile Edit View Too	ols Manag	ge License(s) <u>W</u> ir	ndow <u>H</u> elp					_ 8 >	
ØØØ X D C	8 🕹	m   🗈 🔗		🗄   🛎 🔌 🕨 II = 🎜 🔂 😭					
Disconnect from	Parameter Groups			Parameter Value Units		Unite	Minimum	Maximum 🔄	
- ECM	🖻 Prede	efined			Value	UTIIIS	Measured	Measured	
	- All	Parameters		Accelerator Pedal Position Sensor	0.00	V	0.00	0.00	
Fault Codes	ECI	M Informatio	n _	Signal Voltage	0.00	v	0.00	0.00	
-	EG	R and Turbo	charger	Adjusted Tire Size	501	revs/mi	revs/mi 501		
Data	Per	formance	,	Air Conditioning Pressure Switch	On				
	- Enc	gine Braking		Amber Warning Lamp Status	On			=	
Terra ECM Diagnostic	- En	1. INSITE - Data	Manitan Lanan Compliant	Direle			X		
Tests	— На	File Edit \	<b>1</b> Export Log File	-		285	24.3	24.3	
	- La		No w Intelec	t ▶ INSITE ▶ Logs 🗸 😽	Search Logs	2		0.01	
Data	<u> </u>	× T 1			2			0.01	
			Organize 🔻 New fo	blder			13.75	13.94	
Features and	Pa	10.0	Nesktop	^ Name	Date modified Type				
	<b>3</b> I		🗼 Downloads	N.S		oning Pressure S	Swit		
A Calibration			Recent Places	No items match you	r search.		. 0	0	
		0.0 -				rning Lamp Stat	us"		
	5.0	1	Cibraries			itatus"			
Work Orders	<b>.</b> (	-10.0 – ]	Documents						
		510.0 -	Music			ire Size"			
Trip Information		·= 1	Pictures				0	0	
		500.0	videos					V	
		2	Computer						
		1 1	local Disk (C)						
🛄 🕽 Inguiro Data	\ \	ار ۔ 10.0	Lenovo Recoven						
		1 1	DVD RW Drive (E:	▼ <		r Pedal Position	Sen		
						Pressure Sens	-2.0	-2.0	
OBD Monitors	•		File <u>n</u> ame: G	DML-20151217-115018.eff			0.00	0.01	
	5.	1	Save as <u>t</u> ype: Ele	ctronic Graph File(*.elf)		<b></b>			
		-10.0 — ļ		r					
			Hide Folders		<u>S</u> ave Cancel		32	32	
		h				Event #	5.17	5.17	
	" S	tatus		ECB Volue Desition (Dereent Open)	0	Dereent			
	🛛 👝 J	1939 Engine	e Source	EGR Valve Position (Percent Open)	0	Percent	0	0	
	A "	ddress		EGR Valve Position Commanded	0	Percent	0	0	
	🔡 📑 J	1939 Retard	ler Control	EGR Valve Position Sensor Signal	0.00	$\vee$	0.00	0.00	
	<u></u> "S	ource		Engine Broke Output Circuit 2	Incotivo				
	🛛 👼 J	1939 Retard	ler Control	Engine Brake Output Circuit 2	Inactive				
	<u></u> S	itatus		Engine Brake Output Circuit 3	Inactive	Description			
	🛛 📑 J	1939 Stop B	Broadcast	Engine Brake Switch Level	0	Percent	0	0	
	- S	ource Addre	ess One	Engine Coolant Level	Error	·			
Connected to ECM.				INLINE6,USB (J1939) Connection	RP1210A (J1939)	Firmware: 6.40			
			~ <b>0</b>						

181 1/20/2014

Cummins Confidential

## Data Monitor / Logger Wrap Up

- Data Monitor/Logger provides a means to View, Log or Snapshot live engine data
- Log and Snapshot files can be saved as a CSV or Tab delimited (.txt) files for analysis in Excel
- The Data Monitor/Logger appearance can be modified through Tools → Options to display data in a larger font
- Graphical Monitoring is a way to display, log, print, and save data for up to six parameters in a graph



## **OBD Monitors**

- The OBD system monitors components that can affect the emission performance of the vehicle
- Displays a map of all available fault codes with associated monitor type and its readiness status.
- OBD Monitors are never cleared from this view
- User can refresh the view



Image: Second control of the second	anage License(s) <u>W</u> M       Image License(s)       M         M       Image License(s)       Image License(s)         ON       Distance         All       Faults)	<u>V</u> indow <u>H</u> elp	<b>∀</b>  ⊡ #0→			_ 8 ×	
Disconnect from	Q   M   ☑ ON Distance All Faults)		· ▼   🖺   🛎 🔿 →				
Disconnect from MIL	ON Distance All Faults)						
	ON T: (10		Refresh	798	5 mi		
Fault Codes	ON Time (All Faults)		View	812	Hr		
F	ault Code	Description			Monitor Type	Readiness Code	
Data Monitor/Logger	0145	Engine Coolant below normal, or	Temperature 1 Set shorted to low so	nsor Circuit - Voltage urce	Ambient Air Temperature Sensor Rationality Check Trip Status	Not Complete	
ECM Diagnostic Tests	0122	Intake Manifold normal, or shorte	1 Pressure Sensor ed to high source	[·] Circuit - Voltage above	Catalyst Outlet Temperature Sensor Rationality Check Trip Status	Complete	
Advanced ECM	0432	Accelerator Ped Out of Calibratio	al or Lever Idle Va n	lidation Switch Circuit -	Engine Coolant Temperature In Range Monitor Trip Status	Complete	
Features and Parameters	N	Aonitor T	ype	Distance the	vehicle has		
Calibration Selection		Definition		driven with t	he MIL ON		
Work Orders					/		
Trip Information							
Audit Trail							
Inquire Data				Completed	= The vehicle has comp	leted	
OBD Monitors				two trip	ps in which the specified	l	
				fau	lt has not reoccurred.		
	Not Completed = The vehicle has not vet completed two trips in which						
				the specifi	ied fault has not reoccur	red	
Connected to ECM.			J ISBe4 (	4 and 6 cylinder) Simulator			

184 1/20/2014

Cummins Confidential Innovation You Can Depend On

You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





### INSITE[™] ECM Diagnostic Tests and Advanced ECM Data

**Electronic Service Tools** 

Innovation You Can Depend On[™]

# **ECM Diagnostic Tests**

ECM Diagnostic Tests window displays tests available for the connected engine

Each Engine supports different ECM Diagnostic Tests







1 INSITE 8.0.0.402 - Sign	ature/ISX - CM870 - Engine Serial I	lumber - 0 - ECM Code - AB10400.23	
File Edit View T	ools Manage License(s) Window	·Hep #201221212140>IIII#0>III	(_ ) # ) x
Disconnect from ECM	Cylinder Cutout Test		1
Fault Codes	This test is used to cutout cy	inders for troubleshooting cylinder misfires.	
Data Monitor/Logger	Instructions:		- Shaw
ECM Diagnostic Tests	It is recommended that the 1. Turn off Air Conditionin	Cylinder Cutout Test	
Advanced ECM Data	2. Lock Engine Fan in the	It is recommended that the following steps be performed before running the Cylinder Cutout Test: 1. Turn off Air Conditioning. 2. Lock Engine Pan in the "ON" position.	
Features and Parameters	Cutout Cylinders	If the engine stalls, or communication with the ECM is lost during test operation, the keyswitch must be cycled to restore cylinders to their active state.	
Calibration Selection	2		
Work Orders	4	Click on Show to open the instructions	
Trip Information	5	in a new window	
Audit Trail			
Extraction		ok i	
OBD Monitors	_		,
	Help		Back Start
Connected to ECM.		RP1210A (J1939) Firmware: 6.40	

### ECM Diagnostic Tests Wrap Up

- Each Engine supports different ECM
   Diagnostic Tests
- Follow the directions of each test carefully



### **Advanced ECM Data**

 Advanced ECM Data window displays the special features available for the connected engine

Each Engine supports different special features





## Advanced ECM Data Wrap Up

- Each Engine supports different special features
- Follow the directions of each feature carefully



You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





### **INSITE™** Fault Codes

**Electronic Service Tools** 

Innovation You Can Depend On[™]

## **Fault Codes**

- Fault Codes window displays an engine's fault data
- Fault Codes include both engine faults and engine protection faults
- Each fault is represented by a Cummins fault code
  - Indicates a specific malfunction or abnormal condition within the controller, subsystem, or engine
- Ability to link to Fault Information System for Troubleshooting Information



Eile Edit View Tools	ure/ISX - CM870 - En	gine Serial Number - 0 - E Window Help	CM Code	- AB10400.23								
NO NO NO X PO IN		haPl⊲ ⊯ ⊒   6		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
Disconnect from ECM			Se	lect							-	
🐝 Fault Codes 🗲		Fa	nult	Codes			Alte	rna	te (	Click		
Data Monitor/Logger					_		Inac	- Ui ctiv	se t e Fa	aults		
ECM Diagnostic Tests												
Advanced ECM Data	* Fault Code	Status	Count	t Lamp	Description			PID	SID	J1587 FMI	J1939 FMI	SPN ^
E Features and		Fault Parameters	First	Last	Units							N
Parameters	■ CM870	ECM Time	16:21:	10	HH:MM:SS							
Calibration		Engine Hours	0:00:0	0	HH:MM:SS							
Selection		Keyoffs	29									
Work Orders	• • 2349	Active	6	Amber Expand	EGR Valve Critt	ol Circuit - C puit	urrent below		146	5	5	2791
Trip Information		Active	1	Collapse		to high sou	Voltage above	111		3	3	111 =
Audit Trail		Active	1	Reset Inactive P Reset All Faults	auits	mal, or sho	isor Circuit - rted to high	174		3	3	174
Inquire Data		Active	1	Refresh All Sort Print		essure Sen nal, or shor	sor Circuit - ted to low	102		4	4	102
OBD Monitors		Active	1	Fault Trees Ove	erview	or Circuit - \ to low sour	/oltage below ce	100		4	4	100
		Active	1	Fault Trees Tro Fault Trees Inde SAE J1939 Mult	ubleshooting Steps ex tiplexed Fault Data	ire Sensor mal, or shoi	Circuit - rted to high	110		3	3	110
		Active	1	Amber	Intake Manifold / Circuit - Voltage high source	Air Temperatu above norma	ure Sensor I, or shorted to	105		3	3	105
Links to	Fault II Syster	nformatio	n	Amber	Oil Temperature above normal, or	Sensor Circu shorted to hi	it - Voltage igh source	175		3	3	175
	Oyster			Amber	Barometric Press below normal, or	ure Sensor ( shorted to lo	Xircuit - Voltage w source	108		4	4	108
	even un construction (1997)	Active	1	Amber	Turbocharger #1 Temperature Ser	Compressor sor Circuit -	Inlet Voltage above			3	3	1172 -
Connected to ECM.			-		LINE6,USB (J1939) Connectio	n 🔹	RP1210A (J1939) Firm	ware: 6.4	40			
198 1/20/2	2014	Cun	nmins	Confider	ntial <b>In</b>	novatio	n You Can	De	pen	d On		









#### **Fault Codes Sorting**

- Fault Codes can be sorted by either the column, or by right click for multiple column sorting
- The Fault Code data can be sorted by clicking on the column header for a single column sort
- The data will be sorted based on the selected column in ascending order. Click on the column header again to resort the data in descending order
- *Note:* Sorting can only be used on the Fault Code, Status, Count, or Lamp columns



INSITE 8.0.0.402 - Sign	ature/ISX - CM870 - En	gine Serial Number - 0 - E	CM Code - AB	10400.23						_	
File Edit View Tools	Manage License(s)	Window Help									
00001	1 🗇 💽 🗛 🛛	2 🖋   🔍 🖉 📇   6	BYI	]@@							
Disconnect from ECM											
Fault Codes											
Data											
ECM Diagnostic Tests						ſ	Sort		ine se		×
Advanced ECM Data	* Fault Code	Status	Count	Lamp	Description		Sort by				
Eastures and	T dan bodo	Equit Parameters	Firet	Lact	Unite		Status		-	Ascending	
Parameters	= CM970	ECM Time	16-01-10	Last	ULL-MM-CC		Jotatus	,	· ·	-	
	E CM070	EGM TIME	0.00.00		пп.мм.55					O Descending	9
Calibration Selection		Engine Hours	0.00.00		пп.мм.55		-Then by				
-		Neyons	29		EOD Volus Ossilari	Oliveration On					
Work Orders	• • 2349	Active	6 Ex	Amber pand	EGR Valve Control	uit	Fault	Code	•	Ascending	
		Active	1 Co	ollapse	5	or Circuit -	/			C Descending	9
Audit Trail	<b>≋ ● 026</b> 3	Active	1 Re Re	eset Inactive   eset All Faulte fresh All	Faults P	rature Seri nal, or shor	Then by	)	•	• Ascending	
Inquire Data Extraction		Active	1 So Pr	int	e n	al, er short			ОК	C Descending	
OBD Monitors	<b>⊮ ○</b> 0141	Active	1 Fa	ult Trees Ov	erview	r Circuit - V to low sourc					
	<b>≝ ○</b> 0144	Active	1 Fa	ult Trees Ind E J1939 Mult	ex tiplexed Fault Data	re Sensor & nal, or shorte	ed to high	110	3	3	110
_	<b>≝ 0</b> 153	Active	1	Amber	Intake Manifold Air Circuit - Vortage ab high source	Temperature ove normal,	Sensor or shorted to	105	3	3	105
	<b>Right-</b>	click to s	selec	t So	nperature Se normal, or sh	nsor Circuit orted to higi	- Voltage n source	175	3	3	175
	and	sort by	optio	ns	etric Pressur normal, or sh	e Sensor Cir orted to low	cuit - Voltage source	108	4	4	108
	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Active	1	Amber	Temperature Senso	ompressor In or Circuit - Ve	llet oltage above		3	3	1172 -
Connected to ECM.			5		LINE6,USB (J1939) Connection	•	RP1210A (J1939) Firm	tware: 6.40			

202 1/20/2014

Cummins Confidential

## Fault Codes Wrap Up

- Fault Codes window shows active and inactive Fault Codes
- Alternate click
  - Link to Fault Information System for Troubleshooting information
  - Clear Inactive Faults
- Links to Troubleshooting available in the Fault Information System



You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





#### **INSITE™** Features and Parameters

**Electronic Service Tools** 

Innovation You Can Depend On[™]

### **Features and Parameters**

- Allows licensed user to make changes to ECM settings
- Each Engine family may have a unique set of Available Features and Parameters
- Parameters are a subset of Features
- INSITE[™] lists Features and Parameters in one view - allowing multiple adjustments at once



			G	
File Edit View To	ols Manage License(s) Window Help			_ 6
0001701	3 <b>중 3 #</b> 12 <i>8</i> <b>4 #</b> 8 <b>8 8 9</b> 17 # 0 → 11 = 41 8 8			
Disconnect from	Features and Parameters	ECM Value	Units Original Value	;
ECM	Bignature/ISX - CM870			
End Cates	- <b>□ CM870</b>			
Paul Codes	🐵 💼 System ID and Dataplate			
🗖 Data	🗄 💼 Accelerator Interlock	Disable		
Monitor/Logger	🗉 💼 Adaptive Cruise	Disable		
FCM Diagnostic	🐵 💼 Adjustable High Idle Governor Speed			
Tests	🗉 💼 Adjustable Low Idle Speed			
	🐵 💼 Battery Voltage Monitor	Disable		
Data	Centinel Oil System	Disable		
Features and	Cruise Control	Enable		
Parameters	Gruise Control Switch Setup			
Calibratian	- B 💼 Driver Reward	Disable		
Selection	🗉 💼 Engine Brake Control	Disable		
	- 👩 Engine Coolant Level Sensor	Installed		
Work Orders	🗄 💼 Engine Protection			
	🕫 🖬 Fan Control	Enable		
Trip Information	🗄 💼 Gear-Down Protection	Find		
	🕾 💼 Governor Type	Send To +		
Audit Trail	🗉 💼 Idle Shutdown	Expand le		
H2	-B 💼 J1939 Controls	Collapse		
Extraction	🗉 💼 Load Based Speed Control	Restore Original Value		
Pre-	🕫 💼 Maintenance Monitor	Restore All Original Values		
OBD Monitors	🗄 💼 Powertrain Protection	Refresh • O		
	PTO/Remote PTO	Limits		
	Remote Accelerator	Disable		
	🐵 💼 Road Speed Governor			
	🗉 💼 SAE J1939 Multiplexing	Disable		
	-B  Starter Lockout	Disable		
	🕾 💼 Switched Maximum Engine Operating Speed	Disable		
	🗉 🧰 Tire Wear Adjustment	Disable		
	- 🖲 💼 Transmission Setup			
	🐵 💼 Trip Information	Enable		
	🐵 💼 Vehicle Electrical System Voltage			
	Vehicle Speed Sensor Anti-Tampering	Enable		

INSITE 8.0.0.402 - Signa	iture/ISX - CM870 - Eng	jine Serial Number - 0 - ECM Code - AB10400.23					3 ×
File Edit View To	ols Manage License(s	) Window Help					_ 8 >
2000 700		) &   <) ∰ &   B, B,   Y   ⊡   # (0 → 1)					
Disconnect from	Features and Pa	arameters	Fxpand All	ECM Value	Units	Original Value	^
ECM	Signature/IS	SX-CM870	Collapse All	_			
Codes	= CM870		Auto Size Column	_			
and codes	- 🖷 🚔 Syster	Alternate Click	Auto Size All Columns				
Data	- 🗉 💼 Accele		Restore All Original Values	Disable			
Monitor/Logger	- 🛛 💼 Adapti	Menu is different	Befreek	Disable			
ECM Diagnostic	- 🖷 💼 Adjust	when on Title Day of	Kerresn	,			
Tests	🖃 💼 Adjust	when on The Dar of					
Advanced ECM	- 🖷 💼 Battery	Features and		Disable			
Data	🖃 💼 Centin			Disable			
Features and	- 🖷 💼 Cruise	Parameters-This		Enable			
Parameters	- 🖷 💼 Cruise	aives the ability to					
	- 🗉 💼 Driver	gives the ability to		Disable			
Selection	-® 🚔 Engine	Expand all		Disable			
	🚽 💼 Engine			Installed			
Work Orders	🕞 💼 Engine	Features					
411 <b>9</b>	- 🛛 💼 Fan Co			Enable			
Trip Information	🗉 💼 Gear-D	Jown Protection		Disable			
1	- I Govern	погТуре					
Audit Trail	🕀 💼 Idle Sh	utdown		Disable			
Douire Data	- 🛚 🛑 J1939 (	Controls					
Extraction	- B 🛑 Load B	ased Speed Control					
~ ²⁷ )	- B 💼 Mainte	nance Monitor		Disable			
OBD Monitors	- Powert	train Protection		Disable			
	-B PTO/R	emote PTO		<b>D</b> : 11			
	Remote	e Accelerator		Disable			
	-B Road S	Speed Governor		Disable			
	SAE JI	1939 Multiplexing		Disable			
	Starter	Lockout		Disable			
		ed Maximum Engine Operating Speed		Disable			
		ear Adjustment		Disable			
		Institution		Enable			
		e Electrical System Valtage		Cuaple			
	Vehicle	e Electrical System voltage		Epoblo			— .
	Venicie	e Sbeeu Sensor Anu-Tambennu	**	Chable		i i i i i i i i i i i i i i i i i i i	
Connected to ECM.		💂 🜙 🖂 INLINEG,US	SB (J1939) Connection	RP1210A (J1939) Firmware: 6.40			

INSITE 8.0.0.402 - Signa	ature/ISX - CM870 - Engine Serial Number - 0 - ECM Code - AB1040	00.23					0 <b>- x</b>
File Edit View To	ools Manage License(s) Window Help						- 6
000 1 1 1	CALAD? ABBY D	● ② → Ⅱ = 4 B B					
Disconnect from	Features and Parameters			ECM Value	Units	Original Value	
ECM	Signature/ISX - CM870						
Eault Codes	GM870					<u> </u>	
July I dan Couch	-•• 💼 System ID and Dataplate	O ECM:					
Data	- M Ccelerator Interlock						
Monitor/Logger	- Adaptive Cruise	Alterrate Clie	1-				
ECM Diagnostic	- 🖬 💼 Adjustable High Idle Governor Speed	1001 Dar 100	on OK A	Allernale Clic	K		
Dests	- Adjustable Low Idle Speed						
Advanced ECM	- 🛚 💼 Battery Voltage Monitor	Select Send	$T_0 \rightarrow I$	ECM			
Data	sta Centinel Oil System						
Features and	- B Cruise Control		Enable				
Parameters	Cruise Control Switch Setup						
Calibration	-			Disable			
Selection	🖃 💼 Engine Brake Control			Enable		Disable	
	Engine Coolant Level Sensor	F	ind	Installed			
Work Orders	- Engine Protection	S	end To	P PM			
411 <b>0</b>	- 🖬 💼 Fan Control		un and	Printer			
Trip Information	- Gear-Down Protection		Collapse				
	- B 💼 Governor Type		estore Original Val	hua			
Audit Trail	- Idle Shutdown	R	Restore All Original Values Refresh				
loguine Data	- B   J1939 Controls						
Extraction	- Dead Based Speed Control		erresn	,			
100	- B  Maintenance Monitor	L	imits	Disable			
OBD Monitors	Powertrain Protection			Disable			
	- Remote PTO						
	Remote Accelerator			Disable			
	Road Speed Governor						
	SAE J1939 Multiplexing			Disable			
	Starter Lockout	0 1		Disable			
	Switched Maximum Engine Operating	g Speed		Disable			
	Tire Wear Adjustment			Disable			
	Transmission Setup						
	Trip Information	Trip Information					
	Vehicle Electrical System Voltage	_		<b>F</b>			
	Vehicle Speed Sensor Anti-Tampering	a	***	Enable			
Connected to ECM.		NLINE6,USB (J1939) Connectio	n 👻	RP1210A (J1939) Firmware: 6.40	)		

### **Check Limits**

INSITE 8.0.0.402 - Signa	ture/ISX - CM870 - Engine Serial Number - 0 - ECM Code - AB10400.23	And the state of t	the state of the s			🗆 🛛 📥
File Edit View To	ols Manage License(s) Window Help					_ 8
00001	5 <b>● C. A </b>					
Disconnect from	Features and Parameters	ECM Value		Units	Original Value	
- ECM	Signature/ISX - CM870					
East Codes	CM870					
July . une course	-					
Data	Accelerator Interlock	terlock				
Monitor/Logger	- Adaptive Cruise			Disable		
ECM Diagnostic	Adjustable High Idle Governor Speed					
D Tests	- Adjustable Low Idle Speed	P Adjustable Low Idle Speed				
Advanced ECM	Low Idle Speed	Find		600	RPM	
Data	<ul> <li>Low Idle Speed Adjustment Switch</li> </ul>	Send To		Enable		
Features and	Battery Voltage Monitor	Email		Disable		
Parameters	- Centinel Oil System	Collanse		Disable		
Calibration	Cruise Control	Restore Origin	and Malana	Enable		
Selection	-	Restore Origi	nai value			
	Driver Reward	Pefeeth	ingina roboti	Disable		
Work Orders	- Engine Brake Control	Engine Brake Control				
ent	Engine Coolant Level Sensor		Installed			
Trip Information	- e engine Protection					
B	🗉 🧰 Fan Control			Enable		
Audit Trail	- e dear-Down Protection			Disable		
logrice Data	Governor Type					
Extraction	- e 💼 Idle Shutdown			Disable		
~?`\	I J1939 Controls					
OBD Monitors	Load Based Speed C Alternate click	k and se	olect I :	imits		
	Maintenance Monitor				′	
	- e e Powertrain Protection			Disable		
	- e e PTO/Remote PTO					
	- e e Remote Accelerator			Disable		
	Road Speed Governor					
	- E SAE J1939 Multiplexing			Disable		
	- Starter Lockout			Disable		
	-			Disable		
	Tire Wear Adjustment			Disable		
	- e in Transmission Setup					
	Bright Information			Enable		
Connected to ECM.	P NLNE6,USB (J1939) C	Connection 💌	RP1210A (J1939)	Firmware: 6.40		



Cummins Confidential

### **Features and Parameters**



### **Features and Parameters Wrap Up**

Multiple adjustments can be made at once

Tool Tips help in adjusting parameters

#### Alternate Click

- Ability to search using Alternate Click Menu
- Send changes to ECM
- View Limits of a parameter
- Expand all parameters when alternate click on title bar of Features and Parameters



You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





### INSITE[™] Inquire Data Extraction

**Electronic Service Tools** 

Innovation You Can Depend On[™]

## **Inquire Data Extraction**

- -Used to quickly extract and store ECM data
- –Reset selected parameters in a connected engine
  - When no active faults or other issues are present
- –Inquire Data Extraction is typically performed while fueling the vehicle
- -Extracted data is saved to a 'CSV' (Comma Separated Value) file for future use



## **Inquire Data Extraction**

#### Tools $\rightarrow$ Options

C	Options		
	Connections	Inquire Data Extraction	
	File	Connection	
	Inquire Data Extraction  Security  Authorization Password  ECM Password Domousi	Select the connection settings for Inquire Data Extraction	
	Fleet Calibration Counts Units of Measure User Manager Work Orders	ISB - CM2150D Simulator INLINE5 USB - J1939 - RP1210A INLINE II COM1 (Auto Detect) Connection INLINE II COM1 (J1939) Connection INLINE4/5 COM1 - J1939 - RP1210A	
		Datalink Protocol :         Inquire Data Extraction Resets         Available Operations :       Selected Operations :         Reset Trip Information       >         Reset Maintenance Monitor Data       >         Reset Inactive Fault Codes       <	
	<	Output Files Save as type Comma Separated Files (*.csv)	
		OK Cancel Apply Help an Depend On	

cummins
### **Inquire Data Extraction**

File	Inquire Data Extraction
General Inquire Data Extraction Security Units of Measure User Manager Work Orders	Connection Settings Select the connection settings for Inquire Data Extraction InLINE II, Auto Detect, COM 1 Adapter Type : Serial Computer Port : 1 Datalink Adapter : INLINE II Datalink Protocol : Auto Detect Inquire Data Extraction Resets Available Operations : Reset Trip Information Reset Maintenance Monitor Duda Reset Maintenance Monitor Group 1 Reset Maintenance Monitor Group 2 Reset All Fault Codes Reset All Fault Codes Reset All Fault Codes Reset All Fault Codes
	OK Cancel Apply Help

#### **Location of Inquire Data Extraction**



### **Inquire Data Extraction**

#### 1st Time Engine Extract

- Vehicle information
   Listed
- Can be customized for easier identification

Name	Value	
Engine Serial Number	E5012345	
Unit Number		6
Customer Name	Customer	
Group Name	New Group	





Inquire Data Extraction Status

Current Connection Configuration :

Connection Name : Signature/ISX - CM870 Simulator Computer Port : 1 Datalink Adapter : N/A Datalink Protocol : N/A (To change the settings click on 'Options' button)

Please connect to a vehicle

0%

#### Vehicle Properties :

Group Name	Engine Serial Number	Unit Number	Customer Name
💻 New Group			
Vehicle	E5012345	623	Customer
E5012345_0_20040720105757.csv			
E5012345_0_20040720110242.csv			
E5012345_0_20040720110310.csv			
IE5012345_0_20040720110447.csv			
- E Vehicle	15012345	UNIT001	Customer
I15012345_0_20040720110415.csv			
I15012345_0_20040720110529.csv			
E Vehicle	307662884	QSKG	Customer
1307662884_0_20040720110654.csv			
I307662884_1_20040720110656.csv			
I307662884_2_20040720110659.csv			

#### Inquire Data Extraction

X

Options.

## Inquire Data Extraction Wrap Up

- Excellent application for fleets that need to quickly gather vehicle data
- Simple connection to vehicles
- Provides resets as needed
- Data is automatically formatted for importing to a spread sheet or data base



You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





### INSITE[™] Installation and Tool – ECM – User Security

**Electronic Service Tools** 

Innovation You Can Depend On[™]

#### Agenda

- -Installation/Auto Run
- -Tool Security
- -<u>Start Up</u>
- -Tools Options
- -ECM Security
- -User Manager
- -Roll Back Option



224 <u>1/20/2014</u>

### Auto Run Menu

# INSITE[™] installation DVD uses an Auto Run Menu

- To Install, Select Install INSITE TM 7.6.0
- INSITE [™] will upgrade from previous versions
- It is not necessary to uninstall previous versions of INSITE before installing the new version





Innovation You Can Depend On

#### **Auto Run Menu**



## Auto Run Wrap Up

Refer to either the Quick Start Guide or the Installation Instructions

# INSITE[™] will upgrade from previous versions

 It is not necessary to uninstall previous versions of INSITE [™] before installing the new version.



227 <u>1/20/2014</u>

Cummins Confidential

Innovation You Can Depend On

### **INSITE Start Up**





228 <u>1/20/2014</u>

Cummins Confidential

Innovation You Can Depend On



#### Manage Licenses



### Tools→ Options→ Connections

Options	<b>×</b>
Connections File General Inquire Data Extraction Units of Measure User Manager Work Orders	All       Serial       Simulator         Name       Status         INLINE6,USB (J1939) Connection       Current         INSITE Integrated Simulator - Single M       Disconnected         INLINE5, USB (Auto Detect) Connection       Disconnected         EZ TAP COM7 - Auto Detect - RP1210A       Disconnected         INLINE5, USB (J1939) Connection       Disconnected         ISpature/ISX - CM870 Simulator       Disconnected         ISBe4 (4 and 6 cylinder) Simulator       Disconnected         ISBe4 (4 and 6 cylinder) Simulator       Disconnected
	Add Remove Properties
	OK Cancel Apply Help

Add and Remove Connections



Cummins Confidential

### Tools $\rightarrow$ Options $\rightarrow$ General

Options	
Connections File	General
General     Appearance     Inquire Data Extraction     Units of Measure     User Manager	Start Up Display Splash Screen  Enable Data Retrieval
Work Orders	Toolbar Display Options Small Buttons  Tool Tips Display
	Viewbar Viewbar Viewbar Viewbar Display Feature Names Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar Viewbar
	Fault Codes         ✓ Enable Auto Refresh         Refresh Fault Info Every       30 → sec.
	Calibration Selection Calibration Selection View Network Calibration Drives
	Reset to Cummins Default Settings
	OK Cancel Apply Help

#### Personal Preferences



### Tools $\rightarrow$ Options $\rightarrow$ General $\rightarrow$ Appearance

Options		×
Connections File General Appearance Inquire Data Extraction Units of Measure User Manager Work Orders	Appearance         Iext Options         AEM Enhanced Fault Snapshot Log         AEM Enhanced Fault Snapshot Log         AEM Start Stop Log         Background Colors         AEM Enhanced Fault Snapshot Log         AEM Enhanced Fault Snapshot Log         AEM Engine Shutdown Log         AEM Engine Shutdown Log         AEM Start Stop Log         Grid Colors         AEM Engine Shutdown Log         AEM Start Stop Log         Current Selection         Selected T         Sample Te	Modify
	OK Cancel Apply	Help

# □Font size can be changed for ease of viewing

**Modify** 

Font			×
Eont: MS Sans Serif MS Serif MS Serif MT Extra Niagara Engrared Niagara Solid	Font style: Bold Regular <i>Oblique</i> Bold Bold Oblique	Size: 12 8 10 12 14 18 24 v	OK Cancel
Effects Stri <u>k</u> eout <u>U</u> nderline <u>C</u> olor:	Sample AaBbYy	Zz	
Black 💌	Sc <u>ript:</u> Western	•	



### Tools→ Options→ Units of Measure

Connections File	Units of Measure				T (
<ul> <li>General</li> <li>Appearance</li> </ul>	Current Units of Measure	Group			Insert
Inquire Data Extraction Units of Measure	USA	•			<b>Group</b>
E User Manager Work Orders	Units of Measure Editor				Name
Wark Groeps	Туре	Unit			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Predefined				
	- 🕀 Latin America				
	- E Metric				
	- I UK				
	Canon				
Add Custom Group		X			
Group Name:					
Test Group 1					- Select Add
		Add	Renove		
based On:					
USA	•				
OK	Cancel				
			and the second second second	100 B	

Cummins Confidential

### Tools→ Options→ Units of Measure

Predefined
Groups

Custom Groups may be set up

Adjust
 Custom Groups
 to match User
 Preferences

Connections	Units of Measure		
General Appearance	Current Units of Measure Group		
Units of Measure	USA 💌		
User Manager Work Orders	Units of Measure Editor		
	Type E Latin America Metric UK	Unt	•
	Custom	(RPM) revolutions per minute	1
	Road Distance	(mi) Miles	1
	Power	(km) Kilometera	
	Torque	(It*b) foot pound-force	
	Diesel Fuel Rate Natural Gas Fuel Rate	(gph) gallons per hour (lb/hr) pounds per hour	
		Add Remove	1
		court la traini	



Cummins Confidential

# **Tools** $\rightarrow$ **Options** Wrap Up

One place to Set up and customize INSITE[™] Contains:

- Connections
- File Locations
- General
  - Location to Adjust Font Sizes
- Tool Level Security
  - ECM Password Removal Passwords
  - Fleet Calibration Count Passwords
- Units of Measure
- User Manager
- Work Orders



Most of the Cummins ECMs have five levels of password capabilities:

- Master
- Adjustment
- Reset
- OEM
- OEM 2



237 <u>1/20/2014</u>

Cummins Confidential

Innovation You Can Depend On

Master ECM Password

- -No Changes to ECM Allowed
- -Includes all Writes and Resets

#### Adjustment Password

- -Master Password must also be Set
- -Only allows changing ECM Adjustments
  - Features and Parameters

#### **Reset Password**

- -Master Password must also be Set
- -Only allows ECM Resets
  - Fault Codes, Trip Information

#### OEM/OEM 2 Password

- -Master Password does not need to be set
- -Protects OEM Specific Parameters from Adjustment

238 <u>1/20/2014</u>

**Cummins Confidential** 





#### Tools →ECM Passwords...







Connect 🛛 🔀	
Californies Californies Californies Californies	Select Password Level from the dropdown list
Security Type: Master	
ECM Password:	Enter Password
Connec <u>t</u> <u>C</u> ancel Pr <u>o</u> perties <u>H</u> elp	

cummi

### ECM Security Wrap Up

- -Used to protect the ECM from users making unauthorized adjustments
- -Different levels can be set to allow for:
  - Resets only (Reset Password)
  - Feature Adjustments (Adjustment Password)
  - Full functionality (Master Password)
- -Master Password must be Set when using ECM Security



### **User Manager**

- Enables a system administrator to assign specific access rights to individual users and groups
- -When enabled, a login is required to open INSITE ™
- -Multiple users and groups can be created



Innovation You Can Depend On

### Tools→ Options→ User Manager

Click on User Manager	Options       Image: Connections File         Image: General Induce Data Extraction Units of Measure       Image: General Induce Texport         User Manager       Image: General Induce Texport         Groups       Users         Users       Users and Groups         Import       Export         Select to Enable       Import         OK       Cancel         OK       Cancel         Apply       Help	Select Apply
	OK Cancel Apply Help	unim

### **System Administrator**

	Modify User
	User Name: System Administrator
Enter the	Password:
password for the System	Confirm Password:
Administrator	Groups: System Administrators
	<u>Q</u> K Cancel Help



### Setting Up Groups

	Options			
Expand User Manager and click on Groups	File General Inquire Data Extraction Units of Measure User Manager Groups Users Work Orders Work Orders	Circups  Current Groups Configuration  Group Rights  Predefined  System Administrators  System Administration Calibration Download Adjust ECM Features and Parameters Change ECM Password Import ECM Image Data Export ECM Image Data Reset Trip Information Data Reset Faults Adjust User Options Reset Advance ECM Data Custom  Modify Add Remove		Click on Add to add a Group
		OK Cancel Apply	Help	e umminis

**Cummins Confidential** 

# **Setting Up Groups**



### **Setting Up Users**

Option	ns		
	Connections File General Inquire Data Extraction Units of Measure User Manager Groups Users Work Orders	Users           Current Users Configuration           User Name           Group           System Administrator           System Administrator           Modify           Add           Remove	]
		OK Cancel Apply Help	m
248	1/20/2014	Cummins Confidential Innovation You Can Depend On	

# **Setting Up Users**

	New User	
Enter New User Name	User Name:	٦
	Technician 1	
	Password:	
Enter Password	Confirm Password:	
	*****	
Select an existing Group	Groups:	
	OK Cancel Help	



### **Modifying Users**

Options		
Connections	Users	
File	Current Users Configuration         User Name       Group         System Administrator       System Administrators         Technician 1       Technician	Modify
	Modify Add Remove	Users

Cummins Confidential

### **Modifying Groups**



Cummins Confidential

### **After Re-starting INSITE**





252 1/20/2014 Cummins Confidential
# **User Manager Wrap Up**

 User Manager allows INSITE [™] to be used by multiple users with restricted access to the Tool Functionality



253 <u>1/20/2014</u>

Cummins Confidential

Innovation You Can Depend On

**Back to Agenda** 

# **Roll Back Option**

- INSITE[™] provides the capability to roll back to the previous base version
- For example, INSITE[™] 7.5.1 can be rolled back to INSITE[™] 7.5 by using uninstall update in the Control Panel



**Back to Agenda** 

Innovation You Can Depend On

# **Roll Back Option**

On a Windows 7 or Windows Vista PC

- Go to Start > Control Panel > Programs > Uninstall a Program. On the upper left hand side, click on View installed updates. Select INSITE[™] 7.5.1 from the list and click Uninstall. Follow the prompts to uninstall INSITE[™] 7.5.1
- On a Windows XP PC
  - Go to Start > Control Panel > Add/Remove Programs. On the top, check the box Show updates. Select INSITE™
     7.5.1 from the list and click Uninstall. Follow the prompts to uninstall INSITE™ 7.5.1
- Note: The PC may need to be restarted after uninstalling INSITE[™] 7.5.1



#### **Roll Back Option – Windows 7/Vista**



*Back to Agenda* Innovation You Can Depend On

### **Roll Back Option – Windows 7/Vista**

😋 🝚 🔻 🕨 Control Panel 🕨 Programs 🕨 Programs and Features 💿 👻 🍫 Search Programs and Featu 🔎						
<u>File Edit View Tools H</u> elp	)					
Control Panel Home View installed updates Turn Windows features on or off	Uninstall or change a program To uninstall a program, select it from the list and then Repair.	click Uninstall, Change, or				
Install a program from the	Organize 🔻	:== 🔻 🔞				
network	Name	Publisher				
	💶 Adobe AIR	Adobe Systems Inc.				
	💋 Adobe Flash Player 10 ActiveX	Adobe Systems Incorporated				
	FM Adobe FrameMaker 9	Adobe Systems				
	Adobe Help Viewer 2	Adobe Systems Incorporated				
	😕 Adobe Reader X	Adobe Systems Incorporated				
	🐜 Adobe Shockwave Player 11.5	Adobe Systems, Inc				
	🖟 Apple Application Support	Apple Inc.				
	🖟 Apple Software Update	Apple Inc.				
	🐻 BarCodeFontCODE39	Barcode Inc				
	Rrainboxes Boost.Software Suite 2.2	Brainboxes I td 👻				
	Currently installed programs Total size: 4.71 GB 93 programs installed					



#### **Roll Back Option – Windows 7/Vista**

😋 🔵 🗢 🖉 « Programs 🕨 Pro	ograms and Features 🔸 Installed Updates 🔹 👻	Search Installed Upo	lates 🔎
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp	,		
Control Panel Home	Uninstall an update		
Uninstall a program	To uninstall an update, select it from the list and then	click Uninstall or Chang	e.
Turn Windows features on or	$\frown$		
Install a program from the	Organize Vninstall		• 🔞
network	Name	Program	Version 🔺
	INSITE (1)		
	INSITE 7.5.1	INSITE	7.5.10147
	Microsoft .NET Framework 4 Client Profile (3)		
	Security Update for Microsoft .NET Framework 4 Clie	Microsoft .NET Fra	1
	Security Update for Microsoft .NET Framework 4 Clie	Microsoft .NET Fra	1
	Update for Microsoft .NET Framework 4 Client Profile	Microsoft .NET Fra	1
	Microsoft .NET Framework 4 Extended (1)		
	Security Update for Microsoft .NET Framework 4 Exte	Microsoft .NET Fra	1
	Microsoft Office Professional Plus 2007 (35)		
	< III		•
	Cummins Inc. Parent name: INSITE Product version: 7.5.10147		



#### **Roll Back Option – Windows XP**

Control Panel			×
jie <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help	4	ľ
3 Back - 🕥 - 🏂 🔎	Search 🌔 Folders 🛄 •		
dress 🔂 Control Panel		💌 🄁 G	•
-	Name 🔶	Comments	1
Control Panel 8	🔥 Accessibility Options	Adjust your computer settings for vision, hearing, and mobi	
	🗮 Add Hardware	Installs and troubleshoots hardware	
Switch to Category View	Add or Remove Programs	Install or remove programs and Windows components.	
	Madministra <u>tive Tools</u>	Configure administrative settings for your computer.	
	📲 🥸 Automatic 🛛 Install or remove programs and	Windows components. p automatically deliver important updates	
See Also 8	Poate and time	Set the date, time, and time zone for your computer.	
🔕 Windows Update	🛞 Display	Change the appearance of your desktop, such as the back	
(A) Help and Support	Generations	Customize the display of files and folders, change file assoc	
	C Fonts	Add, change, and manage fonts on your computer.	
	🖗 Game Controllers	Add, remove, and configure game controller hardware suc	
	HP Quick Launch Buttons	HP Quick Launch Buttons	
	⁰ 1 ⁰ HP Wireless Assistant	View the status of and control the power states of integrat	
	😨 Internet Options	Configure your Internet display and connection settings.	
	👲 Java	Java(TM) Control Panel	
	& Keyboard	Customize your keyboard settings, such as the cursor blink	
	@ Mai	Microsoft Office Outlook Profiles	
	Mouse	Customize your mouse settings, such as the button configu	
	Setwork Connections	Connects to other computers, networks, and the Internet.	
	🚱 Network Setup Wizard	Launch the Network Setup Wizard	_
	Sector Manager	Configure your NVIDIA n/view Desktop Manager settings.	
	Phone and Modem Options	Configure your telephone dialing rules and modem settings.	
	Portable Media Devices	View the portable media devices connected to your computer.	
	CaPower Options	Configure energy-saving settings for your computer.	
	Printers and Faxes	Shows installed printers and fax printers and helps you add	
	Program Updates	Instal Shield Update Manager checks for updated versions	
	👷 Regional and Language Options	Customize settings for the display of languages, numbers,	
	Scanners and Cameras	Add, remove, and configure scanners and cameras.	*



Cummins Confidential

Back to Agenda Innovation You Can Depend On

### **Roll Back Option – Windows XP**

🐞 Add or Rei	move Programs			
5	Currently installed programs and updates:	Sort by: Name		~
Change or Remove	Eaton MD-131-W RP1210A Driver	Size	0.28MB	^
Programs	Click here for support information.	Used	rarely	
1	To change this program or remove it from your computer, click Change or Remove.	Change	Remove	
Add New	Adobe Reader 8	Size	78.82MB	
Programs	Conexant HD Audio	Size	0.63MB	
G	Cummins Inc. Update Manager	Size	4.19MB	
Add/Remove	Cummins INLINE 5			
Windows Components	Cummins PowerSpec 4.2.3	Size	15.96MB	
Set Program Access and Defaults				X
				~



### **Roll Back Option – Windows XP**

🐻 Add or Re	move Programs				$\mathbf{X}$
	Currently installed programs and updates:	Show up <u>d</u> ates	s <u>S</u> ort by: Name	•	~
Change or	WITH QUICK LOUND DUCTIONS 0. 10 HZ		Size	18.3448	~
Programs	Q HP QuickPlay 2.3		Size	5.96MB	
	P Rhapsody		Size	25.76MB	
<u></u>	🔮 HP Update		Size	3.68MB	
Programs	滑 HP User Guides 0031		Size	0.04MB	
-	MP Wireless Assistant 2.00 G2		Size	1.38MB	
	E INSITE		Size	383.00MB	≡
Add/Remove Windows	INSITE 7.5.1		Installed On	7/29/2011	
Components	Click here for support information.				
	To remove this update from your computer, click Remov	e.		Remove	D
Set Program	INSITE Fault Viewer		Size	5.62MB	
Access and Defaults	🛜 ISO Recorder		Size	0.61MB	
Derdans	é J2SE Runtime Environment 5.0 Update 6		Size	152.00MB	
	🕞 Macromedia Flash Player 8		Size	1.48MB	
	🕞 Macromedia Shockwave Player		Size	9.17MB	
	🖉 Microsoft .NET Framework 1.1				
	🕞 Microsoft .NET Framework 1.1 Hotfix (KB928366)				
	🕞 Microsoft .NET Framework 2.0		Size	88.38MB	~



Cummins Confidential

# **Roll Back Option Wrap Up**

 INSITE[™] provides the capability to roll back to the previous version



Cummins Confidential

Innovation You Can Depend On

**Back to Agenda** 

You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





#### **INSITE™ Trip Information**

**Electronic Service Tools** 

Innovation You Can Depend On[™]

# **Trip Information**

- Trip Information continuously monitors and records engine operating data that tracks engine and driver performance
- Stored data can be viewed using INSITE™
  - Live module
  - Exported ECM Image
- Parameters are grouped differently, according to the ECM
- Not all ECMs list the same parameters





<u>Eile E</u> dit <u>V</u> iew <u>T</u> o	pols Manage License(s) Window Help
0000	₽   ♣ Q,   ₩   1 ⁰ <i>\$</i> ⁰   40 <i>#</i> ≅   5, E Y   1 ⁰   # () >    = # B   2 ⁰
Disconnect from	Name ECM Value Units
! ECM	Signature/ISX - CM870
	CM870
Fault Codes	All Trips (Cumulative)
	Trip Since Last Reset
Data	
	If "All Trips (Cumulative)" is
ECM Diagnostic	expanded ECM Values will be shown
Tesis	
Advanced ECM	for the life of the ECM
Data	
Features and	
Parameters	If "Trip Since Last Reset" is expanded,
	narameter values for that FCM are shown
	parameter values for that ECM are shown
	since the last time the ECM was reset
Work Orders	
Trip Information	
Inquire Data	
Extraction	
1	
OBD Monitors	
	-
Connected to ECM.	RP1210A (J1939) Firmware: 6.40
007 4/00/	2014 Cumming Confidential Innovation You Can Depend On



## **Trip Information: Trip Fuel Report**

- A Trip Fuel Report is a condensed list of fueling parameters
- Available on any engine that supports Trip Information
- Can only be Printed from this view





Disconnect from	Name	ECM Value	Units	
ECM	Signature/ISX - CM870			
9	- ⊕ CM870			
Fault Codes	and a second se			
	- ⊟ th Distance	1		
Data Monitor/Looper	Total ECM Distance     Trip Fuel Report	220014.6	mi	
o nanatar coyya	Total Engine Brake Distance	2.0	mi	
ECM Diagnostic	Total Engine Distance	220120.4	mi	
Tests	Total Service Brake Distance	1525000.0	mi	
Advanced ECM	E Sed			
M Data	Total Cruise Control Fuel Used	0.1	gal	2
Enderson and	Total Fuel Used	500000.0	gal	Find
Parameters	Total Gear Down Fuel Used	500000.0	gal	Emand
	Total Idle Fuel Used	500000.0	gal	Collapse
Calibration	Total Loaded PTO Drive Fuel Used	10000.0	gal	
	Total Maximum Accelerator Vehicle Speed Fuel Used	0.1	gal	Trip Fuel Report
Work Orders	Total PTO Drive Fuel Used	10000.0	gal	Reset
	Total PTO Fuel Used	5000.0	gal	Refresh +
Trip Information	Total Top Gear Fuel Used	500000.0	gal	
The momadon	-		1	
	PTO Device 1	Device 1		
Audit Trail	PTO Device 2	Device 2		
	PTO Device 3	Device 3		
Extraction	PTO Device 4	Device 4		
	PTO Device 5	Device 5		
OBD Monitors	PTO Device 6	Device 6		
	PTO Device 7	Device 7		Or Altornate Click
	PTO Device 8	Device 8		Or Aller nulle Click
	-B ^C Fuel			and select
	PTO Device 1 Total Fuel Used	21	gal	
	PTO Device 2 Total Fuel Used	22	gal	1 Trip Fuel Report
	PTO Device 3 Total Fuel Used	23	gal	
	PTO Device 4 Total Fuel Used	24	gal	
	PTO Device 5 Total Fuel Used	25	gal	
	PTO Device 6 Total Fuel Used	26	gal	
	PTO Device 7 Total Fuel Used	27	gal	
	PTO Device 8 Total Fuel Used	28	gal	
	-= 🗳 Time			

Cummins Confidential

Innovation You Can Depend On

Non I X Ba an	ANDROSERVESAL	18 R D			
A. A. U		-HE ED IN	Linite		
Disconnect from	Name Simplify ONS	ECM Value	Units		
	Signature/ISX - CM870				
Eault Codes	CM870				
¥	Distance	Click	on the "	Print"	button to
Data		15			
Monitor/Logger	Inp Distance	<b>print</b>	a copy of	f parai	neters —
DICH Demote		istad	on the se	-	
Tests	PTO Fuel Used	200 115184	on the st	reen	
	The Average Fuel Economy	12.00	mp9		
Advanced ECM Data	Trip Drive Average Fuel Economy	12.700	mpg		
	Trip Fuel Used	500000.0	gai	Fin	d
Features and	The Fuel Used	500000.0	gai	Exp	and
r'arameters	B Number of Condition Descriptions	100		Col	llapse
Calibration	Number of Sudden Decelerations	128		V Trip	p Fuel Report
Selection	Service Brake Actuations	25000			
2	Trip Average Vehicle Speed	/5	mph	Res	iet i
Work Orders	Inp Maximum Engine Speed	4000	RPM	Ne	HDU Y
121	I Inp Maximum Vehicle Speed	127	mph		
Trip Information					
-	Percent Time at Idle	20.5	Percent		
Audit Trail	Percent Time in Cruise Control	62.4	Percent		
<b>a</b>	Percent Time in PTO	83.8	Percent		
> Inquire Data	Percent Time in Top Gear	77.8	Percent		
Extraction	C PTO Time	5000.0	hrs		
1	Trip Idle Time	5965.2	hrs		
OBD Monitors	Trip Time	5965.2	hrs		
			A lists	lterna the Tr	te Click now ip Fuel Report

# **Trip Information**

Trip Information may be printed when connected to the ECM or Image

- Tool Bar Printer Icon
- File  $\rightarrow$  Print

ngine Serial Humber :10101010 ustomer Unit Humber :623 ork CrSer Name :NA		the management	INSITE 0.0.40 Company Name (Comming Inc ECH Inape Name (S
Name	ECMValue	Units	
Skpature/EX - CME/0			
CME70			
All Trips (Currulative)			
- Cistance			
Total ECM Distance	220014.6	m	
Total Engine Brake Distance	2.0	m	
Total Engine Distance	220120-4	m	
Total Dervice Brake Detance	1525000.0	m	
- 🗃 🚵 Fuel Used			
Total Cruise Control Fuel Used	0.1	gal .	
Total Fuel Used	500000.0	gal	
Total Gear Down Fuel Used	500000.0	asi	
Total Idle Fuel Used	500000.0	ad	
Total Loaded PTO Drive Fuel Used	10000.0	ani	
Total Maximum Accelerator Vehicle Boend Fuel Used	0.1	ari	
Total PTO Drive Fuel Used	10000.0	and .	
Tatal PTO FuelUsed	5000.0	gal	
Tatal Tap Gear Fuel Used	500000.0	gai .	
PTO Device 1	Device 1		
PTO Device 2	Device 2		
PTO Device 3	Device 3		
PTO Device 4	Device 4		
PTO Device 5	Device 5		
PTO Device 6	Device 6		
PTO Device 7	Device 7		
PTO Device II	Device 8		
-C S Fud			
PTO Device 1 Total Fuel Used	21	pel .	
PTO Device 2 Total Fuel Used	22	and .	

01:51:47 #M

Fage 1 of 7

17-Dec-2013



# **Trip Information Wrap Up**

-Allows the user to view ECM Values for multiple time periods:

- Lifetime of the ECM
- Since the Trip Information was last reset
- -Trip Fuel Report will display all fuel related parameters for the above time periods
- –INSITE[™] allows the user to print these screens



You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





#### **INSITE™ Work Orders**

**Electronic Service Tools** 

Innovation You Can Depend On[™]

- A Work Order is the top level identifier that contains the ECM image(s). Work Orders can be used for tracking vehicle and equipment repair history.
- An Image is a copy of the ECM data
- Work Orders may contain multiple Images
  - By default, an "Initial" image is created when connecting to an ECM with the Work Order Mode enabled
  - By default, a "Final" image is created when disconnecting from an ECM with the Work Order Mode enabled
  - Additional "User" images may be created under each Work Order while connected to the ECM
- Work Orders can be created automatically by INSITE[™] or manually by the user



To have INSITE[™] automatically create Work Orders when connecting and disconnecting:

Select Tools  $\rightarrow$ Options  $\rightarrow$  Work Orders

 Select "Enable Work Order Mode"

By default this feature is Enabled when INSITE[™] is installed.





- When connected to an ECM, only Work Orders compatible with that ECM serial number will be displayed
- Disconnect from an ECM to view all Work Orders
- Work Order and Image names are defaulted to a Date – Time format (i.e. WO-20041027-145950 = 10/27/2004-2:59:50). These names can be changed at the time of creation or under the Work Order properties to help identify the specific customer, vehicle or equipment



- With Work Order Mode enabled and no compatible Work Orders exist, a New Work Order dialog will be displayed after connection to the ECM
  - Enter the Work Order Number, Image Name and Select OK
  - If you do not wish to create a new Work Order, select Cancel

New Work Order		x
		^
Vork Order		
😑 Engine Information		
🖕 ECM Serial		
🖱 Number	0110031812	
📥 Make	CMMNS	Ξ
🗕 🚵 Model	Signature/ISX - CM870	
🔄 🔈 Serial Number	10101010	
🖙 Image-CM870 [0]		
🔤 🚵 File Location	C:\Intelect\INSITE\WorkOrder s\SI-20131217-140010090	
— 🔪 Image Name	SI-20131217-140010090	
— 🔈 Start Repair Date	17-Dec-2013 02:00:10 PM	
🔄 🔈 System Type	Initial	
👳 Summary Information		
🗕 🔪 Customer Contact	Columbus, IN	
— 🔪 Customer Name	Customer	
🔪 Last Modified		
echnician's Note		
Print	OK Cancel Help	



Innovation You Can Depend On

280

- With Work Order Mode enabled and compatible Work Orders exist, the New/Activate Work Order dialog will be displayed after connection to the ECM
  - Select New to create a new Work Order
  - OR: Select one of the compatible Work Orders in which to create a new Image and select OK
    - Enter the Image Name and confirm the creation by selecting OK
    - OR: Select Cancel if you do not wish to create an Image

Work Order Mode - New/Activate		C New ICM Image	
Work Order Mode is currently enabled. Select the "New" butt create a new work order, or activate one of the following wo	on to rk	- & File Location	C1Intelect/INSITE:WorkOrders/SI -20131217-140150826
orders by selecting the "OK" button.		📃 🔨 İmage Name	SI-20131217-140150826
Work Orders/ECM Images		Start Repair Date	17-Dec-2013 02:01 50 PM
WORK Orders/LC/Minnages		📃 📥 System Type	Initial
= 🧐 SW-20131217-140010			
-E Image-CM870 [0]			
SI-20131217-140010090			
,		Tedrivolaris Mote	
New OK Hele			
		in the second second	
			Cancar Nep
		 Innovation Vou	



#### Manually creating New Work Orders

Select File → New → Work Order...





Innovation You Can Depend On

Manually creating New ECM Image

- Select File → New → ECM Image...
- The new Image will be created in the Active Work Order





- Each image can be exported for use in two ways:
  - Exported as an INSITE compatible file, .eif (exported image file) to be imported by another user with INSITE
  - To an external file, "Image Name.csv" (Comma Separated Value)
    - This format can be opened with Excel, Word, Notepad, etc.
- All Work Order images can be exported using the right-click menu and selecting the 'Export All Images' option. Highlight the Work Order image and right-click to export all images







Cummins Confidential

- Importing an Image
  - Alternate Click in the Work Order area and select Import Image
  - Select the Image to be imported
- Opening an Image
  - INSITE's exported ECM images (.eif) can be opened by double clicking .eif file
  - INSITE[™] will open, import the image, and automatically connect to it
    - If INSITE[™] is already open, the ECM image will be imported but not automatically connected
- Convert to a Template
  - Alternate Click on the Image and select Convert to Template
  - Templates provide a means of configuring multiple ECM's with the same base parameter settings



#### **Printing ECM Images**

- Select the ECM Image
  - Select File  $\rightarrow$  Print
  - OR: Alternate right click Print ECM Image(s)

	Print ECM Images	×
Select single features with (- >) or all with (- >>)	Features Anti-Theft Protection Audit Trail Data Monitors Duty Cycle Monitor Engine Abuse History Engine Protection Engine Torque History Fault Codes Fault Snapshot Features and Parameters Maintenance Monitor Multi Level ECM Security	->
Select Tool Display for Graphical print or Text Only Format	Other (Smart) Devices PowerSpec Enable and Password CAE: 1000 Multiplement Endt Data Please select the Features desired for printout. © Tool Display Format © Text Only Format	OK Help Cancel



Innovation You Can Depend On

## **Templates**

Templates can be created from an ECM Image to allow transferring the same Feature and Parameter setup from that Image to multiple ECMs

- Select Image then select File  $\rightarrow$  Convert  $\rightarrow$  ECM Template

INSITE 8.0.0.402 - Signat	ure/ISX - CM870 - Engine Serial Number - 1	0101010 - ECM Code - AB10040.0	00				×
Se File Edit View Too	ols Manage License(s) Window Help						- # X
0000		BBY D #0.	11 = 48 日日				
Disconnect from	Work Orders/ECM Images	System Type	Customer Name	Vehicle Unit Number	Engine Serial Number	Start Repair Date	Last
~ ECM	FO SW-20131217-140010	Signature/ISX-CM870	Customer	623	10101010	17-Dec-2013 02:00:10 PM	17-D
0.0	¹ ≡ Image-CM870 [0]						
Fault Codes	BSI-20131217-140150826	Initial					17-D
	SI-20131217-140010090	Initial		Conne	ct to Image	-	17-D
Monitor/Logger				Conve	rt to Template(s)		
Torra De la companya				1	Image(c)		
Tests	\ OR Select		Altorna	Export Export	All Images		
			Alterna	Export	Image(s) to External File		
Data	│ <b>∖∣ Convert</b>	Click	and sele	ect / Print E	CM Image(s)		
- Colored			nvort to	Delete	Image(s)		
Parameters				Proper	ties		
	Template	ll Ter	mplate(s	e tope	043		
Selection							
1							
Work Orders			0.000				
	14U	a water in points and		nout to the process			•
Trip Information	ECM Template System Type	Module Type System Co	mment	Date And Time Origin			
Audit Trail							



## **Templates**

To send a template to an ECM, select the Template:

- Select File $\rightarrow$ Send To $\rightarrow$ ECM.
--------------------------------------------------------



summi
### **Templates**

#### **Template Report**

- Ability to report which parameters were not able to be written to ECM
- User can use this to setup the vehicle accordingly

#### **Calibration Conflict Warning**



Please note that the template has already completed compatible changes to the connected ECM.

The following data cannot be set in the ECM because the associated features and parameters have not been enabled or there are differences in the ECM calibrations.

Select  $\ensuremath{\mathsf{Print}}$  to print the list of Features and Parameters that will not be adjusted by the template.

Select OK to continue.

Print

#### Features and Parameters

Road Speed Governor \ Road Speed Governor Feature Enable

Switched Maximum Engine Operating Speed

Trip Information \ Trip Information Feature Enable

OK



Innovation You Can Depend On

### Work Order Wrap Up

- A Work Order is the top level identifier and can contain multiple ECM Images
- Only compatible Work Orders are displayed when connected to an ECM. All Work Orders will display when not connected
- Work Order Mode is defaulted ON and can be used to create Initial and Final Images upon Connect and Disconnect respectively
- Images can be converted to Templates to allow the Features and Parameters from that Image to be transferred to other ECMs



You have concluded this section of the training.

Please click to the next slide and continue or <u>Click Here</u> to return to the Table of Content.





#### **Cummins® Inc. Update Manager**

**Electronic Service Tools** 

Innovation You Can Depend On[™]

### Cummins[®] Inc. Update Manager Overview

■ Provides up-to-date information for INSITE[™]

- Fault Information System (FIS) files
- Help and Manual files
- Feature Packs
- Service Packs
- Provides an Automatic Update Notification Alert when updates are available through the internet





# Automatic Update Notification

The Automatic Update Notification Alert will display at a specified day and time if updates are available

Choose "Remind Me In" or "Select and Install Updates"



Cummins Inc. Up	odate Mana	ger	X
	3 Hours		_
Updates	1 Day		
	3 Days		
Remind Me In	1 Week	~	
Select and I	1 Week	×	



## **Check for Updates Manually**

- Updates can be manually checked through the following:
  - INSITE > Help > Check for Updates
  - Open the Cummins Inc Update Manager and click on "Get Updates" button in the lower left part of the window.



#### **Message Box**

Messages			Opdate Options About Help
Velcome to the Cummins Inc.	Update Manager		
Available Updates		Update Fro	om Internet
INSITE	Install All		
🗉 🗹 INSITE FIS Files			
🗉 🗹 INSITE Help Files	$\mathbf{X}$		
🗉 🗹 INSITE Manual Files			
	I his is a notifi	cation	
	field which displ available infor	ays new mation	
Currently Selected Update Siz	e:		
Total Update Size:			
	۲		

### **Get Updates From Internet/CD**

Cho Inte Oth	ose Update from rnet, Update from er, or CD/DVD option		U	pdate Options About Help
	Available Updates		Update From Inter	net 🔻
		stall All		
	INSITE FIS Files			
	✓ ISB6.7 CM2350 B101			
	ISB6.7, ISC8.3, ISL9, ISX12/ISX11.9, and ISX	SX15		
	ISF2.8 CM2220 EC; ISF2.8 CM2220 ECF2; I CM2220 AN; ISF3.8 CM2220; ISF3.8 CM222 ✓ ISB4.5, ISB6.7, ISD4.5, ISD6.7 CM2150 SN; CM2150 SN; ISM11 CM876 SN; ISZ13 CM21 and ISB6.7 CM2150 SQ	ISF2.8 20 AN; ; ISL8.9 2150 SN;		
	✓ ISF2.8 CM2220 IAN			
	✓ ISF3.8 CM2220 IAN			
	V ISL G CM2180		Select Get	Updates
	✓ ISL9 CM2350 L101	<b>_</b>		
	Currently Selected Update Size:			
	Total Update Size:			
		<b>0</b>		



## **Checking for Updates - Internet**

Cum	mins Inc. Update Manager				
				Update	Options About Help
Me	ssages				
Weld	come to the Cummins Inc. Update Manag	ger			
Ava	ailable Updates			Update From Internet	-
	NSITE	Install All			
	INSITE FIS Files		ſ		
	INSITE Help Files				
Œ	INSITE Manual Files				
Cun	rently Selected Update Size:				
Tota	al Update Size:				
	6				
	(	<b>)</b> (			



#### Available Updates – Install All INSITE Updates

Messages Velcome to the Cummins Inc. Update Manager						
Available Updates				Update From In	ternet	•
	Install All	<u>&gt;</u> IN:	SITE FIS Files			
INSITE FIS Files		_				
ISB6.7 CM2350 B101				_		
✓ ISB6.7, ISC8.3, ISL9, ISX12/ISX11.9, and	ISX15					
<ul> <li>ISF2.8 CM2220 EC; ISF2.8 CM2220 EC;</li> <li>CM2220 AN; ISF3.8 CM2220; ISF3.8 CM</li> <li>✓ ISB4.5, ISB6.7, ISD4.5, ISD6.7 CM2150 S</li> <li>CM2150 SN, ISM11 CM276 SN, IS712 CI</li> </ul>	2; ISF2.8 2220 AN; SN; ISL8.9		Insta	II All av	ailabl	e
and ISB6.7 CM2150 SQ	VIZ 100 SIN,			4		_
ISF2.8 CM2220 IAN			upda	tes		
ISF3.8 CM2220 IAN						
ISL G CM2180						
ISL9 CM2350 L101		~				
Currently Selected Update Size:						
Total Update Size: 58.9 MB						



#### **Available Updates Expanded**

Messages Velcome to the Cummins Inc. Update Manager	
Available Updates	Update From Internet
INSITE Install All	
INSITE FIS Files	
ISB6.7 CM2350 B101	
ISB6.7, ISC8.3, ISL9, ISX12/ISX11.9, and ISX15	
ISF2.8 CM2220 EC; ISF2.8 CM2220 ECF2; ISF2.8 CM2220 AN; ISF3.8 CM2220; ISF3.8 CM2220 AN; ✓ ISB4.5, ISB6.7, ISD4.5, ISD6.7 CM2150 SN; ISL8.9 CM2150 SN; ISM11 CM876 SN; ISZ13 CM2150 SN; and ISB6.7 CM2150 SQ	Install updates individually by expanding + and select
✓ <del>4GF2.8 CM2220</del> IAN	the desired undetee
ISF3.8 CM2220 IAN	the desired updates
ISL G CM2180	
ISL9 CM2350 L101	<u> </u>
Currently Selected Update Size:	
Total Update Size: 45.6 MB	



#### **Select Available Updates**

Messages Welcome to the Cummins Inc.	Update Manager		
Available Updates		Update Fro	om Internet
	📃 Install All 🔥		
🗉 🔳 INSITE FIS Files			
✓ ISB6.7 CM2350 B10	1		
✓ ISB6.7, ISC8.3, ISL9	), ISX12/ISX11.9, and ISX15		
of CM2220 AN; ISF3.8 CM2220 AN; ISF3.8 ISB4.5, ISB6.7, ISD4 CM2150 SN; ISM11 and ISB6.7 CM2150	ISF2.8 CM2220 ECF2; ISF2.8 CM2220; ISF3.8 CM2220 AN; I.5, ISD6.7 CM2150 SN; ISL8.9 CM876 SN; ISZ13 CM2150 SN; SQ		
S ISF2.8 CM2220 IAN			
ISF3.8 CM2220 IAN			
ISL G CM2180			
ISL9 CM2350 L101	<u>~</u>	Select Ins	stall
Currently Selected Update Siz	e: 4.8 MB		
Total Update Size: 13.7 MB			

### **Download Status Information**



#### **Installation Status Information**

Once the installation is complete, the installation status will be displayed.

If the installation is successful, "Installation Successful" will be displayed.

If the installation is not successful, "Installation Failed: Error XX" will be displayed along with an error code.

#### 🗲 Update Status 👘

Download Rate: -	Pause All Downloads	
ISB6.7, ISC8.3, ISL9, ISX11.9, and ISX15	Queued for Download	
ISC, QSC8.3, and ISL	Queued for Download	
F2.8 CM2220 E, ISF2.8 CM2220 AN, ISF3.8 CM2220, ISF3.8.	Queued for Download	
F2.8 CM2220 E, ISF2.8 CM2220 AN, ISF3.8 CM2220, ISF3.8	Queued for Download	
F2.8 CM2220 E; ISF2.8 CM2220 AN; ISF3.8 CM2220; ISF3.8	Queued for Download	
ISL G CM2180	Queued for Download	
ISM and QSM11	Queued for Download	
ISM CM875	Queued for Download	
ISM with CM870 and CM570	Queued for Download	
ISX CM871 and ISM CM876	Queued for Download	
KTA19GC CM558	Ouward for Download	
stall Status		
Gas Plus	Installation Successful	
GTA8.3 CM558	Installation Successful	
ISB, ISBe2, ISBe3, ISBe4, QSB4.5, QSB5.9, QSB6.7, ISC,	Installation Successful	
ISB, ISC, ISL, ISDe, and QSB3.3	Installation Successful	
ISB5.9 G CM2180	Installation Successful	
	Installation Failed: Error 1002	
	Installation Failed: Error 1002	
	Installation Failed: Error 99	
	Installation Failed: Error 99	



_ 0

x

### **Options Tab – Proxy Settings**

Most users will not have to change the proxy settings.

For other users, the Proxy Settings will have to be entered.

Contact local IT support for help with Proxy settings.

Language Se							
	Select Language	English (Eng	lish)	•			-
Connection S HTTP Proxy Addres	ettings s:						1
Port: HTTP Proxy Usemame: HTTP Proxy Password:		Do Not Use	a Proxy				
			Use System	Default Proxy		30 6	
			🔘 Use Manual	Proxy Settings	Stale .	10	
Connection Type:						S.C.	
High-Speed	(3M) - Allows 4	Active Downl	oads		+		
Scheduled U	pdate Check						
Manua	ły	O Daily	Every	First		Wednesday	
Weekt	1	Monthly	at	11:37:00 AM	A 🕀		



#### **Options Tab – Connection Types**

Connection Type for users who want to vary their connection option.

Language Securitys	Contrat (Con	E-b)				
Select Languag	e English (Eng	usn)	•			100
Connection Settings HTTP Proxy Address:					-	1
		(D) Do Not Line	a Franci		All and a second	12
Port:		D Lo not Use	a ricky		and the second	510
		Use System	Default Proxy		dia Pa	1
HTTP Proxy Deemane:			1999-1999-1997 B		CB N	1
		💮 Use Manual Proxy Settings			0	N. T.
					(3) k	
Connection Type:				_		
High-Speed (3M) - Allows	4 Active Downle	oads		•		
Scheduled Update Check						
Manualy	Daly	Every	First		Wednesday	
Wanth	(D. Monthly)		11-37-00 AM	idi		
and the state of t	C. How will be			121		



#### **Options Tab – Scheduled Update Check**

The default Scheduled Update Check is once a month.

This can be changed to Daily, Weekly, Monthly or Manually.

							-
Language S	Settings	English (Engl	lich)	-1			
Connection	Collinge	English (Engl	nanj				
HTTP Proxy Add	ress					-	
Post		3	💮 Do Not Use	a Proxy	5	a stan	X
			n <mark>e</mark> (marziela)			2.1	VE 4
HTTP Proxy Use	mame:		Use System	Default Proxy		100	A B
HTTP Proxy Pas	sword:		🔘 Use Manual	Proxy Settings		0	
Connection Type	2				-		
High-Spee	d (3M) - Allows 4	Active Downlo	bads		-		
Scheduled	Update Check						
Man	ually	O Daily	Every	First	Ŧ	Wednesday	
Wee	kty	Monthly	at	11:37:00 AM	1		









Cummins Confidential

Innovation You Can Depend On

#### **Help Tab**

Cummins Inc. Update Manager		
	Update Options About Help	>
For assistance please contact the product's Technical support center:		
Cummins Inc. Update Manager	<u>UpdateManagerUserManual.rtf</u>	
INSITE	https://insite.cummins.com	
Cummins INLINE 6	http://inline.cummins.com/	
DESA	https://insite.cummins.com	
ſ		
	The Help Tab provides	
	links to resources for	
	links to resources for	
	information about the	
	listed Tools	
	listed tools	



#### **Help Tab**

#### Cummins® Inc. Update Manager About

The Cummins® Inc. Update Manager provides a means of delivering software, Fault Information System (FIS), Help File, and User Manual updates. Updates can be downloaded over the internet, from a Cummins® DVD or another location such as a network drive or removable media device. Using Cummins Inc. Update Manager is an easy way to keep the electronic service tool and its supporting data as current as possible.

Cummins Inc. Update Manager can be opened manually at any time or it can be configured to issue a reminder at regular intervals.

Note: Files cannot be updated while the application is running. Ensure the application is closed before installing updates.

Perform the following steps to obtain updates:

- 1. Open Cummins® Inc.Update Manager by performing one of the following steps:
  - Within the application, select Help > Check for Updates
  - From the Windows Start menu, select All Programs > Cummins® Inc. Update Manager
  - When the Cummins Inc. Update Manager reminder window opens, click on the Select and Install Updates link.
- Select Update From Internet, Update From DVD or Other from the drop-down menu at the top of the screen.
- 3. Select the Get Updates button.
- Cummins Inc. Update Manager will check for updates. This process may take several minutes. A rotating globe will appear in the upper right-hand corner of the screen.
  - If updating from the internet, Cummins Inc. Update Manager will connect to a Cummins® web server and compare the applications version and files on the PC to the files on the server.
  - If updating from a DVD, Cummins Inc. Update Manager will compare the applications version and files on the PC to the files on the DVD.
  - If updating from a network drive, when Other is selected, a window will open to enter or Browse to another location for the update files. Cummins Inc. Update Manager will compare the applications version and files on the PC to the files on this location.
- 5. If updates are available, they will be listed in the window pane under Available Updates.
- 6. Select the desired updates by either highlighting the item or clicking on its checkbox. When an item is selected, its description is displayed on the right-hand side of the screen. The Total Update Size of all selected items is displayed in the lower left-side of the screen below Currently Selected Update Size. Click on an item again to deselect it.

Selecting the top level box will also select all updates listed below it. Clicking on the * will expand the listing.

- 7. Once the desired updates have been selected, click on Install.
- Cummins Inc. Update Manager will start downloading the selected updates. Depending on the total update size and the speed of the internet connection, this may take several minutes. Cummins Inc. Update Manager will display a progress bar.
- 9. Once the updates have been downloaded, Cummins Inc. Update Manager will install the updates.



Cummins Confidential

#### Innovation You Can Depend On

#### Cummins® Inc. Update Manager Wrap Up

- Provides up-to-date Fault Information System (FIS) files, Help files, Feature Packs and Service Packs
- Automatic Update Notification
- Scheduled update checks



You have concluded this training package. Click Here to return to the Table of Content.

