**Oracle to Postgresql Migration**

1. **Oracle:**

Create or Replace view Decode\_view AS

SELECT a.LS140\_COMP\_SEQ\_NO,

a.LS140\_COMP\_NAME,

a.LS140\_COMP\_DESC,

a.LS130\_COMP\_GRP\_SEQ\_NO,

a.LS140\_DISP\_IN\_SPEC,

DECODE (b.LS200\_MDL\_SEQ\_NO,

NULL,

'N','Y')

MDL\_SEQ\_NO,

DECODE (b.LS204\_DEFAULT\_FLAG, NULL,'N',

b.LS204\_DEFAULT\_FLAG) DEFAULT\_FLAG

,NVL(b.LS204\_COC\_FLAG,'N') LS204\_COC\_FLAG

, b.LS204\_VALIDATION\_FLAG

FROM lsdb.LSDB140\_COMP a, lsdb.LSDB204\_MDL\_COMP b

WHERE a.LS130\_COMP\_GRP\_SEQ\_NO = 5

AND a.LS140\_COMP\_SEQ\_NO = b.LS140\_COMP\_SEQ\_NO (+)

AND b.LS200\_MDL\_SEQ\_NO = 45

AND b.LS202\_SUBSEC\_SEQ\_NO = 4680--i\_n\_SubSecSeqNo

AND a.LS140\_DELETE\_FLAG = 'N'

AND a.LS191\_COMP\_SOURCE\_CODE = 'M'--PK\_LSDB\_CONSTANTS.con\_s\_Comp\_Source\_Model

ORDER BY a.LS140\_COMP\_NAME;

**Postgresql Tool converted: 100% conversion**

CREATE OR REPLACE VIEW public.decode\_view AS

SELECT A.LS140\_COMP\_SEQ\_NO, A.LS140\_COMP\_NAME, A.LS140\_COMP\_DESC, A.LS130\_COMP\_GRP\_SEQ\_NO, A.LS140\_DISP\_IN\_SPEC, CASE B.LS200\_MDL\_SEQ\_NO WHEN NULL THEN 'N' ELSE 'Y' END AS MDL\_SEQ\_NO, CASE B.LS204\_DEFAULT\_FLAG WHEN NULL THEN 'N' ELSE B.LS204\_DEFAULT\_FLAG END AS DEFAULT\_FLAG --Added For CR.No.118 ,coalesce(B.LS204\_COC\_FLAG,'N') AS LS204\_COC\_FLAG --Ends here --Added For CR.No.127 ,B.LS204\_VALIDATION\_FLAG --Ends here FROM LSDB140\_COMP A LEFT OUTER JOIN LSDB204\_MDL\_COMP B ON A.LS140\_COMP\_SEQ\_NO = B.LS140\_COMP\_SEQ\_NO WHERE A.LS130\_COMP\_GRP\_SEQ\_NO = 5 AND B.LS200\_MDL\_SEQ\_NO = 45 AND B.LS202\_SUBSEC\_SEQ\_NO = 4680 AND A.LS140\_DELETE\_FLAG = 'N' AND A.LS191\_COMP\_SOURCE\_CODE = 'M'--PK\_LSDB\_CONSTANTS.con\_s\_Comp\_Source\_Model --Ends here ORDER BY A.LS140\_COMP\_NAME;

Conversion Results:

**Note:**

* (+) operator is converted as Left outer join with ON condition
* Decode converted to CASE
* NVL converted to coalesce

**2)Oracle:**

create or replace view Minus\_view as

SELECT DISTINCT R.LS130\_COMP\_GRP\_NAME || ' IN ' || CHR(U.LS201\_SEC\_CODE+64)||'. '||U.LS201\_SEC\_NAME CODE,

CHR(U.LS201\_SEC\_CODE+64)||'. '||U.LS201\_SEC\_NAME SEC\_CODE

FROM lsdb.LSDB204\_MDL\_COMP X,lsdb.LSDB202\_MDL\_SUBSEC V,lsdb.LSDB201\_MDL\_SEC U,

(SELECT DISTINCT A.LS130\_COMP\_GRP\_SEQ\_NO

FROM lsdb.LSDB130\_COMP\_GRP A,lsdb.LSDB204\_MDL\_COMP Y

WHERE A.LS130\_COMP\_GRP\_SEQ\_NO=Y.LS130\_COMP\_GRP\_SEQ\_NO

AND Y.LS200\_MDL\_SEQ\_NO=38

MINUS

SELECT z.LS130\_COMP\_GRP\_SEQ\_NO

FROM lsdb.LSDB405\_ORDR\_COMP z

WHERE z.LS400\_ORDR\_KEY=2418

AND z.LS150\_DATA\_LOC\_TYPE\_CODE='S'

)W,

lsdb.LSDB412\_ORDR\_SUBSEC S,lsdb.LSDB130\_COMP\_GRP R

WHERE X.LS130\_COMP\_GRP\_SEQ\_NO=W.LS130\_COMP\_GRP\_SEQ\_NO

AND X.LS202\_SUBSEC\_SEQ\_NO=V.LS202\_SUBSEC\_SEQ\_NO

AND V.LS200\_MDL\_SEQ\_NO=34

AND U.LS200\_MDL\_SEQ\_NO=V.LS200\_MDL\_SEQ\_NO

AND U.LS201\_SEC\_SEQ\_NO=V.LS201\_SEC\_SEQ\_NO

AND V.LS202\_SUBSEC\_SEQ\_NO=S.LS202\_SUBSEC\_SEQ\_NO

AND S.LS400\_ORDR\_KEY=2418

AND S.LS150\_DATA\_LOC\_TYPE\_CODE='W'

AND X.LS130\_COMP\_GRP\_SEQ\_NO = R.LS130\_COMP\_GRP\_SEQ\_NO

ORDER BY SEC\_CODE;

**Postgres tool converted– 70%**

create or replace view Minus\_view as

SELECT DISTINCT R.LS130\_COMP\_GRP\_NAME || ' IN ' || CHR(U.LS201\_SEC\_CODE+64) || '.' || U.LS201\_SEC\_NAME AS CODE, CHR(U.LS201\_SEC\_CODE+64) || '.’|| U.LS201\_SEC\_NAME AS SEC\_CODE FROM LSDB204\_MDL\_COMP X, LSDB202\_MDL\_SUBSEC V,LSDB201\_MDL\_SEC U, (SELECT DISTINCT A.LS130\_COMP\_GRP\_SEQ\_NO FROM LSDB130\_COMP\_GRP A, LSDB204\_MDL\_COMP Y WHERE A.LS130\_COMP\_GRP\_SEQ\_NO = Y.LS130\_COMP\_GRP\_SEQ\_NO AND Y.LS200\_MDL\_SEQ\_NO = 38 EXCEPT SELECT Z.LS130\_COMP\_GRP\_SEQ\_NO FROM LSDB405\_ORDR\_COMP Z WHERE Z.LS400\_ORDR\_KEY = 2418

AND Z.LS150\_DATA\_LOC\_TYPE\_CODE = 'S') W, LSDB412\_ORDR\_SUBSEC S, LSDB130\_COMP\_GRP R WHERE X.LS130\_COMP\_GRP\_SEQ\_NO = W.LS130\_COMP\_GRP\_SEQ\_NO AND X.LS202\_SUBSEC\_SEQ\_NO = V.LS202\_SUBSEC\_SEQ\_NO AND V.LS200\_MDL\_SEQ\_NO = 34 AND U.LS200\_MDL\_SEQ\_NO = V.LS200\_MDL\_SEQ\_NO AND U.LS201\_SEC\_SEQ\_NO = V.LS201\_SEC\_SEQ\_NO AND V.LS202\_SUBSEC\_SEQ\_NO = S.LS202\_SUBSEC\_SEQ\_NO AND S.LS400\_ORDR\_KEY = 2418 AND S.LS150\_DATA\_LOC\_TYPE\_CODE = 'W' AND X.LS130\_COMP\_GRP\_SEQ\_NO = R.LS130\_COMP\_GRP\_SEQ\_NO ORDER BY SEC\_CODE;

**Note:**

Minus is converted as EXCEPT.

**Tool and Hand finish manual conversion:**

create or replace view Minus\_view as

SELECT DISTINCT(R.LS130\_COMP\_GRP\_NAME || ' IN ' || **chr(Cast(U.LS201\_SEC\_CODE as int)+64)||**'. ' || U.LS201\_SEC\_NAME),**CHR(Cast(U.LS201\_SEC\_CODE as int)+64) ||** '. ' || U.LS201\_SEC\_NAME AS SEC\_CODE FROM LSDB204\_MDL\_COMP X,LSDB202\_MDL\_SUBSEC V,LSDB201\_MDL\_SEC U, (SELECT DISTINCT A.LS130\_COMP\_GRP\_SEQ\_NO FROM LSDB130\_COMP\_GRP A,LSDB204\_MDL\_COMP Y WHERE A.LS130\_COMP\_GRP\_SEQ\_NO = Y.LS130\_COMP\_GRP\_SEQ\_NO AND Y.LS200\_MDL\_SEQ\_NO = 38 EXCEPT SELECT Z.LS130\_COMP\_GRP\_SEQ\_NO FROM LSDB405\_ORDR\_COMP Z WHERE Z.LS400\_ORDR\_KEY = 2418 AND Z.LS150\_DATA\_LOC\_TYPE\_CODE = 'S') W, LSDB412\_ORDR\_SUBSEC S,LSDB130\_COMP\_GRP R WHERE X.LS130\_COMP\_GRP\_SEQ\_NO = W.LS130\_COMP\_GRP\_SEQ\_NO AND X.LS202\_SUBSEC\_SEQ\_NO = V.LS202\_SUBSEC\_SEQ\_NO AND V.LS200\_MDL\_SEQ\_NO = 34 AND U.LS200\_MDL\_SEQ\_NO = V.LS200\_MDL\_SEQ\_NO AND U.LS201\_SEC\_SEQ\_NO = V.LS201\_SEC\_SEQ\_NO AND V.LS202\_SUBSEC\_SEQ\_NO = S.LS202\_SUBSEC\_SEQ\_NO AND S.LS400\_ORDR\_KEY = 2418 AND S.LS150\_DATA\_LOC\_TYPE\_CODE = 'W' AND X.LS130\_COMP\_GRP\_SEQ\_NO = R.LS130\_COMP\_GRP\_SEQ\_NO ORDER BY SEC\_CODE;

**Note**:

While converting table from oracle to postgreSQP, data type ‘number’ gets converted as ‘double precision’ which is not automatically casted. So it is casted as ‘int’ and converted.

**3)Oracle:**

Create or Replace view NVL\_Todate AS

SELECT A.LS400\_ORDR\_NO,

A.LS400\_ORDR\_KEY,

A.LS150\_DATA\_LOC\_TYPE\_CODE,

B.LS050\_CUST\_NAME,

C.LS200\_MDL\_NAME,

A.LS080\_SPEC\_STATUS\_CODE,

CASE

WHEN A.LS400\_UPDT\_DATE < TO\_DATE('08/Sep/2014') then D.LS080\_OLD\_STATUS\_DESC || A.LS400\_SPEC\_REV\_CODE || A.LS400\_SPEC\_SUBLVL\_REV\_CODE

ELSE D.LS080\_STATUS\_DESC || A.LS400\_SPEC\_REV\_CODE || A.LS400\_SPEC\_SUBLVL\_REV\_CODE END AS SPECSTATUS

FROM lsdb.LSDB400\_ORDR A,

lsdb.LSDB050\_CUSTOMER B,

lsdb.LSDB200\_MODEL C,

lsdb.LSDB080\_SPEC\_STATUS D

WHERE A.LS150\_DATA\_LOC\_TYPE\_CODE = 'W'

AND A.LS050\_CUST\_SEQ\_NO = B.LS050\_CUST\_SEQ\_NO

AND A.LS200\_MDL\_SEQ\_NO = C.LS200\_MDL\_SEQ\_NO

AND A.LS050\_CUST\_SEQ\_NO = A.LS050\_CUST\_SEQ\_NO

AND A.LS200\_MDL\_SEQ\_NO = NVL(38,A.LS200\_MDL\_SEQ\_NO)

AND C.LS030\_SPEC\_TYPE\_SEQ\_NO = NVL(1,C.LS030\_SPEC\_TYPE\_SEQ\_NO)

AND A.LS080\_SPEC\_STATUS\_CODE = D.LS080\_SPEC\_STATUS\_CODE

ORDER BY UPPER(LS400\_ORDR\_NO);

**Postgres tool converted:**

Create or Replace view NVL\_Todate AS

SELECT A.LS400\_ORDR\_NO, A.LS400\_ORDR\_KEY, A.LS150\_DATA\_LOC\_TYPE\_CODE, B.LS050\_CUST\_NAME, C.LS200\_MDL\_NAME,

A.LS080\_SPEC\_STATUS\_CODE, CASE

WHEN A.LS400\_UPDT\_DATE < TO\_DATE('08/Sep/2014') then D.LS080\_OLD\_STATUS\_DESC || A.LS400\_SPEC\_REV\_CODE || A.LS400\_SPEC\_SUBLVL\_REV\_CODE ELSE D.LS080\_STATUS\_DESC || A.LS400\_SPEC\_REV\_CODE || A.LS400\_SPEC\_SUBLVL\_REV\_CODE END AS SPECSTATUS FROM LSDB400\_ORDR A, LSDB050\_CUSTOMER B,

LSDB200\_MODEL C, LSDB080\_SPEC\_STATUS D WHERE A.LS150\_DATA\_LOC\_TYPE\_CODE = 'W' AND A.LS050\_CUST\_SEQ\_NO = B.LS050\_CUST\_SEQ\_NO AND A.LS200\_MDL\_SEQ\_NO = C.LS200\_MDL\_SEQ\_NO AND A.LS050\_CUST\_SEQ\_NO = A.LS050\_CUST\_SEQ\_NO AND A.LS200\_MDL\_SEQ\_NO = coalesce(38,A.LS200\_MDL\_SEQ\_NO) AND C.LS030\_SPEC\_TYPE\_SEQ\_NO = coalesce(1,C.LS030\_SPEC\_TYPE\_SEQ\_NO) AND A.LS080\_SPEC\_STATUS\_CODE = D.LS080\_SPEC\_STATUS\_CODE ORDER BY UPPER(LS400\_ORDR\_NO);

**Note:**

NVL is converted as coalesce.

**Tool and Hand finish conversions:**

Create or Replace view NVL\_Todate AS

SELECT A.LS400\_ORDR\_NO, A.LS400\_ORDR\_KEY, A.LS150\_DATA\_LOC\_TYPE\_CODE, B.LS050\_CUST\_NAME, C.LS200\_MDL\_NAME, A.LS080\_SPEC\_STATUS\_CODE, CASE WHEN A.LS400\_UPDT\_DATE < TO\_DATE ('2014-08-08 05:00:00','yyyy-mm-dd HH24: MI: SS’) then D.LS080\_OLD\_STATUS\_DESC || A.LS400\_SPEC\_REV\_CODE || A.LS400\_SPEC\_SUBLVL\_REV\_CODE ELSE D.LS080\_STATUS\_DESC || A.LS400\_SPEC\_REV\_CODE || A.LS400\_SPEC\_SUBLVL\_REV\_CODE END AS SPECSTATUS FROM LSDB400\_ORDR A, LSDB050\_CUSTOMER B, LSDB200\_MODEL C, LSDB080\_SPEC\_STATUS D WHERE A.LS150\_DATA\_LOC\_TYPE\_CODE = 'W' AND A.LS050\_CUST\_SEQ\_NO = B.LS050\_CUST\_SEQ\_NO AND A.LS200\_MDL\_SEQ\_NO = C.LS200\_MDL\_SEQ\_NO AND A.LS050\_CUST\_SEQ\_NO = A.LS050\_CUST\_SEQ\_NO AND A.LS200\_MDL\_SEQ\_NO = coalesce (38,A.LS200\_MDL\_SEQ\_NO) AND C.LS030\_SPEC\_TYPE\_SEQ\_NO = coalesce (1,C.LS030\_SPEC\_TYPE\_SEQ\_NO) AND A.LS080\_SPEC\_STATUS\_CODE = D.LS080\_SPEC\_STATUS\_CODE ORDER BY UPPER(LS400\_ORDR\_NO);

**Note:** To\_date function is given in the full format.

**4) Oracle:**

Create or Replace view CAST\_VIEW as

SELECT NULL FROM\_MAIN\_INFO, R.LS403\_COMP\_INFO\_DESC TO\_MAIN\_INFO,

'Main Features Info Added' REASON

FROM

(INITCAP

SELECT A.LS403\_COMP\_INFO\_SEQ\_NO

FROM lsdb.LSDB403\_ORDR\_COMP\_INFO A

WHERE A.LS400\_ORDR\_KEY=2418

AND A.LS150\_DATA\_LOC\_TYPE\_CODE='W'

MINUS

SELECT A.LS403\_COMP\_INFO\_SEQ\_NO

FROM lsdb.LSDB403\_ORDR\_COMP\_INFO A

WHERE A.LS400\_ORDR\_KEY=2416

AND A.LS150\_DATA\_LOC\_TYPE\_CODE='S'

) T,lsdb.LSDB403\_ORDR\_COMP\_INFO R

WHERE R.LS400\_ORDR\_KEY=2418

AND R.LS150\_DATA\_LOC\_TYPE\_CODE='S'

AND R.LS403\_COMP\_INFO\_SEQ\_NO = T.LS403\_COMP\_INFO\_SEQ\_NO

UNION

SELECT R.LS403\_COMP\_INFO\_DESC FROM\_MAIN\_INFO,NULL TO\_MAIN\_INFO,

'Main Features Info Deleted' REASON

FROM

(

SELECT A.LS403\_COMP\_INFO\_SEQ\_NO

FROM lsdb.LSDB403\_ORDR\_COMP\_INFO A

WHERE A.LS400\_ORDR\_KEY=2418

AND A.LS150\_DATA\_LOC\_TYPE\_CODE='S'

MINUS

SELECT A.LS403\_COMP\_INFO\_SEQ\_NO

FROM lsdb.LSDB403\_ORDR\_COMP\_INFO A

WHERE A.LS400\_ORDR\_KEY=2416

AND A.LS150\_DATA\_LOC\_TYPE\_CODE='S'

) T,lsdb.LSDB403\_ORDR\_COMP\_INFO R

WHERE R.LS400\_ORDR\_KEY=2418

AND R.LS150\_DATA\_LOC\_TYPE\_CODE='S'

AND R.LS403\_COMP\_INFO\_SEQ\_NO = T.LS403\_COMP\_INFO\_SEQ\_NO;

**Postgres tool converted: 100% conversion**

Create or Replace view CAST\_VIEW as

SELECT CAST(null as VARCHAR(255)) AS FROM\_MAIN\_INFO, R.LS403\_COMP\_INFO\_DESC AS TO\_MAIN\_INFO, 'Main Features Info Added' AS REASON FROM(SELECT A.LS403\_COMP\_INFO\_SEQ\_NO FROM LSDB403\_ORDR\_COMP\_INFO A WHERE A.LS400\_ORDR\_KEY = 2418 AND A.LS150\_DATA\_LOC\_TYPE\_CODE = 'W'

EXCEPT SELECT A.LS403\_COMP\_INFO\_SEQ\_NO FROM LSDB403\_ORDR\_COMP\_INFO A WHERE A.LS400\_ORDR\_KEY = 2416 AND A.LS150\_DATA\_LOC\_TYPE\_CODE = 'S') T,LSDB403\_ORDR\_COMP\_INFO R WHERE R.LS400\_ORDR\_KEY = 2418 AND R.LS150\_DATA\_LOC\_TYPE\_CODE = 'S' AND R.LS403\_COMP\_INFO\_SEQ\_NO = T.LS403\_COMP\_INFO\_SEQ\_NO

UNION

SELECT R.LS403\_COMP\_INFO\_DESC AS FROM\_MAIN\_INFO,CAST(null as VARCHAR(2000)) AS TO\_MAIN\_INFO, 'Main Features Info Deleted' AS REASON FROM(SELECT A.LS403\_COMP\_INFO\_SEQ\_NO

FROM LSDB403\_ORDR\_COMP\_INFO A WHERE A.LS400\_ORDR\_KEY = 2418 AND A.LS150\_DATA\_LOC\_TYPE\_CODE = 'S'

EXCEPT

SELECT A.LS403\_COMP\_INFO\_SEQ\_NO FROM LSDB403\_ORDR\_COMP\_INFO A WHERE A.LS400\_ORDR\_KEY = 2416 AND A.LS150\_DATA\_LOC\_TYPE\_CODE = 'S') T,LSDB403\_ORDR\_COMP\_INFO R WHERE R.LS400\_ORDR\_KEY = 2418 AND R.LS150\_DATA\_LOC\_TYPE\_CODE = 'S' AND R.LS403\_COMP\_INFO\_SEQ\_NO = T.LS403\_COMP\_INFO\_SEQ\_NO;

**Note**:

* Minus is converted as Except.
* Additional cast being done.

**5)Oracle:**

Create or Replace view timestamp\_view as

SELECT B.LS080\_STATUS\_DESC PRES\_DESC, CHR(DECODE(ASCII(A.LS400\_SPEC\_REV\_CODE),NULL, DECODE(B.LS080\_SPEC\_STATUS\_CODE,4,65,NULL), ASCII(A.LS400\_SPEC\_REV\_CODE)+1)) PREV\_REVISION ,INITCAP(TO\_CHAR(TO\_DATE(A.LS400\_ORDR\_QTY,'J'),'JSP')) INTCAP ,B.LS080\_SPEC\_STATUS\_CODE

FROM lsdb.LSDB400\_ORDR A,lsdb.LSDB080\_SPEC\_STATUS B

WHERE A.LS400\_ORDR\_KEY=2415

AND A.LS150\_DATA\_LOC\_TYPE\_CODE='W'

AND B.LS080\_SPEC\_STATUS\_CODE=DECODE(A.LS080\_SPEC\_STATUS\_CODE, 1, A.LS080\_SPEC\_STATUS\_CODE+1,

2, A.LS080\_SPEC\_STATUS\_CODE+1,

3, A.LS080\_SPEC\_STATUS\_CODE+1, A.LS080\_SPEC\_STATUS\_CODE);

**Postgres tool conversion:**

Create or Replace view timestamp\_view as

SELECT B.LS080\_STATUS\_DESC AS PRES\_DESC,

CHR(CASE ASCII(A.LS400\_SPEC\_REV\_CODE) WHEN NULL THEN CASE B.LS080\_SPEC\_STATUS\_CODE WHEN 4 THEN 65 ELSE NULL END ELSE ASCII(A.LS400\_SPEC\_REV\_CODE)+1 END) AS PREV\_REVISION

,INITCAP(TO\_CHAR(to\_timestamp(A.LS400\_ORDR\_QTY,'J'),'JSP')) AS INTCAP

,B.LS080\_SPEC\_STATUS\_CODE

FROM LSDB400\_ORDR A,LSDB080\_SPEC\_STATUS B

WHERE A.LS400\_ORDR\_KEY = 2415

AND A.LS150\_DATA\_LOC\_TYPE\_CODE = 'W'

AND B.LS080\_SPEC\_STATUS\_CODE = CASE A.LS080\_SPEC\_STATUS\_CODE WHEN 1 THEN A.LS080\_SPEC\_STATUS\_CODE+1 WHEN 2 THEN A.LS080\_SPEC\_STATUS\_CODE+1 WHEN 3 THEN A.LS080\_SPEC\_STATUS\_CODE+1 ELSE A.LS080\_SPEC\_STATUS\_CODE END;

Note:

To\_date is converted into to\_timestamp.

**Tool and Handfinish conversions:**

Create or Replace view timestamp\_view as

SELECT B.LS080\_STATUS\_DESC AS PRES\_DESC,

CHR(CASE ASCII(A.LS400\_SPEC\_REV\_CODE)

WHEN NULL THEN CASE B.LS080\_SPEC\_STATUS\_CODE

WHEN 4 THEN 65 ELSE NULL END ELSE ASCII(A.LS400\_SPEC\_REV\_CODE)+1 END) AS PREV\_REVISION ,INITCAP(to\_char(A.LS400\_ORDR\_QTY,'one')) as INTCAP

,B.LS080\_SPEC\_STATUS\_CODE

FROM LSDB400\_ORDR A,LSDB080\_SPEC\_STATUS B

WHERE A.LS400\_ORDR\_KEY = 2415

AND A.LS150\_DATA\_LOC\_TYPE\_CODE = 'W'

AND B.LS080\_SPEC\_STATUS\_CODE = CASE A.LS080\_SPEC\_STATUS\_CODE WHEN 1 THEN A.LS080\_SPEC\_STATUS\_CODE+1 WHEN 2 THEN A.LS080\_SPEC\_STATUS\_CODE+1 WHEN 3 THEN A.LS080\_SPEC\_STATUS\_CODE+1 ELSE A.LS080\_SPEC\_STATUS\_CODE END;