



DCI Application to Application Screen Specifications

Revision 3.6

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Section 1: Protocol

DCI will provide interface specifications for the tcp/ip protocol in a separate document. There are 2 types of interface protocols: NCIC 2000 and DMPP-2020. DCI will **only** support DMPP-2020 for application to application access. When setting up the connection, DCI will provide a port number, a DNS name in which to make the connection, and a 15 character validation string for each agency making a connection. The agency will have to provide a valid internet address for the message switch so authorization through our firewall can be established.

Section 2: Message Formats

All data that is either sent to or received from the Division of Criminal Information (DCI) computer will have an eight (8) character header (HDR) preceding the data. This header contains the terminal identifier (assigned by DCI) of the originating terminal or the terminal the message is being delivered to and is not delimited by a period as are other fields. The data format for transactions that access DCI, NCIC, DMV, and NLETS (those that use a screen mask) is a fixed-length period-data format. Each field of an input screen mask must be present, in the proper sequence and separated by a period. Trailing spaces in a field may not be omitted. Blank fields must be accounted for by using spaces.

Note: There are 2 transactions which do not follow this format: OPEN and CLOS. These will be defined towards the end Section 3 of this document.

The following is an example of a hazardous materials (MQ) inquiry using a screen mask and the format required when being received by DCI from a remote computer:

Format for the remote computer to send to DCI

ABC*****MQ**.NC0920100.NL.*****.1234 (The asterisks (*) represent spaces)

Listed below is the field layout for the example above.

1	MKE ('MQ')	(Mandatory)	2
2	ORI	(Mandatory)	9
3	DRI ('NL')	(Mandatory)	2
4	CTL	(Optional)	10
5	UNN	(Mandatory)	4

Note: In this example the HDR is a three character terminal identifier and five trailing spaces (no trailing period)

The following pages indicated field layouts and screens that are authorized for tcp/ip application to application devices. No other screens, transactions or formats will be allowed to access DCI.

Section 3: Screen Formats

DCI SCREEN FORMAT - QA

Query Stolen Article (Single and Group)

TYP _____ NIC _____
 SER (or OAN) _____ IND _ RSH _

 DCI FIELD DEFINITIONS FOR SCREEN - QA

Below are the field lengths and the sequence fields must appear. All fields must be the specified length when forwarding to DCI.

	Seq.	Field		Field Length	Possible Values
	----	-----		-----	-----
***	1	MKE	(Mandatory)	2	QA
***	2	ORI	(Mandatory)	9	9 digit ORI
	3	TYP	(Conditional)	7	NCIC data codes
	4	NIC	(Conditional)	10	10 digit NIC number
	5	SER	(Conditional)	41	Serial number or owner applied number
	6	IND	(Optional)	1	Y,N (default blank = N)
	7	RSH	(Optional)	1	Y,N (default blank = N)

*** - This field does not appear on the screen but must be formatted when forwarding to DCI.

Inquiry Options

NI
 C
 or

TYP and SER

DCI SCREEN FORMAT - QBOT

Boat Inquiry

REG _____ State ____

BHN _____

NAM _____

DOB _____

DCI FIELD DEFINITIONS FOR SCREEN - QBOT

Below are the field lengths and the sequence fields must appear. All fields must be the specified length when forwarding to DCI.

Seq.	Field		Field Length	Possible Values
----	-----		-----	-----
*** 1	MKE	(Mandatory)	4	QBOT
2	REG	(Conditional)	8	Registration Number
3	STATE	(Optional)	2	NCIC state codes
4	BHN	(Conditional)	20	Boat Hull Number
5	NAM	(Conditional)	30	Name of boat owner
6	DOB	(Conditional)	8	Date of Birth

*** - This field does not appear on the screen but must be formatted when forwarding to DCI. If a parenthesis follows the FIELD code, the data between the quotes (') must be inserted in the format being sent.

Inquiry Options

BHN
or
REG
or

NAM (NAM and DOB if STATE is used)

DCI SCREEN FORMAT - QDRV

Driver Inquiry

OLN _____ State ____

Driver History _ PUR _

Attention _____

NAM _____

DOB _____ RAC _ SEX _

AGE ____ County _____

City _____

Image Request _

DCI FIELD DEFINITIONS FOR SCREEN - QDRV

Below are the field lengths and the sequence fields must appear. All fields must be the specified length when forwarding to DCI.

Seq. ----	Field -----		Field Length -----	Possible Values ----- *** 1
MKE	(Mandatory)	4	QDRV	
2	OLN	(Conditional)	20	Operator License Number
3	STATE	(Optional)	2	NCIC state codes Default is blank = NC
4	ISS	(Optional)	1	Y,N (default blank = N)
5	PUR	(Optional)	1	NLETS purpose codes
6	ATN	(Optional)	28	Attention field
7	NAM	(Conditional)	35	Name
8	DOB	(Optional)	8	Date of Birth
9	RAC	(Optional)	1	NCIC Race codes
10	SEX	(Optional)	1	NCIC Sex codes
11	AGE	(Optional)	2	Age of person
12	COU	(Optional)	20	County In-state will only accept 5 chars
13	CTY	(Optional)	22	City
14	IMG	(Optional)	1	"Y", "N" (defaulted to "N") NOTE: Image request is ONLY for NC queries using OLN or NAM(no state code

allowed) Image will only be returned for a single hit response.

*** - This field does not appear on the screen but must be formatted when forwarding to DCI.

Inquiry Options

OLN
or
NAM
or

NAM and STATE and DOB and SEX (sent to NLETS)

or

NAM and STATE (sent to NLETS - limited number of states respond to this format)

DCI SCREEN FORMAT - QG

QUERY STOLEN GUN

NIC _____ SER _____ CAL _____
MAK _____ MOD _____ RSH _

DCI FIELD DEFINITIONS FOR SCREEN - QG

Below are the field lengths and the sequence fields must appear. All fields must be the specified length when forwarding to DCI.

Seq. ----	Field -----		Field Length -----	Possible Values -----
*** 1	MKE	(Mandatory)	2	QG
*** 2	ORI	(Mandatory)	9	9 digit ORI
3	NIC	(Conditional)	10	10 digit NIC number
4	SER	(Conditional)	20	Serial number

5	CAL	(Optional)	4	NCIC Caliber codes
6	MAK	(Set)	23	NCIC Make codes
7	MOD	(Optional)	20	NCIC Model codes
8	RSH	(Optional)	1	Related Search Hit

Y,N (Default is blank = N)

*** - This field does not appear on the screen but must be formatted when forwarding to DCI.
 If a parenthesis follows the FIELD code, the data between the quotes (') must be inserted
 in the format being sent.

Inquiry Options

NIC
 or
 SER

DCI SCREEN FORMAT - QM

Query Missing Person by Personal Descriptors

RAC _ SEX _ AGE _ HGT _ WGT _ EYE _
 HAI _ NAM _ ENS _ ARE _

DCI FIELD DEFINITIONS FOR SCREEN - QM

Below are the field lengths and the sequence fields must appear. All fields
 must be the specified length when forwarding to DCI.

Seq.	Field	Field Length	Possible Values
----	-----	-----	-----
*** 1	MKE (Mandatory)	2	QM
*** 2	ORI (Mandatory)	9	9 digit ORI
3	RAC (Mandatory)	1	NCIC Race codes
4	SEX (Mandatory)	1	NCIC Sex codes
5	AGE (Mandatory)	2	Age
6	HGT (Mandatory)	3	Height (3 digits)
7	WGT (Mandatory)	3	Weight (3 digits)
8	EYE (Mandatory)	3	NCIC Eye codes
9	HAI (Mandatory)	3	NCIC Hair codes
10	NAM (Optional)	30	Name
11	ENS (Optional)	1	Expanded Name Search Y,N (default is blank = N)
12	ARE (Optional)	3	NCIC Area codes

*** - This field does not appear on the screen but must be formatted when forwarding to DCI.

DCI SCREEN FORMAT - QS

Query Stolen Security - Single and Group

NIC _____ TYP _ SER _____
 DEN _____ ISS _____ OCA _____
 OWN _____ SOC _____ SDT _____
 RSH _

 DCI FIELD DEFINITIONS FOR SCREEN - QS

Below are the field lengths and the sequence fields must appear. All fields must be the specified length when forwarding to DCI.

Seq.	Field		Field Length	Possible Values
----	-----		-----	-----
*** 1	MKE	(Mandatory)	2	QS
*** 2	ORI	(Mandatory)	9	9 digit ORI
3	NIC	(Conditional)	10	10 digit NIC number
4	TYP	(Conditional)	2	NCIC Type codes
5	SER	(Conditional)	18	Serial Number
6	DEN	(Conditional)	9	NCIC Denomination codes
7	ISS	(Optional)	15	NCIC Issuer codes
8	OCA	(Conditional)	20	Originating Case Number
9	OWN	(Conditional)	40	Owner
10	SOC	(Conditional)	9	Social Security Number
11	SDT	(Optional)	9	Security/Maturity Date
12	RSH	(Optional)	1	Related Search Hit
Y,N (default is blank = N)				

*** - This field does not appear on the screen but must be formatted when forwarding to DCI.

Inquiry Options

NIC
 or

TYP and SER and DEN
 or

TYP and OWN
 or

OCA and OWN
 or

OWN
 or

OCA and SOC
 or
 SOC

DCI SCREEN FORMAT - QVEH

Vehicle/Part/Plate Inquiry

LIC _____ State ____ LIY _____ LIT ____
 VIN _____ VMA _____
 VYR _____
 NAM _____
 DOB _____ Business ____
 County _____
 City _____
 Title Number _____
 Handicap Placard Number _____
 Lien Information ____

DCI FIELD DEFINITIONS FOR SCREEN - QVEH

Below are the field lengths and the sequence fields must appear. All fields must be the specified length when forwarding to DCI.

Seq.	Field		Field Length	Possible Values
----	-----		-----	-----
*** 1	MKE	(Mandatory)	4	QVEH
2	LIC	(Conditional)	10	License number
3	STATE	(Optional)	2	NCIC State codes
				Default is blank = NC
4	LIY	(Optional)	4	License Year
5	LIT	(Optional)	2	NLETS License Type codes
6	VIN	(Conditional)	25	Vin number
7	VMA	(Optional)	4	DMV Make codes
8	VYR	(Optional)	4	Vehicle year
9	NAM	(Conditional)	36	Name
10	DOB	(Optional)	8	Date of birth
11	BUS	(Optional)	1	Business
				Y,N (default is blank = N)
12	COU	(Optional)	20	County
				In-state will only accept 5 chars
13	CTY	(Optional)	22	City
14	TLE	(Conditional)	15	Title Number
15	HCP	(Conditional)	8	Handicap Placard Number
16	LEN	(Optional)	1	Lien Information
				Y,N (default is blank = N)

*** - This field does not appear on the screen but must be formatted when forwarding to DCI.

Inquiry Options

LIC (LIC and LIY and LIT if STATE is used)
 or VIN or NAM or TLE or HCP

DCI SCREEN FORMAT - QW

Query Wanted Person And Missing Person

NIC _____ NAM _____ DOB _____
 RAC ____ SEX ____ FBI _____ MNU _____ SOC _____

OLN _____ LIC _____ LIS ____ VIN _____
VMA _____ OCA _____ IND _ RSH _ ENS _

DCI FIELD DEFINITIONS FOR SCREEN - QW

Below are the field lengths and the sequence fields must appear. All fields must be the specified length when forwarding to DCI.

	Seq.	Field		Field Length	Possible Values
	----	-----		-----	-----
***	1	MKE (Mandatory)		2	QW
***	2	ORI (Mandatory)		9	9 digit ORI
	3	NIC (Conditional)		10	10 digit NIC number
	4	NAM (Conditional)		30	Name
	5	DOB (Conditional)		8	Date of Birth
	6	RAC (Optional)		1	NCIC Race codes
	7	SEX (Optional)		1	NCIC Sex codes
	8	FBI (Conditional)		9	FBI number
	9	MNU (Conditional)		15	Miscellaneous number
	10	SOC (Conditional)		9	Social Security number
	11	OLN (Conditional)		20	Operator License number
	12	LIC (Conditional Set)		10	License number
	13	LIS (Set)		2	NLETS State codes
	14	VIN (Conditional Set)		20	Vin number
	15	VMA (Set)		24	DMV Make codes
	16	OCA (Conditional)		20	Originating Agency number
	17	IND (Optional)		1	Image indicator
					Y,N (default is blank = N)
	18	RSH (Optional)		1	Related Search Hit
					Y,N (default is blank = N)
	19	ENS (Optional)		1	Expanded Name Search
					Y,N (default is blank = N)

*** - This field does not appear on the screen but must be formatted when forwarding to DCI.

Inquiry Options

NIC
or

NAM and OCA
or

NAM and one more of DOB, FBI, MNU, SOC, OLN, LIS and LIC or VIN and VMA

DCI SCREEN FORMAT - MQ

NLETS Hazardous Material Inquiry

CTL _____ UNN _____

DCI FIELD DEFINITIONS FOR SCREEN - MQ

Below are the field lengths and the sequence fields must appear. All fields must be the specified length when forwarding to DCI.

	Seq.	Field		Field Length	Possible Values
	----	-----		-----	-----
***	1	MKE	(Mandatory)	2	MQ
***	2	ORI	(Mandatory)	9	9 digit ORI
***	3	DRI	(Mandatory)	2	NL
	4	CTL	(Optional)	10	Control/Miscellaneous Number
	5	UNN	(Mandatory)	4	Placard Number

*** - This field does not appear on the screen but must be formatted when forwarding to DCI.

DCI SCREEN FORMAT - CPQ

Query Corrections

CTL _____
NAM _____
DOB _____ SEX _____
RAC _____ EYE _____
FBI _____ SID _____
OLN _____ SOC _____
DOC _____
IMQ _____

DCI FIELD DEFINITIONS FOR SCREEN - CPQ

Below are the field lengths and the sequence fields must appear. All fields must be the specified length when forwarding to DCI.

Seq. Field	Field Length	Possible Values
-----	-----	-----
***1 MKE (Mandatory) 3	CPQ	
***2 ORI (Mandatory) 9	9 digit ORI	
***3 DRI (Mandatory) 14	Up to 5 destination state codes separated by ',' (comma).	4 CTL
(Optional) 10	Control/Miscellaneous Number (use only when DRI not 'NC')	
5 NAM (Optional) 30	Name	
6 DOB (Optional) 8	Date of Birth	
7 SEX (Optional) 1	Sex	
8 RAC (Optional) 1	Race	
9 EYE (Optional) 1	Eye	
10 FBI (Optional) 15	FBI Number	
11 SID (Optional) 10	SID Number	
12 OLN (Optional) 20	Operator License Number	
13 SOC (Optional) 9	Social Security Number	
14 DOC (Optional) 7	Dept of Corrections Number	
15 IMQ (Optional) 1	Image Request ('Y' if image requested)	
*** - This field does not appear on the screen but must be formatted when forwarding to DCI.		

Query combinations:

- NAM and DOB
- NAM and DOB and one or more of the following: SEX, RAC, EYE
- FBI
- SID
- OLN
- SOC
- DOC

DCI SCREEN FORMAT - Free Text

Free Text

DCI FIELD DEFINITIONS FOR Free Text SCREEN

Field	Field Length
-----	-----
TXT	400 - This screen can be as big as your screen size allows. It can be over 400 characters long if you have a 24x80 screen size.

NOTE: The terminal ID must be the first 8 character of the text - just as it is in every other screen.

^ The free text screen format will be used for the following transactions only:

- 1. SEND - Used to send a routine switch message**
 - a. Formats (where xxx = terminal ID or routing list)
 - i. SEND xxx,
(Insert text here)
 - ii. SEND xxx yyy zzz, (where xxx, yyy, zzz = terminal Ids or routing lists)
- 2. DTST - Used to check the status of current terminal ID**
 - a. Format
 - i. DTST
- 3. DTST xxx - Used to check the status of xxx (where xxx is desired terminal ID)**
 - a. Format (where xxx = terminal ID)
 - i. DTST xxx

DCI Screen Format - OPEN TRANSACTION

OPEN

The password fields (Password, NEW PASSWORD, Re-type NEW PASSWORD) on the screen format that DCI provides to terminal or terminal emulation users is a non-displayable field, meaning the operator is unable to see what is being typed in these fields. This provides the terminal operator a mechanism to keep his/her password secretive. Based on the purpose for the password and the fact that you access DCI through a computer interface and maintain your own screen masks, it is strongly encouraged that you also use the nondisplayable feature on the OPEN transaction.

-This functional message is used to sign-on the DCI system. Each operator using the DCI system should sign-on. The sign-on will automatically sign-off (remove) any operator that is currently signed on. Only one person can be signed onto the system at any one time.

- Below is a copy of the OPEN Screen Format DCI utilizes:

CRIMINAL INFORMATION		DIVISION OF
SIGN-ON		
Operator ID _____		

Password < >	To change
PASSWORD or enter a NEW PASSWORD complete the following fields:	
NEW PASSWORD < >	
Re-type NEW PASSWORD < >	

Below are the field lengths associated with the OPEN transaction and an example of the format that should be forwarded to DCI:

<u>Field</u>	<u>Field Length</u>
Operator ID	20 (Mandatory)
Password	6 (Mandatory)
NEW PASSWORD	6
Re-type NEW PASSWORD	6 (Used to verify NEW PASSWORD)

Format for the remote computer to send to DCI for the OPEN transaction

(Refer to field definitions above)

ABC*****OPEN*[Operator ID]/[Password]/[NEW PASSWORD]/[Re-type NEW PASSWORD]
 where ABC = terminal ID and * = spaces

NOTE: Do not separate fields in the OPEN transactions with periods. You must use spaces indicated by the asterisks. There are no spaces between the slashes (/) which separate the password information.

DCI Screen Format - CLOS TRANSACTION

CLOS

The CLOS is a free format transaction that is used when a operator is signing off of the DCI system. It will place the terminal in a "CLOS" status. At this time the terminal will be inactive until an "OPEN" (sign-on) is performed. **Application to application devices cannot use alt-routes.**

Format for the remote computer to send to DCI for the CLOS transaction

ABC*****CLOS*[Operator ID] Example: CLOS DJONES1234 where
 ABC = terminal ID and * = spaces

NOTE: Do not separate fields in the OPEN transactions with periods. You must use spaces indicated by the asterisks. There are no spaces between the slashes (/) which separate the password information.

Section 4: Further Explanation of Inquiry Options

Vehicle / Part / Plate Inquiry (In-State)

Possible Combinations for North Carolina

License Plate (LIC)

When using License Plate, State Defaults to North Carolina if Blank-

OPTIONAL: License Plate Year (LIY) (if Blank defaults to current year)
 License Plate Type (LIT) (if Blank defaults to PC)
 Lien Information

or

Vehicle Identification Number (VIN)

When using Vehicle Identification Number (VIN), State Defaults of North Carolina if Blank

OPTIONAL: Vehicle Make (VMA)
 Vehicle Year (VYR)
 Lien Information are optional

or

Name (NAM)

When using Name (NAM), State Defaults to North Carolina if Blank

OPTIONAL: Date of Birth (DOB)
 Business (if a "Y" for business is used, DOB can not be used)
 County
 City
 Lien Information

or

Title Number

When using Title Number, State Defaults to North Carolina if Blank

OPTIONAL: Lien Information
or

Handicap Placard Number

When using Handicap Placard Number, State Defaults to North Carolina if Blank

OPTIONAL: there are no optional fields

Vehicle / Part / Plate Inquiry - (Out of State)

Possible Combinations for Out Of State

License Plate (LIC)

When using out of state license plate (LIC), State is mandatory, License Year (LIY) if left blank defaults to current year and License Plate Type (LIT), if blank defaults to PC
or

Vehicle Identification Number (VIN)

When using out of state Vehicle Identification Number (VIN), State is Mandatory

OPTIONAL: if Year is used, must use Make (If Make is used, must use Year)
or

Name (NAM)

When using out of state name (NAM), State is Mandatory and date of Birth (DOB), if date of birth is unknown, all zeros can be used MMDDYYYY, (00000000), or MMDD, (0000YYYY). SOME STATES DO NOT ACCEPT NAME AND DOB INQUIRY.

Drivers Inquiry

Possible Combinations for North Carolina

Operator's License Number (OLN)

When using Operator's License Number (OLN), State defaults to North Carolina if Blank

OPTIONAL: Drivers History
or

Name (NAM)

When using Name (NAM), State defaults to North Carolina if Blank

OPTIONAL: Date of Birth (DOB) [if use DOB cannot use Age] and Race (RAC) and Sex and Age
[if use Age cannot use DOB] and County and City

Possible Combinations for Out of State

METHOD 1 -Issuance with History Option

Name (NAM)

When using Name (NAM), State and Date of Birth (DOB) and Sex are mandatory

OPTIONAL: Driver History but some states require Purpose and Attention for out of state history

METHOD 2 - Issuance with History Option

Operator's License Number (OLN)

When using Operator's License Number (OLN), State is mandatory

OPTIONAL: Driver History but some states require Purpose (PUR) and Attention for out of state history

NOTE: No Wanted Check will be performed by OLN Only inquiry

METHOD 3 - Issuance Only Name

(NAM)

When using Name (NAM), State and Date of Birth (DOB) and Sex and Operator's License Number (OLN) are mandatory

OPTIONAL: there are no optional fields

METHOD 4 - Issuance Only

Name (NAM)

When using Name (NAM), State is mandatory

OPTIONAL: Age and Sex and City and County

NOTE: No Wanted Check will be performed by inquiry

Boat Inquiry

Possible Combinations for North Carolina

Registration Number (REG)

When using Registration Number (REG), State defaults to North Carolina if Blank

OPTIONAL: there are no optional fields
or

Boat Hull Number (BHN)

When using Boat Hull Number (BHN), State defaults to North Carolina if Blank

OPTIONAL: there are no optional fields
or

Name (NAM)

When using Name (NAM), State defaults to North Carolina if Blank

OPTIONAL: there are no optional fields

Possible Combinations for Out of State

Registration Number (REG)

When using Registration Number (REG), State is Mandatory

OPTIONAL: there are no optional fields
or

Boat Hull Number (BHN)

When using Boat Hull Number (BHN), State is Mandatory

OPTIONAL: there are no optional fields
or

Name (NAM)

When using Name (NAM), State and Date of Birth (DOB) is Mandatory

NOTE: Date of Birth (DOB) can be 00000000

Securities Inquiry

NCIC Number (NIC)

When using NCIC Number (NIC)

OPTIONAL: no optional fields
or

Type (TYP) (Method 1)

When using Type (TYP), Serial Number (SER) and Denomination (DEN) and Issuer (ISS) is mandatory

OPTIONAL: no optional fields
or

Type (TYP) (Method 2)

When using Type (TYP), Owner Name (OWN) is mandatory

OPTIONAL: no optional fields
or

Originating Agency Case Number (OCA)

When using Originating Agency Case Number (OCA), Owner Name (OWN) is mandatory

OPTIONAL: no optional fields
or

Social Security Number (SOC)

When using Social Security Number (SOC)

OPTIONAL: no optional fields

Articles Inquiry

NCIC Number (NIC)

When using NCIC Number (NIC)

OPTIONAL: no optional fields
or

Type (TYP) (Method 1)

When using Type (TYP), Serial Number (SER) is mandatory

OPTIONAL: no optional fields
or

Type (TYP) (Method 2)

When Using Type (TYP), Serial Number (SER) is Mandatory

Gun Inquiry

NCIC Number (NIC)

When using NCIC Number (NIC)

OPTIONAL: no optional fields
or

Serial Number (SER)

When Using Serial Number (SER)

OPTIONAL: Make (MAK) and Caliber (CAL) are optional

Wanted/Missing Person Inquiry

NCIC Number (NIC)

When using NCIC Number (NIC) **OPTIONAL:** no optional fields
or

Name (NAM)

When using Name (NAM)

OPTIONAL: Sex and Race (RAC) but one or more of the following are mandatory: Date of Birth (DOB), FBI Identification Number (FBI), Miscellaneous Number (MNU), Social Security Number (SOC), Operator's License Number (OLN), and Originating Originating Agency Case Number (OCA)

Missing Person Only Inquiry

When using Missing Person inquiry, Race (RAC) and Sex and Age and Height (HGT) and Weight (WGT) and Eye and Hair (HAI) are mandatory

OPTIONAL: Name (NAM)

NLETS Hazardous Material Inquiry

When using NLETS Hazardous Material Inquiry, UN Number (Universal (Placard) Number) is mandatory

OPTIONAL: Control Number (CTL)