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CONCERN DRIVEN REPORTING (CDR)

The CDR system is a database which receives a nightly feed of data from multiple Ford systems. Three of these systems which provide a nightly feed to CDR are:

- Global Contact Center Technology (GCCT) system or “OWNER REPORTS”
- Common Quality Indicator System (CQIS) or “FIELD REPORTS”
- Global Quality Research System (GQRS/MGQRS) or “QUALITY REPORTS”
- Ford's Global System for Analytics and Reporting (GSAR) or “WARRANTY”

The CDR system created a common data repository to house reports across different systems. To do this, CDR uses both structured and unstructured data. The structured data is used to map from the Source system codes to the CDR commodity codes.

- GCCT - Symptom Code to CDR commodity
- CQIS/GCQIS - Symptom Code to CDR Commodity
- GQRS/MGQRS - Symptom Code to CDR Commodity
- GSAR - Warranty Classification Code (WCC) to CDR Commodity

CDR Commodity Codes are hierarchical codes with up to 5 levels depending on the commodity.

Two examples are:

- Body – Glass – Backglass - Heated backglass elements
- Chassis - Service Brakes - Air Brake System

Once the structured mapping is completed, CDR then text mines the unstructured data to further qualify the commodity levels within the commodity main level. In addition, CDR uses text mining to assign a CDR symptom(s) to the report.

Two examples are:

- Air in system
- Battery - dead / weak

CDR also utilizes text mining to flag reports for review for the five TREAD significant events of: Fatality - Personal Injury – Fire – Rollover - Property Damage where appropriate.

In responding to this information request, Ford electronically searched the CDR database using the following criteria for subject vehicles:

Selection Summary

make	Ford LM;
vehicle line	FUSION; MKZ;
vehicle prod date	2013-11-01; 2015-04-27;
country code	ASM; GUM; MNP; PRI; USA; VIR;
commodity category	body;
commodity level1	locks/latches;
commodity level2	door;
source system key	AP; AW; CQ; CT; CU; DU; FM; GQ; LM; LW; QF; ST; VO; VP; WL;
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total

Selections	body - locks/latches -> Total
Selection Summary	
make	Ford LM;
model year	2015; 2014;
vehicle line	FIESTA;
vehicle prod date	2013-11-01; 2014-12-04;
commodity category	body;
commodity level1	locks/latches;
commodity level2	door;
source system key	AP; AW; CQ; CT; CU; DU; FM; GQ; LM; LW; QF; ST; VO; VP; WL;
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total

Reports were then filtered for vehicles manufactured for sale or lease in the United States, District of Columbia, Puerto Rico, Northern Mariana Islands, Guam, American Samoa and the Virgin Islands. Reports were filtered to remove vehicles remedied under recall 20V-177 (20S15 or 20R01). The remaining reports were reviewed manually for relevance.

A more detailed explanation of the source systems listed is provided below.

OWNER REPORTS

As the agency is aware, within FCSD's North American Customer Service Operations, there is a Customer Relationship Center (CRC) that is responsible for facilitating communication between customers, dealerships and Ford Motor Company. Among other things, the CRC handles telephonic, electronic, and written inquiries, suggestions, informational requests, and concerns ("contacts") from Ford and Lincoln-Mercury vehicle owners about their vehicles or sales and service experience. The contacts are handled by CRC customer service representatives who enter a summary of the customer contact into a database known as GCCT (formerly FMC360).

The CRC assigns to each vehicle-related contact report a "symptom code" or category that generally characterizes the nature of the customer contact or vehicle concern, as described by the owner. The CRC does not undertake to confirm the accuracy of the description provided by the owner; they simply record what is reported. Therefore, given the complexity of the modern motor vehicle, it is Ford's experience that a significant percentage of owner contacts do not contain sufficient information to make a technical assessment of the condition of the vehicle or the cause of the event reported. Accordingly, although owner contact reports may be useful in identifying potential problems and trends, the records are not the empirical equivalent of confirmed incidents and/or dealership's diagnosis. In the interest of responding promptly to this inquiry, Ford has not undertaken to gather the electronic images related to these contacts because of the largely duplicative nature of the information contained in the images, as well as the time and the burden associated with locating and producing those documents. The pertinent information related to those contacts generally would be included in the contact reports obtained from the GCCT system. To the extent that those documents exist, they are characterized in the comments of GCCT contact reports. Upon request, Ford will attempt to locate any specific items that are of interest to the agency.

LEGAL CONTACTS

Beginning in early 2008, most consumer complaints and all legal claim processing has been centralized in Ford's Office of the General Counsel within the Consumer Litigation team. A transition has occurred such that all legal contacts (including those formerly handled by "Litigation Prevention") are coordinated through this team.

Prior to the transition, there was a Consumer Affairs Department within FCSD that managed customer concerns which could not be resolved by the Customer Relationship Center (CRC). Among other things, the Consumer Affairs Department had a section, known as "Litigation Prevention," that handled a variety of informal (i.e., non-litigation) claims, such as property damage claims or attorney demand claims.

The Litigation Prevention section had been centralized in the Consumer Affairs Department since 1995, in Dearborn, Michigan. Prior to that time, Litigation Prevention personnel operated on a regional basis. For matters that the Litigation Prevention section handled, there were typically paper files that reflected the handling, investigation and resolution of property damage claims.

The claims, known as "Legal Contacts," are entered into the GCCT database the CRC uses to enter other customer communications. When a customer contact is designated as a Legal Contact, it is so indicated near the top of the contact report.

FIELD REPORTS

Within FCSD, there is a Vehicle Service & Programs Office that has overall responsibility for vehicle service and technical support activities, including the administration of field actions. That Office is the primary source within Ford of vehicle concern information originating from Ford and Lincoln-Mercury dealerships, field personnel, and other sources. The information is maintained in a database known as the Common Quality Indicator System (CQIS). The CQIS database includes reports compiled from more than 40 Company sources (e.g., Company-owned vehicle surveys, service technicians, field service and quality engineers, and technical hot line reports, etc.) providing what is intended to be a comprehensive concern identification resource. As with GCCT contact reports, CQIS reports are assigned a "symptom code" or category that generally reflects the nature of the concern.

QUALITY REPORTS

The Global Quality Research System (GQRS) contains results from customer surveys performed by JD Powers. The Management Global Quality Research System (MGQRS) contains results from customer surveys obtained from Ford employees participating in the Ford Management Lease Program.

FIELD REVIEW COMMITTEE

Ford's Field Review Committee reviews all potential field service actions, including safety recalls and customer satisfaction programs, and recommends appropriate actions to corporate management. A Vehicle Service & Programs representative serves as Secretary to the Field Review Committee. Following approval of a field service action, the Vehicle Service & Programs Office prepares and launches the action. A representative copy of the communication to Ford's dealers, fleets, and Regional offices announcing the field service action is maintained in the Field Review Committee files.

WARRANTY

Ford's Global System for Analytics and Reporting (GSAR), formerly Analytical Warranty System (AWS), contains warranty claims and vehicle information for model years 1991 and

forward for North America, and model years 1992 and forward for Europe.

CONCERN DRIVEN REPORTING (CDR)

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The CDR system created a common data repository to house reports across different systems. To do this, CDR uses both structured and unstructured data. The structured data is used to map from the Source system codes to the CDR commodity codes.

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CDR Commodity Codes are hierarchical codes with up to 5 levels depending on the commodity.

Two examples are:

- Body – Glass – Backglass - Heated backglass elements
- Chassis - Service Brakes - Air Brake System

Once the structured mapping is completed, CDR then text mines the unstructured data to further qualify the commodity levels within the commodity main level. In addition, CDR uses text mining to assign a CDR symptom(s) to the report.

Two examples are:

- Air in system
- Battery - dead / weak

CDR also utilizes text mining to flag reports for review for the five TREAD significant events of: Fatality - Personal Injury – Fire – Rollover - Property Damage where appropriate.

In responding to this information request, Ford electronically searched the CDR database using the following criteria for subject vehicles:

Selection Summary

source system key	AP; AW; CQ; CT; CU; DU; FM; GQ; LM; LW; QF; ST; VO; VP; WL;
make	Ford LM;
model year	2014; 2013; 2012; 2011;
vehicle line	FIESTA;
commodity category	body;
commodity level1	locks/latches;
commodity level2	door;
country code	ASM; GUM; MNP; PRI; USA; VIR;
date	2015-04-23; 2021-06-03;
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total

Selection Summary	
source system key	AP; AW; CQ; CT; CU; DU; FM; GQ; LM; LW; QF; ST; VO; VP; WL;
make	Ford LM;
model year	2014; 2013;
vehicle line	FUSION; MKZ;
commodity category	body;
commodity level1	locks/latches;
commodity level2	door;
country code	ASM; GUM; MNP; PRI; USA; VIR;
date	2015-04-23; 2021-06-03;
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selection Summary	
make	Ford LM;
vehicle line	FOCUS;
commodity category	body;
commodity level1	locks/latches;
commodity level2	door;
source system	AP; AW; CQ; CT; CU; DU; FM; GQ; LM; LW; QF; ST; VO; VP; WL;
date	2016-09-02; 2021-06-03;
vehicle prod date	2010-08-01; 2015-01-31;
model year	2015; 2014; 2013; 2012;
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selection Summary	
make	Ford LM;
commodity category	body;
commodity level1	locks/latches;
commodity level2	door;
source system	AP; AW; CQ; CT; CU; DU; FM; GQ; LM; LW; QF; ST; VO; VP; WL;
date	2016-09-02; 2021-06-03;
model year	2015; 2014; 2013; 2012;
vehicle line	ESCAPE;
vehicle prod date	2011-10-05; 2015-01-31;
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total

Selections	body - locks/latches -> Total
Selection Summary	
make	Ford LM;
commodity category	body;
commodity level1	locks/latches;
commodity level2	door;
source system	AP; AW; CQ; CT; CU; DU; FM; GQ; LM; LW; QF; ST; VO; VP; WL;
date	2016-09-02; 2021-06-03;
model year	2015;
vehicle line	MKC;
vehicle prod date	2013-08-20; 2015-01-31;
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selection Summary	
make	Ford LM;
commodity category	body;
commodity level1	locks/latches;
commodity level2	door;
source system	AP; AW; CQ; CT; CU; DU; FM; GQ; LM; LW; QF; ST; VO; VP; WL;
date	2016-09-02; 2021-06-03;
model year	2015; 2014; 2013;
vehicle line	C-MAX;
vehicle prod date	2012-01-19; 2015-01-31;
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selection Summary	
make	Ford LM;
commodity category	body;
commodity level1	locks/latches;
commodity level2	door;
source system	AP; AW; CQ; CT; CU; DU; FM; GQ; LM; LW; QF; ST; VO; VP; WL;
date	2016-09-02; 2021-06-03;
model year	2016; 2015; 2014;
vehicle line	TRANSIT CONNECT;
vehicle prod date	2013-08-01; 2016-02-01;
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total

Selections	body - locks/latches -> Total
Selection Summary	
source system	AP; AW; CQ; CT; CU; DU; FM; GQ; LM; LW; QF; ST; VO; VP; WL;
make	Ford LM;
model year	2015;
vehicle line	MUSTANG;
vehicle prod date	2014-02-11; 2015-04-30;
commodity category	body;
commodity level1	locks/latches;
commodity level2	door;
date	2016-09-02; 2021-06-03;
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total
Selections	body - locks/latches -> Total

Reports were then filtered for vehicles manufactured for sale or lease in the United States, District of Columbia, Puerto Rico, Northern Mariana Islands, Guam, American Samoa and the Virgin Islands. Reports were filtered to remove vehicles remedied under recall 15V-246 (15S16), 16V-643 (16S30), 17V-210 (15S16), or 20V-331 (20S30). Additionally, reports were filtered to remove vehicles with repair dates prior to the completion of 15V-246, 16V-643, or 17V-210. The remaining reports were reviewed manually for relevance.

A more detailed explanation of the source systems listed is provided below.

OWNER REPORTS

As the agency is aware, within FCSD's North American Customer Service Operations, there is a Customer Relationship Center (CRC) that is responsible for facilitating communication between customers, dealerships and Ford Motor Company. Among other things, the CRC handles telephonic, electronic, and written inquiries, suggestions, informational requests, and concerns ("contacts") from Ford and Lincoln-Mercury vehicle owners about their vehicles or sales and service experience. The contacts are handled by CRC customer service representatives who enter a summary of the customer contact into a database known as GCCT (formerly FMC360).

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Prior to the transition, there was a Consumer Affairs Department within FCSD that managed customer concerns which could not be resolved by the Customer Relationship Center (CRC). Among other things, the Consumer Affairs Department had a section, known as "Litigation Prevention," that handled a variety of informal (i.e., non-litigation) claims, such as property damage claims or attorney demand claims.

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FIELD REPORTS

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FIELD REVIEW COMMITTEE

Ford's Field Review Committee reviews all potential field service actions, including safety recalls and customer satisfaction programs, and recommends appropriate actions to corporate management. A Vehicle Service & Programs representative serves as Secretary to the Field Review Committee. Following approval of a field service action, the Vehicle Service & Programs Office prepares and launches the action. A representative copy of the communication to Ford's dealers, fleets, and Regional offices announcing the field service action is maintained in the Field Review Committee files.

WARRANTY

Ford's Global System for Analytics and Reporting (GSAR), formerly Analytical Warranty System (AWS), contains warranty claims and vehicle information for model years 1991 and forward for North America, and model years 1992 and forward for Europe.

Ford performed a search of GSAR for potentially responsive reports using the following search criteria:

Model Year: 2011-2014

Subject Vehicle: Fiesta vehicles manufactured for sale or lease in the United States, District of Columbia, Puerto Rico, Northern Mariana Islands, Guam, American Samoa and the Virgin Islands.

Date Parameters: April 23, 2015 through June 3, 2021 (the date of this inquiry)

Customer Concern Code:

Customer Concern Code	Customer Concern Code Description
B05	BODY PANEL EXCESSIVE EFFORT TO OPEN
B15	BODY PANEL EXCESSIVE EFFORT TO CLOSE
L01	LATCHING/LOCK
L08	OUTSIDE DOOR HANDLE TROUBLES
L09	LATCH TROUBLES
L12	INTERIOR DOOR HANDLE TROUBLES
L15	OTHER LOCK/MECHANISM TROUBLES
L18	INTERIOR DOOR HANDLES – BROKEN/DAMAGED
L19	WARNING LIGHTS/ALERTS/CHIMES TROUBLES - DOOR

Reports were filtered to remove vehicles remedied under recall 15V-246 (15S16), 17V-210 (15S16), or 20V-331 (20S30). Additionally, reports were filtered to remove vehicles with repair dates prior to the completion of 15V-246 or 17V-210. The remaining reports were reviewed manually for relevance.

Model Year: 2013-2014

Subject Vehicle: Fusion and MKZ vehicles manufactured for sale or lease in the United States, District of Columbia, Puerto Rico, Northern Mariana Islands, Guam, American Samoa and the Virgin Islands.

Date Parameters: April 23, 2015 through June 3, 2021 (the date of this inquiry)

Customer Concern Code:

Customer Concern Code	Customer Concern Code Description
B05	BODY PANEL EXCESSIVE EFFORT TO OPEN
B15	BODY PANEL EXCESSIVE EFFORT TO CLOSE
L01	LATCHING/LOCK
L08	OUTSIDE DOOR HANDLE TROUBLES
L09	LATCH TROUBLES
L12	INTERIOR DOOR HANDLE TROUBLES
L15	OTHER LOCK/MECHANISM TROUBLES
L18	INTERIOR DOOR HANDLES – BROKEN/DAMAGED
L19	WARNING LIGHTS/ALERTS/CHIMES TROUBLES - DOOR

Reports were filtered to remove vehicles remedied under recall 15V-246 (15S16), 17V-210 (15S16), or 20V-331 (20S30). Additionally, reports were filtered to remove vehicles with repair dates prior to the completion of 15V-246 or 17V-210. The remaining reports were reviewed manually for relevance.

Model Year: 2012-2015

Subject Vehicle: Focus vehicles manufactured for sale or lease in the United States, District of Columbia, Puerto Rico, Northern Mariana Islands, Guam, American Samoa and the Virgin Islands.

Date Parameters: September 2, 2016 through June 3, 2021 (the date of this inquiry)

Customer Concern Code:

Customer Concern Code	Customer Concern Code Description
B05	BODY PANEL EXCESSIVE EFFORT TO OPEN
B15	BODY PANEL EXCESSIVE EFFORT TO CLOSE
L01	LATCHING/LOCK
L08	OUTSIDE DOOR HANDLE TROUBLES
L09	LATCH TROUBLES
L12	INTERIOR DOOR HANDLE TROUBLES
L15	OTHER LOCK/MECHANISM TROUBLES
L18	INTERIOR DOOR HANDLES – BROKEN/DAMAGED
L19	WARNING LIGHTS/ALERTS/CHIMES TROUBLES - DOOR

Reports were filtered to remove vehicles remedied under recall 16V-643 (16S30) or 20V-331 (20S30). Additionally, reports were filtered to remove vehicles with repair dates prior to the completion of 16V-643. The remaining reports were reviewed manually for relevance.

Model Year: 2013-2015

Subject Vehicle: Escape and C-MAX vehicles manufactured for sale or lease in the United States, District of Columbia, Puerto Rico, Northern Mariana Islands, Guam, American Samoa and the Virgin Islands.

Date Parameters: September 2, 2016 through June 3, 2021 (the date of this inquiry)

Customer Concern Code:

Customer Concern Code	Customer Concern Code Description
B05	BODY PANEL EXCESSIVE EFFORT TO OPEN
B15	BODY PANEL EXCESSIVE EFFORT TO CLOSE
L01	LATCHING/LOCK
L08	OUTSIDE DOOR HANDLE TROUBLES
L09	LATCH TROUBLES
L12	INTERIOR DOOR HANDLE TROUBLES
L15	OTHER LOCK/MECHANISM TROUBLES
L18	INTERIOR DOOR HANDLES – BROKEN/DAMAGED
L19	WARNING LIGHTS/ALERTS/CHIMES TROUBLES - DOOR

Reports were filtered to remove vehicles remedied under recall 16V-643 (16S30) or 20V-331 (20S30). Additionally, reports were filtered to remove vehicles with repair dates prior to the completion of 16V-643. The remaining reports were reviewed manually for relevance.

Model Year: 2015

Subject Vehicle: Mustang and MKC vehicles manufactured for sale or lease in the United States, District of Columbia, Puerto Rico, Northern Mariana Islands, Guam, American Samoa and the Virgin Islands.

Date Parameters: September 2, 2016 through June 3, 2021 (the date of this inquiry)

Customer Concern Code:

Customer Concern Code	Customer Concern Code Description
B05	BODY PANEL EXCESSIVE EFFORT TO OPEN
B15	BODY PANEL EXCESSIVE EFFORT TO CLOSE
L01	LATCHING/LOCK
L08	OUTSIDE DOOR HANDLE TROUBLES
L09	LATCH TROUBLES
L12	INTERIOR DOOR HANDLE TROUBLES
L15	OTHER LOCK/MECHANISM TROUBLES
L18	INTERIOR DOOR HANDLES – BROKEN/DAMAGED
L19	WARNING LIGHTS/ALERTS/CHIMES TROUBLES - DOOR

Reports were filtered to remove vehicles remedied under recall 16V-643 (16S30) or 20V-331 (20S30). Additionally, reports were filtered to remove vehicles with repair dates prior to the completion of 16V-643. The remaining reports were reviewed manually for relevance.

Model Year: 2014-2016

Subject Vehicle: Transit Connect vehicles manufactured for sale or lease in the United States, District of Columbia, Puerto Rico, Northern Mariana Islands, Guam, American Samoa and the Virgin Islands.

Date Parameters: September 2, 2016 through June 3, 2021 (the date of this inquiry)

Customer Concern Code:

Customer Concern Code	Customer Concern Code Description
B05	BODY PANEL EXCESSIVE EFFORT TO OPEN
B15	BODY PANEL EXCESSIVE EFFORT TO CLOSE
L01	LATCHING/LOCK
L08	OUTSIDE DOOR HANDLE TROUBLES
L09	LATCH TROUBLES
L12	INTERIOR DOOR HANDLE TROUBLES
L15	OTHER LOCK/MECHANISM TROUBLES
L18	INTERIOR DOOR HANDLES – BROKEN/DAMAGED
L19	WARNING LIGHTS/ALERTS/CHIMES TROUBLES - DOOR

Reports were filtered to remove vehicles remedied under recall 16V-643 (16S30) or 20V-331 (20S30). Additionally, reports were filtered to remove vehicles with repair dates prior to the completion of 16V-643. The remaining reports were reviewed manually for relevance.