

Session A51

Message Routing in a Multiple Systems Coupling (MSC) and Shared Queues (SQ) Environment

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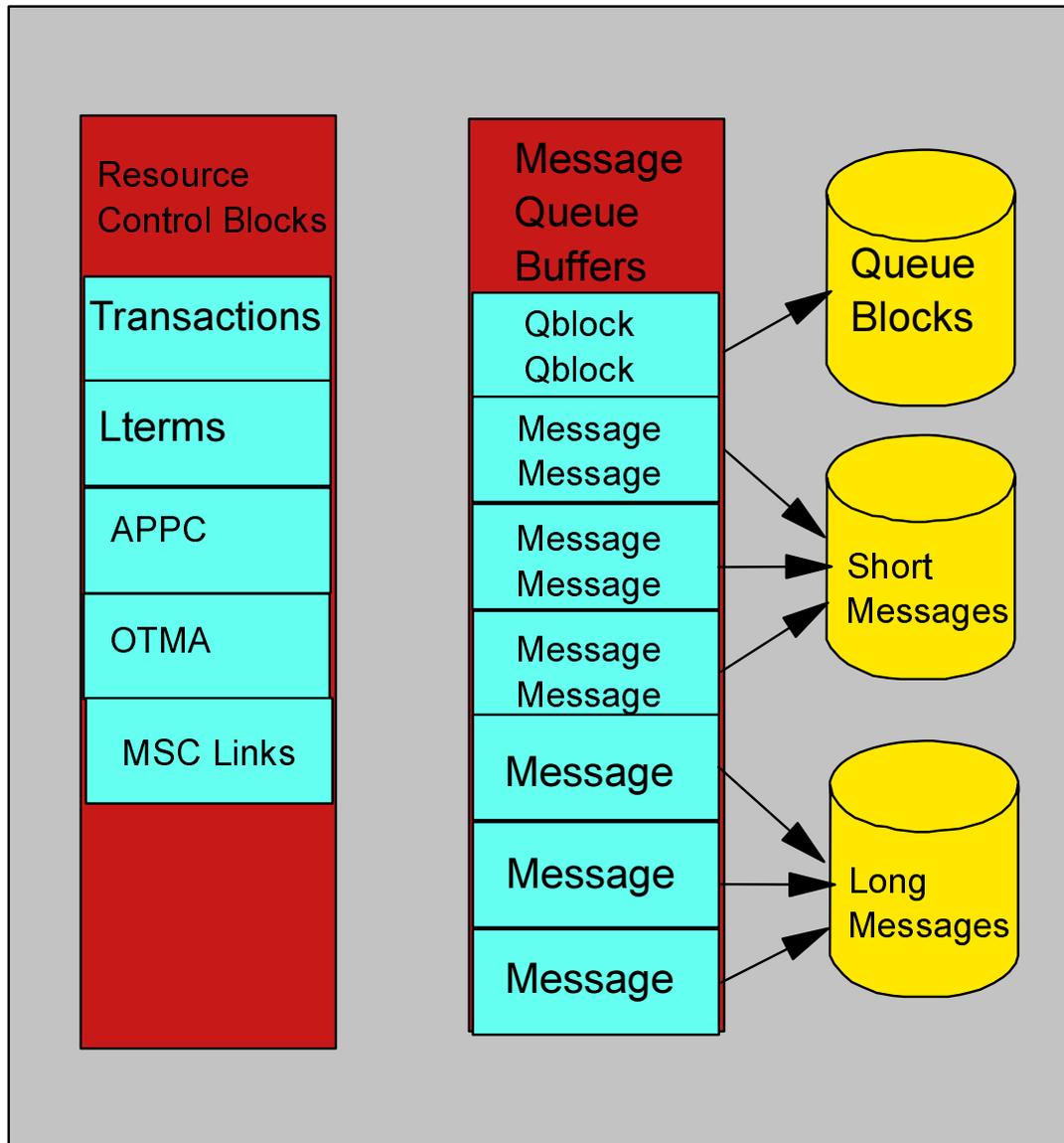
Miami Beach, FL

October 22-25, 2001

AGENDA

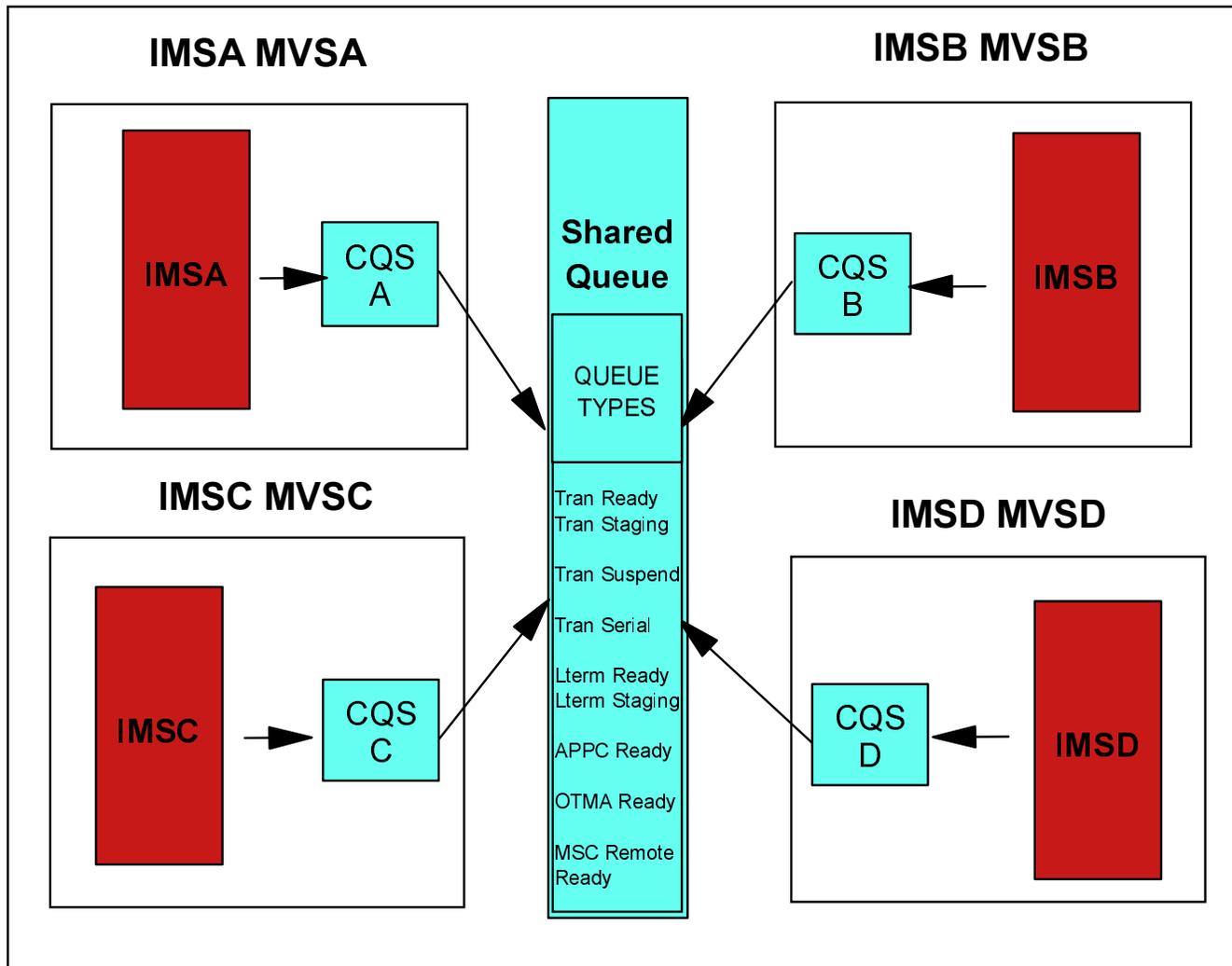
- Overview of Multiple System Coupling (MSC) and Shared Queues (SC) Environments
 - ▶ Non SQ, SQ, MSC, and MSC/SQ Environments
- The IMS Message
 - ▶ Types
 - ▶ Routing Data
 - Destination, Source, Qnames, SYSIDs, and Times
- Steps in Building a Message
- Where IMS Keeps Messages
- Routing Messages to Their Destinations
 - ▶ User Routing Exits
- Using the Queue Control Facility (QCF) Tool to View Messages
- Sample Message Flows in the Front End (FE), Back End (BE), and Remote IMSs

Non-Shared Queues and Non MSC

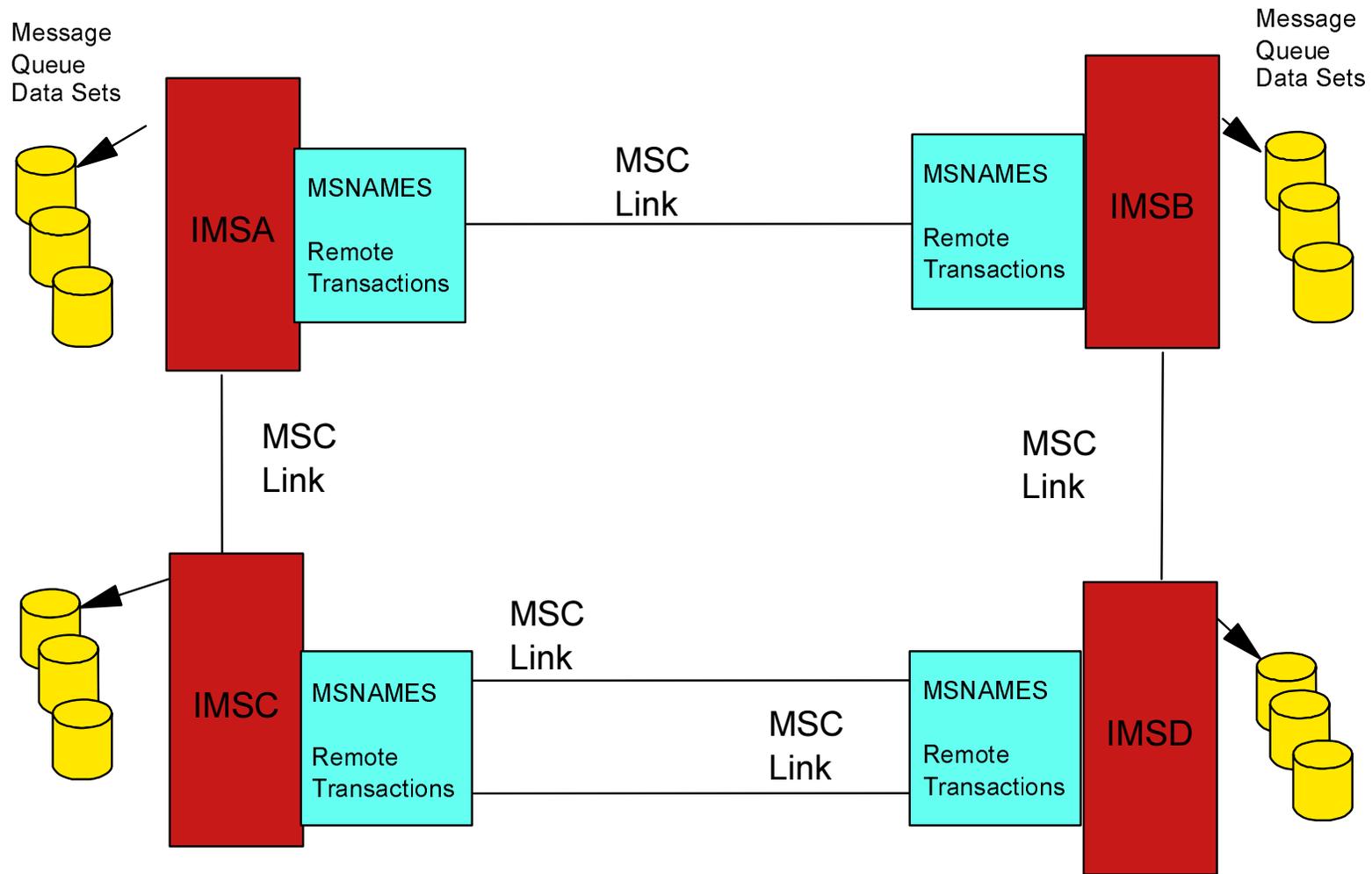


Shared Queues with a Single Shared Queues Group

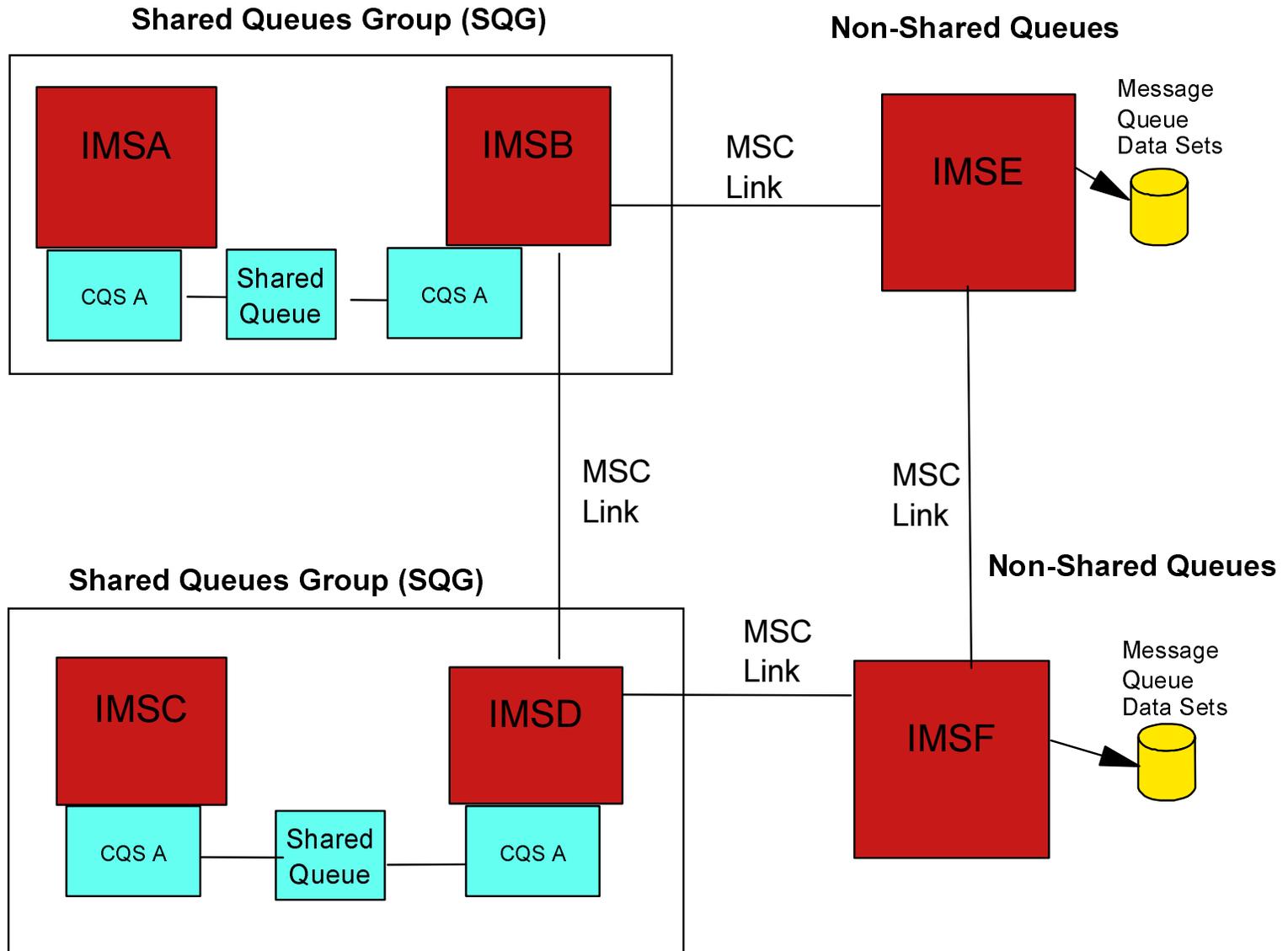
Shared Queues Group (SQG)



MSC Non-Shared Queues



MSC, Non-SQs, SQs, and Multiple SQ Groups



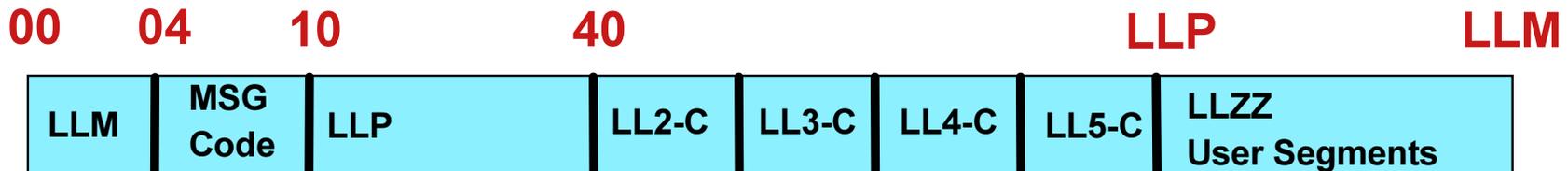
The IMS Message

- **Messages are made up of Prefixes and User Data Segments**
 - ▶ **Basic Prefix**
 - First Prefix, no Prefix Code
 - Message Type (01 or 03)
 - Flags, chaining, UOW
 - ▶ **IMS Prefixes**
 - 2nd through Nth Prefix
 - In Ascending Code order
 - Codes 81, 82, 83..... 8D
 - ▶ **User Prefixes**
 - Two User Routing Tool Prefixes
 - Codes 8E, 8F
 - Built and modified by routing exits
 - ▶ **User Data Segments**
 - Data Inserted from Terminal or Application

CODE	USED
Basic	Identification, Flags, DRRNs
81	System Data
82	Old MSC (Dropped in 61)
83	Old Security (Dropped in 51)
84	ISC (LU61)
85	Old APPC (Dropped in 51)
	Extended Prefixes
86	Extended Prefix Header
87	APPC (LU6.2) and OTMA
88	Security
89	Workload Manager
8A	System Data Extension
8B	MSC Extension
8C	Transaction Manager Routing
8D	Conversation
8E	User
8F	Routing Tool
	User Segment 1 data, data, data, data
	User Segment 2 data, data, data
	.
	User Segment n data, data, data, data

The IMS Message.....

- **Hex 00**
 - ▶ LLM = Total Message Length
 - ▶ Basic Prefix
- **Hex 04**
 - ▶ Message Code 01 = Input, 03 = Output
- **Hex 10**
 - ▶ LLP = Total Length of All Message Prefixes
- **Hex 40**
 - ▶ LL2-C = Length and Code of 2nd PFX
- **Hex 40 + LL2**
 - ▶ LL3-C = Length and Code of 3rd Prefix
- **Hex 40 + LL2 + LL3**
 - ▶ LL4-C = Length and code of 4th Prefix
- **ETC, ETC until reach LLP**
 - ▶ 5th to Nth Prefix
- **Hex LLP**
 - ▶ LLZZ = Length + Flags of User Data Segment(s)
- **Hex LLM**
 - ▶ End of Message Buffer



Types of IMS Messages

- Transactions
 - ▶ Recoverable - IMS and User Prefixes Logged
 - ▶ Non-Recoverable - IMS Prefix Logged
 - ▶ Discardable - Discarded across IMS Restart
- Responses and MSGS to Alternate LTERMS
- Program-to-Program Switches
- Message Switches (Terminal-to-Terminal)
- IMS Internal Messages
 - ▶ System Messages (Usually to MTO)
 - ▶ MSVERIFY Messages (MSC Only)
 - ▶ Control Messages (APPC, OTMA, SQ-Registration)
 - ▶ Incore Only (Not Logged)
- Fast Path Messages
 - ▶ Route to SQs but not MSC

Destination and Source

- Messages Routed by Destination and Source Data
 - ▶ Destination = Where the Message is Going
 - Current (This IMS System)
 - Final (Last IMS System)
 - In Non-MSD then Current and Final Always the Same
 - ▶ Source = Where the Message Came From
 - Current (This IMS System)
 - Origin (First IMS System)
 - In Non-MSD then Current and Origin Always the Same
 - ▶ Unit of Work
 - Origin and Processing
 - ▶ Time Stamps and Tokens
 - IMS Uses to Validate and Identify Resources
 - Verifies Resource Didn't Change while Message was Processing
 - Useful for Timing and Performance

Destination Data

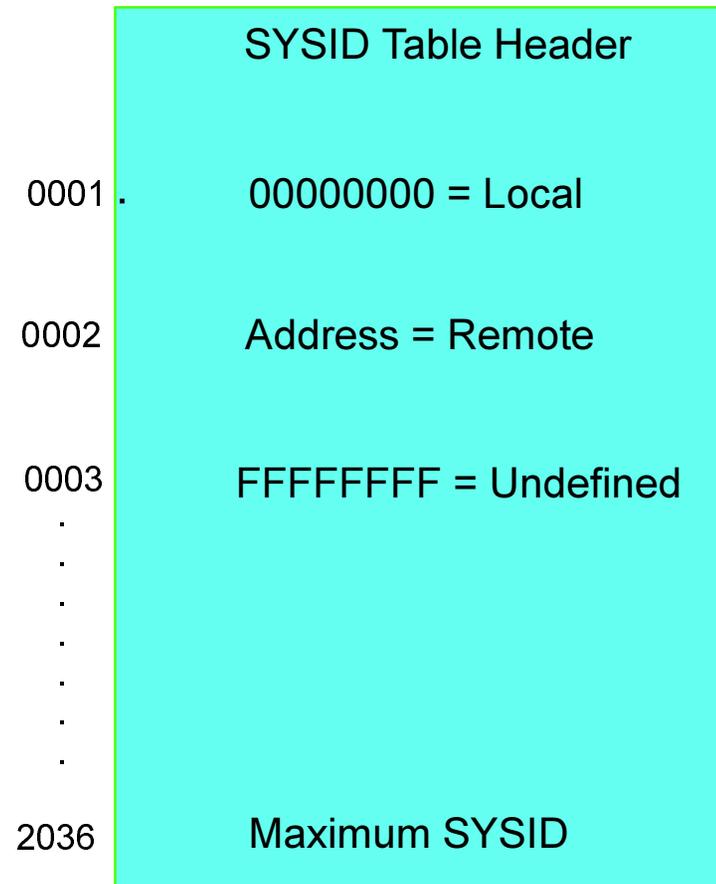
- Queue or Destination Type
 - ▶ LTERM-Ready, Transaction-Ready, Transaction-Serial, Transaction-Suspend, Remote/MSNAME, APPC, OTMA
 - ▶ Staging - For Long Messages
- Destination Name
 - ▶ LTERM, Trancode, MSNAME, LUNAME/TPNAME, TMEMBER/TPIPE
- Destination SYSID
 - ▶ Final Destination IMS
- Processing Unit of Work (UOW)
 - ▶ Processing IMSID and time stamp token
- Destination is Local or Shared Queues

Source Data

- Source Type
 - ▶ Not as Many as Destination Types
 - ▶ LTERM, Remote/MSNAME, APPC, OTMA
- Source Name
 - ▶ LTERM, MSNAME, LUNAME/TPNAME, TMEMBER/TPIPE
- Source SYSID
 - ▶ Origin (First) IMS where Message was Created
- Origin Unit of Work
 - ▶ Origin IMSID and Time Stamp Token

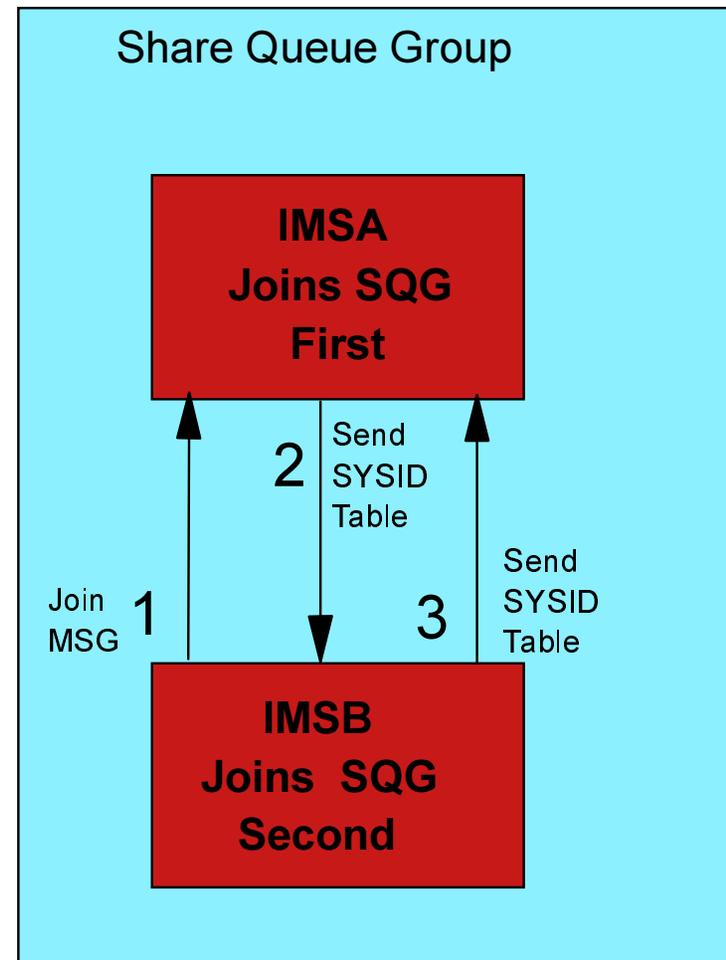
MSC System Identification Numbers (SYSIDs)

- Number from 1 - 2036 (IMS 6.1 and Higher)
- SYSIDs Kept in Destination Control Blocks
- Originate from SYSDEF
 - ▶ MSNAME - (SYSID=rmt,lcl)
 - ▶ TRANCODE - (SYSID=rmt,lcl)
- SYSIDs Copied to Message when Message is Built
- SYSID Table in Each IMS
 - ▶ Used to Determine Routing
 - Local = Keep Message Here
 - Remote = Route Message to Remote IMS
 - Undefined = Error



SYSID Table Exchange in Shared Queues

- When IMSs Join the Shared Queues Group (SQG)
 - ▶ Merged SYSID Table Built in Each IMS
- IMS Supports Cloned and Non-Cloned IMSs in the same SQG
 - ▶ If Non-Cloned, Conflicts Resolved
- When IMSs Leave the SQG
 - ▶ IMS notified but no SYSID table backout
 - Need to shutdown and Remove SYSID from Sysgen, then Restart IMSs to backout SYSIDs (currently)



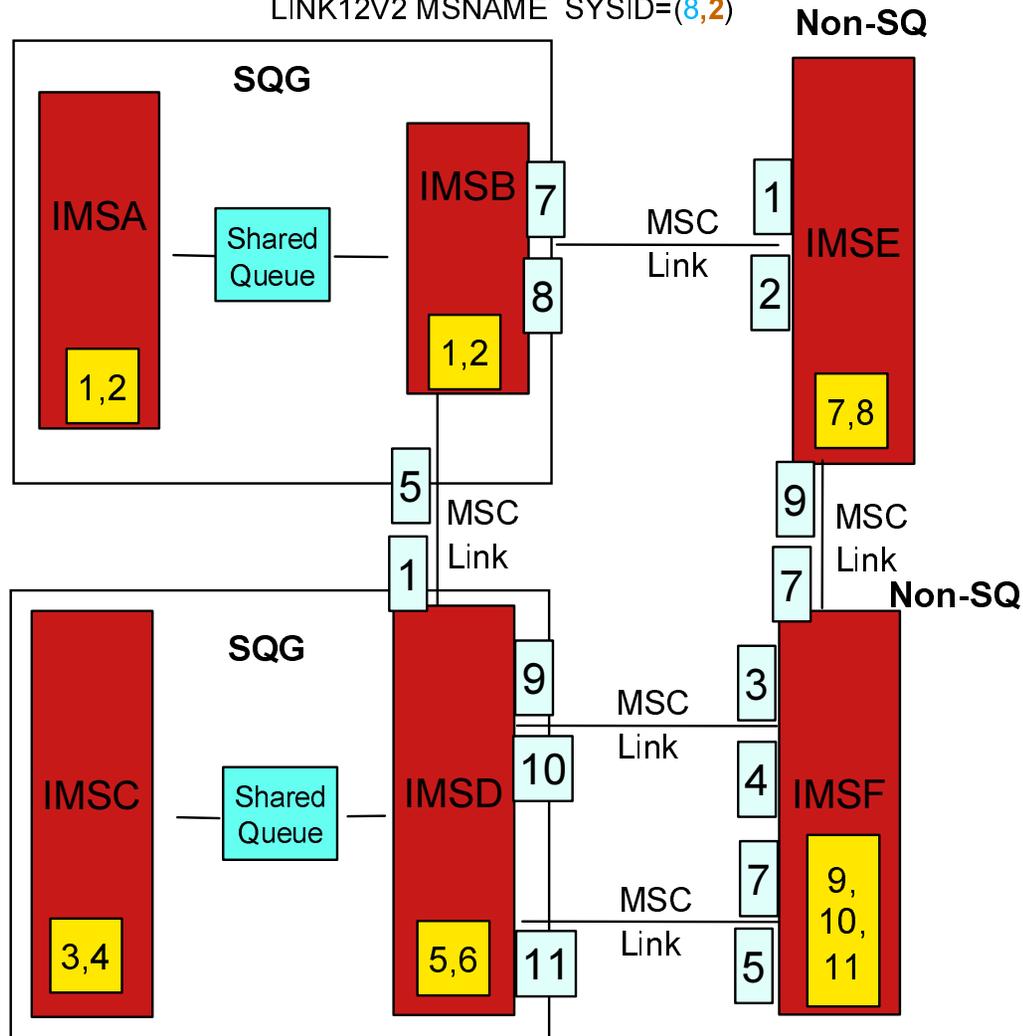
MSC SYSIDs

IMSB Example

TRANSACTION CODE=TRAN21V0, SYSID=(7,1)

LINK12V1 MSNAME SYSID=(7,1)

LINK12V2 MSNAME SYSID=(8,2)



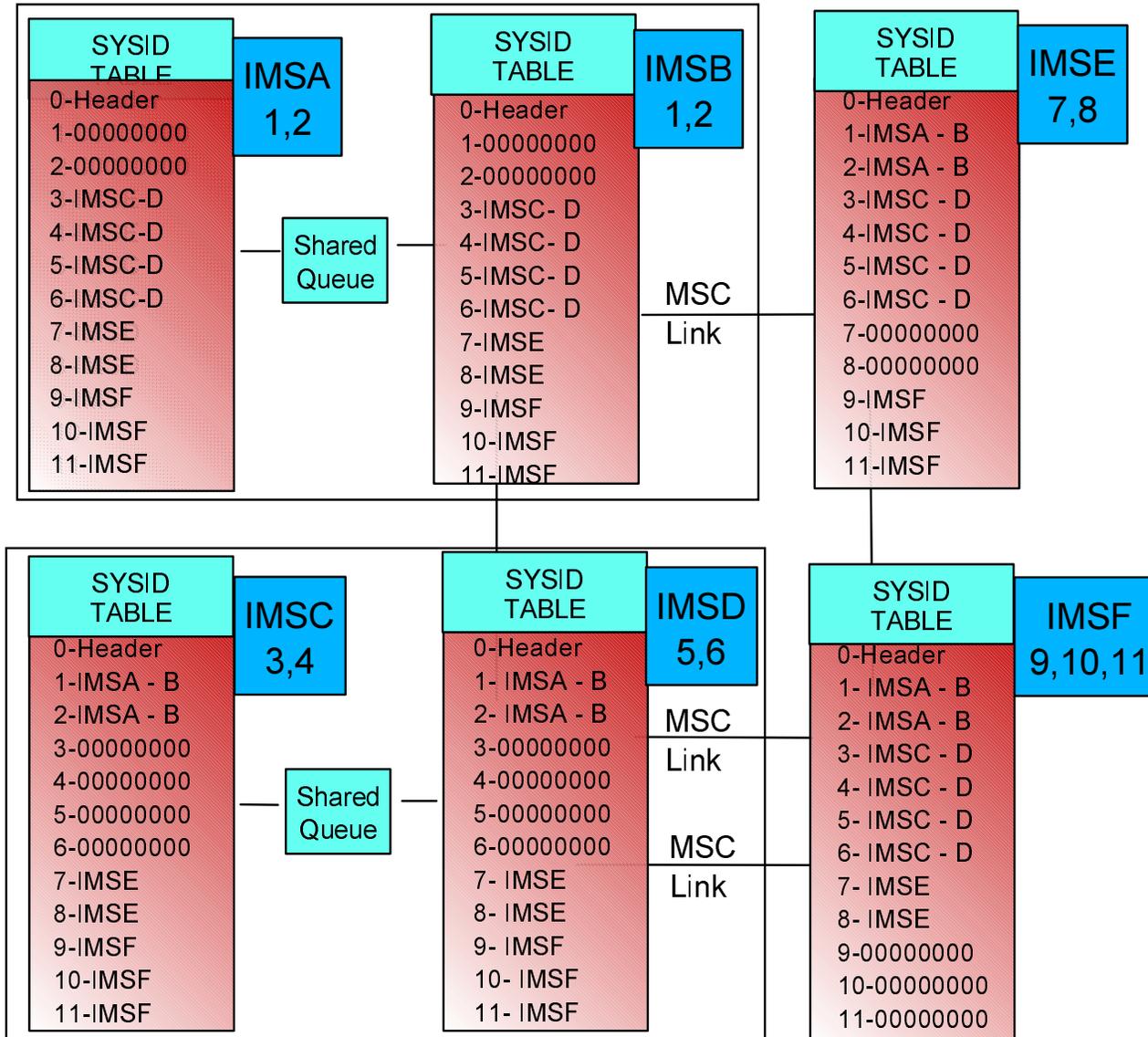
Local SYSIDs

- * Uniquely owned within each IMS
- * Become shared between IMSs in SQG
- * Referenced by Remote IMSs
- * Should be known by all IMSs within network
- * Carried as source SYSID in messages
- * Defined on TRANSACT and MSNAME macros

Remote SYSIDs

- * Not owned by IMS where it is specified
- * Points to IMS where the SYSID exists as local
- * Carried as destination SYSID in messages
- * Defined on TRANSACT and MSNAME macros

MSC SYSIDs



Steps in Creating a New Message Received from a Terminal, APPC LU, or OTMA Client

1. Receive the Message to Input Buffer
 2. Validate the Source
 3. Validate the Destination
 4. Insert the Message to Local Queue Manager Buffer (skeleton prefixes built)
 - * 5. If more Inserts, 2nd through Nth Buffers put to CQS Staging Queue
 6. Insert Message to Queue Manager
 7. Enqueue the Message (complete prefixes)
 8. Log Message to IMS Log
 - * 9. Put the Message to the SQ Ready Queue
 - * 10. Notify IMSs that have Interest if Queue goes from Empty to Non-Empty
 11. Notify Sender the Message is Received
- * = Shared Queues Only

Steps in Receiving a Message (ISRT) from a User Application Program

1. Validate Destination
 - CHNG Call to Modifiable PCB or First ISRT to Non-Modifiable PCB
 2. Receive Message from Application Program and Insert to Queue Manager Buffer (skeleton PFX built)
 - * 3. If more Inserts, 2nd through Nth Buffers put to CQS Staging Queue
 - 4.. Sync Point - Phase1
 5. Enqueue Message to Temporary Destination
 6. Log Message to IMS Log
 7. Sync Point - Phase2
 8. Transfer Messages to Permanent Destination
 - * 9. Put the Message to the SQ Ready Queue
 - * 10 Notify IMSs that have Interest if Queue goes from Empty to Non-Empty
 - 11 Delete Input Message and log the Delete to the IMS Log
- * = Shared Queues Only

Steps in Receiving a Message From the Shared Queues after a Notify

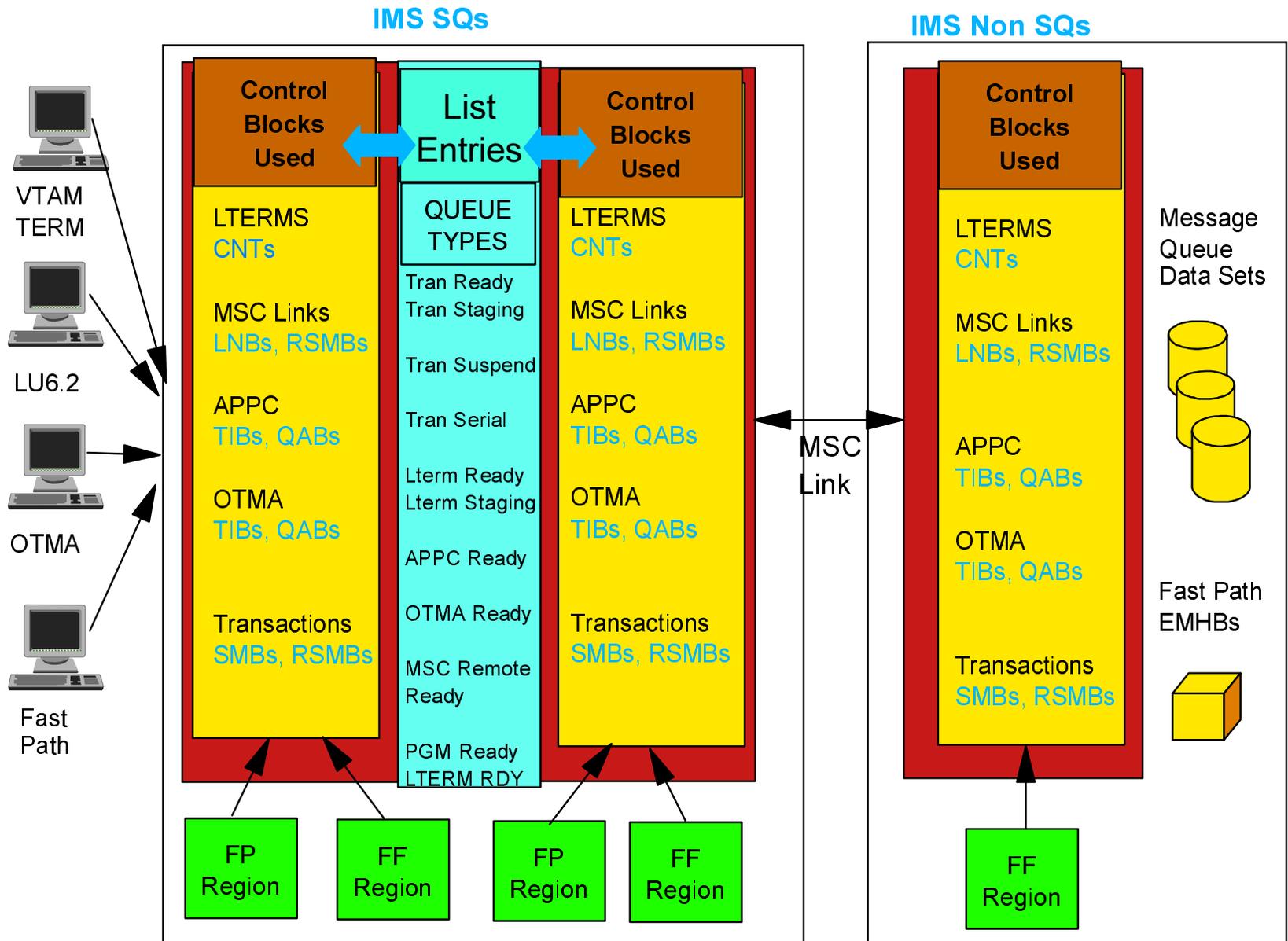
1. IMS is Notified a Message is on the SQ (Notification Exit is Driven)
2. Read the Message from the SQ (Leave message Locked on the SQ)
3. Log the Read (GU) to the IMS Log
4. Insert the message to a Local Queue Buffer
5. Log the Message
6. If Local Transaction Message, anchor the message off the PST for the region and Schedule the Transaction to be Processed
6. All others (LTERM, MSC, APPC, OTMA), enqueue the Destination off a Queue associated with the Task that will process the message
7. Process the Message (i.e.: Send the Message to the Device, MSC Link, APPC LU, or OTMA Client)
8. When Acknowledgment, Log Message is Deleted
9. Delete Message from SQ and Local Queue Buffer

Steps in Receiving a Completed Message From Another IMS via MSC

1. Receive the Message
 2. Validate the Source Path (SYSID)
 3. Validate the Destination Path
 - If Remote, do not Validate Final Destination
 - If Local, Locate Destination and Validate it
 4. Receive the Message and Insert to Queue Manager Buffer
 - * 5. If more Inserts, 2nd through Nth Buffers put to CQS Staging Queue
 6. Insert Message to Queue Manager (skeleton prefixes built)
 6. Enqueue the Message (complete prefixes)
 7. Log Message to IMS Log
 - * 8. Put the Message to the SQ Ready Queue
 - * 9. Notify IMSs that have Interest if Queue goes from Empty to Non-Empty

 10. Notify Sender the Message is Received
- * = Shared Queues Only

Where messages are Kept

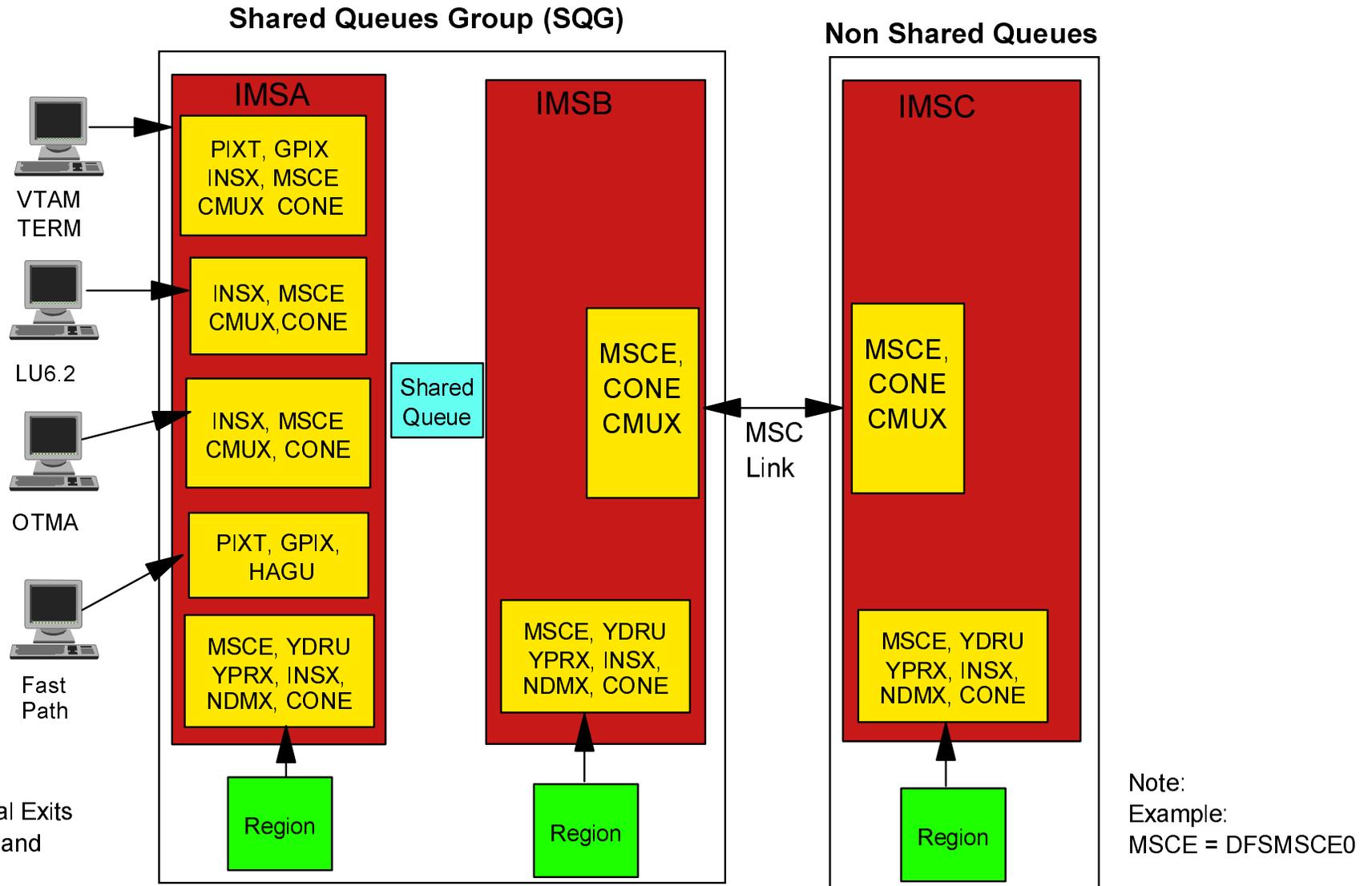


User Exits That Can Affect Message Routing

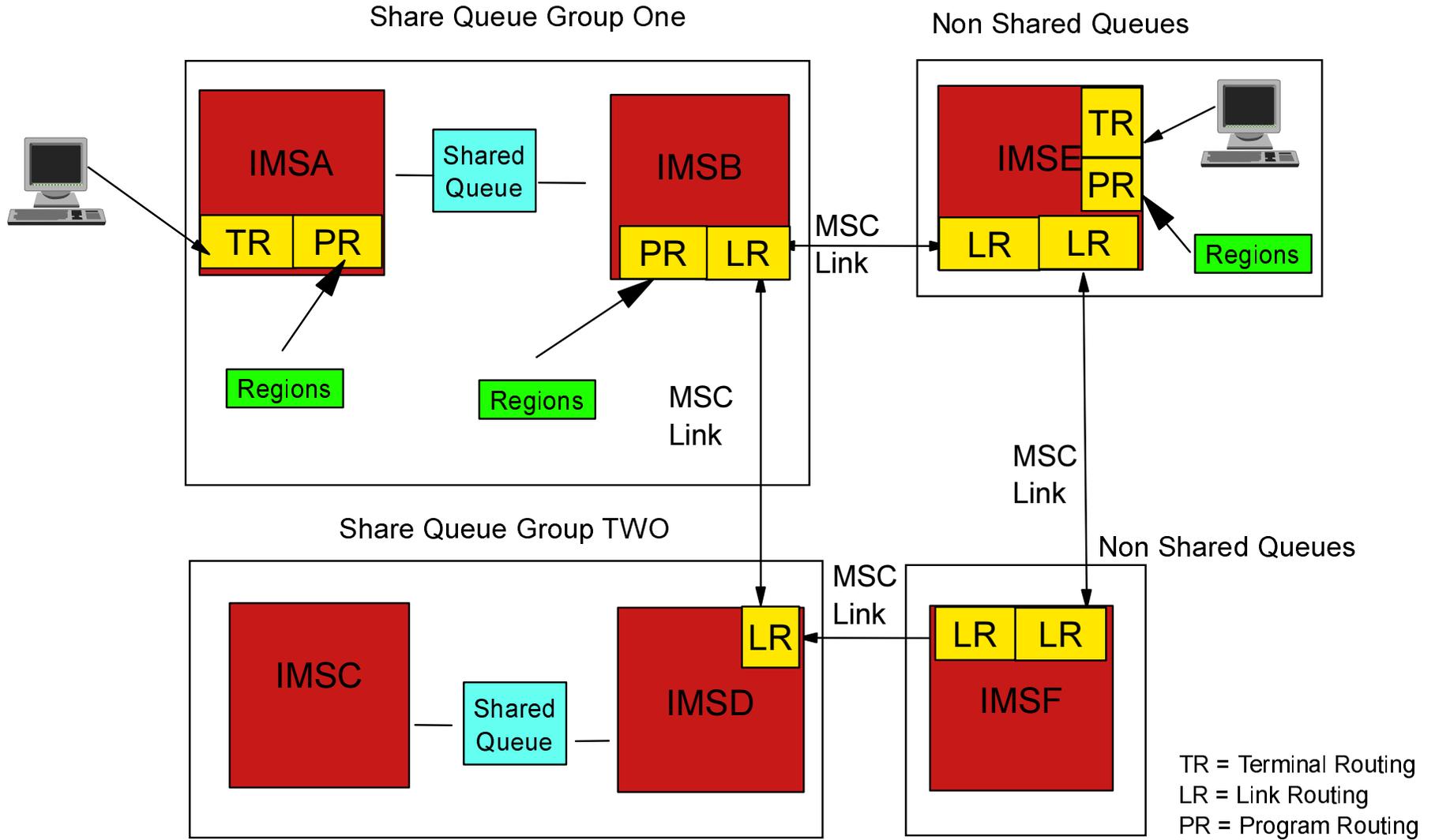
(1 of 2)

- **DFSPIXT0** - Physical Terminal Input Edit Routine
 - ▶ Non-MFS,LU6.2, or OTMA Input Message Editor selectable by terminal, Can change destination.
- **DFSGPIX0** - Global Physical Terminal Input Edit Routine
 - ▶ Non-MFS,LU6.2, or OTMA Input Message Editor for entire IMS, can change destination.
- **DFSINSX0** - Output Creation Exit Routine
 - ▶ Can create destinations and users
- **DFSMSCEO** - TM/MSC Routing Exit
 - ▶ Consolidated Exit for Terminal, Link, and Program Routing
 - ▶ Replaces DFSCMTR0, DFSCMLR0, DFSCMPR0, or DFSNPRT0
 - ▶ Can reroute almost all Terminal, LU6.2, OTMA, Program, and MSC Link Messages
- **DFSYDRU0** - OTMA Destination Resolution Exit
 - ▶ Change Destination of OTMA Output Messages Inserted from a Transaction
- **DFSYPRX0** - OTMA Pre-routing Exit
 - ▶ Select Output messages to be Processed by either OTMA or IMS non-OTMA Destination
- **DFSCMUX0** - Reroute messages to be Discarded by IMS
 - ▶ Reroute Terminal, LU6.2, MSC Link messages being discarded by IMS
- **DFSCONE0** - Conversation Abnormal Termination Exit
 - ▶ Reroute the Conversation Scratch Pad Associated with a Abnormal Terminated Conversation Message
- **DFSNDMX0** - Non-Discardable Message Exit
 - ▶ Queue, Requeue, or Discard Input Message for an Abending Transaction
- **DBFHAGU0** - Fast Path Input Edit/Routing Exit
 - ▶ Select Transaction to Run Local/Global or Full Function

User Exits That Can Affect Message Routing (2 of 2)



MSC Routing Exits



Transaction Manager and MSC

Message Routing and Control User Exit (DFSMSCE0)

- IMS 7.1 and Later
- One standalone module with entry point for each point of control
 - ▶ 12 Possible Entry Points total
 - ▶ Caller Flags to indicate which entry point is being called
 - ▶ One Common parameter Interface for all Entry Points
- IMS calls exit if User selected the Entry Point
- Exit called at IMS Init and Term and for **all** User messages destined to a Transaction, LTERM, or MSC Link
- More routing information
 - ▶ Destination and Source names and SYSIDs
 - ▶ Destination and Source MSNAMES
 - ▶ SYSID Table
 - ▶ IMSID of calling IMS
 - ▶ User Data Segments and User Prefix

Transaction Manager and MSC

Message Routing and Control User Exit (DFSMSCE0)

- IMS Environment Flags (MSC, Shared Queues)
- Exit Supported in Non-MSC and MSC Environments
- Exit may request user prefix to attach to the message
 - ▶ User prefix presented to exit if one already exists
- User macros for mapping parameter area and selecting entry points
- Sample Exit demonstrating **all** Routing Capabilities
- User Exit allowed to Reject Any Message
- Exit passed 6 Save sets and 512 byte Work Area
- Replaces (DFSCMTR0, DFSCMLR0, DFSCMPR0, DFSNPRT0)
 - ▶ Old Exits to be Phased Out

Queue Control Facility (QCF) Ver 1.1

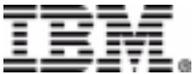
IQCP99 ENTER to continue.

```
===== *
=====
===
===
===
===
=====
=====
```

Information Management System Queue Control Facility (QCF) Version 1 Release 1

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QCF Message Query

```
IQCP90          IMS QUEUE CONTROL FACILITY

Command ===>

                               JDTE. .2001.253
Select a task for IMS2   or press END to exit.   TIME. .20:59:52.59
                               DATE. .2001/09/10

Task . . 1   1 List   List queued messages by queue type and destination

                2 Filter List queued messages using filtering statements
```

QCF List Messages on Destinations (Non-Shared Queues IMS)

```
IQCP91A          IMS QUEUE CONTROL FACILITY
Generate parameters for LIST for IMS3 IMS system
Command ==>

                                JDTE. .2001.255
Press ENTER to continue or END to exit.          TIME. .21:01:06.39
                                DATE. .2001/09/12

Queue Type Filters within Local Message Queue
All      (Y).. Y          APPC      (Y)..
LTERM    (Y)..          OTMA      (Y)..
Remote   (Y)..          Serial    (Y)..
Suspend  (Y)..          Transaction (Y)..

Options
Get old msgs . . . (Number of 24 hour periods prior to current time)
Record count(Y).. Y
Generate parameters for:
INCLUDE  (Y)..          EXCLUDE   (Y)..

QCF user built control statement data set (if required):
Data set name . .
Member . . . . .
```

QCF List Messages on Destinations (Shared Queues IMS)

```
IQCP91S1          IMS QUEUE CONTROL FACILITY
Structures/queues available for LIST  processing for IMS2  IMS system
Command ==>>

                                JDTE. .2001.253
Press ENTER to continue or END to exit          TIME. .20:56:21.34
                                DATE. .2001/09/10

CQS Structure/Message Queue Filters
Primary  (Y).. Y           Local  (Y).. Y
Overflow (Y).. Y

Queue Type Filters within Selected CQS Structures/Message Queues.
All      (Y).. Y           APPC   (Y)..
LTERM   (Y)..             OTMA   (Y)..
Remote  (Y)..             Serial (Y)..
Suspend (Y)..             Transaction (Y)..
Cold    (Y)..

Options
Get old msgs ... (Number of 24 hour periods prior to current time)
Record count(Y).. Y

Generate parameters for:
INCLUDE  (Y)..             EXCLUDE (Y)..

QCF user built control statement data set (if required):
Data set name ...
Member    ..
```

QCF List Each Message on a Single Destination

IQCP94 IMS QUEUE CONTROL FACILITY Row 1 to 10 of 10
 IMS system . IMS2 QCF task . LIST For Q types . ALL
 Command ===>

JDTE. .2001.253

Select an option or press END to exit. TIME. .21:00:58.35

DATE. .2001/09/10

Table options: copy(P),delete(E),copy/delete(Z) all msgs in table

Row options: copy(C),delete(D),copy/delete(X),list(L),unlock(U) in row

Sort (A or D):

S Destination	Struc/ Queue	Q Typ	Percent Lmg	--- Msg	Count ---	Status
Name				Prim	2ndry	
L62IMS1	TRAN31V0	PRI	AP - -	1	0	
LTERM1		PRI	LT - -	1	0	
T3270LC		PRI	LT - -	3	0	
IMSUS03		PRI	LT - -	2	0	
L62TERM1		PRI	LT - -	1	0	
CLIENT1	TPIPE1	PRI	OT - -	5	1	
TRAN31C0		PRI	TR - -	2	0	
TRAN31B0		PRI	TR - -	2	0	
L TRAN12V0		PRI	TR - -	5	0	
TRAN31B1		PRI	TR - -	1	0	

***** Bottom of data *****



QCF View a Message

```
IQCP95          IMS QUEUE CONTROL FACILITY          Row 1 to 5 of 5
IMS jobname . IMS2   QCF task . LIST
Command ===>

                                JDTE. .2001.253
Select an option or press END to exit.          TIME. .21:04:25.93
                                DATE. .2001/09/10

Get more data:   yes(Y)
Table options:  copy(P),delete(E),copy/delete(Z),unlock(U) all msgs in table
Row options:    copy(C),delete(D),copy/delete(X),view(V),unlock(U) in row
Messages for:
CQS STRUCTURE/QUEUE=PRIMARY, Q TYPE=TRANSACTION, DEST=TRAN12V0
Sort A/D:
----- Source ----- 2ndry
S Name      IMSID  SYSID  Format  Msgcnt  Date/Time  Status
TMEMBER= CLIENT1  IMS1    3  TESTMAP    0  2000104/003854
TMEMBER= CLIENT1  IMS1    3  TESTMAP    0  2000104/003643
TMEMBER= CLIENT1  IMS1    3  TESTMAP    0  2000104/003614
V LTERM = T3270LC IMS1    10  DFSMO2    0  2001246/195636
LTERM = SLU1MAST IMS2    20          0  1999309/014056
***** Bottom of data *****
```

Sample Message (1 of 2)

QCF Message View

BASIC PREFIX	
+00000000	01BD0000 01C18110 08000002 08000002 . .Aa. . .
+00000010	019E9000 C9D4E2F1 40404040 B658B26C .° IMS1 i¥%
+00000020	A77513C9 C9D4E2F1 40404040 B658B26C x..IMS1 ¶i¥%
+00000030	A77513C9 80000100 00000000 00000000 x..
SYSTEM PREFIX	
+00000000	00408100 C8000000 D3F3F2F7 F0C34040 a H L3270C
+00000010	00010000 00000000 00000000 00000001
+00000020	E3F3F2F7 F0D3C340 E3D9C1D5 F1F2E5F0 T3270LC TRAN12V0
+00000030	00000000 00000000 C4C6E2D4 D6F24040 DFMSO2
EXTENDED PREFIX HEADER	
+00000000	00108600 011E7C00 00000000 00000000 .f..@
SECURITY PREFIX	
+00000000	00168800 E3F3F2F7 F0D3C340 40404040 .h T3270LC
+00000010	40404040 D300 L
WORK LOAD MANAGER PREFIX	
+00000000	00108900 00000000 B658B26C AF74DB85 . . ¶i¥%@.ûe
SYSTEM EXTENSION PREFIX	
+00000000	00188A00 2001246F 19563651 2524028D .«. .α.é. .
+00000010	00000000 00000000
MSC EXTENSION PREFIX	
+00000000	005C8B00 00000000 00000000 00000000 *»
+00000010	02000080 00000000 00000000 00000000 . Ø
+00000020	00000000 00000000 00000000 0000000A
+00000030	00000000 00000000 00000000 00000003
+00000040	0014000A C9D4E2F1 40404040 B658B26C . . IMS1 ¶i¥%
+00000050	A77513C9 00000000 00000000 x..

Basic Prefix

DRRNs, Origin and Processing UOW

System Prefix

Source and Destination in this IMS

Extended Prefix Header

Prefix Flags

Security Prefix

USERID and ID Type, SAF Name

Workload Manager Prefix

Token, MSG Arrival Time

System Extension Prefix

Universal Time (UTC)

MSC Extension Prefix

Destination and Source SYSIDs, Origin UOW, Flags, Traces

Byte Two = Prefix Code (81 to 8F), Except for Basic Prefix

Sample Message (2, of 2)

QCF Message View

```
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000001 |.δ . . .|
+00000010 E3D9C1D5 F2F1E5F0 E3F3F2F7 F0D3C340
|TRAN21V0T3270LC |
+00000020 140A0148 00080000 00000000 00000000 |...ç . . |
+00000030 00000000 00000000 00000000 00000000 | . . . |
+00000040 00000000 07100000 00000000 00000000 | . . . |
+00000050 00000000 000001E3 D9C1D5F2 F1E5F040 | .TRAN21V0 |
+00000060 40404040 40400000 00000000 00000000 | . . . |
+00000070 00000710 . . . . . | . . . |

USER PREFIX
+00000000 00208E01 E3C8C9E2 40C9E240 D4E840E4C9 |...THIS IS MY US|
+00000010 C5D940C4 C1E3C140 40404040 40404040 |ER DATA |

USER DATA FROM PRIMARY RECORD
+00000000 001F0301 E3D9C1D5 F2F1E5F0 40D9C5E2 |...TRAN21V0 RES|
+00000010 D74DC4C1 E3C14D50 E3D9C1D5 5D5D40 |P(DATA(&TRAN)) |
```

Transaction Manager Routing Prefix

Final Destination name of the Message. Source name of LTERM where the message originated.

Destination Characteristics, Routing Flags, Shared Queue QNAME, Traces.

User Prefix

User Data added by one of the MSC Routing Exits (DFSMSCE0).

User Data Segments

User data passed to End User

End User = Application Program or Terminal

Message Flow Examples

- Example 1, Page 38 - 42
 - ▶ Transaction Message from VTAM Terminal in FE, to BE, to Remote, and Response Message back to the FE IMS
- Example 2, Page 43 - 52
 - ▶ APPC Sync Transaction Message from FE, to BE, to Remote, and Response Message back to BE IMS
- Example 3, Page 53 - 64
 - ▶ APPC Async Transaction Message from FE, to BE, to Remote, and Response Message back to FE IMS
- Example 4, Page 65 - 66
 - ▶ Local Transaction from VTAM Terminal on FE, and Response Queued to FE IMS
- Example 5, Page 67 - 68
 - ▶ Another Local Transaction from VTAM Terminal on FE, Runs on BE, and Response Queued to FE
- Example 6, Page 69 - 70
 - ▶ Message Switch from VTAM Terminal in SQ IMS to Terminal in Remote IMS
- Example 7, Page 71 - 82
 - ▶ OTMA Transaction Message from FE, to BE, to Remote, and Response Message back to FE IMS

FE = Front End

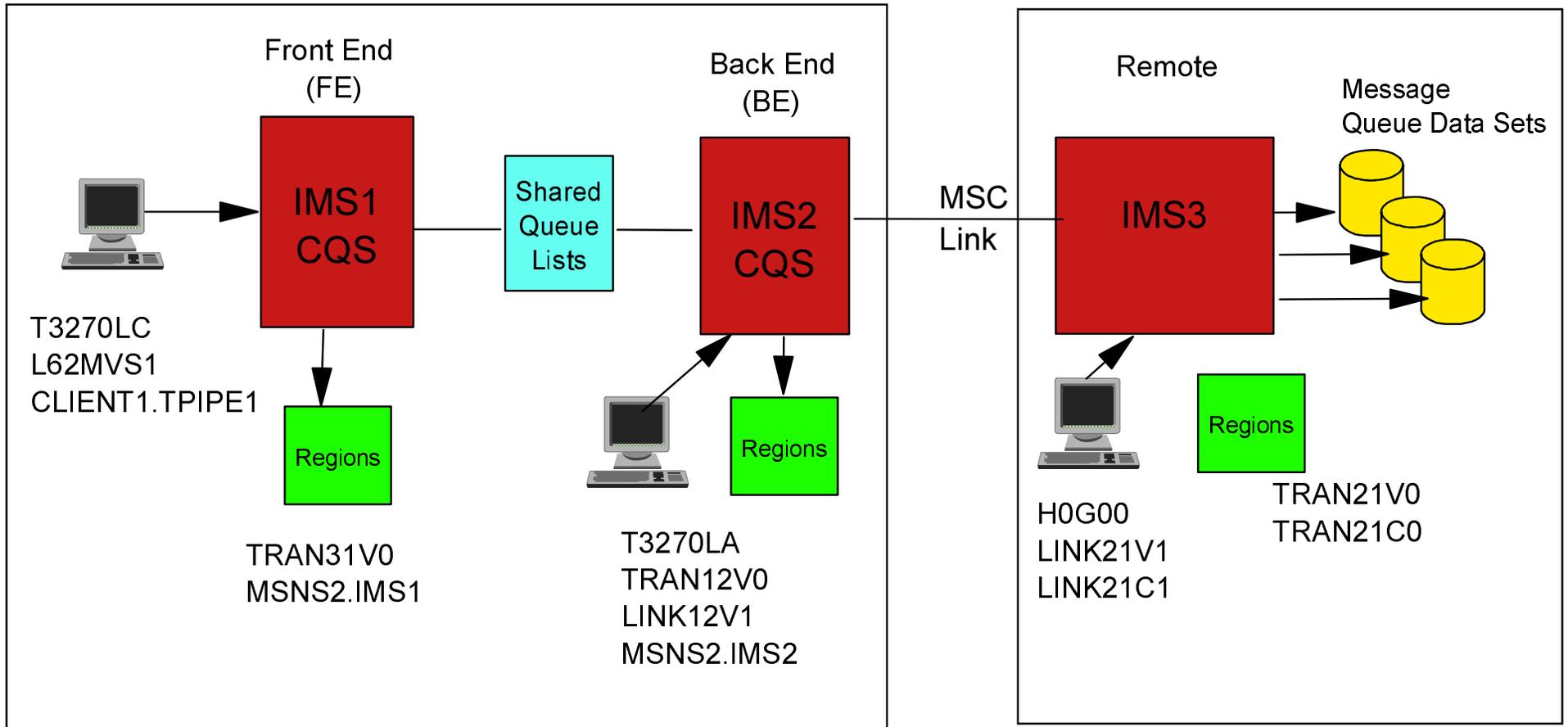
BE = Back End



Message Flow Environment

Shared Queues
(SQ)

Non Shared Queues
(Non-SQ)



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Example 1/ IMS1 - Transaction Entered from Terminal in FE SQ IMS and Queued to TRANRDY Queue

```

BASIC PREFIX
+00000000 01C60000 01C18110 04000002 04000002 |.F .Aa.. ..|.
+00000010 019E1000 C9D4E2F1 40404040 B6625746 |... IMS1 |Äÿä|
+00000020 34AA834B C9D4E2F1 40404040 B6625746 |.j.c.IMS1 |Äÿä|
+00000030 34AA834B 80000100 00000000 00000000 |.j.c.Ø. |
SYSTEM PREFIX
+00000000 00408100 C8000000 D3F3F2F7 F0C34040 | a H L3270C |
+00000010 00010000 00000000 00000000 00000001 |. |
+00000020 E3F3F2F7 F0D3C340 E3D9C1D5 F2F1E5F0 |T3270LC TRAN21V0|
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001246F 19563630 4691028D |.« ...?.i.ä.j.y|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 00000000 00000000 00000000 |*» |
+00000010 02000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 0000000A |. |
+00000030 00000000 00000000 00000000 0000000A |. |
+00000040 0014000A C9D4E2F1 40404040 B6625746 |. .IMS1 |Äÿä|
+00000050 34AA834B 00000000 00000000 |.j.c. |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000003 |.ð. |
+00000010 E3D9C1D5 F2F1E5F0 E3F3F2F7 F0D3C340 |TRAN21V0T3270LC|
+00000020 140A0148 00080000 00000000 00000000 |...ç. |
+00000030 00000000 00000000 00000000 00000000 |. |
+00000040 00000000 07100000 00000000 00000000 |. |
+00000050 00000000 000001E3 D9C1D5F2 F1E5F040 |. .TRAN21V0|
+00000060 40404040 40400000 00000000 00000000 |. |
+00000070 00000710 |.. |
USER DATA FROM PRIMARY RECORD
+00000000 00280301 E3D9C1D5 F2F1E5F0 40D9C5E2 |...TRAN21V0 RES|
+00000010 D74DC4C1 E3C14DE3 85A2A340 D485A2A2 |P(DATA(Test Mess|
+00000020 81878540 F15D5D40 |age 1)) |

```

Origin IMSID = **IMS1**
 System where MSG originated

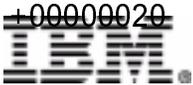
Processing IMSID = **IMS1**
 System where this MSG was processed

Source LTERM = **T3270LC**
 Destination Trancode = **TRAN21V0**

Universal Time Stamp
 year = **2001**
 Day = **246** = September 3
 Time = **19** hrs, **56** minutes,
36 seconds, **3** tenths of a sec,
0 hundredths of a sec, **4** mili sec,
6 tenths of a mili sec, **9**
 hundredths of a mili sec, **1** micro
 second, - **28** fifteen minute
 intervals (7 hours) to get local
 time (ie: 19 - 7 = 12PM).

Destination SYSID = **0014** (hex)
 Source SYSID = **000A** (hex)

Destination Trancode = **TRAN12V0**
 Source LTERM = **T3270C**
 SQ QNAME = **01** (TRANRDY),
TRAN12V0
 User Data Destination = **TRAN12V0**



Example 1/ IMS2 - Transaction Read from SQ in BE IMS and Queued to MSC Link

BASIC PREFIX

```
+00000000 01C60000 01C18110 08000002 08000002 |.F .Aa.. .. .|
+00000010 019E0002 C9D4E2F1 40404040 B6625746 |.. .IMS1 ¶Äiã|
+00000020 34AA834B C9D4E2F1 40404040 B6625746 |.|.c.IMS1 ¶Äiã|
+00000030 34AA834B 40000100 00000000 00000000 |.|.c. . .|
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 D3F3F2F7 F0C34040 | a H L3270C |
+00000010 00010000 00000000 00000000 00000001 |. . . .|
+00000020 E3F3F2F7 F0D3C340 E3D9C1D5 F2F1E5F0 |T3270LC
```

TRAN21V0|

```
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
```

SYSTEM EXTENSION PREFIX

```
+00000000 00188A00 2001246F 19563630 4691028D |.« ...?.î..ãj.y|
+00000010 00000000 00000000 | |
```

MSC EXTENSION PREFIX

```
+00000000 005C8B00 00000000 00000000 00000000 | *» |
+00000010 02000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 0000000A |. .|
+00000030 00000000 00000000 00000000 0000000A |. .|
+00000040 0014000A C9D4E2F1 40404040 B6625746 |.. .IMS1 ¶Äiã|
+00000050 34AA834B 00000000 00000000 |.|.c. |
```

TRANSACTION MANAGER ROUTING PREFIX

```
+00000000 00748C00 0000000A 00000000 00000003 |.đ . . .|
+00000010 E3D9C1D5 F2F1E5F0 E3F3F2F7 F0D3C340 |TRAN21V0T3270LC
```

```
+00000020 140A0148 00080000 00000000 00000000 |...ç . .|
+00000030 00000000 00000000 00000000 00000000 |. . . .|
+00000040 00000000 07100000 00000000 00000000 |. . . .|
+00000050 00000000 00000316 616D6FEA 3C4E0BD3 |. /_??.+.L|
+00000060 1E980000 00000000 00000000 00000000 |.q . . .|
+00000070 00000710 |. . . .|
```

USER DATA FROM PRIMARY RECORD

```
+00000000 00280301 E3D9C1D5 F2F1E5F0 40D9C5E2 |...TRAN21V0 RES|
+00000010 00000010 D74DC4C1 E3C14DE3 85A2A340 D485A2A2 |P(DATA(Test Mess|
+00000020 00000020 81878540 F15D5D40 |age 1)) © BM Corporation 2001
```

Origin IMSID = **IMS1**

System where MSG originated
Processing IMSID = **IMS1**
System where this MSG was
processed.

Source LTERM = **T3270LC**

Destination Trancode = **TRAN21V0**

Universal Time Stamp (same)

2001246F195636304691028D

Destination SYSID = **0014** (hex)

Source SYSID = **000A** (hex)

Destination Trancode = **TRAN21V0**

Source LTERM = **T3270C**

User Data Destination = **TRAN12V0**

Example 1/IMS3 - Transaction Sent Across MSC Link and Received in Remote Non-SQ IMS and Queued to Transaction Queue

```

BASIC PREFIX
+00000000 01C60000 01C18110 04000006 04000006 |.F .Aa.. .. .|
+00000010 019E0008 C9D4E2F1 40404040 B6625746 |.. .IMS1 ¶Äiä|
+00000020 34AA834B C9D4E2F3 40404040 B662A7F7 |.c.IMS3 ¶Äx7|
+00000030 7A1FACC0 00000000 00000000 00000000 |.Ð{ |
SYSTEM PREFIX
+00000000 00408100 C8000000 00000017 00000001 | a H . . .|
+00000010 00010000 00000000 00000000 00000001 |. . . .|
+00000020 D3C9D5D2 F2F1E5F1 E3D9C1D5 F2F1E5F0
|LINK21V1TRAN21V0|
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001246F 19563630 4691028D |.« ...?.î.ãj.ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001246F 19563630 4691028D |*» ...?.î.ãj.ý|
+00000010 04000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 0000000A |. . . .|
+00000030 00000000 00000000 00000000 000A0012 |. . . .|
+00000040 0014000A C9D4E2F1 40404040 B6625746 |.. .IMS1 ¶Äiä|
+00000050 34AA834B 00000000 00000000 |.c. |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000300 |.ð . . . .|
+00000010 E3D9C1D5 F2F1E5F0 E3F3F2F7 F0D3C340
|TRAN21V0T3270LC |
+00000020 140A0144 1088E3F3 F2F7F0D3 C3400000 |...à.hT3270LC |
+00000030 40404040 40404040 2001247F 01573702 |. . .".î. .|
+00000040 3529028D 07100000 00000000 00000000 |...ý.. |
+00000050 00000000 00000316 616D6FEA 3C4E0BD3 |. /_?².+L|
+00000060 1E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 |.. |
USER DATA FROM PRIMARY RECORD
+00000000 00280301 E3D9C1D5 F2F1E5F0 40D9C5E2 |...TRAN21V0 RES|
+00000010 D74DC4C1 E3C14DE3 85A2A340 D485A2A2 |IP (Data) (Text)
Mess
+00000020 81878540 F15D5D40 |age 1)) |

```

Origin IMSID = **IMS1**
 System where MSG originated
 Processing IMSID = **IMS3**
 System where this MSG was processed
 Source MSNAME = **LINK21V1**
 Destination Trancode = **TRAN21V0**

Universal Time Stamp (same)
2001246F195636304691028D

Destination SYSID = **0014** (hex)
 Source SYSID = **000A** (hex)

Destination Trancode = **TRAN21V0**
 Source LTERM = **T3270LC**

User Data Destination = **TRAN21V0**

Example 1/IMS3 - Response Inserted by Application in Remote Non-SQ IMS and Queued to MSC Link

BASIC PREFIX

```
+00000000 01B00000 03C48210 04000003 04000003 |.^ .Db.. .. |
+00000010 019E0000 C9D4E2F1 40404040 B6625746 |.. IMS1 ¶Äřã|
+00000020 34AA834B C9D4E2F3 40404040 B662B136 |.ic.IMS3 ¶Ä£.|
+00000030 A5307A41 00000000 00000000 00000000 |v.: |
```

SYSTEM PREFIX

```
+00000000 00408100 C8100000 00000017 00000001 | a H. . . |
+00000010 00010001 00010000 00000000 00000001 |... |
+00000020 D3C9D5D2 F2F1E5F1 D3C9D5D2 F2F1E5F1
|LINK21V1LINK21V1|
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
```

SYSTEM EXTENSION PREFIX

```
+00000000 00188A00 2001246F 19563630 4691028D |.« ...?..ãj.ý|
+00000010 00000000 00000000 | |
```

MSC EXTENSION PREFIX

```
+00000000 005C8B00 2001246F 19563630 4691028D | *» ...?..ãj.ý|
+00000010 05000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 000A0014 | .. |
+00000030 00000000 00000000 00000000 000A0012 | .. |
+00000040 000A000A C9D4E2F1 40404040 B6625746 |..IMS1 ¶Äřã|
+00000050 34AA834B 00000000 00000000 |.ic. |
```

TRANSACTION MANAGER ROUTING PREFIX

```
+00000000 00748C00 00000A14 00000000 00000302 |.đ .. .. |
+00000010 E3F3F2F7 F0D3C340 E3F3F2F7 F0D3C340 |T3270LC T3270LC |
+00000020 0A0A0300 3088E3F3 F2F7F0D3 C3400000 |... .hT3270LC |
+00000030 40404040 40404040 2001247F 01573702 | ...".i.. |
+00000040 3529028D 07100000 00000000 00000000 |...ý.. |
+00000050 00000000 00000316 616D6FEA 3C4E0BD3 | ../_??.+L|
+00000060 1E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 | .. |
```

USER DATA FROM PRIMARY RECORD

```
+00000000 00120300 E3C5E2E3 40D4C5E2 E2C1C7C5 |.. TEST
```

MESSAGE

```
+00000010 40F1 | 1 |
```

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Origin IMSID = **IMS1**
System where MSG originated
Processing IMSID = **IMS3**
System where this MSG is proc

Source MSNAME = **LINK21V1**
Destination MSNAME = **LINK21V1**

Universal Time Stamp (same)
2001246F195636304691028D

Destination SYSID = **000A** (hex)
Source SYSID = **000A** (hex)

Destination LTERM = **T3270LC**
Source LTERM = **T3270LC**

IMS Technical Conference

Example 1/IMS2 - Response Received in BE IMS from MSC Link and Queued to LTERM Ready Queue

BASIC PREFIX

```
+00000000 01B00000 01C48210 08000003 08000003 | ^ .Db.. .. |
+00000010 019E1000 C9D4E2F1 40404040 B6625746 | ... IMS1 ¶Äřä|
+00000020 34AA834B C9D4E2F2 40404040 B662C620 | .|c.IMS2 ¶Äř|
+00000030 F5BFBF83 80000500 00000000 00000000 | 5××cØ . |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 00000038 00000001 | a H . . |
+00000010 00010000 00000000 00000000 00000001 | . . |
+00000020 D3C9D5D2 F1F2E5F1 E3F3F2F7 F0D3C340 | LINK12V1T3270LC |
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
```

SYSTEM EXTENSION PREFIX

```
+00000000 00188A00 2001246F 19563630 4691028D | .« ...?.î..āj.ý|
+00000010 00000000 00000000 | |
```

MSC EXTENSION PREFIX

```
+00000000 005C8B00 2001246F 19563630 4691028D | *» ...?.î..āj.ý|
+00000010 04000080 00000000 00000000 00000000 | . Ø |
+00000020 00000000 00000000 00000000 000A0014 | . . |
+00000030 00000000 00000000 0000000A 00120003 | . . |
+00000040 000A000A C9D4E2F1 40404040 B6625746 | ..IMS1 ¶Äřä|
+00000050 34AA834B 00000000 00000000 | .|c. |
```

TRANSACTION MANAGER ROUTING PREFIX

```
+00000000 00748C00 00000A14 00000000 00030200 | .đ .. .. |
+00000010 E3F3F2F7 F0D3C340 E3F3F2F7 F0D3C340 | T3270LC T3270LC |
+00000020 0A0A0304 3088E3F3 F2F7F0D3 C3400000 | .....hT3270LC |
+00000030 40404040 40404040 2001247F 04123358 | ..."..." |
+00000040 5200028D 07100000 00000000 00000000 | ê .ý.. |
+00000050 00000000 000005E3 F3F2F7F0 D3C34040 | .T3270LC |
+00000060 40404040 40400000 00000000 00000000 | |
+00000070 00000710 | .. |
```

USER DATA FROM PRIMARY RECORD

```
+00000000 00120300 E3C5E2E3 40D4C5E2 E2C1C7C5 | .. TEST MESSAGE|
+00000010 40F1 | 1 |
```

Origin IMSID = **IMS1**
System where MSG originated

Processing IMSID = **IMS2**
System where this MSG was
processed

Source MSNAME = **LINK12V1**
Destination LTERM = **T3270LC**

Universal Time Stamp (same)
2001246F195636304691028D

Destination SYSID = **000A** (hex)
Source SYSID = **000A** (hex)

Destination LTERM = **T3270LC**
Source LTERM = **T3270LC**



Example 2/IMS1 - Transaction Entered from APPC SYNC Conversation in FE SQ IMS and Queued to TRANRDY Queue (1 of 2)

BASIC PREFIX

```
+00000000 02C60000 01D18194 08000002 08000002 |.F .Jam. ...|
+00000010 02A41000 C9D4E2F1 40404040 B668F055 |.u. IMS1  ¶Ç0í|
+00000020 59407582 C9D4E2F1 40404040 B668F055 |ß .bIMS1  ¶Ç0í|
+00000030 59407582 80000100 00000000 00000000 |ß .bØ . |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 00000000 00000000 | a H |
+00000010 00020000 00000000 00000000 00000001 |. |
+00000020 FDFFFFFFFF 0B899C60 E3D9C1D5 F2F1E5F0 |Û.....i.-TRAN21V0|
+00000030 00000000 00000000 40404040 40404040 | |
```

APPC/LU6.2 PREFIX

```
+00000000 01068700 00C2D588 A000D600 C9D4E2D5 |..g BNhµ O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1 L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 |
+00000030 00000000 0B899C60 40404040 40404040 | .i.- |
+00000040 40404040 40404040 0BD05A70 00000004 | }! . |
+00000050 E3D9C1D5 F2F1E5F0 D3F6F2D4 E5E2F140 |TRAN21V0L62MVS1|
|
+00000060 00000000 B668F055 55723ECB 00000000 | ¶Ç0ííÊ.ó |
+00000070 00000000 00000000 00000000 00000000 | |
+00000080 00000000 00000000 00000008 E3D9C1D5 | .TRAN|
+00000090 F2F1E5F0 50018046 15519555 55555555 |21V0&.Øã.éníííí|
+000000A0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000B0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |ííííftxa^¼u.ííí|
+000000D0 55555555 09151515 15151515 15151515 |íííí.....|
+000000E0 15151515 00000000 00000000 00000000 |.... |
+000000F0 00000000 00000000 00000000 00000000 | |
+00000100 00000000 0000 | |
```

Origin IMSID = **IMS1**
System where MSG originated
Processing IMSID = **IMS1**
System where this MSG was
processed

Destination Trancode = **TRAN21V0**

Source LUnicode = **L62MVS1**

Destination Trancode = **TRAN21V0**



Example 2/IMS1 - Transaction Entered from APPC SYNC Conversation in FE SQ IMS and Queued to TRANRDY Queue (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001252F 01531966 8515028D |.« .....ë.Ãe..ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 00000000 00000000 00000000 | *» |
+00000010 02000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 00000000A | |. |
+00000030 00000000 00000000 00000000 00000000A | |. |
+00000040 0014000A C9D4E2F1 40404040 B668F055 |..IMS1 ¶Ç0i|
+00000050 59407582 00000000 00000000 |ß .b |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 00000000A 00000000 00000003 |.ð . |
+00000010 E3D9C1D5 F2F1E5F0 FFFFFFFF 0B899C60 |TRAN21V0Û....i.-|
+00000020 140A0148 40080000 00000000 00000000 |...ç . |
+00000030 00000000 00000000 00000000 00000000 | | |
+00000040 00000000 07100000 00000000 00000000 | .. |
+00000050 00000000 000001E3 D9C1D5F2 F1E5F040 | |.TRAN21V0 |
+00000060 40404040 40400000 00000000 00000000 | | |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 00220300 E3D9C1D5 F2F1E5F0 40D6E4E3 |.. TRAN21V0 OUT|
+00000010 C2D6E4D5 C440D4C5 E2E2C1C7 C540E2C5 |BOUND MESSAGE
SE|
+00000020 D5E3 |NT |

```

Universal Time Stamp
2001252 01531966 8515028D

Destination SYSID =0014 (hex)
Source SYSID = 000A (hex)

Destination Trancode =TRAN21V0

User Data Destination = TRAN21V0

Example 2/IMS2 - APPC/SYNC Transaction Read from SQ in BE IMS and Queued to MSC Link (1 of 2)

BASIC PREFIX

```
+00000000 02C60000 01D18194 08000003 08000003 |.F .Jam. .. .|
+00000010 02A40002 C9D4E2F1 40404040 B668F055 |.u .IMS1 ¶Ç0í|
+00000020 59407582 C9D4E2F1 40404040 B668F055 |ß .bIMS1 ¶Ç0í|
+00000030 59407582 40000100 00000000 00000000 |ß .b . |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 00000000 00000000 | a H |
+00000010 00020000 00000000 00000000 00000001 | . . |
+00000020 FDFFFFFFFF 0B899C60 E3D9C1D5 F2F1E5F0 |Ü.....i.-TRAN21V0|
+00000030 00000000 00000000 40404040 40404040 | |
```

APPC/LU6.2 PREFIX

```
+00000000 01068700 00C2D588 A000D600 C9D4E2D5 |.g BNhµ O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1 L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 |
+00000030 00000000 0B899C60 40404040 40404040 | .i.- |
+00000040 40404040 40404040 0BD05A70 00000004 | }! . |
+00000050 E3D9C1D5 F2F1E5F0 D3F6F2D4 E5E2F140 |TRAN21V0L62MVS|
+00000060 00000000 B668F055 55723ECB 00000000 | ¶Ç0íîË.ô |
+00000070 00000000 00000000 00000000 00000000 | |
+00000080 00000000 00000000 00000008 E3D9C1D5 | .TRAN|
+00000090 F2F1E5F0 50018046 15519555 55555555 |21V0&.Øã.éníííí|
+000000A0 55555555 55555555 55555555 55555555 |ííííííííííííí|
+000000B0 55555555 55555555 55555555 55555555 |ííííííííííííí|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |ííííftxa^1¼u.ííí|
+000000D0 55555555 09151515 15151515 15151515 |íííí.....|
+000000E0 15151515 00000000 00000000 00000000 |....|
+000000F0 00000000 00000000 00000000 00000000 | |
+00000100 00000000 0000 | |
```

Origin IMSID = **IMS1**
System where MSG originated
Processing IMSID = **IMS1**
System where this MSG was
processed

Destination Trancode = **TRAN21V0**

Source LUnicode = **L62MVS1**

Destination Trancode = **TRAN21V0**



Example 2/IMS2 - APPC/SYNC Transaction Read from SQ in BE IMS and Queued to MSC Link (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001252F 01531966 8515028D |.« .....ë.Ãe..ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 00000000 00000000 00000000 |*» |
+00000010 02000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 0000000A | |.
+00000030 00000000 00000000 00000000 0000000A | |.
+00000040 0014000A C9D4E2F1 40404040 B668F055 |..IMS1 ¶Çóí|
+00000050 59407582 00000000 00000000 |ß .b |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000003 |.đ . |
+00000010 E3D9C1D5 F2F1E5F0 FDFFFFFFFF 0B899C60 |TRAN21V0Û....i.-|
+00000020 140A0148 40080000 00000000 00000000 |...ç . |
+00000030 00000000 00000000 00000000 00000000 | |
+00000040 00000000 07100000 00000000 00000000 | .. |
+00000050 00000000 00000316 68D26A77 A43E0BD3 | ..ÇK|.u..L|
+00000060 1E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 00220300 E3D9C1D5 F2F1E5F0 40D6E4E3 |.. TRAN21V0 OUT|
+00000010 C2D6E4D5 C440D4C5 E2E2C1C7 C540E2C5 |BOUND MESSAGE
SE|
+00000020 D5E3 |NT |

```

Universal Time Stamp (same)
2001252 01531966 8515028D

Destination SYSID = 0014 (hex)
Source SYSID = 000A (hex)

Destination Trancode = TRAN21V0

User Data Destination = TRAN21V0



Example 2/IMS3 - APPC/SYNC Transaction Sent Across MSC Link and Received in Remote Non-SQ IMS and Queued to Transaction Queue (1 of 2)

BASIC PREFIX

```
+00000000 02C60000 01C18190 04000007 04000007 |.F .Aa° . . .|
+00000010 02A40008 C9D4E2F1 40404040 B668F055 |.u .IMS1 ¶Ç0í|
+00000020 59407582 C9D4E2F3 40404040 B668F1E4 |ß .bIMS3 ¶Ç1U|
+00000030 1C12DE88 00000000 00000000 00000000 |..úh |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 00000017 00000001 | a H . . .|
+00000010 00020000 00000000 00000000 00000001 |. . .|
+00000020 D3C9D5D2 F2F1E5F1 E3D9C1D5 F2F1E5F0
|LINK21V1TRAN21V0|
```

```
+00000030 00000000 00000000 40404040 40404040 | |
```

APPC/LU6.2 PREFIX

```
+00000000 01068700 00C2D588 A000D600 C9D4E2D5 |..g BNhµ O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1 L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 |
+00000030 00000000 0B899C60 40404040 40404040 | .i.- |
+00000040 40404040 40404040 0BD05A70 00000004 | .}. |
+00000050 E3D9C1D5 F2F1E5F0 D3F6F2D4 E5E2F140 |TRAN21V0L62MVS1
```

```
|
+00000060 00000000 B668F055 55723ECB 00000000 | ¶Ç0ííÊ.ô |
+00000070 00000000 00000000 00000000 00000000 | |
+00000080 00000000 00000000 00000008 E3D9C1D5 | .TRAN|
+00000090 F2F1E5F0 50018046 15519555 55555555 |21V0&.Øã.éníííí|
+000000A0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000B0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |ííííftxa^¼u.ííí|
+000000D0 55555555 09151515 15151515 15151515 |íííí.....|
+000000E0 15151515 00000000 00000000 00000000 |.... |
+000000F0 00000000 00000000 00000000 00000000 | |
+00000100 00000000 0000 | |
```

Origin IMSID = **IMS1**
 System where MSG originated

Processing IMSID = **IMS3**
 System where this MSG was processed

Source MSNAME = **LINK21V1**
 Destination Trancode = **TRAN21V0**

Source LUsername = **L62MVS1**

Destination Trancode = **TRAN21V0**



Example 2/IMS3 - APPC/SYNC Transaction Sent Across MSC Link and Received in Remote Non-SQ IMS and Queued to Transaction Queue (2 of 2)

SYSTEM EXTENSION PREFIX

```
+00000000 00188A00 2001252F 01531966 8515028D |.« .....ë.Ãe..ý|
+00000010 00000000 00000000 | |
```

MSC EXTENSION PREFIX

```
+00000000 005C8B00 2001252F 01531966 8515028D |*» .....ë.Ãe..ý|
+00000010 04800080 00000000 FFFFFFFF 0B899C60 |.Ø Ø Ù...i.-|
+00000020 00000000 00000000 00000000 0000000A | |.
+00000030 00000000 00000000 00000000 000A0012 | |.
+00000040 0014000A C9D4E2F1 40404040 B668F055 |..IMS1 ¶Ç0í|
+00000050 59407582 00000000 00000000 |ß .b |
```

TRANSACTION MANAGER ROUTING PREFIX

```
+00000000 00748C00 0000000A 00000000 00000300 |.ð . . |
+00000010 E3D9C1D5 F2F1E5F0 D3F6F2D4 E5E2F140 |TRAN21V0L62MVS1
```

```
+00000020 140A0144 50884040 40404040 40400000 |...à&h |
+00000030 40404040 40404040 2001252F 02001779 | ..... |
+00000040 9520028D 07100000 00000000 00000000 |n..ý.. |
+00000050 00000000 00000316 68D26A77 A43E0BD3 | ..ÇK|.u..L|
+00000060 1E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 | .. |
```

USER DATA FROM PRIMARY RECORD

```
+00000000 00220300 E3D9C1D5 F2F1E5F0 40D6E4E3 |.. TRAN21V0 OUT|
+00000010 C2D6E4D5 C440D4C5 E2E2C1C7 C540E2C5 |BOUND MESSAGE
SE|
+00000020 D5E3 |NT |
```

Universal Time Stamp (same)
2001246F195636304691028D

Destination SYSID = 0014 (hex)
Source SYSID = 000A (hex)

Destination Trancode = TRAN21V0
Source LUNAME = L62MVS1

User Data Destination = TRAN21V0



Example 2/IMS3 - SYNC Response Inserted by Application in Remote Non-SQ IMS and Queued to MSC Link (1 of 2)

BASIC PREFIX

```
+00000000 02C10000 03C48290 04000005 04000005 |.A .Db° . . .|
+00000010 02A40000 C9D4E2F1 40404040 B668F055 |.u IMS1 ¶Ç0í|
+00000020 59407582 C9D4E2F3 40404040 B668F3D0 |ß .blIMS3 ¶Ç3}|
+00000030 1CA0AB0B 00000000 00000000 00000000 |.µ¿. |
```

SYSTEM PREFIX

```
+00000000 00408100 C8100000 00000017 00000001 | a H. . . .|
+00000010 00020001 00010000 00000000 00000001 |... .|
+00000020 D3C9D5D2 F2F1E5F1 D3C9D5D2 F2F1E5F1
|LINK21V1LINK21V1|
```

```
+00000030 00000000 00000000 40404040 40404040 | |
```

APPC/LU6.2 PREFIX

```
+00000000 01068700 00C2D588 A000D600 C9D4E2D5 |.g BNµ O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1 L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 |
+00000030 00000000 0B899C60 40404040 40404040 |.i.- |
+00000040 40404040 40404040 0BD05A70 00000004 |.}!. |
+00000050 E3D9C1D5 F2F1E5F0 D3F6F2D4 E5E2F140 |TRAN21V0L62MVS1
|
+00000060 00000000 B668F055 55723ECB 00000000 | ¶Ç0íîÊ.ô |
+00000070 00000000 00000000 00000000 00000000 | |
+00000080 00000000 00000000 00000008 E3D9C1D5 |.TRAN|
+00000090 F2F1E5F0 50018046 15519555 55555555 |21V0&.Øã.éníííí|
+000000A0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000B0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |ííííftxa^¼u.ííí|
+000000D0 55555555 09151515 15151515 15151515 |íííí.....|
+000000E0 15151515 00000000 00000000 00000000 |.... |
+000000F0 00000000 00000000 00000000 00000000 | |
+00000100 00000000 0000 | |
```

Origin IMSID = **IMS1**
 System where MSG originated

Processing IMSID = **IMS3**
 System where this MSG was processed

Source MSNAME = **LINK21V1**
 Destination MSNAME = **LINK21V1**

Source LUNAME = **L62MVS1**



Example 2/IMS3 - SYNC Response Inserted by Application in Remote Non-SQ IMS and Queued to MSC Link (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001252F 01531966 8515028D |.« .....ë.Ãe..ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001252F 01531966 8515028D |*» .....ë.Ãe..ý|
+00000010 85800080 00000000 FFFFFFFF 0B899C60 |eØ Ø Ù...i.-|
+00000020 FFFFFFFF 0B899C60 00000000 000A0014 |Ù...i.- ..|
+00000030 00000000 00000000 00000000 000A0012 | ..|
+00000040 000A000A C9D4E2F1 40404040 B668F055 |..IMS1 ¶Ç0í|
+00000050 59407582 00000000 00000000 |ß .b |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 00000A14 00000000 00000302 |.ð .. ..|
+00000010 D3F6F2D4 E5E2F140 D3F6F2D4 E5E2F140 |L62MVS1 L62MVS1 |
+00000020 0A0A0300 70884040 40404040 40400000 |... .h |
+00000030 40404040 40404040 2001252F 02001779 | .....|
+00000040 9520028D 07100000 00000000 00000000 |n..ý.. |
+00000050 00000000 00000316 68D26A77 A43E0BD3 | ..ÇK!..u..L|
+00000060 1E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 001D0300 D9C5E2D7 D6D5E2C5 F140D4C5 |.. RESPONSE1 ME|
+00000010 E2E2C1C7 C5404040 40404040 40 |SSAGE |

```

Universal Time Stamp (same)
2001252F015319668515028D

Destination SYSID = 000A (hex)
Source SYSID = 000A (hex)

Destination LUNAME = L62MVS1
Source LUNAME = L62MVS1

User Data = RESPONSE1.....

Example 2/IMS2 - SYNC Response Received in BE SQ IMS from MSC Link and Queued to MSC Internal Queue for FE IMS (1 of 2)

```

BASIC PREFIX
+00000000 02C10000 03C48290 08000003 08000003 |.A .Db°. .. .|
+00000010 02A41000 C9D4E2F1 40404040 B668F055 |.u IMS1 ¶Ç0í|
+00000020 59407582 C9D4E2F2 40404040 B668F4C1 |ß .b|MS3 ¶Ç3}|
+00000030 87EA868B 800000800 00000000 00000000 |.µ¿. |
SYSTEM PREFIX
+00000000 00408100 C8000000 00000038 00000001 | a H. . . .|
+00000010 00020000 00000000 00000000 00000001 |. . . . .|
+00000020 D3C9D5D2 F1F2E5F1 D4E2D5E2 F2404040 |LINK21V1MSNS2 |
+00000030 00000000 00000000 40404040 40404040 | |
APPC/LU6.2 PREFIX
+00000000 01068700 00C2D588 A000D600 C9D4E2D5 |..g BNhµ O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1 L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 |
+00000030 00000000 0B899C60 40404040 40404040 | .i.- |
+00000040 40404040 40404040 0BD05A70 00000004 | .}! . .|
+00000050 E3D9C1D5 F2F1E5F0 D3F6F2D4 E5E2F140
|TRAN21V0L62MVS1 |
+00000060 00000000 B668F055 55723ECB 00000000 | ¶Ç0ííÉ.ò |
+00000070 00000000 00000000 00000000 00000000 | |
+00000080 00000000 00000000 00000008 E3D9C1D5 | .TRAN|
+00000090 F2F1E5F0 50018046 15519555 55555555 |21V0&.Øä.éníííí|
+000000A0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000B0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |ííííftxa^¼u.íííí|
+000000D0 55555555 09151515 15151515 15151515 |íííí.....|
+000000E0 15151515 00000000 00000000 00000000 |.... |
+000000F0 00000000 00000000 00000000 00000000 | |
+00000100 00000000 0000 | |

```

Origin IMSID = **IMS1**
 System where MSG originated

Processing IMSID = **IMS2**
 System where this MSG was processed

Source MSNAME = **LINK21V1**
 Destination MSNAME = **MSNS2**

Source LUNAME = **L62MVS1**

Destination Trancode = **TRAN21V0**



Example 2/IMS2 - SYNC Response Received in BE SQ IMS from MSC Link and Queued to MSC Internal Queue for FE IMS (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001252F 01531966 8515028D |.« .....ë.Ãe..ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001252F 01531966 8515028D |*» .....ë.Ãe..ý|
+00000010 85800080 05000080 FFFFFFFF 0B899C60 |eØ Ø Ù....i.-|
+00000020 FFFFFFFF 0B899C60 00000000 000A0014 |Ù....i.- ..|
+00000030 00000000 00000000 0000000A 00120003 | ..|
+00000040 000A000A C9D4E2F1 40404040 B668F055 |..IMS1 ¶Ç0í|
+00000050 59407582 00000000 00000000 |ß .b |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 00000A14 00000000 00030200 |.ð .. ..|
+00000010 FFFFFFFF 0B899C60 FFFFFFFF 0B899C60 |L62MVS1 L62MVS1 |
+00000020 0A0A0304 70884040 40404040 40400000 |... .h |
+00000030 40404040 40404040 2001252F 02130684 | .....'|
+00000040 7516028D 07100000 00000000 00000000 |n..ý.. |
+00000050 00000000 000008D4 E2D5E2F2 404040C9 | ..MSNS2 |I|
+00000060 D4E2F140 40400000 00000000 00000000 |MS1 |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 001D0300 D9C5E2D7 D6D5E2C5 F140D4C5 |.. RESPONSE1 ME|
+00000010 E2E2C1C7 C5404040 40404040 40 |SSAGE |

```

Universal Time Stamp (same)
2001252F015319668515028D

Destination SYSID = 000A (hex)
Source SYSID = 000A (hex)

User Data Destination = RESPONSE1

Example 3/IMS1 - Transaction Entered from APPC ASYNC Conversation in FE SQ IMS and Queued to TRANRDY Queue (1 of 2)

```

BASIC PREFIX
+00000000 02C60000 01C18110 08000002 08000002 |.F .Aa.. .. .|
+00000010 02A41000 C9D4E2F1 40404040 B668FE32 |.u. IMS1  ¶ÇÚ.|
+00000020 4502B408 C9D4E2F1 40404040 B668FE32 |.á.©.IMS1  ¶ÇÚ.|
+00000030 4502B408 80000100 00000000 00000000 |.á.©.Ø . |
SYSTEM PREFIX
+00000000 00408100 C8000000 00000000 00000000 | a H |
+00000010 00040000 00000000 00000000 00000001 | . |
+00000020 FDFFFFFFFF 0B899C60 E3D9C1D5 F2F1C3F0 | ù....i.-TRAN21C0|
+00000030 00000000 00000000 40404040 40404040 | |
APPC/LU6.2 PREFIX
+00000000 01068700 00C2D588 A000D600 C9D4E2D5 |.g BNhµ O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1 L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 |
+00000030 00000000 00000000 40404040 40404040 | |
+00000040 40404040 40404040 0BD05A70 00000008 | .}. .|
+00000050 E3D9C1D5 F2F1C3F0 D3F6F2D4 E5E2F140
|TRAN21C0L62MVS1 |
+00000060 00000000 B668FE32 4264278B 00000000 | ¶ÇÚ.âÀ.» |
+00000070 00000000 00000000 00000000 00000000 | |
+00000080 00000000 00000000 00000008 E3D9C1D5 | .TRAN|
+00000090 F2F1C3F0 50018046 15519555 55555555 |21C0&.Øã.éníííí|
+000000A0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000B0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |ííííftxa^¼u.íííí|
+000000D0 55555555 09151515 15151515 15151515 |íííí.....|
+000000E0 15151515 00000000 00000000 00000000 |.... |
+000000F0 00000000 00C9D4E2 F1404040 40B668FC | IMS1 ¶ÇÜ|
+00000100 8A060F34 0200 |«.... |
  
```

Origin IMSID = **IMS1**
 System where MSG originated
 Processing IMSID = **IMS1**
 System where this MSG was
 processed
 Destination Trancode = **TRAN21C0**

Source LUNAME = **L62MVS1**

Example 3/IMS1 - Transaction Entered from APPC ASYNC Conversation in FE SQ IMS and Queued to TRANRDY Queue (2 of 2)

SYSTEM EXTENSION PREFIX

```
+00000000 00188A00 2001252F 02552098 1650028D |.«.....í.q.&.ý|
+00000010 00000000 00000000 | |
```

MSC EXTENSION PREFIX

```
+00000000 005C8B00 00000000 00000000 00000000 |*» |
+00000010 02000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 0000000D | |.
+00000030 00000000 00000000 00000000 0000000A | |.
+00000040 0017000D C9D4E2F1 40404040 B668FE32 |. .IMS1 ¶ÇÚ.
+00000050 4502B408 00000000 00000000 |á.© |
```

TRANSACTION MANAGER ROUTING PREFIX

```
+00000000 00748C00 0000000D 00000000 00000003 |.đ . .|
+00000010 E3D9C1D5 F2F1C3F0 FDFFFFFFFF 0B899C60 |TRAN21C0Ù....i.-|
+00000020 170D0148 00080000 00000000 00000000 |...ç . |
+00000030 00000000 00000000 00000000 00000000 | |
+00000040 00000000 07100000 00000000 00000000 | .. |
+00000050 00000000 000001E3 D9C1D5F2 F1C3F040 | |.TRAN21C0 |
+00000060 40404040 40400000 00000000 00000000 | |
+00000070 00000710 | .. |
```

USER DATA FROM PRIMARY RECORD

```
+00000000 00220300 E3D9C1D5 F2F1C3F0 40D6E4E3 |.. TRAN21C0 OUT|
+00000010 C2D6E4D5 C440D4C5 E2E2C1C7 C540E2C5 |BOUND MESSAGE
SE|
+00000020 D5E3 |NT |
```

Universal Time Stamp

2001252F025520981650028D

Destination SYSID = 0017 (hex)

Source SYSID = 000D (hex)

Destination Trancode = TRAN21C0

User Data Destination = TRAN21C0



Example 3/IMS2 - APPC/ASYNCR Transaction Read from SQ in BE IMS and Queued to MSC Link (1 of 2)

```

BASIC PREFIX
+00000000 02C60000 01C18110 08000003 08000003 |.F .Aa.. .. |
+00000010 02A40002 C9D4E2F1 40404040 B668FE32 |.u .IMS1 ¶ÇÜ. |
+00000020 4502B408 C9D4E2F1 40404040 B668FE32 |.á.©.IMS1 ¶ÇÜ. |
+00000030 4502B408 40000100 00000000 00000000 |.á.©. . |
SYSTEM PREFIX
+00000000 00408100 C8000000 00000000 00000000 | a H |
+00000010 00040000 00000000 00000000 00000001 |. . |
+00000020 FFFFFFFF 0B899C60 E3D9C1D5 F2F1C3F0 |Ü....i.-TRAN21C0|
+00000030 00000000 00000000 40404040 40404040 | | |
APPC/LU6.2 PREFIX
+00000000 01068700 00C2D588 A000D600 C9D4E2D5 |.g BNhµ O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1 L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 |
+00000030 00000000 00000000 40404040 40404040 | | |
+00000040 40404040 40404040 0BD05A70 00000008 | |.}! . |
+00000050 E3D9C1D5 F2F1C3F0 D3F6F2D4 E5E2F140 |TRAN21C0L62MVS1 |
+00000060 00000000 B668FE32 4264278B 00000000 | ¶ÇÜ.áÀ.» |
+00000070 00000000 00000000 00000000 00000000 | | |
+00000080 00000000 00000000 00000008 E3D9C1D5 | |.TRAN|
+00000090 F2F1C3F0 50018046 15519555 55555555 |21C0&.Ø.éiiiií|
+000000A0 55555555 55555555 55555555 55555555 |iiiiiiiiiiiiiiii|
+000000B0 55555555 55555555 55555555 55555555 |iiiiiiiiiiiiiiii|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |iiiiiftxa^¼u.iiii|
+000000D0 55555555 09151515 15151515 15151515 |iiii.....|
+000000E0 15151515 00000000 00000000 00000000 |.... |
+000000F0 00000000 00C9D4E2 F1404040 40B668FC | IMS1 ¶ÇÜ. |
+00000100 8A060F34 0200 |«.... |

```

Origin IMSID = **IMS1**
System where MSG originated

Processing IMSID = **IMS1**
System where this MSG was processed

Destination Trancode = **TRAN21C0**

Source LUNAME = **L62MVS1**

Destination Trancode = **TRAN21C0**



Example 3/IMS2 - APPC/ASYNCR Transaction Read from SQ in BE IMS and Queued to MSC Link (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001252F 02552098 1650028D |.« .....í.q.&.ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 00000000 00000000 00000000 | *» |
+00000010 02000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 0000000D | |. |
+00000030 00000000 00000000 00000000 0000000A | |. |
+00000040 0017000D C9D4E2F1 40404040 B668FE32 |..IMS1 ¶ÇÚ.|
+00000050 4502B408 00000000 00000000 |á.©. |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000D 00000000 00000003 |.đ . .|
+00000010 E3D9C1D5 F2F1C3F0 FFFFFFFF 0B899C60 |TRAN21C0Û....i.-|
+00000020 170D0148 00080000 00000000 00000000 |...ç . |
+00000030 00000000 00000000 00000000 00000000 | | |
+00000040 00000000 07100000 00000000 00000000 | .. |
+00000050 00000000 00000316 68D26A77 A4420BD3 | ..ÇK|.uâ.L|
+00000060 1E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 00220300 E3D9C1D5 F2F1C3F0 40D6E4E3 |.. TRAN21C0 OUT|
+00000010 C2D6E4D5 C440D4C5 E2E2C1C7 C540E2C5 |BOUND MESSAGE
SE|
+00000020 D5E3 |NT |

```

Universal Time Stamp (same)
2001252F025520981650028D

Destination SYSID = 0017 (hex)
Source SYSID = 000D (hex)

Destination Trancode = TRAN21C0

User Data Destination = TRAN21C0

Example 3/IMS3 - APPC/ASYNCR Transaction Sent Across MSC Link and Received in Remote Non-SQ IMS and Queued to Transaction Queue (1 of 2)

BASIC PREFIX

```
+00000000 02C60000 01C18110 04000004 04000004 |.F .Aa.. .. .|
+00000010 02A40008 C9D4E2F1 40404040 B668FE32 |.u .IMS1 ¶ÇÚ.|
+00000020 4502B408 C9D4E2F3 40404040 B668FF4A |á.©.IMS3 ¶Ç.ç|
+00000030 85027DC7 00000000 00000000 00000000 |e.'G |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 00000017 00000001 | a H . . .|
+00000010 00040000 00000000 00000000 00000001 |. . . .|
+00000020 D3C9D5D2 F2F1C3F1 E3D9C1D5 F2F1C3F0
|LINK21C1TRAN21C0|
+00000030 00000000 00000000 40404040 40404040 | | |
```

APPC/LU6.2 PREFIX

```
+00000000 01068700 00C2D588 A000D600 C9D4E2D5 |.g BNhµ O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1 L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 |
+00000030 00000000 00000000 40404040 40404040 | | |
+00000040 40404040 40404040 0BD05A70 00000008 | | }! . .|
+00000050 E3D9C1D5 F2F1C3F0 D3F6F2D4 E5E2F140
|TRAN21C0L62MVS1 |
+00000060 00000000 B668FE32 4264278B 00000000 | ¶ÇÚ.áÀ.» |
+00000070 00000000 00000000 00000000 00000000 | | |
+00000080 00000000 00000000 00000008 E3D9C1D5 | | .TRAN|
+00000090 F2F1C3F0 50018046 15519555 55555555 |21C0&.Øã.éniííí|
+000000A0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000B0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |ííííftxa^¼u.íííí|
+000000D0 55555555 09151515 15151515 15151515 |íííí.....|
+000000E0 15151515 00000000 00000000 00000000 |.... |
+000000F0 00000000 00C9D4E2 F1404040 40B668FC | | IMS1 ¶ÇÚ|
+00000100 8A060F34 0200 |«.... |
```

Origin IMSID = **IMS1**
 System where MSG originated
 Processing IMSID = **IMS3**
 System where this MSG was processed
 Source MSNAME = **LINK21C1**
 Destination Trancode = **TRAN21C0**

Source LUNAME = **L62MVS1**

Destination Trancode = **TRAN21C0**



Example 3/IMS3 - APPC/ASYNCR Transaction Sent Across MSC Link and Received in Remote Non-SQ IMS and Queued to Transaction Queue (2 of 2)

SYSTEM EXTENSION PREFIX

```
+00000000 00188A00 2001252F 02552098 1650028D |.« .....í.q.&.ý|
+00000010 00000000 00000000 | |
```

MSC EXTENSION PREFIX

```
+00000000 005C8B00 2001252F 02552098 1650028D |*» .....í.q.&.ý|
+00000010 04800080 00000000 FFFFFFFF 0B899C60 |.Ø Ø Ü....i.-|
+00000020 00000000 00000000 00000000 0000000D | |.
+00000030 00000000 00000000 00000000 000A0012 | |..
+00000040 0017000D C9D4E2F1 40404040 B668FE32 |..IMS1 ¶ÇÚ.|
+00000050 4502B408 00000000 00000000 |á.©. |
```

TRANSACTION MANAGER ROUTING PREFIX

```
+00000000 00748C00 0000000D 00000000 00000300 |.đ . . |
+00000010 E3D9C1D5 F2F1C3F0 D3F6F2D4 E5E2F140 |TRAN21C0L62MVS1
|
+00000020 170D0144 10884040 40404040 40400000 |...à.h |
+00000030 40404040 40404040 2001252F 03001484 | .....d|
+00000040 5022028D 07100000 00000000 00000000 |&..ý.. |
+00000050 00000000 00000316 68D26A77 A4420BD3 | ..ÇK!uâ.L|
+00000060 1E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 | .. |
```

USER DATA FROM PRIMARY RECORD

```
+00000000 00220300 E3D9C1D5 F2F1C3F0 40D6E4E3 |.. TRAN21C0 OUT|
+00000010 C2D6E4D5 C440D4C5 E2E2C1C7 C540E2C5 |BOUND MESSAGE
SE|
+00000020 D5E3 |NT |
```

Universal Time Stamp (same)
2001252F025520981650028D

Destination SYSID =0017 (hex)
Source SYSID = 000D (hex)

Destination Trancode =TRAN21C0
Source LUNAME = L62MVS1

User Data Destination = TRAN21C0



Example 3/IMS3 - ASYNC Response Inserted by Application in Remote Non-SQ IMS and Queued to MSC Link (1 of 2)

BASIC PREFIX

```
+00000000 02C70000 03C48210 04000003 04000003 |.G .Db.. .. .|
+00000010 02A40000 C9D4E2F1 40404040 B668FE32 |.u IMS1 ¶ÇÚ.|
+00000020 4502B408 C9D4E2F3 40404040 B6690432 |.á.©.IMS3 ¶Ñ..|
+00000030 82CA6E00 00000000 00000000 00000000 |b-> |
```

SYSTEM PREFIX

```
+00000000 00408100 C8100000 00000017 00000001 | a H. . . .|
+00000010 00040001 00010000 00000000 00000001 | . . . .|
+00000020 D3C9D5D2 F2F1C3F1 D3C9D5D2 F2F1C3F1 |LINK21C1LINK21C1|
+00000030 00000000 00000000 40404040 40404040 | |
```

APPC/LU6.2 PREFIX

```
+00000000 01068700 00C2D588 A000D600 C9D4E2D5 |..g BNhµ O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1 L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 |
+00000030 00000000 00000000 40404040 40404040 | |
+00000040 40404040 40404040 0BD05A70 00000008 | }! . .|
+00000050 E3D9C1D5 F2F1C3F0 D3F6F2D4 E5E2F140 |TRAN21C0L62MVS1|
+00000060 00000000 B668FE32 4264278B 00000000 | ¶ÇÚ.áÀ.» |
+00000070 00000000 00000000 00000000 00000000 | |
+00000080 00000000 00000000 00000008 E3D9C1D5 | .TRAN|
+00000090 F2F1C3F0 50018046 15519555 55555555 |21C0&.Øä.éniiii|
+000000A0 55555555 55555555 55555555 55555555 |iiiiiiiiiiiiii|
+000000B0 55555555 55555555 55555555 55555555 |iiiiiiiiiiiiii|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |iiiiifftxa^¼u.iiii|
+000000D0 55555555 09151515 15151515 15151515 |iiii.....|
+000000E0 15151515 00000000 00000000 00000000 |.... |
+000000F0 00000000 00C9D4E2 F1404040 40B668FC | IMS1 ¶ÇÚ|
+00000100 8A060F34 0200 |«.... |
```

Origin IMSID = **IMS1**
 System where MSG originated

Processing IMSID = **IMS3**
 System where this MSG was processed

Source MSNAME = **LINK21C1**
 Destination MSNAME = **LINK21C1**

Source LUNAME = **L62MVS1**



Example 3/IMS3 - ASYNC Response Inserted by Application in Remote Non-SQ IMS and Queued to MSC Link (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001252F 02552098 1650028D |.« .....í.q.&.ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001252F 02552098 1650028D |*» .....í.q.&.ý|
+00000010 85800080 00000000 FDFFFFFFFF 0B899C60 |eØ Ø Ù....i.-|
+00000020 FDFFFFFFFF 0B899C60 00000000 000D0017 |Ù....i.- ..|
+00000030 00000000 00000000 00000000 000A0012 | ..|
+00000040 000D000D C9D4E2F1 40404040 B668FE32 |..IMS1 ¶ÇÚ.|
+00000050 4502B408 00000000 00000000 |á.©. |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 00000D17 00000000 00000302 |.đ .. ..|
+00000010 D3F6F2D4 E5E2F140 D3F6F2D4 E5E2F140 |L62MVS1 L62MVS1|
+00000020 0D0D0300 30884040 40404040 40400000 |... .h |
+00000030 40404040 40404040 2001252F 03001484 | ..... .d|
+00000040 5022028D 07100000 00000000 00000000 |&..ý.. |
+00000050 00000000 00000316 68D26A77 A4420BD3 | ..ÇK|.uâ.L|
+00000060 1E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 00230300 C1E2E8D5 C340D9C5 E2D7D6D5 |.. ASYNC RESPON|
+00000010 E2C540D4 C5E2E2C1 C7C54040 40404040 |SE MESSAGE |
+00000020 404040 | |

```

Universal Time Stamp (same)
2001252F025520981650028D

Destination SYSID = 000D (hex)
Source SYSID = 000D (hex)

Source LUNAME = L62MVS1

User Data = ASYNC RESPONSE

Example 3/IMS2 - ASYNC Response Received in BE SQ IMS from MSC Link and Queued to MSC Internal Queue for FE IMS (1 of 2)

BASIC PREFIX

```
+00000000 02C70000 01C48210 08000003 08000003 |.G .Db.. .. |
+00000010 02A41000 C9D4E2F1 40404040 B668FE32 |.u. IMS1 ¶ÇÚ.|
+00000020 4502B408 C9D4E2F2 40404040 B66905EC |á.©.IMS2 ¶Ñ..|
+00000030 ED01FB07 80000800 00000000 00000000 |Ò.Û.Ø . |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 00000038 00000001 | a H . . .|
+00000010 00040000 00000000 00000000 00000001 | . . .|
+00000020 D3C9D5D2 F1F2E5F1 D4E2D5E2 F2404040 |LINK12V1MSNS2 |
+00000030 00000000 00000000 40404040 40404040 | |
```

APPC/LU6.2 PREFIX

```
+00000000 01068700 00C2D588 A000D600 C9D4E2D5 |.g BNhµ O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1 L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 |
+00000030 00000000 00000000 40404040 40404040 | |
+00000040 40404040 40404040 0BD05A70 00000008 | }! . .|
+00000050 E3D9C1D5 F2F1C3F0 D3F6F2D4 E5E2F140
|TRAN21C0L62MVS1 |
+00000060 00000000 B668FE32 4264278B 00000000 | ¶ÇÚ.âÀ.» |
+00000070 00000000 00000000 00000000 00000000 | |
+00000080 00000000 00000000 00000008 E3D9C1D5 | .TRAN|
+00000090 F2F1C3F0 50018046 15519555 55555555 |21C0&.Øä.éníííí|
+000000A0 55555555 55555555 55555555 55555555 |íííííííííííííí|
+000000B0 55555555 55555555 55555555 55555555 |íííííííííííííí|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |ííííftxa^¼u.íííí|
+000000D0 55555555 09151515 15151515 15151515 |íííí.....|
+000000E0 15151515 00000000 00000000 00000000 |.... |
+000000F0 00000000 00C9D4E2 F1404040 40B668FC | IMS1 ¶ÇÚ|
+00000100 8A060F34 0200 |<.... |
```

Origin IMSID = **IMS1**

System where MSG originated

Processing IMSID = **IMS2**

System where this MSG was processed

Source MSNAME = **LINK12C1**

Destination MSNAME = **MSNS2**

Source LUNAME = **L62MVS1**



Example 3/IMS2 - ASYNC Response Received in BE SQ IMS from MSC Link and Queued to MSC Internal Queue for FE IMS (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001252F 02552098 1650028D |.« .....í.q.&.ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001252F 02552098 1650028D |*» .....í.q.&.ý|
+00000010 05000080 00000000 FFFFFFFF 0B899C60 |. Ø Ù....i.-|
+00000020 FFFFFFFF 0B899C60 00000000 000D0017 |Ù....i.- ..|
+00000030 00000000 00000000 0000000A 00120003 | .. |
+00000040 000D000D C9D4E2F1 40404040 B668FE32 |..IMS1 ¶ÇÚ.|
+00000050 4502B408 00000000 00000000 |á.©. |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 00000D17 00000000 00030200 |.ð .. ..|
+00000010 FFFFFFFF 0B899C60 FFFFFFFF 0B899C60 |Ù....i.-Ù....i.-|
+00000020 0D0D0304 30884040 40404040 40400000 |.....h |
+00000030 40404040 40404040 2001252F 03295575 | .....í.|
+00000040 3124028D 07100000 00000000 00000000 |...ý.. |
+00000050 00000000 000008D4 E2D5E2F2 404040C9 | .MSNS2 ||
+00000060 D4E2F140 40400000 00000000 00000000 |MS1 |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 00230300 C1E2E8D5 C340D9C5 E2D7D6D5 |.. ASYNC RESPON|
+00000010 E2C540D4 C5E2E2C1 C7C54040 40404040 |SE MESSAGE |
+00000020 404040 | |

```

Universal Time Stamp (same)
2001252F025520981650028D

Destination SYSID = 000D (hex)
Source SYSID = 000D (hex)

User Data = ASYNC RESPONSE

Example 3/IMS1 - ASYNC Response READ from MSC Internal Queue in FE IMS and Queued to APPC Output Queue (1 of 2)

BASIC PREFIX

```
+00000000 02C70000 01C48210 08000003 08000003 |.G .Db.. .. .|
+00000010 02A41000 C9D4E2F1 40404040 B66907A1 |.u. IMS1 ¶Ñ.~|
+00000020 93E5ED4B C9D4E2F1 40404040 B66907A1 |IVÒ. IMS1 ¶Ñ.~|
+00000030 93E5ED4B 80000700 00000000 00000000 ||VÒ.Ø . |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 0000003A 00000002 | a H . . .|
+00000010 00000000 00000000 00000000 00000001 | . . .|
+00000020 FFFFFFFF FFFFFFFF FEFFFFFF 0B8C3060 |.....Ú....đ.-|
+00000030 00000000 00000000 80039874 AD040950 | Ø.q.Ý..&|
```

APPC/LU6.2 PREFIX

```
+00000000 01068700 00404088 1000D600 C9D4E2D5 |..g h. O IMSN|
+00000010 C5E34040 D3F6F2D4 E5E2F140 D3F6F2D4 |ET L62MVS1
L62M|
+00000020 C4C5F0F1 40404040 40404040 00000000 |DE01 . . .|
+00000030 00000000 0B8C3060 40404040 40404040 | .đ.- . . .|
+00000040 40404040 40404040 00000000 00000000 | . . . . .|
+00000050 E3D9C1D5 F2F1C3F0 D3F6F2D4 E5E2F140
|TRAN21COL62MVS1 |
+00000060 00000000 B668FC8A 060F3402 00000000 | ¶ÇÜ«.... |
+00000070 00000000 00000000 00000000 00000000 | . . . . .|
+00000080 00000000 00000000 00000008 C4C6E2C1 | . . . . .DFSA|
+00000090 E2E8D5C3 50018046 15519555 55555555 |SYNC&.Ø.éniiii|
+000000A0 55555555 55555555 55555555 55555555 |iiiiiiiiiiii|
+000000B0 55555555 55555555 55555555 55555555 |iiiiiiiiiiii|
+000000C0 55555555 86A3A781 B0B7A415 55555555 |iiiiiftxa^%u.iii|
+000000D0 55555555 09151515 15151515 15151515 |iiii.....|
+000000E0 15151515 00000000 00000000 00000000 |.... |
+000000F0 00000000 00C9D4E2 F1404040 40B668FC | IMS1 ¶ÇÜ|
+00000100 8A060F34 0200 . . . . . |«.... |
```

Origin IMSID = **IMS1**
System where MSG originated
Processing IMSID = **IMS1**
System where this MSG was
processed

Source LUNAME = **L62MVS1**



Example 3/IMS1 - ASYNC Response READ from MSC Internal Queue in FE IMS and Queued to APPC Output Queue (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 00000000 00000000 00000000 |.«      |
+00000010 00000000 00000000          |      |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001252F 02552098 1650028D |*» .....i.q.&.ý|
+00000010 00000080 00000000 FFFFFFFF 0B899C60 | Ø  Ù...i.-|
+00000020 FFFFFFFF 0B899C60 00AD0000 00090050 |Ù...i.- Ý .&|
+00000030 00000000 00000000 000A0012 0003000A |      ...:|
+00000040 000000FD C9D4E2F1 40404040 B668FE32 | ÙIMS1 ¶ÇÚ.|
+00000050 4502B408 00000000 00000000      |á.©.      |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 AD000950 AD070950 AD000950 |.ð Ý .&Ý..&Ý .&|
+00000010 FFFFFFFF 0B8C3060 00000704 00000000 |Ú...ð.- ... |
+00000020 00FD0D08 00000000 00FD0D10 00000000 | Ù.. Ù.. |
+00000030 00000000 00000000 2001252F 03373361 |      ...../|
+00000040 5759028D 07100000 00000000 00000000 |iß.ý..      |
+00000050 00000000 000007B6 68FC8A06 0F3402C9 |      .¶ÇÜ«....||
+00000060 D4E2F140 40400000 00000000 00000000 |MS1      |
+00000070 00000710          | ..      |
USER DATA FROM PRIMARY RECORD
+00000000 00230300 C1E2E8D5 C340D9C5 E2D7D6D5 |.. ASYNC RESPON|
+00000010 E2C540D4 C5E2E2C1 C7C54040 40404040 |SE MESSAGE      |
+00000020 404040          |      |

```

Universal Time Stamp (same)
2001252F025520981650028D

User Data = ASYNC RESPONSE

Example 4/IMS1 - Transaction Entered from Terminal in FE SQ IMS and Queued to TRANRDY Queue

```

BASIC PREFIX
+00000000 01C60000 01C18110 08000002 08000002 |.F .Aa. . . |
+00000010 019E9000 C9D4E2F1 40404040 B6690D2C |..° IMS1 ¶Ñ..|
+00000020 829DCFC4 C9D4E2F1 40404040 B6690D2C |b,õDIMS1 ¶Ñ..|
+00000030 829DCFC4 80000100 00000000 00000000 |b,õDØ. |
SYSTEM PREFIX
+00000000 00408100 C8000000 D3F3F2F7 F0C34040 | a H L3270C |
+00000010 00020000 00000000 00000000 00000001 |. . . . |
+00000020 E3F3F2F7 F0D3C340 E3D9C1D5 F3F1E5F0 |T3270LC TRAN31V0|
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001252F 04022147 4373028D |.« .....ää.ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 00000000 00000000 00000000 |*» |
+00000010 00000080 00000000 00000000 00000000 | Ø |
+00000020 00000000 00000000 00000000 0000000A |. |
+00000030 00000000 00000000 00000000 0000000A |. |
+00000040 000A000A C9D4E2F1 40404040 B6690D2C |..IMS1 ¶Ñ..|
+00000050 829DCFC4 00000000 00000000 |b,õD |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000003 |.ð . . . |
+00000010 E3D9C1D5 F3F1E5F0 E3F3F2F7 F0D3C340 |TRAN31V0T3270LC |
+00000020 0A0A014C 00080000 00000000 00000000 |...<. |
+00000030 00000000 00000000 00000000 00000000 |. |
+00000040 00000000 07100000 00000000 00000000 |.. |
+00000050 00000000 000001E3 D9C1D5F3 F1E5F040 |.TRAN31V0 |
+00000060 40404040 40400000 00000000 00000000 |. |
+00000070 00000710 |.. |
USER DATA FROM PRIMARY RECORD
+00000000 00280301 E3D9C1D5 F3F1E5F0 40D3D6C3 |...TRAN31V0 LOC|
+00000010 C1D340E3 D9C1D540 D6D540C6 D9D6D5E3 |AL TRAN ON FRONT|
+00000020 40C5D5C4 40C9D4E2 | END IMS |

```

Origin IMSID = **IMS1**
 System where MSG originated

Processing IMSID = **IMS1**
 System where this MSG was processed

Source LTERM = **T3270LC**
 Destination Trancode = **TRAN31V0**

Universal Time Stamp (same)
2001252F040221474373028D

Destination SYSID = **000A** (hex)
 Source SYSID = **000A** (hex)

Destination Trancode = **TRAN31V0**
 Source LTERM = **T3270LC**

User Data Destination = **TRAN31V0**



Example 4/IMS1 - Transaction Read from SQ in FE IMS and Processed and Queued Response to LTERM Ready Queue

```

BASIC PREFIX
+00000000 01BB0000 03C48210 08000003 08000003 |.] .Db.. .. |
+00000010 019E9000 C9D4E2F1 40404040 B6690D2C |..° IMS1 ¶Ñ..|
+00000020 829DCFC4 C9D4E2F1 40404040 B669143D |b,õDIMS1 ¶Ñ..|
+00000030 52EC8307 80000500 00000000 00000000 |ê.c.Ø . |
SYSTEM PREFIX
+00000000 00408100 C8100000 D3F3F2F7 F0C34040 | a H. L3270C |
+00000010 00020001 00010000 00000000 00000001 |... .|
+00000020 E3F3F2F7 F0D3C340 E3F3F2F7 F0D3C340 |T3270LC T3270LC |
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001252F 04022147 4373028D |.« .....ää..ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 00000000 00000000 00000000 |*» |
+00000010 00000080 00000000 00000000 00000000 | Ø |
+00000020 00000000 00000000 00000000 000A000A | .. |
+00000030 00000000 00000000 00000000 0000000A | .|
+00000040 000A000A C9D4E2F1 40404040 B6690D2C |. .IMS1 ¶Ñ..|
+00000050 829DCFC4 00000000 00000000 |b,õD |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 00000A0A 00000000 00000003 |.õ .. .|
+00000010 E3F3F2F7 F0D3C340 E3F3F2F7 F0D3C340 |T3270LC T3270LC |
+00000020 0A0A0304 20080000 00000000 00000000 |..... |
+00000030 00000000 00000000 00000000 00000000 | |
+00000040 00000000 07100000 00000000 00000000 | .. |
+00000050 00000000 000005E3 F3F2F7F0 D3C34040 | .T3270LC |
+00000060 40404040 40400000 00000000 00000000 | |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 001D0300 D9C5E2D7 D6D5E2C5 F140D4C5 |.. RESPONSE1
ME|
+00000010 E2E2C1C7 C5404040 40404040 40 |SSAGE |
  
```

Origin IMSID = **IMS1**
 System where MSG originated
 Processing IMSID = **IMS1**
 System where this MSG was
 processed
 Source LTERM = **T3270LC**
 Destination LTERM = **T3270LC**

Universal Time Stamp
2001252F040221474373028D

Destination SYSID = **000A** (hex)
 Source SYSID = **000A** (hex)

Destination LTERM = **T3270LC**
 Source LTERM = **T3270LC**

USER DATA = **RESPONS1**



Example 5/IMS1 - Transaction Entered from Terminal in FE SQ IMS and Queued to TRANRDY Queue

```

BASIC PREFIX
+00000000 01CB0000 01C18110 04000002 04000002 |.δ .Aa. . . |
+00000010 019E1000 C9D4E2F1 40404040 B66A2075 |... IMS1 ¶|..|
+00000020 98D7C0CA C9D4E2F1 40404040 B66A2075 |qP{-IMS1 ¶|..|
+00000030 98D7C0CA 80001100 00000000 00000000 |qP{-Ø. |
SYSTEM PREFIX
+00000000 00408100 C8000000 D3F3F2F7 F0C34040 | a H L3270C |
+00000010 00010000 00000000 00000000 00000001 |. . . |
+00000020 E3F3F2F7 F0D3C340 E3D9C1D5 F1F2E5F0 |T3270LC TRAN12V0|
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001253F 00335786 1925028D |.« ....if..ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 00000000 00000000 00000000 |*» |
+00000010 00000080 00000000 00000000 00000000 | Ø |
+00000020 00000000 00000000 00000000 0000000A | . |
+00000030 00000000 00000000 00000000 0000000A | . |
+00000040 000A000A C9D4E2F1 40404040 B66A2075 |..IMS1 ¶|..|
+00000050 98D7C0CA 00000000 00000000 |qP{- |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000003 |.δ . . . |
+00000010 E3D9C1D5 F1F2E5F0 E3F3F2F7 F0D3C340 |TRAN12V0T3270LC |
+00000020 0A0A014C 00080000 00000000 00000000 |...<. |
+00000030 00000000 00000000 00000000 00000000 | . |
+00000040 00000000 07100000 00000000 00000000 | .. |
+00000050 00000000 000001E3 D9C1D5F1 F2E5F040 | .TRAN12V0 |
+00000060 40404040 40400000 00000000 00000000 | . |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 002D0301 E3D9C1D5 F1F2E5F0 40C88940 |...TRAN12V0 Hi |
+00000010 6040D4E2 C740A396 40D39683 819340E3 |-MSG to Local T|
+00000020 99819540 969540C6 C540C9D4 E2 |ran on FE IMS |

```

Origin IMSID = **IMS1**
System where MSG originated

Processing IMSID = **IMS1**
System where this MSG was processed

Source LTERM = **T3270LC**
Destination Trancode = **TRAN12V0**

Universal Time Stamp
2001253F003357861925028D

Destination SYSID = **000A** (hex)
Source SYSID = **000A** (hex)

Destination Trancode = **TRAN12V0**
Source LTERM = **T3270LC**

User Data Destination = **TRAN12V0**



Example 5/IMS2 - Transaction Read from SQ in BE IMS and Processed and Queued Response to LTERM Ready Queue

BASIC PREFIX

```
+00000000 01BB0000 03C48210 08000004 08000004 |.] .Db.. .. |
+00000010 019E1000 C9D4E2F1 40404040 B66A2075 |... IMS1 ¶|..|
+00000020 98D7C0CA C9D4E2F1 40404040 B66A226A |qP{-IMS1 ¶|..|
+00000030 4573B1C4 80000500 00000000 00000000 |á.£DØ . |
```

SYSTEM PREFIX

```
+00000000 00408100 C8100000 D3F3F2F7 F0C34040 | a H. L3270C |
+00000010 00010001 00010000 00000000 00000001 |... .|
+00000020 E3F3F2F7 F0D3C340 E3F3F2F7 F0D3C340 |T3270LC T3270LC |
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
```

SYSTEM EXTENSION PREFIX

```
+00000000 00188A00 2001253F 00335786 1925028D |.« .... .if...ý|
+00000010 00000000 00000000 | |
```

MSC EXTENSION PREFIX

```
+00000000 005C8B00 00000000 00000000 00000000 |*» |
+00000010 00000080 00000000 00000000 00000000 | Ø |
+00000020 00000000 00000000 00000000 000A000A | ..|
+00000030 00000000 00000000 00000000 00000003 | ..|
+00000040 000A000A C9D4E2F1 40404040 B66A2075 |..IMS1 ¶|..|
+00000050 98D7C0CA 00000000 00000000 |qP{- |
```

TRANSACTION MANAGER ROUTING PREFIX

```
+00000000 00748C00 00000A0A 00000000 00000001 |.đ .. .|
+00000010 E3F3F2F7 F0D3C340 E3F3F2F7 F0D3C340 |T3270LC T3270LC |
+00000020 0A0A0304 20080000 00000000 00000000 |..... |
+00000030 00000000 00000000 00000000 00000000 | |
+00000040 00000000 07100000 00000000 00000000 | .. |
+00000050 00000000 000005E3 F3F2F7F0 D3C34040 | .T3270LC |
+00000060 40404040 40400000 00000000 00000000 | |
+00000070 00000710 | .. |
```

USER DATA FROM PRIMARY RECORD

```
+00000000 001D0300 D9C5E2D7 D6D5E2C5 F140D4C5 |.. RESPONSE1
ME|
```

```
+00000010 E2E2C1C7 C5404040 40404040 40 |SSAGE |
```

Origin IMSID = **IMS1**

System where MSG originated

Processing IMSID = **IMS1**

System where this MSG was processed

Source LTERM = **T3270LC**

Destination LTERM = **T3270LC**

Universal Time Stamp (same)

2001253F003357861925028D

Destination SYSID = **000A** (hex)

Source SYSID = **000A** (hex)

Destination LTERM = **T3270LC**

Source LTERM = **T3270LC**

USER DATA = **RESPONS1**



Example 6/IMS2 - Message Switch from BE SQ IMS Queued to MSC Link to Send to Non-SQ Remote IMS

```

BASIC PREFIX
+00000000 01D20000 01C48210 08000002 08000002 |.K .Db.. .. |
+00000010 019E9000 C9D4E2F2 40404040 B66A2425 |..° IMS2 ¶|..|
+00000020 5801654A C9D4E2F2 40404040 B66A2425 |i.Áç|IMS2 ¶|..|
+00000030 5801654A 80000800 00000000 00000000 |i.ÁçØ. |
SYSTEM PREFIX
+00000000 00408100 C8000000 D3F3F2F7 F0C34040 | a H L3270C |
+00000010 00010000 00000000 00000000 00000001 |. . |
+00000020 E3F3F2F7 F0D3C140 D3C9D5D2 F1F2E5F1 |T3270LA LINK12V1|
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001253F 00502745 1980028D |.« .... &.á.Ø.ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 00000000 00000000 00000000 |*» |
+00000010 01000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 0000000A |. |
+00000030 00000000 00000000 00000000 00000003 |. |
+00000040 0014000A C9D4E2F2 40404040 B66A2425 |..IMS2 ¶|..|
+00000050 5801654A 00000000 00000000 |i.Áç |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000001 |.ð . |
+00000010 C8F0C7F0 F0404040 E3F3F2F7 F0D3C140 |H0G00 T3270LA |
+00000020 140A0108 00080000 00000000 00000000 |.... |
+00000030 00000000 00000000 00000000 00000000 |. |
+00000040 00000000 07100000 00000000 00000000 |.. |
+00000050 00000000 000008D3 C9D5D2F1 F2E5F140 |.LINK12V1 |
+00000060 40404040 40400000 00000000 00000000 |. |
+00000070 00000710 |.. |
USER DATA FROM PRIMARY RECORD
+00000000 00342301 C8F0C7F0 F040C889 406040D4 |...H0G00 Hi - M|
+00000010 E2C740C6 99969440 D3E3C5D9 D440E3F3 |SG From LTERM T3|
+00000020 F2F7F0D3 C140A396 40D3E3C5 D9D440C8 |270LA to LTERM H|
+00000030 F0C7F0F0 |0G00 |

```

Origin IMSID = **IMS2**
System where MSG originated
Processing IMSID = **IMS2**
System where this MSG is

Source LTERM = **T3270LA**
Destination MSNAME = **LINK12V1**

Universal Time Stamp
2001255F005027451980028D

Destination SYSID = **0014** (hex)
Source SYSID = **000A** (hex)

Destination LTERM = **H0G00**
Source LTERM = **T3270LA**

User Data = **H0G00 Hi**



Example 6/IMS3 - Message Switch Arrives on Remote Non-SQ IMS and is Queued to LTERM Ready Queue

```

BASIC PREFIX
+00000000 01D20000 01C48210 04000004 04000004 |.K .Db.. .. |
+00000010 019E0000 C9D4E2F2 40404040 B66A2425 |.. IMS2 ¶|..|
+00000020 5801654A C9D4E2F3 40404040 B66A262E |i.Áç|IMS3 ¶|..|
+00000030 1575A200 00000000 00000000 00000000 |.s |
SYSTEM PREFIX
+00000000 00408100 C8000000 00000017 00000001 | a H . . . |
+00000010 00010000 00000000 00000000 00000001 |. |
+00000020 D3C9D5D2 F2F1E5F1 C8F0C7F0 F0404040 |LINK21V1H0G00 |
+00000030 00000000 00000000 C4C6E2D4 D6F24040 | DFSMO2 |
SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001253F 00502745 1980028D |.« .... &.á.Ø.ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001253F 00502745 1980028D |*» .... &.á.Ø.ý|
+00000010 04000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 0000000A |. |
+00000030 00000000 00000000 00000000 00030012 |. |
+00000040 0014000A C9D4E2F2 40404040 B66A2425 |..IMS2 ¶|..|
+00000050 5801654A 00000000 00000000 |i.Áç |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000100 |.ð . . . |
+00000010 C8F0C7F0 F0404040 E3F3F2F7 F0D3C140 |H0G00 T3270LA |
+00000020 140A0100 1088E3F3 F2F7F0D3 C3400000 |...hT3270LC |
+00000030 40404040 40404040 2001253F 00593348 |. .... ß.ç|
+00000040 7535028D 07100000 00000000 00000000 |...ý.. |
+00000050 00000000 00000316 6A18A397 5A5E0BD3 |. ...|.tp!;.L|
+00000060 1E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 |.. |
USER DATA FROM PRIMARY RECORD
+00000000 00342301 C8F0C7F0 F040C889 406040D4 |...H0G00 Hi - M|
+00000010 E2C740C6 99969440 D3E3C5D9 D440E3F3 |SG From LTERM T3|
+00000020 F2F7F0D3 C140A396 40D3E3C5 D9D440C8 |270LC to LTERM H|
+00000030 F0C7F0F0 |0G00 |

```

Origin IMSID = **IMS2**
 System where MSG originated
 Processing IMSID = **IMS3**
 System where this MSG was
 processed
 Source MSNAME = **LINK21V1**
 Destination LTERM = **H0G00**

Universal Time Stamp (same)
2001253F005027451980028D

Destination SYSID = **0014** (hex)
 Source SYSID = **000A** (hex)

Destination LTERM = **H0G00**
 Source LTERM = **T3270LA**

User Data = **H0G00 Hi**



Example 7/IMS1 - Transaction Entered from OTMA ASYNC Conversation in FE SQ IMS and Queued to TRANRDY Queue (1 of 2)

BASIC PREFIX

```
+00000000 02EC0000 01C18110 08000003 08000003 |.. .Aa.. ..|
+00000010 02AC1000 C9D4E2F1 40404040 B66A3471 |.Đ. IMS1 ¶|.É|
+00000020 F6593082 C9D4E2F1 40404040 B66A3471 |6ß.bIMS1 ¶|.É|
+00000030 F6593082 80000100 00000000 00000000 |6ß.bØ. |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 00000000 00000000 | a H |
+00000010 00010000 00000000 00000000 00000001 |. .|
+00000020 FDFFFFFFFF 0B83DC60 E3D9C1D5 F2F1E5F0 |Û....cü-TRAN21V0|
+00000030 00000000 00000000 E3C5E2E3 D4C1D740 | TESTMAP |
```

OTMA PREFIX

```
+00000000 010E8700 0040C388 A4D52000 E3D7C9D7 |.g ChuN. TPIP|
+00000010 C5F14040 E3D9C1D5 F2F1E5F0 B66A3471 |E1 TRAN21V0¶|.É|
+00000020 EB77EA02 00000000 0B83DC60 C3D3C9C5 |Ô.². .cü-CLIE|
+00000030 D5E3F1F1 40404040 40404040 C9D4E2F1 |NT11 IMS1|
+00000040 40404040 B66A3471 EB67A5C2 00000000 | ¶|.ÉÔAvB |
+00000050 01400000 0040E3D7 C9D7C5F1 4040A0D0 |. TPIPE1 µ}|
+00000060 00000001 00000000 00000001 00010000 |. .|
+00000070 00480040 0100E3C5 E2E3D4C1 D7400000 |ç . TESTMAP |
+00000080 00000000 00000000 00000000 0000C9D4 | IM|
+00000090 E2F0F0F0 F0F14040 40404040 40400000 |S00001 |
+000000A0 00000000 00000000 00000000 00004040 | |
+000000B0 40404040 40400000 0056D500 51005001 | îN é &.|
+000000C0 80551555 95555555 55555555 55555555 |Øí.íníííííííí|
+000000D0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000E0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000F0 55555555 55555555 55555555 55550915 |íííííííííííí..|
+00000100 15151515 15151515 15151515 1515 |.....|
```

Origin IMSID = **IMS1**
 System where MSG originated

Processing IMSID = **IMS1**
 System where this MSG was processed

Destination Trancode = **TRAN21V0**

Destination Trancode = **TRAN21V0**
 Tmember Name = **CLIENT1**

Tpipe Name = **TPIPE1**



Example 7/IMS1 - Transaction Entered from OTMA ASYNC Conversation in FE SQ IMS and Queued to TRANRDY Queue (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001253F 02032275 9760028D |.« .....p-ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 00000000 00000000 00000000 |*» |
+00000010 02000080 00000000 00000000 00000000 |. Ø |
+00000020 00000000 00000000 00000000 0000000A | .|
+00000030 00000000 00000000 00000000 00000003 | .|
+00000040 0014000A C9D4E2F1 40404040 B66A3471 |. .IMS1 ¶|.É|
+00000050 F6593082 00000000 00000000 |6ß.b |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000001 |.đ . .|
+00000010 E3D9C1D5 F2F1E5F0 FFFFFFFF 0B83DC60 |TRAN21V0Ù....cü-|
+00000020 140A0148 00080000 00000000 00000000 |...ç . |
+00000030 00000000 00000000 00000000 00000000 | |
+00000040 00000000 07100000 00000000 00000000 | .. |
+00000050 00000000 000001E3 D9C1D5F2 F1E5F040 | .TRAN21V0 |
+00000060 40404040 40400000 00000000 00000000 | |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 00400300 E3D9C1D5 F2F1E5F0 40D6E4E3 |. TRAN21V0 OUT|
+00000010 C2D6E4D5 C440D4C5 E2E2C1C7 C540E2C5 |BOUND MESSAGE
SE|
+00000020 D5E34040 40404040 40404040 40404040 |NT |
+00000030 40404040 40404040 40404040 40404040 | |

```

Universal Time Stamp
2001253F020322759760028D

Destination SYSID = 0014 (hex)
Source SYSID = 000A (hex)

Destination Trancode = TRAN21V0

User Data Destination = TRAN21V0

Example 7/IMS2 - OTMA/ASYNC Transaction Read from SQ in BE IMS and Queued to MSC Link (1 of 2)

BASIC PREFIX

```
+00000000 02EC0000 01C18110 08000003 08000003 |.. .Aa.. .. |
+00000010 02AC1000 C9D4E2F1 40404040 B66A3471 |.Đ. IMS1 ¶|.É|
+00000020 F6593082 C9D4E2F1 40404040 B66A3471 |6ß.bIMS1 ¶|.É|
+00000030 F6593082 80000100 00000000 00000000 |6ß.bØ. |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 00000000 00000000 | a H |
+00000010 00010000 00000000 00000000 00000001 |. |
+00000020 FDFFFFFFFF 0B83DC60 E3D9C1D5 F2F1E5F0 |Û....cü-TRAN21V0|
+00000030 00000000 00000000 E3C5E2E3 D4C1D740 | TESTMAP |
```

OTMA PREFIX

```
+00000000 010E8700 0040C388 A4D52000 E3D7C9D7 |.g ChuN. TPIP|
+00000010 C5F14040 E3D9C1D5 F2F1E5F0 B66A3471 |E1 TRAN21V0¶|.É|
+00000020 EB77EA02 00000000 0B83DC60 C3D3C9C5 |Ô.². .cü-CLIE|
+00000030 D5E3F1F1 40404040 40404040 C9D4E2F1 |NT11 IMS1|
+00000040 40404040 B66A3471 EB67A5C2 00000000 | ¶|.ÉÔAvB |
+00000050 01400000 0040E3D7 C9D7C5F1 4040A0D0 |. TPIPE1 µ}|
+00000060 00000001 00000000 00000001 00010000 |. . |
+00000070 00480040 0100E3C5 E2E3D4C1 D7400000 |ç . TESTMAP |
+00000080 00000000 00000000 00000000 0000C9D4 | IM|
+00000090 E2F0F0F0 F0F14040 40404040 40400000 |S00001 |
+000000A0 00000000 00000000 00000000 00004040 | |
+000000B0 40404040 40400000 0056D500 51005001 | îN é &.|
+000000C0 80551555 95555555 55555555 55555555 |Øí.íníííííííí|
+000000D0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000E0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000F0 55555555 55555555 55555555 55550915 |íííííííííííí..|
+00000100 15151515 15151515 15151515 1515 |..... |
```

Origin IMSID = **IMS1**
System where MSG originated
Processing IMSID = **IMS1**
System where this MSG was
processed

Destination Trancode = **TRAN21V0**

Destination Trancode = **TRAN21V0**
Tmember Name = **CLIENT1**

Tpipe Name = **TPIPE1**



Example 7/IMS2 - OTMA/ASYNCR Transaction Read from SQ in BE IMS and Queued to MSC Link (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001253F 02032275 9760028D |.« .....p-ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001253F 02032275 9760028D |*» .....p-ý|
+00000010 04800080 00000000 FFFFFFFF 0B83DC60 |.Ø Ø Ù....cü-|
+00000020 00000000 00000000 00000000 0000000A | |.|
+00000030 00000000 00000000 00000000 00000012 | |..|
+00000040 0014000A C9D4E2F1 40404040 B66A3471 |.IMS1 ¶|.É|
+00000050 F6593082 00000000 00000000 |6ß.b |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000100 |.ð . . |
+00000010 E3D9C1D5 F2F1E5F0 E3D7C9D7 C5F14040 |TRAN21V0TPIPE1 |
+00000020 140A0144 10884040 40404040 40400000 |...à.h |
+00000030 40404040 40404040 2001253F 02200737 | |.....|
+00000040 8565028D 07100000 00000000 00000000 |eÁ.ý.. |
+00000050 00000000 00000316 6A18A397 5A620BD5 | |..|tp!Â.N|
+00000060 9E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 00400300 E3D9C1D5 F2F1E5F0 40D6E4E3 |.TRAN21V0 OUT|
+00000010 C2D6E4D5 C440D4C5 E2E2C1C7 C540E2C5 |BOUND MESSAGE
SE|
+00000020 D5E34040 40404040 40404040 40404040 |NT |
+00000030 40404040 40404040 40404040 40404040 | |

```

Universal Time Stamp (same)
2001253F020322759760028D

Destination SYSID = 0014 (hex)
Source SYSID = 000A (hex)

Destination Trancode = TRAN21V0
Source TPIPE = TPIPE1

User Data Destination = TRAN21V0

Example 7/IMS3 - OTMA/ASYNC Transaction Sent Across MSC Link and Received in Remote Non-SQ IMS and Queued to Transaction Queue (1 of 2)

BASIC PREFIX

```
+00000000 02EC0000 01C18110 04000002 04000002 |.. .Aa.. .. |
+00000010 02AC0008 C9D4E2F1 40404040 B66A3471 |.Đ .IMS1 ¶|.É|
+00000020 F6593082 C9D4E2F3 40404040 B66A3830 |6ß.bIMS3 ¶|..|
+00000030 0AA03D81 00000000 00000000 00000000 |.µ.a |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 00000017 00000001 | a H . . |
+00000010 00010000 00000000 00000000 00000001 | . . |
+00000020 D3C9D5D2 F2F1E5F1 E3D9C1D5 F2F1E5F0 |LINK21V1TRAN21V0|
+00000030 00000000 00000000 E3C5E2E3 D4C1D740 | TESTMAP |
```

OTMA PREFIX

```
+00000000 010E8700 0040C388 A4D52000 E3D7C9D7 |..g ChuN. TPIP|
+00000010 C5F14040 E3D9C1D5 F2F1E5F0 B66A3471 |E1 TRAN21V0¶|.É|
+00000020 EB77EA02 00000000 0B83DC60 C3D3C9C5 |Ô.². .cū-CLIE|
+00000030 D5E3F1F1 40404040 40404040 C9D4E2F1 |NT11 IMS1|
+00000040 40404040 B66A3471 EB67A5C2 00000000 | ¶|.ÉÔÅvB |
+00000050 01400000 0040E3D7 C9D7C5F1 4040A0D0 |. TPIPE1 µ}|
+00000060 00000001 00000000 00000001 00010000 | . . |
+00000070 00480040 0100E3C5 E2E3D4C1 D7400000 |ç . TESTMAP |
+00000080 00000000 00000000 00000000 0000C9D4 | IM|
+00000090 E2F0F0F0 F0F14040 40404040 40400000 |S00001 |
+000000A0 00000000 00000000 00000000 00004040 | |
+000000B0 40404040 40400000 0056D500 51005001 | îN é &|
+000000C0 80551555 95555555 55555555 55555555 |Øí.íníííííííí|
+000000D0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000E0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000F0 55555555 55555555 55555555 55550915 |íííííííííííí..|
+00000100 15151515 15151515 15151515 1515 |..... |
```

Origin IMSID = **IMS1**
 System where MSG originated
 Processing IMSID = **IMS3**
 System where this MSG was processed
 Source MSNAME = **LINK21V1**
 Destination Trancode = **TRAN21V0**

Destination Trancode = **TRAN21V0**
 Tmember Name = **CLIENT1**

Tpipe Name = **TPIPE1**



Example 7/IMS3 - OTMA/ASYNCR Transaction Sent Across MSC Link and Received in Remote Non-SQ IMS and Queued to Transaction Queue (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001253F 02032275 9760028D |.« .....p-ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001253F 02032275 9760028D |*» .....p-ý|
+00000010 04800080 00000000 FFFFFFFF 0B83DC60 |.Ø Ø Ù....cü-|
+00000020 00000000 00000000 00000000 0000000A | |.|
+00000030 00000000 00000000 00000000 00030012 | |..|
+00000040 0014000A C9D4E2F1 40404040 B66A3471 |..IMS1 ¶|.É|
+00000050 F6593082 00000000 00000000 |6ß.b |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 0000000A 00000000 00000100 |.ð . . .|
+00000010 E3D9C1D5 F2F1E5F0 E3D7C9D7 C5F14040 |TRAN21V0TPIPE1 |
+00000020 140A0144 10884040 40404040 40400000 |...à.h |
+00000030 40404040 40404040 2001253F 02200737 | |.....|
+00000040 8565028D 07100000 00000000 00000000 |eÁ.ý.. |
+00000050 00000000 00000316 6A18A397 5A620BD5 | |..|tp!Â.N|
+00000060 9E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 00400300 E3D9C1D5 F2F1E5F0 40D6E4E3 | . TRAN21V0 OUT|
+00000010 C2D6E4D5 C440D4C5 E2E2C1C7 C540E2C5 |BOUND MESSAGE
SE|
+00000020 D5E34040 40404040 40404040 40404040 |NT |
+00000030 40404040 40404040 40404040 40404040 | |

```

Universal Time Stamp (same)
2001253F020322759760028D

Destination SYSID = 0014 (hex)
Source SYSID = 000A (hex)

Destination Trancode = TRAN21V0
Source TPIPE = TPIPE1

User Data Destination = TRAN21V0

Example 7/IMS3 - ASYNC Response Inserted by Application in Remote Non-SQ IMS and Queued to MSC Link (1 of 2)

BASIC PREFIX

```
+00000000 02DE0000 03C48210 04000003 04000003 |.ú .Db.. .. |
+00000010 02AC0000 C9D4E2F1 40404040 B66A3471 |.Ð IMS1 ¶|.É|
+00000020 F6593082 C9D4E2F3 40404040 B66A3A8A |6ß.blIMS3 ¶|.«|
+00000030 92EED246 00000000 00000000 00000000 |kÓKã |
```

SYSTEM PREFIX

```
+00000000 00408100 C8100000 00000017 00000001 | a H. . . |
+00000010 00010001 00010000 00000000 00000001 |... |
+00000020 D3C9D5D2 F2F1E5F1 D3C9D5D2 F2F1E5F1 |LINK21V1LINK21V1|
+00000030 00000000 00000000 E3C5E2E3 D4C1D740 | TESTMAP |
```

OTMA PREFIX

```
+00000000 010E8700 0040C388 A4D52000 E3D7C9D7 |..g ChuN. TPIP|
+00000010 C5F14040 E3D9C1D5 F2F1E5F0 B66A3471 |E1 TRAN21V0¶|.É|
+00000020 EB77EA02 00000000 0B83DC60 C3D3C9C5 |Ô.². .cü-CLIE|
+00000030 D5E3F1F1 40404040 40404040 C9D4E2F1 |NT11 IMS1|
+00000040 40404040 B66A3471 EB67A5C2 00000000 | ¶|.ÉÔÁvB |
+00000050 01400000 0040E3D7 C9D7C5F1 4040A0D0 |. TPIPE1 µ}|
+00000060 00000001 00000000 00000001 00010000 | . .. |
+00000070 00480040 0100E3C5 E2E3D4C1 D7400000 |ç . TESTMAP |
+00000080 00000000 00000000 00000000 0000C9D4 | IM|
+00000090 E2F0F0F0 F0F14040 40404040 40400000 |S00001 |
+000000A0 00000000 00000000 00000000 00004040 | |
+000000B0 40404040 40400000 0056D500 51005001 | îN é &.|
+000000C0 80551555 95555555 55555555 55555555 |Øí.íníííííííí|
+000000D0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000E0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000F0 55555555 55555555 55555555 55550915 |íííííííííííí..|
+00000100 15151515 15151515 15151515 1515 |..... |
```

Origin IMSID = **IMS1**
System where MSG originated
Processing IMSID = **IMS3**
System where this MSG was
processed

Source MSNAME = **LINK21V1**
Destination MSNAME = **LINK21V1**

Destination Trancode = **TRAN21V0**
Tmember Name = **CLIENT1**

Tpipe Name = **TPIPE1**



Example 7/IMS3 - ASYNC Response Inserted by Application in Remote Non-SQ IMS and Queued to MSC Link (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001253F 02032275 9760028D |.« .....p-ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001253F 02032275 9760028D |*» .....p-ý|
+00000010 85800080 00000000 FFFFFFFF 0B83DC60 |eØ Ø Ù....cü-|
+00000020 FFFFFFFF 0B83DC60 00000000 000A0014 |Ù....cü- ..|
+00000030 00000000 00000000 00000000 00030012 | ..|
+00000040 000A000A C9D4E2F1 40404040 B66A3471 |..IMS1 ¶|É|
+00000050 F6593082 00000000 00000000 |6ß.b |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 00000A14 00000000 00000102 |.ð .. ..|
+00000010 E3D7C9D7 C5F14040 E3D7C9D7 C5F14040 |TPIPE1 TPIPE1 |
+00000020 0A0A0300 30884040 40404040 40400000 |...h |
+00000030 40404040 40404040 2001253F 02200737 | .....|
+00000040 8565028D 07100000 00000000 00000000 |eÁ.ý.. |
+00000050 00000000 00000316 6A18A397 5A620BD5 | ..|tp!Â.N|
+00000060 9E980000 00000000 00000000 00000000 |.q |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 00320300 D9C5E2D7 D6D5E2C5 F140D4C5 |.. RESPONSE1 ME|
+00000010 E2E2C1C7 C540C6D9 D6D440D9 C5D4D6E3 |SSAGE FROM
REMO|
+00000020 C540D6E3 D4C140E3 D9C1D540 40404040 |E OTMA TRAN |
+00000030 4040 | |

```

Universal Time Stamp (same)
2001253F020322759760028D

Destination SYSID = 000A (hex)
Source SYSID = 000A (hex)

Destination TPIPE = TPIPE1
Source TPIPE = TPIPE1

User Data = RESPONSE1

Example 7/IMS2 - ASYNC Response Received in BE SQ IMS from MSC Link and Queued to MSC Internal Queue for FE IMS (1 of 2)

BASIC PREFIX

```
+00000000 02DE0000 01C48210 08000002 08000002 |.ú .Db.. .. |
+00000010 02AC1000 C9D4E2F1 40404040 B66A3471 |.Đ. IMS1 ¶|.É|
+00000020 F6593082 C9D4E2F2 40404040 B66A3D8A |6ß.blIMS2 ¶|.«|
+00000030 270FCD4B 80000800 00000000 00000000 |..ò.Ø. |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 00000038 00000001 | a H . . . |
+00000010 00010000 00000000 00000000 00000001 | . . . |
+00000020 D3C9D5D2 F1F2E5F1 D4E2D5E2 F2404040 |LINK12V1MSNS2 |
+00000030 00000000 00000000 E3C5E2E3 D4C1D740 | TESTMAP |
```

OTMA PREFIX

```
+00000000 010E8700 0040C388 A4D52000 E3D7C9D7 |..g ChuN. TPIP|
+00000010 C5F14040 E3D9C1D5 F2F1E5F0 B66A3471 |E1 TRAN21V0¶|.É|
+00000020 EB77EA02 00000000 0B83DC60 C3D3C9C5 |Ô.². .cü-CLIE|
+00000030 D5E3F1F1 40404040 40404040 C9D4E2F1 |NT11 IMS1|
+00000040 40404040 B66A3471 EB67A5C2 00000000 | ¶|.ÉÔÅvB |
+00000050 01400000 0040E3D7 C9D7C5F1 4040A0D0 |. TPIPE1 µ}|
+00000060 00000001 00000000 00000001 00010000 | . . . |
+00000070 00480040 0100E3C5 E2E3D4C1 D7400000 | ç . TESTMAP |
+00000080 00000000 00000000 00000000 0000C9D4 | IM|
+00000090 E2F0F0F0 F0F14040 40404040 40400000 |S00001 |
+000000A0 00000000 00000000 00000000 00004040 | |
+000000B0 40404040 40400000 0056D500 51005001 | îN é &.|
+000000C0 80551555 95555555 55555555 55555555 |Øí.íníííííííí|
+000000D0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000E0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000F0 55555555 55555555 55555555 55550915 |íííííííííííí..|
+00000100 15151515 15151515 15151515 1515 |..... |
```

Origin IMSID = **IMS1**
System where MSG originated
Processing IMSID = **IMS2**
System where this MSG was
processed
Source MSNAME = **LINK12V1**
Destination MSNAME = **MSNS2**

Destination Trancode = **TRAN21V0**
Tmember Name = **CLIENT1**

Tpipe Name = **TPIPE1**



Example 7/IMS2 - ASYNC Response Received in BE SQ IMS from MSC Link and Queued to MSC Internal Queue for FE IMS (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 2001253F 02032275 9760028D |.« .....p-ý|
+00000010 00000000 00000000 | |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001253F 02032275 9760028D |*» .....p-ý|
+00000010 05000080 00000000 FFFFFFFF 0B83DC60 |. Ø Ù....cü-|
+00000020 FFFFFFFF 0B83DC60 00000000 000A0014 |Ù....cü- ..|
+00000030 00000000 00000000 00000003 00120003 | |
+00000040 000A000A C9D4E2F1 40404040 B66A3471 |..IMS1 ¶|.É|
+00000050 F6593082 00000000 00000000 |6β.b |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 00000A14 00000000 00010200 |.đ .. ..|
+00000010 FFFFFFFF 0B83DC60 FFFFFFFF 0B83DC60 |Ù....cü-Ù....cü-|
+00000020 0A0A0304 30884040 40404040 40400000 |.....h |
+00000030 40404040 40404040 2001253F 02440404 | .....à..|
+00000040 4112028D 07100000 00000000 00000000 |..ý.. |
+00000050 00000000 000008D4 E2D5E2F2 404040C9 |.MSNS2 ||
+00000060 D4E2F140 40400000 00000000 00000000 |MS1 |
+00000070 00000710 | .. |
USER DATA FROM PRIMARY RECORD
+00000000 00320300 D9C5E2D7 D6D5E2C5 F140D4C5 |.. RESPONSE1 ME|
+00000010 E2E2C1C7 C540C6D9 D6D440D9 C5D4D6E3 |SSAGE FROM
REMO|
+00000020 C540D6E3 D4C140E3 D9C1D540 40404040 |E OTMA TRAN |
+00000030 4040 | |

```

Universal Time Stamp (same)
2001253F020322759760028D

User Data = **RESPONS1**

Example 7/IMS1 - ASYNC Response READ from MSC Internal Queue in FE IMS and Queued to APPC Output Queue (1 of 2)

BASIC PREFIX

```
+00000000 02DE0000 01C48210 08000003 08000003 |.ú .Db.. .. |
+00000010 02AC0002 C9D4E2F1 40404040 B66A3EC5 |.Ð .IMS1 ¶|.E|
+00000020 5E458BC8 C9D4E2F1 40404040 B66A3EC5 |;á»HIMS1 ¶|.E|
+00000030 5E458BC8 40000900 00000000 00000000 |;á»H . |
```

SYSTEM PREFIX

```
+00000000 00408100 C8000000 0000003F 00000002 | a H . . |
+00000010 00000000 00000000 00000000 00000001 | . . |
+00000020 FFFFFFFF FFFFFFFF FEFFFFFF 0B8C9060 |.....Ú....ð°-|
+00000030 00000000 00000000 80039874 AD030950 | Ø.q.Ý..&|
```

OTMA PREFIX

```
+00000000 010E8700 0040C388 34D52000 E3D7C9D7 |.g Ch.N. TPIP|
+00000010 C5F14040 E3D9C1D5 F2F1E5F0 B66A3471 |E1 TRAN21V0¶|.É|
+00000020 EB67A5C2 00000000 0B8C9060 C3D3C9C5 |ÔÁvB .ð°-CLIE|
+00000030 D5E3F1F1 40404040 40404040 C9D4E2F1 |NT11 IMS1|
+00000040 40404040 B66A3471 EB67A5C2 00000000 | ¶|.ÉÔÁvB |
+00000050 01400000 0040E3D7 C9D7C5F1 4040A0D0 |. TPIPE1 µ}|
+00000060 00000001 00000000 00000001 00010000 | . . . |
+00000070 00480040 0100E3C5 E2E3D4C1 D7400000 | ç . TESTMAP |
+00000080 00000000 00000000 00000000 0000C9D4 | IM|
+00000090 E2F0F0F0 F0F14040 40404040 40400000 |S00001 |
+000000A0 00000000 00000000 00000000 00004040 | |
+000000B0 40404040 40400000 0056D500 51005001 | îN é &.|
+000000C0 80551555 95555555 55555555 55555555 |Øí.íníííííííí|
+000000D0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000E0 55555555 55555555 55555555 55555555 |íííííííííííí|
+000000F0 55555555 55555555 55555555 55550915 |íííííííííííí..|
+00000100 15151515 15151515 15151515 1515 |..... |
```

Origin IMSID = **IMS1**
System where MSG originated
Processing IMSID = **IMS1**
System where this MSG was
processed

Destination Trancode = **TRAN21V0**
Tmember Name = **CLIENT1**

Tpipe Name = **TPIPE1**



Example 7/IMS1 - ASYNC Response READ from MSC Internal Queue in FE IMS and Queued to APPC Output Queue (2 of 2)

```

SYSTEM EXTENSION PREFIX
+00000000 00188A00 00000000 00000000 00000000 |.«      |
+00000010 00000000 00000000          |      |
MSC EXTENSION PREFIX
+00000000 005C8B00 2001253F 02032275 9760028D |*» .....p-ý|
+00000010 00000080 00000000 FFFFFFFF 0B83DC60 | Ø Ù....cü-|
+00000020 FFFFFFFF 0B83DC60 00AD0000 00090050 |Ù....cü- Ý .&|
+00000030 00000000 00000000 00030012 00030003 | .....|
+00000040 000000FD C9D4E2F1 40404040 B66A3471 | ÙIMS1 ¶|.É|
+00000050 F6593082 00000000 00000000          |6ß.b      |
TRANSACTION MANAGER ROUTING PREFIX
+00000000 00748C00 AD000950 AD070950 AD000950 |.ð Ý .&Ý..&Ý .&|
+00000010 FFFFFFFF 0B8C9060 00000704 00000000 |Ú....ð°- .. |
+00000020 00FD0D08 00000000 00FD0D10 00000000 |Ù.. Ù.. |
+00000030 00000000 00000000 2001253F 02493457 | .....ñ.ï|
+00000040 1653028D 07100000 00000000 00000000 |.ë.ý..      |
+00000050 00000000 00000316 6A1818C7 1B1D0BD5 | ..|.G...N|
+00000060 5DC00000 00000000 00000000 00000000 |)}      |
+00000070 00000710          | ..      |
USER DATA FROM PRIMARY RECORD
+00000000 00320300 D9C5E2D7 D6D5E2C5 F140D4C5 |.. RESPONSE1 ME|
+00000010 E2E2C1C7 C540C6D9 D6D440D9 C5D4D6E3 |SSAGE FROM
REMOT|
+00000020 C540D6E3 D4C140E3 D9C1D540 40404040 |E OTMA TRAN  |
+00000030 4040          |      |

```

Universal Time Stamp (same)
2001253F020322759760028D

User Data = RESPONSE1

