

Cisco Unified CallManager 4.1-PBX Interoperability: Lucent/Avaya Definity G3si V10 and Octel 200 Voice Mail Server using a Cisco 3640 with T1 QSIG as MGCP Gateway for MWI Services

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Introduction

This is an Application Note for the connectivity of Lucent/Avaya Definity G3 Version 10 PBX and Octel 200 Voice Mail Server with Cisco Unified CallManager using a Cisco 3640-T1 QSIG interface as the MGCP Gateway.

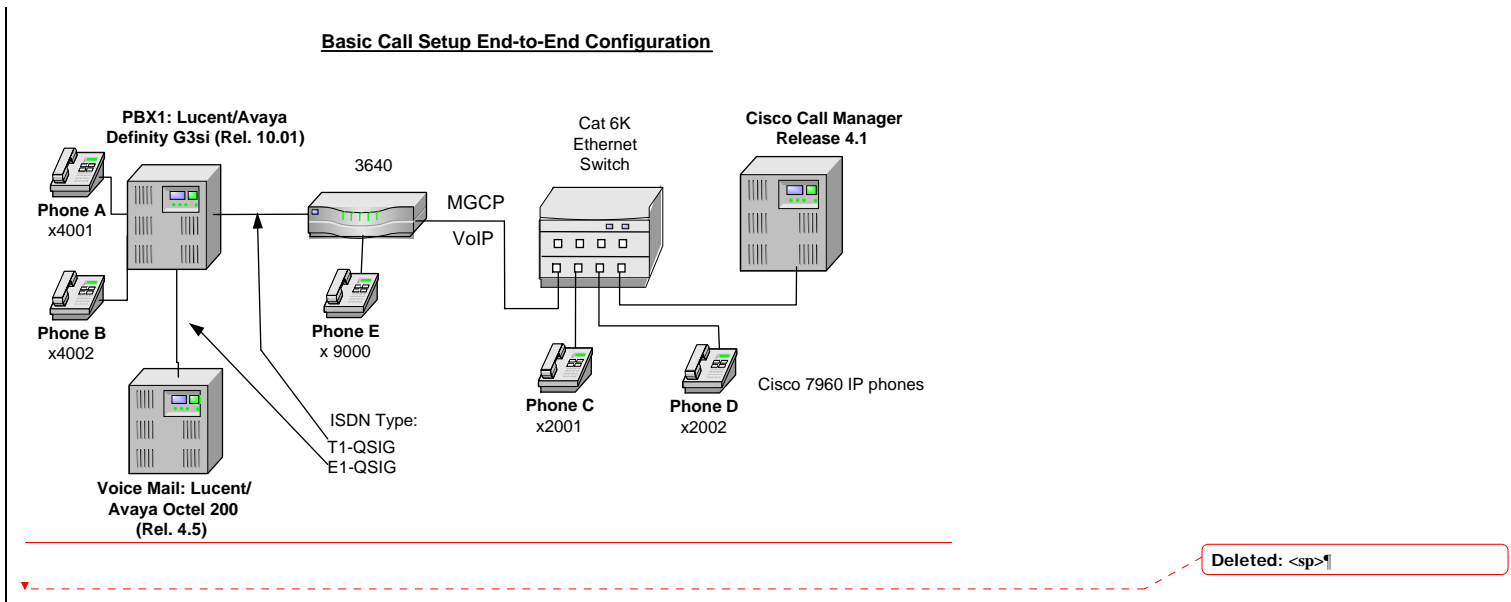
The Network Topology diagram shows the test set-up for end-to-end interoperability between the Cisco Unified CallManager connected to the PBX via Cisco 3640-T1 link as the MGCP Gateway.

Connectivity is achieved by using the industry standard ISO QSIG protocol. The Lucent/Avaya Definity G3si can be configured as either Peer-master or Peer-slave.



Network Topology

Figure 1. Basic Call Setup



Limitations

QSIG Message Waiting Indicator

- Current software for the Definity PBX that uses Leave Word Calling (LWC) is not translated into QSIG MWI Activate and Deactivate commands. Therefore, the only way to get MWI to work with the Cisco Call Manager is if the Octel is integrated with the Definity via QSIG. It cannot be integrated via analog, digital or port emulation.
- While the Avaya Communications Manager documentation does not show the same limitations as previous versions, it has not been verified if it can convert LWC into QSIG MWI Activate and Deactivate commands.



System Components

Hardware Requirements

Cisco Hardware

- Cisco 3640 Gateway with 2MFT T1 Port
- Cisco Cat6K switch
- Cisco Unified CallManager 4.1

PBX Hardware including interface card

- Lucent/Avaya Definity G3si V10 PBX.
- Hardware: TN464F, DS1 INTFC 24/32
- Avaya Octel 200 V4.5 Voice Mail Server
- Hardware: DTICE E1 QSIG Interface

Software Requirements

Cisco IOS software release 12.3

PBX Software Version 10.0.

Octel Software Version 4.5

Cisco Unified CallManager 4.1

Features

Calling/Called Number

Calling Name

Connected Name

Message Waiting Indicator (MWI) Activation and Deactivation

Forward into Voice Mail

Divert out of Voice Mail

Configuration

Configuring the Lucent/Avaya Definity G3si PBX

Configure in the following sequence:

Add the new circuit pack.

Add the new signaling group.

Add the new trunk group.

Add Uniform Dialing Plan.



Avaya Trunk Connected to the Octel VM System

DS1 Interface

```
V10 GEDI
send (return)  help (F5)  cancel (esc)  enter (F3)  schedule (F8)  next (F7)  previous (F8)  next form (F6)

DS1 CIRCUIT PACK

Location: 01A10          Name: QSIG-OCTEL-E1
Bit Rate: 2.048         Line Coding: hdb3

Signaling Mode: isdn-pri
Connect: pbx           Interface: peer-master
CentreVu Long Timers? n Peer Protocol: Q-SIG
Interworking Message: PROgress Side: a
Interface Companding: alaw CRC? n
Idle Code: 11111111    Channel Numbering: timeslot
                        DCP/Analog Bearer Capability: 3.1kHz

Slip Detection? n      Near-end CSU Type: other
```



Signaling Group

V10 GEDI

send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8) next form (f6)

SIGNALING GROUP

Group Number: 10 Group Type: isdn-pri
Associated Signaling? y Max number of NCA TSC: 10
Primary D-Channel: 01A1016 Max number of CA TSC: 2
Trunk Group for NCA TSC: 10
Trunk Group for Channel Selection: 10
Supplementary Service Protocol: b

Note: You must enable TSC's for the non channel associated messages (MWI activate and deactivate) to work correctly.



Trunk Group

Y10 GEDI

display trunk-group 10 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8) next form (f6)

1 2 3 4 5 6 7 8 9 10

TRUNK GROUP

Group Number: 10 Group Type: isdn CDR Reports: y
Group Name: QSIG-OCTEL COR: 1 TN: 1 TAC: 610
Direction: two-way Outgoing Display? y Carrier Medium: PRI/BRI
Dial Access? y Busy Threshold: 99 Night Service:
Queue Length: 0
Service Type: tie Auth Code? n TestCall ITC: rest
Far End Test Line No:
TestCall BCC: 4
TRUNK PARAMETERS
Codeset to Send Display: 0 Codeset to Send National IEs: 6
Max Message Size to Send: 260 Charge Advice: none
Supplementary Service Protocol: b Digit Handling (in/out): enbloc/enbloc
Trunk Hunt: ascend QSIG Value-Added? n
Digital Loss Group: 13
Calling Number - Delete: Insert: Numbering Format: lev2-put
Bit Rate: 1200 Synchronization: async Duplex: full
Disconnect Supervision - In? y Out? n
Answer Supervision Timeout: 0

Y10 GEDI

display trunk-group 10 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8) next form (f6)

1 2 3 4 5 6 7 8 9 10

TRUNK FEATURES

ACA Assignment? n Measured: none Wideband Support? n
Internal Alert? n Maintenance Tests? y
Data Restriction? n NCA-TSC Trunk Member: 3
Send Name: y Send Calling Number: y
Hop Dgt? y
Used for DCS? n
Suppress # Outpulsing? n Numbering Format: unk-put
Outgoing Channel ID Encoding: preferred UUI IE Treatment: service-provider
Replace Restricted Numbers? n
Replace Unavailable Numbers? n
Send Connected Number: y
Send UCID? n
Send Codeset 6/7 LAI IE? y Ds1 Echo Cancellation? n
Path Replacement with Retention? n
Path Replacement Method: always
Network (Japan) Needs Connect Before Disconnect? n

Note: NCA-TSC cannot be blank or 0 for the non channel associated messages (MWI activate and deactivate) to work correctly.



V10 GEDI

display trunk-group 10 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8) next form (f6)

1	2	3	4	5	6	7	8	9	10
INCOMING CALL HANDLING TREATMENT									
Service/ Feature tie	Called Len 7	Called Number 555	Del	Insert				Per Call CPN/BN	Night Serv
			3						

V10 GEDI

display trunk-group 10 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8) next form (f6)

1	2	3	4	5	6	7	8	9	10
TRUNK GROUP									
Administered Members (min/max): 1/4									
Total Administered Members: 4									
GROUP MEMBER ASSIGNMENTS									
	Port	Code	Sfx	Name		Night		Sig	Grp
1:	01A1001	TN464	F					10	
2:	01A1002	TN464	F					10	
3:	01A1003	TN464	F					10	
4:	01A1004	TN464	F					10	
5:									
6:									
7:									
8:									
9:									
10:									
11:									
12:									
13:									
14:									
15:									



Uniform Dialing Plan

UNIFORM DIALING PLAN									
Ext Codes: 4ddx									
Ext Code: 4xxx Type: AARCode 222									
dd	Type	dd	Type	dd	Type	dd	Type	dd	Type
0x:		1x:		2x:		3x:		4x:	
00:		10:		20:		30:		40:	
01:		11:		21:		31:		41:	
02:		12:		22:		32:		42:	
03:		13:		23:		33:		43:	
04:		14:		24:		34:		44:	
05:		15:		25:		35:		45:	
06:		16:		26:		36:		46:	
07:		17:		27:		37:		47:	
08:		18:		28:		38:		48:	
09:		19:		29:		39:		49:	



Route Pattern:

V10 GEDI																	
send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8) next form (f6)																	
Pattern Number: 10																	
Grp. No.	FRL	NPA	Pfx	Hop	Toll	No. Del	Inserted Dgts								DCS/ IXC		
								QSIG								Intw	
1:	10	0														n	user
2:																n	user
3:																n	user
4:																n	user
5:																n	user
6:																n	user
BCC VALUE TSC CA-TSC ITC BCIE Service/Feature BAND No. Numbering LAR																	
0 1 2 3 4 W Request Dgts Format Subaddress																	
1:	y	y	y	y	n	y	as-needed	rest								lev0-put	none
2:	y	y	y	y	n	n		rest									none
3:	y	y	y	y	n	n		rest									none
4:	y	y	y	y	n	n		rest									none
5:	y	y	y	y	n	n		rest									none
6:	y	y	y	y	n	n		rest									none

Note: You must enable TSC's for the non channel associated messages (MWI activate and deactivate) to work correctly.



Hunt Group

```
V10 GEDI
display hunt-group 10
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
HUNT GROUP
Group Number: 10          ACD? n
Group Name: UOICE-MAIL-OCTEL-QSIG  Queue? n
Group Extension: 5050      Vector? n
Group Type: ucd-mia       Coverage Path:
TN: 1                     Night Service Destination:
COR: 1                    MH Early Answer? n
Security Code:
ISDN Caller Display: grp-name
```

```
V10 GEDI
display hunt-group 10
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
HUNT GROUP
Group Number: 10      Group Extension: 5050      Group Type: ucd-mia
Member Range Allowed: 1 - 200      Administered Members (min/max): 0 /0
Total Administered Members: 0
GROUP MEMBER ASSIGNMENTS
Ext  Name                      Ext  Name
1 :                               14 :
2 :                               15 :
3 :                               16 :
4 :                               17 :
5 :                               18 :
6 :                               19 :
7 :                               20 :
8 :                               21 :
9 :                               22 :
10 :                              23 :
11 :                              24 :
12 :                              25 :
13 :                              26 :
At End of Member List
```



Avaya Trunk Connected to Call Manager MGCP QSIG Trunk

DS1 Interface

display ds1 1a12

send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 2

DS1 CIRCUIT PACK

Location: 01A12	Name:
Bit Rate: 1.544	Line Coding: b8zs
Line Compensation: 1	Framing Mode: esf
Signaling Mode: isdn-pri	Interface: peer-master
Connect: pbx	Peer Protocol: Q-SIG
TN-C7 Long Timers? n	Side: a
Interworking Message: PROGRESS	CRC? n
Interface Companding: mulaw	
Idle Code: 11111111	

DCP/Analog Bearer Capability: 3.1kHz

Slip Detection? n Near-end CSU Type: other

V10 GEDI

Locatio
Bit Rat
Signaling Mod
Connec
CentreUu Long Timer
Interworking Messag
Interface Compandin
Idle Cod
Slip Detectio

Deleted:



Signaling Group

send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

SIGNALING GROUP

Group Number: 12 **Group Type: isdn-pri**
Associated Signaling? y **Max number of NCA TSC: 10**
Primary D-Channel: 01A1224 **Max number of CA TSC: 10**
Trunk Group for Channel Selection: 12 **Trunk Group for NCA TSC: 12**
Supplementary Service Protocol: b **X-Mobility/Wireless Type: NONE**

Note: You must enable TSC's for the non channel associated messages (MWI activate and deactivate) to work correctly.

VIN GEDI

Group Number: 12

Trunk Group f
Supplement

Deleted:



Trunk Group

```
display trunk-group 12  send (return)  help (f5)  cancel (esc)  enter (f3)  schedule (f9)  next (f7)  previous (f8)
 1  2  3  4  5  6  7  8  9  10
TRUNK GROUP
Group Number: 12          Group Type: isdn          CDR Reports: y
Group Name: QSIG to CM-POLARIS  COR: 1          TN: 1          TAC: 612
Direction: two-way        Outgoing Display? n      Carrier Medium: PRI/BRI
Dial Access? y            Busy Threshold: 99       Night Service:
Queue Length: 0
Service Type: tie         Auth Code? n            TestCall ITC: rest
                          Far End Test Line No:
TestCall BCC: 4
TRUNK PARAMETERS
  Codeset to Send Display: 0      Codeset to Send National IEs: 6
  Max Message Size to Send: 260   Charge Advice: none
  Supplementary Service Protocol: b  Digit Handling (in/out): enbloc/enbloc
Trunk Hunt: ascend              QSIG Value-Added? y
Digital Loss Group: 13
Calling Number - Delete:      Insert:              Numbering Format: unk-unk
  Bit Rate: 1200             Synchronization: async  Duplex: full
Disconnect Supervision - In? y  Out? y
Answer Supervision Timeout: 0
```



```

display trunk-group 12
1 2 3 4 5 6 7 8 9 10
TRUNK FEATURES
  ACA Assignment? n          Measured: none          Wideband Support? n
                             Internal Alert? n          Maintenance Tests? y
                             Data Restriction? n          NCA-TSC Trunk Member: 3
                             Send Name: y              Send Calling Number: y
  Used for DCS? n           Hop Dgt? y
  Suppress # Outpulsing? n  Numbering Format: unknown
  Outgoing Channel ID Encoding: preferred  UUI IE Treatment: service-provider

                             Replace Restricted Numbers? y
                             Replace Unavailable Numbers? y
                             Send Called/Busy/Connected Number: y

  Send UUI IE? y
  Send UCID? y
  Send Codeset 6/7 LAI IE? y          Ds1 Echo Cancellation? n

  Path Replacement with Retention? y

  SBS? n  Network (Japan) Needs Connect Before Disconnect? n

```

```

v10 GEDI
display trunk-group 12
1 2 3 4 5 6
Group Number: 12
Group Name: E1_QSIG
Direction: two-way
Dial Access? y
Queue Length: 0
Service Type: tandem

TestCall BCC: 4
TRUNK PARAMETERS
  Codeset to S
  Max Message S
  Supplementary Servi

  Trunk Hun

Calling Number - Dele
  Bit Rat
Disconnect Supervisi
Answer Supervision T

```

Deleted:

```

v10 GEDI
display trunk-group 12
1 2 3 4 5 6 7 8
TRUNK FEATURES
  ACA Assignment? n

  Used for DCS? n
  Suppress # Outpulsing? n
  Outgoing Channel ID Encoding:
  Charge Conversion: 1
  Decimal Point: none
  Currency Symbol:
  Charge Type: unit

  Send UCID? n
  Send Codeset 6/7 LAI IE? n

  Path Replacement with Retenti

```

Note: NCA-TSC cannot be blank or 0 for the non channel associated messages (MWI activate and deactivate) to work correctly.



display trunk-group 12 send (return) help (f5) cancel (esc) enter (f3) schedule (f9) next (f7) previous (f8)

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

TRUNK GROUP
Administered Members (min/max): 1/10
Total Administered Members: 10

GROUP MEMBER ASSIGNMENTS

	Port	Code	Sfx	Name	Night	Sig	Grp
1:	01A1201	TN464	F			12	
2:	01A1202	TN464	F			12	
3:	01A1203	TN464	F			12	
4:	01A1204	TN464	F			12	
5:	01A1205	TN464	F			12	
6:	01A1219	TN464	F			12	
7:	01A1220	TN464	F			12	
8:	01A1221	TN464	F			12	
9:	01A1222	TN464	F			12	
10:	01A1223	TN464	F			12	
11:							
12:							
13:							
14:							
15:							

V10 GEDI

display trunk-group 12

1 | 2 | 3 | 4 | 5 | 6

Service/Feature	Call Len
tandem	7

Deleted:

V10 GEDI

display trunk-group 12

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

GROUP MEMBER ASSIGNMENTS

	Port	Code	Sfx	Name
1:	01A1201	TN464	F	
2:	01A1202	TN464	F	
3:	01A1203	TN464	F	
4:	01A1204	TN464	F	
5:	01A1205	TN464	F	
6:	01A1206	TN464	F	
7:	01A1207	TN464	F	
8:				
9:				
10:				
11:				
12:				
13:				
14:				
15:				



Route Pattern

Pattern Number: 12												
Grp. No.	FRL	NPA	Pfx	Hop	Toll	No.	Inserted	DCS/ IXC				
								QSIG	Intw			
							Dgts					
1:	12	0	408				3		n	user		
2:									n	user		
3:									n	user		
4:									n	user		
5:									n	user		
6:									n	user		

BCC	VALUE	TSC	CA-TSC	ITC	BCIE	Service/Feature	BAND	No.	Numbering	LAR
0	1	2	3	4	W	Request		Dgts	Format	Subaddress
1:	y	y	y	y	n	y	as-needed	rest	1ev0-put	none
2:	y	y	y	y	n	n		rest		none
3:	y	y	y	y	n	n		rest		none
4:	y	y	y	y	n	n		rest		none
5:	y	y	y	y	n	n		rest		none
6:	y	y	y	y	n	n		rest		none

Note: You must enable TSC's for the non channel associated messages (MWI activate and deactivate) to work correctly.

Octel 200 Configuration

Note: The Octel is configured as it would be in a normal networked environment. All routing between the Octel and Call Manager is handled by the Avaya 'transit' PBX. Care should be taken to make sure call routing is correct in the Avaya 'transit' PBX.

list all

SYSTEM PARAMETER TABLE:

TUE 08/31/2004 09:04:29 CISCO ID:220749 S/N:220749 PBX:23

INDEX	VALUE	(LST/MOD)	PARAMETER NAME:
1	CISCO	L/M	INSTALLATION NAME
2	220749	L/M	SYSTEM ID NUMBER
3	ATT	L/M	PBX TYPE
	SYSTEM-75		PBX MODEL
4	4	L	VOICE PORTS USED
	0		FAX PORTS USED
7	3	L	REPROMPT LIMIT
8	4	L/M	BACKUP/GO AHEAD TIME (BLOCKS)
9	750	L/M	FLASH TIME (MSEC.)
12	255	L	INSTALL QUESTION NUMBER
13	FE	L/M	TRANSFER INITIATE CODE



	FDF		RE-CONNECT CODE AFTER NO ANSWER
	FDF		RE-CONNECT CODE AFTER BUSY
	NONE		RE-CONNECT CODE AFTER FAST BUSY
	NONE		TRANSFER COMPLETE CODE
16	FE	L/M	ALTERNATE TRANSFER INITIATE CODE
	FDF		ALTERNATE RE-CONNECT CODE AFTER NO ANSWER
	FDF		ALTERNATE RE-CONNECT CODE AFTER BUSY
	NONE		ALTERNATE RE-CONNECT CODE AFTER FAST BUSY
	NONE		ALTERNATE TRANSFER COMPLETE CODE
19	NO	L/M	MAILBOX NUMBERS MATCH USER EXTENSIONS
22	8	L/M	DEFAULT MESSAGE WAITING START HOUR
23	18	L/M	DEFAULT MESSAGE WAITING END HOUR
25	15	L/M	DEF MSG WTG RETRY PERIOD (MINUTES)
26	NO	L/M	DOUBLE-INTERRUPTED RINGBACK
28	500	L/M	"D" CHAR DELAY TIME. (MSEC.)
31	NONE	L/M	ALARM NUMBER
32	5	L/M	MAXIMUM MESSAGE LENGTH (MINUTES)
33	NONE	L/M	PBX INITIALIZE CODE
43	1	L/M	PERSONAL GREETING 1=NOCALL 2=CALL FIRST
45	NONE	L/M	SYSTEM-RELOAD FORWARD STRING
46	NONE	L/M	SYSTEM-RELOAD CANCEL-FORWARD STRING
51	NO	L/M	RS-232 INTEGRATED WITH PBX
56	0	L/M	NUMBER OF TRANSFER RETRIES IF FLASH FAILS
58	NO	L/M	DEV: DEVICE SUPPORT
	NO		MASTER SYSTEM
59	NONE	L/M	DID: SYSTEM PILOT EXTENSION NUMBER
60	NONE	L/M	DID: ATTENDANT EXTENSION NUMBER
61	3	L/M	DID: NUMBER OF DIGITS EXPECTED FROM CO
62	18:00	L/M	NET: NIGHT DELIVERY START TIME
63	06:00	L/M	NET: NIGHT DELIVERY END TIME
64	30	L/M	NET: MAX BEEPS FOR MULTI-CABINET CONNECT
65	20	L/M	NET: MULTI-CABINET DELIVERY ATTEMPT LIMIT
66	3	L/M	NET: MULTI-CAB. DELAY BEFORE RETRY (MIN.)
67	30	L/M	NET: MAX BEEPS FOR REMOTE CONNECT
68	20	L/M	NET: REMOTE DELIVERY ATTEMPT LIMIT
69	10	L/M	NET: REMOTE DELAY BEFORE RETRY (MIN.)
70	IMMED	L/M	NET: MESSAGE DELIVERY MODE DEFAULT
71	0	L	TONE-DETECT THRESHOLD
72	55	L/M	LINES-PER-PAGE FOR REPORTS
73	4	L/M	MIN LENGTH FOR MSG TO BE SENT (BLOCKS)
74	5	L/M	INITIAL SILENCE MAX SEC. (QCK/SCRPTD)
75	4	L/M	SUBSEQUENT SILENCE MAX SEC. (QCK/SCRPTD)
76	3	L/M	NOVICE PROMPT KEYPAD-COMMAND USAGE LIMIT
77	NO	L/M	PBX PROVIDES MOMENTARY DISCONNECT
78	YES	L	PBX PROVIDES STUTTER DIAL TONE
79	NONE	L/M	LAMP MW: "ON" PRE-EXTENSION DIGITS
80	NONE	L/M	LAMP MW: "ON" POST-EXTENSION DIGITS
81	NONE	L/M	LAMP MW: "OFF" PRE-EXTENSION DIGITS
82	NONE	L/M	LAMP MW: "OFF" POST-EXTENSION DIGITS
83	NO	L/M	LAMP MW: LIGHT LAMP FOR EACH NEW MSG
84	NO	L/M	LAMP MW: CALL EXTN BEFORE LIGHTING LAMP
85	NONE	L/M	RECONNECT CODE AFTER 3RD PARTY HUNG-UP
86	NO	L/M	CALLERS GET MUSIC-ON-HOLD
88	NO	L/M	NET: INITIAL-DIGITS INCLUDE MBOX 1ST DIG



89	NO	L/M	NET: USE TRUNK RECONNECT CODES
90	NONE	L/M	NET: RECONNECT CODE AFTER TRUNK ACCESS
91	NONE	L/M	NET: RECONNECT CODE AFTER 3RD PARTY HANG
92	NONE	L/M	NET: COMPLETE TRANSFER TO TRUNK
95	NO	L/M	PBX ACCEPTS DTMF DIGITS ON DID TRUNKS
96	60	L/M	MOVE BACKWARD DURING GREETING (BLOCKS)
97	120	L/M	MOVE FORWARD DURING GREETING (BLOCKS)
98	ENGL US--V	L/M	DEFAULT LANGUAGE
99	0	L/M	RINGBACKS BEFORE ANSWERING CX PORT
100	0	L/M	RINGBACKS BEFORE ANSWERING MX PORT
101	0	L	DELAY BEFORE TURN ON DTMF REPORTING (MSEC)
102	NONE	L/M	PAGER ACCESS DIGITS
103	3	L/M	NET: REMOTE DELAY BEFORE DTMF SIGNALING
104	0	L/M	NET: MULTI-CAB DELAY BEFORE DTMF SIGNALING
105	1234	L/M	DEFAULT SECURITY CODE FOR MAILBOX LOGON
106	0	L/M	LAMP MW: PORT FOR LAMP MESSAGE WAITING
107	NO	L	PBX NEVER GIVES PARTIAL RINGBACK OR BUSY
108	100	L/M	DISK USAGE THRESHOLD BEFORE ALARM NOTIF.
111	NO	L/M	DIAL EXTENSION AFTER RECONNECT CODE
112	NO	L/M	SEND DTMF A ON CX/MX PORTS
113	120	L/M	MAX SIL. FOR SPECIAL PURPOSE GREETINGS (SEC)
114	NO	L/M	DEV: DELAY BEFORE INTERCEPTING CALLS
115	YES	L/M	SYSTEM SAYS ON-THE-PHONE INSTEAD OF IS-BUSY
116	YES	L/M	INTEGRATION ACTIVE
117	0	L/M	RINGBACKS BEFORE ANSWERING AX PORT
118	0	L/M	E&M: LENGTH OF RECORD (NETWORK)
119	0	L/M	E&M: NUM OF EXTN DIGITS EXPECTED (DIRECT)
120	0	L/M	E&M: NUM OF EXTN DIGITS EXPECTED (NETWORK)
121	NONE	L/M	E&M: SYSTEM PILOT EXTENSION NUMBER (DIRECT)
122	NONE	L/M	E&M: SYSTEM PILOT EXTENSION NUMBER (NETWORK)
123	NONE	L/M	E&M: ATTENDANT EXTENSION NUMBER (DIRECT)
124	NONE	L/M	E&M: ATTENDANT EXTENSION NUMBER (NETWORK)
125	0	L/M	E&M: NUM OF DIGITS BEFORE EXTN (NETWORK)
126	0	L/M	E&M: NUM OF DIGS BEFORE LOC. CODE (NETWORK)
127	NONE	L/M	E&M: LOCATION CODE
128	NO	L/M	SEND MBX TO PBX RATHER THAN EXTENSION
129	32	L/M	NET: LIMIT ON LINE QUALITY TEST
130	NO	L/M	SEND DTMF A FOR FORWARDED CALLS
131	NO	L/M	SPEAK "DIAL ZERO FOR ASSISTANCE"
133	NONE	L/M	INTEGRATION CARD EXTENSION
134	NO	L/M	IGNORE DTMFS AFTER ENTERING EXTENSION NUMBER
140	2	L/M	MAXIMUM FORWARDING DEPTH
141	NO	L/M	CAN USE 0 AS WILDCARD IN NAME
142	3	L/M	MINIMUM LETTERS REQUIRED FOR NAME
143	1	L/M	5000UI: GROUP CODE (GRP LST) FIRST DIGIT
144	4	L/M	MINIMUM LENGTH FOR SECURITY CODES
147	NONE	L/M	NAMES DIRECTORY MAILBOX
149	NO	L/M	ALLOW BLIND TRANSFER TO PERSONAL ASSISTANCE
150	NO	L/M	REMOVE "CONNECT" FOR ANNOUNCE TO INTERCEPT
151	NO	L/M	REMOVE "STATUS" FOR ANNOUNCE TO INTERCEPT
152	NO	L/M	NET: REMOVE NETWORK PROMPT FOR QUICK LOGON
153	NO	L/M	DELAY ON CX PORT BEFORE PLAYING GREETING
154	NO	L/M	REMOVE "STATUS" AFTER CALL FIRST GREETING
155	0	L/M	IGNORE LINE DROP AFTER CALL START (SECS/10)



157	YES	L/M	SPEAK DISCRETE VERSIONS OF NUMBERS 21-59
158	NO	L/M	OFFSITE MW CALL LIMIT ABSOLUTE NOT DAILY
159	NO	L/M	DETECT CALL PROGRESS ON EXTERNAL CALLS
160	NO	L/M	QUICK BUSY DETECT
161	0	L/M	MODEM ACCESS PORT (0 = ALL PORTS OK)
162	40	L/M	VOICE SECTORS TO DELETE ON BUSY DETECT
163	24	L/M	VOICE SECTORS TO DELETE ON FAST BUSY DETECT
164	NO	L/M	USE 24-HOUR CLOCK FOR REPORTS
166	NO	L/M	LAMP MW: TURN OFF ONLY IF NO NEW MESSAGES
167	YES	L/M	SPEAK AUTO COPIED(FOLLOW-ME-FORWARD) MESSAGE PROMPT
168	0	L	TALK-DETECT THRESHOLD
169	LINEAR	L/M	OUTCALL PORT SELECTION METHOD
170	NO	L/M	INTEGRATION LAMP ON/OFF LINKS MUST MATCH
176	0	L/M	FIXED LENGTH FOR DTMFINT SOURCE FIELDS
177	0	L/M	FIXED LENGTH FOR DTMFINT DEST FIELDS
178	0	L/M	FIXED LENGTH FOR DTMFINT TRUNK FIELDS
179	0	L/M	FIXED LENGTH FOR DTMFINT UNUSED FIELDS
180	7 BITS E/P	L/M	RS-232 INTEGRATED WITH PBX
181	225	L/M	NET2: MAX PROTOCOL 2 MSG LENGTH (BLOCKS)
182	0	L/M	APRG: DEF THRESHOLD (DAYS) FOR SAVED MSGS
183	0	L/M	APRG: DEF THRESHOLD (DAYS) FOR NEW MSGS
184	0	L/M	APRG: DEF THRESHOLD (DAYS) FOR NET NAMES
185	NO	L/M	MANDATORY MAILBOX SECURITY CODE
187	1	L/M	NET: MAXIMUM SIMULTANEOUS NETWORK OUTCALLS
188	NO	L/M	DISABLE SILENCE SUPPRESSION
189	0	L	MIN. DTMF DETECT ACCEPTANCE DURATION (MSEC)
190	NO	L/M	USE VOICE MAIL FIELD ON NEC PHONE
191	NONE	L/M	HOUR TO REACTIVATE MSG WTG INDICATORS
192	10	L/M	NET4: DELAY BEFORE STARTING TO SEND DTMF-C
193	7	L/M	NET4: MAXIMUM NUMBER OF BEEPS FOR CONNECTION
194	20	L/M	NET4: REMOTE DELIVERY ATTEMPT LIMIT
195	10	L/M	NET4: REMOTE DELAY BETWEEN RETRIES
196	YES	L/M	NET4: ACCEPT MSGS FROM SYSTEMS NOT CONFIG'D
198	1	L/M	PCM ENCODING FOR SYSTEM (0=MU-LAW, 1=A-LAW)
199	NONE	L/M	NET: CREATOR MBX FOR RETURNED MESSAGES
200	NO	L/M	NET: PLAY PROMPT DURING NETWORK OUTCALL
201	NO	L/M	GIVE RECORD MESSAGE LIMIT WARNING
202	2	L/M	FAX: NUM FREE FAX CHANNELS TO MAKE FAX CALLS
203	10	L/M	FAX: NUMBER OF MINUTES FOR FAX CALL RETRIES
204	NO	L/M	FAX: ENABLE CALL-PROGRESS-TONE DETECTION
205	0	L/M	COUNTRY CODE FOR LSP PARAMETERS
206	NO	L/M	HANGUP ON GLARE DETECTION
207	NO	L/M	NO TONE DETECT MEANS BAD LINE INSTEAD OF ANS
208		L/M	FAX SYSTEM ID
209	6	L/M	FAX: DEFAULT MAX NUM OF FAX DELIV ATTEMPTS
212	0	L/M	USER I.D. LENGTH
215	OFF	L/M	DEFAULT NAMESCAN TOGGLE
219	NO	L/M	GIVE CALLERS "MORE OPTIONS" PROMPT
220	NO	L/M	ENABLE DOUBLE STAR TO DROP CALL
222	NONE	L/M	DEFAULT SECURITY CODE FOR USER I.D. LOGON
223	NO	L/M	DISABLE ###5 ACCESS TO THE MODEM
224	NO	L/M	PBX USES NEC LONG EXTENSION FORMAT
225	NO	L/M	DNET: DIGITAL NETWORKING ENABLED
226	0	L	RESERVED



227	0	L	RESERVED
228	0	L	RESERVED
229	NO	L/M	USE EXTENSION FOR INTEGRATED CALLS
230	NO	L/M	USE EXTENSION FOR AUTO-ATTENDANT CALLS
231	NO	L	LAN: RESTART FLAG
232	UNLIMITED	L	RESERVED
233	NONE	L/M	LAN: NAME SERVER IP ADDRESS
234	NONE	L/M	LAN: GATEWAY IP ADDRESS
235	NONE	L/M	LAN: SNMP MANAGER IP ADDRESS
236	NONE	L/M	LAN: SNMP MANAGER HOST ASCII NAME
237	NONE	L/M	LAN: SNMP LOCATION OF VOICE MAIL CABINET
238	NONE	L/M	LAN: SNMP NAME OF SYSTEM CONTACT
239	NONE	L/M	LAN: SNMP READ COMMUNITY
240	NONE	L/M	LAN: SNMP READ WRITE COMMUNITY
241	5	L	DNET: MSG TANDEM LIMIT BETWEEN SYSTEMS
242	NO	L/M	LAN: SEND TRAP TO THE SNMP MANAGER ON ALARM
243	NONE	L/M	INTEGRATION: ROLM 9006 PICKUP CODE
244	NO	L/M	FLASH MEANS EARTH-RECALL
245	NO	L/M	BLOCK DEFAULT TO ASSIST. ON FORWARDED CALLS
246	NO	L	Delete "EXTENSION" prompt from user status
247	NO	L/M	OCTEL NETWORKING: ALLOW CASUAL MESSAGE RECEIVE
248	NONE	L/M	OCTEL NETWORKING: SYSTEM MAILBOX
249	10	L/M	OCTEL NETWORKING: WAKEUP ATTEMPT LIMIT
250	NO	L/M	OCTEL NETWORKING: RETRIEVE NAMES ONLY AT NIGHT
251	YES	L/M	OCTEL NETWORKING: ENABLE ASCII NAME VERIFICATION
252	60	L/M	OCTEL NETWORKING: MAX FAX TRANSMIT TIME
253	NO	L/M	DNET: SWITCH TO ANALOG STANDBY
254	NONE	L/M	DIGITAL TRANSFER INITIATE CODE
	NONE		DIGITAL RE-CONNECT CODE
	NONE		DIGITAL TRANSFER COMPLETE CODE
255	NO	L/M	USE ACI FOR CALL ANSWERING INTERFACE
256	0	L/M	ACI: EASY ACCESS LOGON DIGIT
257	NO	L/M	DNET: ENABLE ASCII NAME VERIFICATION
258	NO	L/M	ENABLE POUND KEY TO OVERRIDE GREETING
259	NONE	L/M	DIGIT STRING AT END OF OFFSITE/PAGER DIGITS
260	0	L	tone DETECTORS MASK
261	10	L/M	DNET: ANALOG STANDBY MESSAGE TRANSFER LIMIT
262	YES	L/M	ENABLE SPEAKING FAX ID STRING TO CALLER
264	NO	L/M	DNET: HIGH SPEED LINK MONITOR ENABLED
265	9	L/M	DNET: HIGH SPEED LINK MONITOR START HOUR
266	9	L/M	DNET: HIGH SPEED LINK MONITOR END HOUR
267	10	L/M	DNET: MAXIMUM CONTINUOUS DOWNTIME
268	60	L/M	DNET: MAXIMUM CUMULATIVE DOWNTIME
269	5	L/M	DNET: MAXIMUM LINK FAILURE COUNT
270	0	L	MINIMUM NUMBER OF FREE PORTS FOR OUTCALL/NETWORK
IN-CALL			
271	1200	L/M	RS232 INTEGRATION BAUD RATE
272	NO	L/M	IS INITIAL DIALTONE EXPECTED STUTTERED
274	NO	L/M	NET: SPEAK RECORDED LOCATION NAME
275	YES	L/M	ENABLE UNINTERRUPTIBLE SDL/PDL NAME PLAY
276	OFF	L/M	NAMESEND: DELIVERY MODE
277	10	L/M	NAMESEND: MAXIMUM NAMES TO SEND IN A SESSION
278	NO	L/M	NAMESEND: ENABLE BY DEFAULT FOR NEW USERS
279	10	L/M	NAMESEND: PURGE THRESHOLD



```

280 NO L/M NAMESEND: ENABLE AUTOMATIC NAME PROPAGATION
281 NO L/M GWL: GATEWAY LINK INSTALLED
282 NONE L/M GWL: EXTENDED MAILBOX LIST FOR MESSAGE POOL
283 NO L/M GWL: BK/FW/PS DURING SPEAK
284 NONE L/M GWL: GENERIC ERROR MAILBOX
285 NONE L/M GWL: GATEWAY DOWN ERROR MAILBOX
286 0 L/M TERMINAL INACTIVITY LOGOUT TIMER (MINUTES)
287 NO L/M ACTIVATE RANDOM SECURITY CODE GENERATION
288 ##### L/M ISDN/DPNSS: DELIMITER STRING FOR PAGER OUTCALLS
289 A6 L/M DTMF CPT DIGITS FOR INTERNAL BUSY
      A6 DTMF CPT DIGITS FOR INTERNAL FASTBUSY
      A2 DTMF CPT DIGITS FOR INTERNAL RING
      A5 DTMF CPT DIGITS FOR INTERNAL ANS
290 A6 L/M DTMF CPT DIGITS FOR EXTERNAL BUSY
      A2 DTMF CPT DIGITS FOR EXTERNAL RING
      A5 DTMF CPT DIGITS FOR EXTERNAL ANS
291 A1 L/M DTMF CPT DIGITS FOR DIAL TONE INDICATION
292 A6 L/M DTMF CPT DIGITS FOR HANG-UP NOTIFICATION
294 0 L/M MIN. PRIORITY LEVEL FOR NAMES PROPAGATION
295 NO L/M BLOCK MWI/MWN ON BROADCAST MESSAGES
296 NO L/M ACD login enabled for Call Processing Ports.
297 NO L/M TELNET: ENABLE TELNET SERVER
298 YES L Enable patching at Maintenance level
300 0 L/M TELNET: TELNET SERVER PORT NUMBER
304 NONE L/M DPNSS: MESSAGE WAITING INDICATION ON STRING
305 NONE L/M DPNSS: MESSAGE WAITING INDICATION OFF STRING
306 9000 L/M DPNSS/QSIG: VOICE MAIL ORIGINATING LINE ID
307 NONE L/M ISDN: MWI CONTROL EXTENSION
309 NONE L/M ENHANCED LAMP MWI: "ON" PRE-EXTN DIGITS
310 NONE L/M ENHANCED LAMP MWI: "ON" POST-EXTN DIGITS
311 NONE L/M ENHANCED LAMP MWI: "OFF" PRE-EXTN DIGITS
312 NONE L/M ENHANCED LAMP MWI: "OFF" POST-EXTN DIGITS
313 5555050 L/M DPNSS/QSIG: VOICE MAIL DESTINATION ADDRESS
314 NO L/M DPNSS: ALLOW NON IVM USERS TO SET DIVERT TO
VOICEMAIL
315 NO L/M DPNSS: ALLOW NON IVM USERS TO FORWARD TO VOICEMAIL
316 NONE L/M DIAL BY NAME HELP MAILBOX

317 75 L/M % of MAX NUMBER of MSGS for ALMOST FULL MBX Cond
318 NO L TELNET: Enable Telnet client access through MODEM

319 NONE L/M Aria TUI: System Broadcast Mailbox
320 YES L/M Aria TUI: Play initial entry tutorial
321 AUTO L Ethernet Controller Speed Select

```

USERS TABLE:

MAILBOX	EXTENSION	COS	SECURITY	NAME
3333001	3001	20	N	
4001	4001	20	N	
5003	5003	20	N	
7001	7777001	20	N	
8000	8000	20	N	N



8001 1 N
 8002 1 N
 Currently 7 out of 5000 USER MAILBOXES are used.

SLOTS TABLE:

SLOT	CARD TYPE	PORT	EXTENSION#	COS	MODE	OUTCALL	TEST	A/B	SYS
1	DTC17-QSIG	1		254	AX	YES	NO	B	1
		2		254	AX	YES	NO	B	2
		3		254	AX	YES	NO	B	3
		4		254	AX	YES	NO	B	4

LSP table: QSIG_SLV
 PRIMARY SYNC RECEIVER OF CLOCK

SLOT CARD TYPE

 5 LAN

NETWORK ROUTES:
 ROUTE TABLE EMPTY

NETWORK LOCATIONS:
 LOCATION TABLE is EMPTY.

NETWORK NUMBERING PLAN:

SYSTEM DISTRIBUTION LISTS:
 Currently 0 out of 500 LISTS are used.
 Currently 0 out of 20000 LIST MEMBERS are used.

EXTENDED MAILBOX LISTS:
 Currently 0 out of 500 LISTS are used.
 Currently 0 out of 20000 LIST MEMBERS are used.

COS PROFILE:

COS 1 (MAILBOX COS)
 ATTRIBUTE
 1 NO MESSAGES may be recorded for this mailbox.
 15 Transfer to a RINGING EXTENSION.
 20 May use GREETING INSERT/SWAP (Scripted or Co. greeting set up).
 24 NEVER play NOVICE prompts.



```

COS 1      (MAILBOX COS)
1  PDL/GRP LST      INDEX VALUE      NONE
3  PURGE SAVED(ARCHIVED) msgs older than (days) 0
4  PURGE NEW msgs older than (days) 0
5  SECURITY CODE change interval (days)      NONE
6  CALL FORWARD PROMPT LANGUAGES:      NONE
8  NETWORK PREFIX      NONE
9  ACI: Caller Prompting LEVEL      FULL

```

```

SCHEDULE TABLES:
SCHEDULE FOR COS 1 (MAILBOX COS)

```

```

PERIOD  DAYS      START      STOP      INFO TABLE#
DEFAULT . . . . . 1

```

```

INFORMATION TABLES:

```

```

TABLE 1 (MAILBOX INFO)
1.  INTERCEPT MAILBOX      8000
4.  MAX DIGIT FOR MENU      NONE
5.  PREFIX DIGS FOR MENU      NONE
6.  PRE EXTENSION DIGITS      NONE
7.  RINGS BEFORE NO ANS      4
8.  MSG WAITING RINGS      4
9.  TIMES TO RETRY ON BUSY      NONE
10. USE ALT TRANSFER CODES      NO
11. DIVERT MSGS TO MAILBOX      NONE
12. MSG WAITING NOTIF      YES
13. AUTO GREETING ACTIV      NO
14. OFFSITE ATTEMPT TIMES      NONE
15. OFFSITE SPEAK TIMES      3
16. OFFSITE SPEAK DELAY      5
17. OFFSITE PREFIX DIGITS      NONE
18. NEXT MAILBOX      NONE
19. OFFSITE DIAL SYSP DIGS      NO
20. OFFSITE END SYSP DIGS      NO
22. MAXIMUM MSG LENGTH      6
23. MAX NUMBER OF MSGS      32
24. PERSONAL ASSISTANCE      NO
25. QUICK GREETING ACTIV      NO
26. AUTOTRANSFER TO ASSIST      NO
27. MSG WITH AUTO TRANSFER      NO
28. ANNOUNCE CALLS TO INT      NO
29. LANGUAGE      NONE
30. GROUP FAX NUMBER      NONE
31. OFFSITE ONLY IF URGENT      NO
32. MAX FAX DELIV ATTEMPTS      SYSP 209
35. OVERRIDE TRUNK GRP. #      NONE
36. DEFAULT GREETING MBOX      NONE

```



COS 2 (MAILBOX COS) INTERCEPT MAILBOX
 ATTRIBUTE
 1 NO MESSAGES may be recorded for this mailbox.
 15 Transfer to a RINGING EXTENSION.
 20 May use GREETING INSERT/SWAP (Scripted or Co. greeting set up).
 24 NEVER play NOVICE prompts.

COS 2 (MAILBOX COS) INTERCEPT MAILBOX
 1 PDL/GRP LST INDEX VALUE NONE
 3 PURGE SAVED(ARCHIVED) msgs older than (days) 0
 4 PURGE NEW msgs older than (days) 0
 5 SECURITY CODE change interval (days) NONE
 6 CALL FORWARD PROMPT LANGUAGES: NONE
 8 NETWORK PREFIX NONE
 9 ACI: Caller Prompting LEVEL FULL

SCHEDULE FOR COS 2 (MAILBOX COS) INTERCEPT MAILBOX

PERIOD DAYS START STOP INFO TABLE#
 DEFAULT 2

INFORMATION TABLES:

TABLE 2 (MAILBOX INFO)
 1. INTERCEPT MAILBOX 8000
 4. MAX DIGIT FOR MENU NONE
 5. PREFIX DIGS FOR MENU NONE
 6. PRE EXTENSION DIGITS NONE
 7. RINGS BEFORE NO ANS 4
 8. MSG WAITING RINGS 4
 9. TIMES TO RETRY ON BUSY NONE
 10. USE ALT TRANSFER CODES NO
 11. DIVERT MSGS TO MAILBOX NONE
 12. MSG WAITING NOTIF YES
 13. AUTO GREETING ACTIV NO
 14. OFFSITE ATTEMPT TIMES NONE
 15. OFFSITE SPEAK TIMES 3
 16. OFFSITE SPEAK DELAY 5
 17. OFFSITE PREFIX DIGITS NONE
 18. NEXT MAILBOX NONE
 19. OFFSITE DIAL SYSP DIGS NO
 20. OFFSITE END SYSP DIGS NO
 22. MAXIMUM MSG LENGTH 6
 23. MAX NUMBER OF MSGS 32
 24. PERSONAL ASSISTANCE NO
 25. QUICK GREETING ACTIV NO
 26. AUTOTRANSFER TO ASSIST NO
 27. MSG WITH AUTO TRANSFER NO
 28. ANNOUNCE CALLS TO INT NO
 29. LANGUAGE NONE



30. GROUP FAX NUMBER NONE
 31. OFFSITE ONLY IF URGENT NO
 32. MAX FAX DELIV ATTEMPTS SYSP 209
 35. OVERRIDE TRUNK GRP. # NONE
 36. DEFAULT GREETING MBOX NONE

COS 20 (MAILBOX COS) STANDARD
 ATTRIBUTE

6	Call EXTENSION first BEFORE playing GREETING.
7	This user may send a PRIVATE message.
9	LAMP or DISPLAY PHONE message waiting.
12	This user may REPLY to ADDITIONAL addresses.
15	Transfer to a RINGING EXTENSION.
19	May request a RETURN RECEIPT message.
43	May RE-RECORD message after a busy or unanswered call.
61	This mailbox may send FUTURE DELIVERY messages.
64	This user may ERASE a message during ADDRESSING OPTIONS.
69	SPEAK DIGITS entered to CONFIRM message address.
74	FORCE recording of MAILBOX GREETING.
76	Use NEW and SAVED/ARCHIVED MESSAGE queues.
77	ALLOW user to record PERSONAL NAME.
78	FORCE recording of PERSONAL NAME.
79	ALLOW address entry before record.
114	Enable extended absence greeting.
126	DO NOT speak "Greeting is on" prompt after LOGIN.
132	FORCED LOGON to Busy Mailbox.

COS 20 (MAILBOX COS) STANDARD

1	PDL/GRP LST INDEX VALUE	NONE
3	PURGE SAVED(ARCHIVED) msgs older than (days)	0
4	PURGE NEW msgs older than (days)	0
5	SECURITY CODE change interval (days)	NONE
6	CALL FORWARD PROMPT LANGUAGES:	NONE
8	NETWORK PREFIX	NONE
9	ACI: Caller Prompting LEVEL	FULL

SCHEDULE FOR COS 20 (MAILBOX COS) STANDARD

PERIOD	DAYS	START	STOP	INFO TABLE#
DEFAULT			20

INFORMATION TABLES:

TABLE 20 (MAILBOX INFO)

1.	INTERCEPT MAILBOX	8000
4.	MAX DIGIT FOR MENU	NONE
5.	PREFIX DIGS FOR MENU	NONE
6.	PRE EXTENSION DIGITS	NONE
7.	RINGS BEFORE NO ANS	4



```

8.  MSG WAITING RINGS      4
9.  TIMES TO RETRY ON BUSY NONE
10. USE ALT TRANSFER CODES NO
11. DIVERT MSGS TO MAILBOX NONE
12. MSG WAITING NOTIF     YES
13. AUTO GREETING ACTIV  NO
14. OFFSITE ATTEMPT TIMES NONE
15. OFFSITE SPEAK TIMES   3
16. OFFSITE SPEAK DELAY   5
17. OFFSITE PREFIX DIGITS NONE
18. NEXT MAILBOX          NONE
19. OFFSITE DIAL SYSP DIGS NO
20. OFFSITE END SYSP DIGS NO
22. MAXIMUM MSG LENGTH    6
23. MAX NUMBER OF MSGS    32
24. PERSONAL ASSISTANCE   NO
25. QUICK GREETING ACTIV NO
26. AUTOTRANSFER TO ASSIST NO
27. MSG WITH AUTO TRANSFER NO
28. ANNOUNCE CALLS TO INT NO
29. LANGUAGE              NONE
30. GROUP FAX NUMBER      NONE
31. OFFSITE ONLY IF URGENT NO
32. MAX FAX DELIV ATTEMPTS SYSP 209
35. OVERRIDE TRUNK GRP. # NONE
36. DEFAULT GREETING MBOX NONE

```

```

-----
COS 25      (MAILBOX COS)      TDD/TTY
ATTRIBUTE
6   Call EXTENSION first BEFORE playing GREETING.
7   This user may send a PRIVATE message.
9   LAMP or DISPLAY PHONE message waiting.
12  This user may REPLY to ADDITIONAL addresses.
15  Transfer to a RINGING EXTENSION.
19  May request a RETURN RECEIPT message.
43  May RE-RECORD message after a busy or unanswered call.
61  This mailbox may send FUTURE DELIVERY messages.
64  This user may ERASE a message during ADDRESSING OPTIONS.
69  SPEAK DIGITS entered to CONFIRM message address.
73  This MAILBOX has LANGUAGE OVERRIDE.
74  FORCE recording of MAILBOX GREETING.
76  Use NEW and SAVED/ARCHIVED MESSAGE queues.
77  ALLOW user to record PERSONAL NAME.
78  FORCE recording of PERSONAL NAME.
79  ALLOW address entry before record.
114 Enable extended absence greeting.
126 DO NOT speak "Greeting is on" prompt after LOGIN.
132 FORCED LOGON to Busy Mailbox.
134 Allow TDD/TTY Support.

```

```

COS 25      (MAILBOX COS)      TDD/TTY

```



```

1 PDL/GRP LST      INDEX VALUE          NONE
3 PURGE SAVED(ARCHIVED) msgs older than (days) 0
4 PURGE NEW msgs older than (days)          0
5 SECURITY CODE change interval (days)      NONE
6 CALL FORWARD PROMPT LANGUAGES:
      1=ENGL US--V          VERSION 4F'
8 NETWORK PREFIX          NONE
9 ACI: Caller Prompting LEVEL          FULL

```

SCHEDULE FOR COS 25 (MAILBOX COS) TDD/TTY

```

PERIOD  DAYS      START      STOP      INFO TABLE#
DEFAULT . . . . . 25

```

INFORMATION TABLES:

TABLE 25 (MAILBOX INFO)

```

1. INTERCEPT MAILBOX      8000
4. MAX DIGIT FOR MENU       NONE
5. PREFIX DIGS FOR MENU     NONE
6. PRE EXTENSION DIGITS     NONE
7. RINGS BEFORE NO ANS     4
8. MSG WAITING RINGS        4
9. TIMES TO RETRY ON BUSY   NONE
10. USE ALT TRANSFER CODES  NO
11. DIVERT MSGS TO MAILBOX  NONE
12. MSG WAITING NOTIF       YES
13. AUTO GREETING ACTIV     NO
14. OFFSITE ATTEMPT TIMES   NONE
15. OFFSITE SPEAK TIMES     3
16. OFFSITE SPEAK DELAY     5
17. OFFSITE PREFIX DIGITS   NONE
18. NEXT MAILBOX            NONE
19. OFFSITE DIAL SYSP DIGS  NO
20. OFFSITE END SYSP DIGS   NO
22. MAXIMUM MSG LENGTH      6
23. MAX NUMBER OF MSGS      32
24. PERSONAL ASSISTANCE      NO
25. QUICK GREETING ACTIV    NO
26. AUTOTRANSFER TO ASSIST   NO
27. MSG WITH AUTO TRANSFER  NO
28. ANNOUNCE CALLS TO INT   NO
29. LANGUAGE                 ENGL USTTV
30. GROUP FAX NUMBER         NONE
31. OFFSITE ONLY IF URGENT  NO
32. MAX FAX DELIV ATTEMPTS  SYSP 209
35. OVERRIDE TRUNK GRP. #   NONE
36. DEFAULT GREETING MBOX   NONE

```



```

COS 30      (MAILBOX COS)      ENG PRIMARY/TTY SEC
ATTRIBUTE
 6 Call EXTENSION first BEFORE playing GREETING.
 7 This user may send a PRIVATE message.
 9 LAMP or DISPLAY PHONE message waiting.
11 NO system PROMPT after GREETING, go straight to recording.
12 This user may REPLY to ADDITIONAL addresses.
15 Transfer to a RINGING EXTENSION.
19 May request a RETURN RECEIPT message.
43 May RE-RECORD message after a busy or unanswered call.
61 This mailbox may send FUTURE DELIVERY messages.
64 This user may ERASE a message during ADDRESSING OPTIONS.
69 SPEAK DIGITS entered to CONFIRM message address.
73 This MAILBOX has LANGUAGE OVERRIDE.
74 FORCE recording of MAILBOX GREETING.
76 Use NEW and SAVED/ARCHIVED MESSAGE queues.
77 ALLOW user to record PERSONAL NAME.
78 FORCE recording of PERSONAL NAME.
79 ALLOW address entry before record.
114 Enable extended absence greeting.
126 DO NOT speak "Greeting is on" prompt after LOGIN.
132 FORCED LOGON to Busy Mailbox.
134 Allow TDD/TTY Support.

```

```

COS 30      (MAILBOX COS)      ENG PRIMARY/TTY SEC
1 PDL/GRP LST      INDEX VALUE      NONE
3 PURGE SAVED(ARCHIVED) msgs older than (days) 0
4 PURGE NEW msgs older than (days) 0
5 SECURITY CODE change interval (days) NONE
6 CALL FORWARD PROMPT LANGUAGES:
    1=ENGL US--V      VERSION 4F'
    2=ENGL USTTV      VERSION 4C'
8 NETWORK PREFIX      NONE
9 ACI: Caller Prompting LEVEL      FULL

```

```

SCHEDULE FOR COS 30 (MAILBOX COS) ENG PRIMARY/TTY SEC
PERIOD  DAYS      START      STOP      INFO TABLE#
DEFAULT . . . . . 30

```

INFORMATION TABLES:

```

TABLE 30 (MAILBOX INFO)
1. INTERCEPT MAILBOX      8000
4. MAX DIGIT FOR MENU      NONE
5. PREFIX DIGS FOR MENU      NONE
6. PRE EXTENSION DIGITS      NONE
7. RINGS BEFORE NO ANS      4
8. MSG WAITING RINGS      4
9. TIMES TO RETRY ON BUSY      NONE
10. USE ALT TRANSFER CODES      NO
11. DIVERT MSGS TO MAILBOX      NONE

```



```

12. MSG WAITING NOTIF      YES
13. AUTO GREETING ACTIV   NO
14. OFFSITE ATTEMPT TIMES NONE
15. OFFSITE SPEAK TIMES   3
16. OFFSITE SPEAK DELAY   5
17. OFFSITE PREFIX DIGITS NONE
18. NEXT MAILBOX          NONE
19. OFFSITE DIAL SYSP DIGS NO
20. OFFSITE END SYSP DIGS NO
22. MAXIMUM MSG LENGTH    6
23. MAX NUMBER OF MSGS    32
24. PERSONAL ASSISTANCE    NO
25. QUICK GREETING ACTIV  NO
26. AUTOTRANSFER TO ASSIST NO
27. MSG WITH AUTO TRANSFER NO
28. ANNOUNCE CALLS TO INT NO
29. LANGUAGE              ENGL US--V
30. GROUP FAX NUMBER      NONE
31. OFFSITE ONLY IF URGENT NO
32. MAX FAX DELIV ATTEMPTS SYSP 209
35. OVERRIDE TRUNK GRP. # NONE
36. DEFAULT GREETING MBOX NONE

```

```

-----
COS 254      (PORT/TRUNK COS)
 1 PDL/GRP LST      INDEX VALUE      NONE
 3 PURGE SAVED(ARCHIVED) msgs older than (days) 0
 4 PURGE NEW msgs older than (days) 0
 5 SECURITY CODE change interval (days) NONE
 6 CALL FORWARD PROMPT LANGUAGES: NONE
 8 NETWORK PREFIX   NONE
 9 ACI: Caller Prompting LEVEL FULL

```

SCHEDULE FOR COS 254 (PORT/TRUNK COS)

```

PERIOD  DAYS      START      STOP      INFO TABLE#
DEFAULT . . . . . 254

```

INFORMATION TABLES:

```

TABLE 254      (PORT/TRUNK INFO)
 1. INTERCEPT MAILBOX      8000
 2. COMPANY GREETING MBX     8001
 4. MAX DIGIT FOR MENU       NONE
 5. PREFIX DIGS FOR MENU     NONE
 6. PRE EXTENSION DIGITS     NONE
*7. RINGS BEFORE NO ANS     4
*9. TIMES TO RETRY ON BUSY  NONE
*10. USE ALT TRANSFER CODES  NO
18. NEXT MAILBOX            NONE

```



- 26. AUTOTRANSFER TO ASSIST NO
- 27. MSG WITH AUTO TRANSFER NO
- 29. LANGUAGE NONE
- 34. LOGIN FAILURE XFER MBX NONE

* Used ONLY when MAILBOX is UNDEFINED

HOLIDAYS:

FIRST DIGIT TABLE:

FIRST DIGIT	MAILBOX LENGTH
-----	-----
0	
1	
2	
3	7
4	4
5	4
6	
7	4
8	4
9	

TRANSLATION TABLE:

BUS-INFORMATION TABLES:

CUSTOM PROMPT TABLE:

ENGL US--V

FIRST DIGIT ENTERED	NON-EXISTENT EXTENSION MAILBOX
-----	-----
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
Message waiting mailbox:	
Tutorial mailbox:	
AP Notification mailbox:	
Logon Access mailbox:	

ENGL USTV

FIRST	NON-EXISTENT
-------	--------------



DIGIT EXTENSION
ENTERED MAILBOX

0
1
2
3
4
5
6
7
8
9

Message waiting mailbox:
Tutorial mailbox:
AP Notification mailbox:
Logon Access mailbox:

PREFIX TABLE:

PREFIX TYPE	DIGIT(S) ABSORBED	DIGIT(S) INSERTED
----------------	----------------------	----------------------

TRUNK GROUP TABLE:

MAILBOX NAMES:

MAILBOX	NAME
8000	N

Currently 1 out of 30100 NAMES are used.

DAYLIGHT-SAVING-TIME CHANGE DATES:

DTMF TABLE:

LSP TABLE:

DEFAULT INDEX	DESCRIPTION	VALUE
1	LCI min. length (10 msec units)	21
2	LPR min. length (10 msec units)	21
3	Loop Current det. initial timeout (10 msec units)	0
4	DTMF send ON time (10 msec units)	10
5	DTMF send OFF time (10 msec units)	11
6	Ring det. min. period (1 msec units)	17
7	Ring det. max. period (1 msec units)	68
8	DTMF det. min. ON time (10 msec units)	5
9	DTMF det. min. OFF time (10 msec units)	5
10	DTMF det. min. power lever (dBm)	-35
11	DTMF det. pos. twist (dB)	6



19	Precision Filter	Frequency (LIC4I - Hz units)									0
20	Reserved	0	0	80	60	184	1	216	0	200	0
30	Reserved	0	0	200	0	0	0	0	2	0	0
40	Reserved	76	4	216	0	42	0	24	1	54	0
50	Reserved	144	1	2	4	0	0	0	0	0	0
60	Reserved	0	0	0	0	0	0	0	0	0	0
70	Reserved	0	0	0	0	0	0	0	0	0	0
80	Reserved	0	0	0	0	0	0	0	0	0	0
90	Reserved	0	0	0	0	0	0	0	0	0	0
100	Reserved	0	0	0	0	0	0	0	0	0	0
110	Reserved	0	0	0	0	0	0	0	0	0	0
120	Reserved	0	0	0	0	0	0	0	0	0	0
130	Reserved	0	0	0	0	0	0	0	0	0	0
140	Reserved	0	0	0	0	0	0	0	0	0	0
150	Reserved	0	0	0	0	0	0	0	0	0	0
160	Reserved	0	0	0	0	0	0	0	0	4	4
170	Reserved	8	0	0	0	0	0	0	0	0	0
180	Reserved	0	0	0	0	0	0	0	0	85	0
190	Reserved	0	0	0	0	0	0	0	0	0	0
200	Reserved	0	3	4	1	3	7	1	1	0	2
210	Reserved	0	10	0	180	15	4	30	30	4	90
220	Reserved	50	4	4	120	20	4	4	4	15	0
230	Reserved	0	0	0	0	0	0	0	0	0	0
240	Reserved	0	0	0	0	0	0	0	0	0	0
250	Reserved	0	0	0	0	0	0	0	0	0	0

NETWORK SCHEDULE TABLE:

NETWORK SCHEDULE TABLE:

NET SCHEDULE NAME	WINDOW#	START TIME	STOP TIME	INTERVAL (MINUTES)	PRIORITY LEVEL
-------------------	---------	------------	-----------	--------------------	----------------

LAN HOST TABLE

ALARM TABLE

HARDWARE ERROR	FAILURE LIMIT	ALARM SCHEDULE	PRIORITY LEVEL
1	50	NONE	1
2	25	NONE	2
3	25	NONE	2
4	25	NONE	2
5	25	NONE	2
6	50	NONE	1
7	DISABLED	NONE	0
8	1	NONE	3
9	DISABLED	NONE	0
10	1	NONE	3
11	1	NONE	3
12	1	NONE	3
13	DISABLED	NONE	0
14	1	NONE	3
15	1	NONE	3
16	1	NONE	3



17	DISABLED	NONE	0
18	1	NONE	3
19	DISABLED	NONE	0
20	25	NONE	2
21	25	NONE	2
22	25	NONE	2
23	25	NONE	2
24	25	NONE	2
25	1	NONE	3
26	DISABLED	NONE	0
27	1	NONE	3
28	1	NONE	3
29	1	NONE	3
30	1	NONE	3
31	1	NONE	3
32	25	NONE	2
33	1	NONE	3
34	25	NONE	2
35	DISABLED	NONE	0
36	1	NONE	3
37	25	NONE	2
38	1	NONE	3
39	1	NONE	3
40	1	NONE	3
41	1	NONE	3
42	50	NONE	1
43	1	NONE	3
44	1	NONE	3
45	1	NONE	3
46	50	NONE	1
47	DISABLED	NONE	0
48	DISABLED	NONE	0
49	DISABLED	NONE	0
50	DISABLED	NONE	0
51	DISABLED	NONE	0
52	DISABLED	NONE	0
53	DISABLED	NONE	0
54	DISABLED	NONE	0
55	DISABLED	NONE	0
56	DISABLED	NONE	0
57	DISABLED	NONE	0
58	DISABLED	NONE	0
59	DISABLED	NONE	0
60	DISABLED	NONE	0
61	1	NONE	3
62	1	NONE	3
63	25	NONE	2
64	1	NONE	3
65	25	NONE	2
66	1	NONE	3
67	1	NONE	3
68	25	NONE	2
69	1	NONE	3
70	1	NONE	3



71	1	NONE	3
72	50	NONE	1
73	1	NONE	3
74	1	NONE	3
75	25	NONE	2
76	DISABLED	NONE	0
78	50	NONE	1
79	1	NONE	3
80	1	NONE	3
81	3	NONE	3
88	DISABLED	NONE	3
89	DISABLED	NONE	3

ALARM SCHEDULE TABLE

Configuring Cisco Unified CallManager

MGCP (Cisco 3640) Gateway Configuration

MGCP Configuration [Back to Find/List Gateways](#)

Product: Cisco 364X
MGCP : MGCP_3640

Status: Ready

MGCP Domain Name*

Description

Cisco CallManager Group*

Installed Voice Interface Cards		Endpoint Identifiers	
Module in Slot 0	< None >		
Module in Slot 1	< None >		
Module in Slot 2	NM-2V		
Sub-Unit 0	VIC-2FXS	(2/0/0) ports	(2/0/1)
Sub-Unit 1	VIC-2FXO	(2/1/0)	(2/1/1)



Cisco CallManager 3.2 Administration - MGCP Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address http://kingen/CCMAdmin/mgcpconfig.asp?MGCP={664EEA32-8D58-4A50-99E7-98D60D28ADA6} Go Links

Module in Slot 1	< None >		
Module in Slot 2	NM-2V		
Sub-Unit 0	VIC-2FXS	(2/0/0)	(2/0/1)
Sub-Unit 1	VIC-2FXO	(2/1/0)	(2/1/1)
Module in Slot 3	NM-HDV		
Sub-Unit 0	VVIC-2MFT-T1	(3/0)	(3/1)

Product Specific Configuration ⓘ

Global ISDN Switch Type	NI2
Switchback Timing*	Graceful
Switchback uptime-delay (min)	10
Switchback schedule (hh:mm)	12:00

* indicates required item

[Back to Find/List Gateways](#)

Local intranet



ISDN PRI Configuration

Cisco CallManager 3.2 Administration - Gateway Configuration - Microsoft Internet Explorer

Address: A5B36-464A-4F1C-810B-830978FB72E}&Action=Update&Type=S2&MGCP=(664EEA32-8D58-4A50-9987-98D60D28ADA6)

Gateway Configuration

[Back to MGCP Configuration](#)
[Back to Find/List Gateways](#)

Product : Cisco 364X
Gateway : S3/DS1-0@MGCP_3640
Device Protocol: Digital Access PRI
Registration: Registered with Cisco CallManager 10.1.1.2
IP Address: 10.1.1.200

Status: Ready

Update Delete Reset Gateway Cancel Changes

End-Point Name* S3/DS1-0@MGCP_3640
Description S3/DS1-0@MGCP_3640
Device Pool* Default
Media Resource Group List < None >
Network Hold Audio Source < None >
User Hold Audio Source < None >
Calling Search Space < None >
Location < None >

Cisco CallManager 3.2 Administration - Gateway Configuration - Microsoft Internet Explorer

Address: A5B36-464A-4F1C-810B-830978FB72E}&Action=Update&Type=S2&MGCP=(664EEA32-8D58-4A50-9987-98D60D28ADA6)

Load Information

Channel Selection Order* Top Down
Protocol Side* User
Caller ID DN
Calling Party Selection* Originator
Channel IE Type* Use Number when 1B
MCDN Channel Number Extension Bit Set to Zero**
Interface Identifier Present**
Interface Identifier Value** 0
Display IE Delivery
Redirecting Number IE Delivery - Outbound
Redirecting Number IE Delivery - Inbound
Delay for first restart (1/8 sec ticks) 32
Delay between restarts (1/8 sec ticks) 4
Num Digits* 23



Configuring the Cisco 3640 Router

```
version 12.3
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname 172.20.250.2
!
boot-start-marker
boot-end-marker
!
enable password ocsic
!
no network-clock-participate slot 1
no network-clock-participate wic 0
voice-card 1
!
no aaa new-model
ip subnet-zero
!
!
ip cef
!
isdn switch-type primary-qsig
!
!
voice service voip
!
!
ccm-manager mgcp
!
!
controller T1 1/0
 framing esf
 linecode b8zs
 pri-group timeslots 1-24
!
controller T1 1/1
 framing esf
 linecode b8zs
 pri-group timeslots 1-24 service mgcp
!
interface FastEthernet0/0
 ip address 172.20.250.2 255.255.255.0
 duplex auto
 speed auto
!
interface FastEthernet0/1
 ip address 172.20.20.156 255.255.255.0
 duplex auto
 speed auto
```



```
!  
interface Serial1/0:23  
  no ip address  
  no logging event link-status  
  isdn switch-type primary-ni  
  isdn protocol-emulate network  
  isdn incoming-voice voice  
  no cdp enable  
!  
interface Serial1/1:23  
  no ip address  
  no logging event link-status  
  isdn switch-type primary-qsig  
  isdn incoming-voice voice  
  isdn bind-13 ccm-manager  
  no cdp enable  
!  
ip default-gateway 172.20.250.1  
ip http server  
ip classless  
!  
!  
control-plane  
!  
voice-port 1/0:23  
!  
voice-port 1/1:23  
!  
mgcp  
mgcp call-agent 172.20.250.254 service-type mgcp version 0.1  
!  
mgcp profile default  
!  
dial-peer cor custom  
!  
dial-peer voice 2 pots  
  destination-pattern 4...  
  direct-inward-dial  
  port 1/0:23  
  prefix 4  
!  
dial-peer voice 3 voip  
  preference 1  
  destination-pattern 1...  
  session target ipv4:172.20.250.254  
  dtmf-relay h245-alphanumeric  
!  
dial-peer voice 8 pots  
  application mgcp  
  port 1/1:23  
!  
!  
gatekeeper  
  shutdown
```



```
!  
!  
line con 0  
line aux 0  
line vty 0 4  
  password cisco  
  login  
!  
end
```

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