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DMS-10 Family

Generic 602.20

DMS-10 North America Software Generic Release Summary

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NORTEL

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Generic 602.20

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Note 1: Issues rated “Draft” or “Preliminary” are identified alphabetically, in sequence; issues rated “Standard” are identified numerically, in sequence. The issue and date appear on each page of this document.

Note 2: Significant changes and additions are marked with vertical bars in the outer page margins beside the changed or added information.

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1. Introduction

Generic 602.20 is built upon Generic 602.10.

The following new features are in Generic 602.20:

- Centrex IP
- Directory Number Hunt groups with VoIP lines
- Multiple Appearance Directory Numbers (MADN) with VoIP lines
- Call Logging Portal

The following enhancements are in Generic 602.20:

- Centrex and Centrex IP features
- CLASS on Centrex for IBS Lines

2. New features and enhancements

2.1 New Features

2.1.1 Centrex IP

The Centrex IP feature provides Enhanced Business Services (EBS) to Voice over Internet Protocol (VoIP) subscribers. This capability is built on the initial Session Initiation Protocol (SIP) development implemented in the 601.10 generic. This feature will enable the DMS-10 to support a mixture of IP-based endpoint devices, 2500 terminals, and Meridian Business Sets (MBS) within an EBS group. EBS group and station features are available to VoIP subscribers.

The Centrex IP feature also provides Integrated Business Services (IBS) to VoIP subscribers. This feature will enable the DMS-10 to support a mixture of IP-based endpoint devices and 2500 terminals within an IBS group. IBS group and station features are available to VoIP subscribers.

2.1.2 Directory Number Hunt groups with VoIP lines

The Directory Number Hunt groups with VoIP lines feature allows VoIP and Time Division Multiplex (TDM) lines to be mixed in a directory number hunt group.

2.1.3 Multiple Appearance Directory Numbers (MADN) with VoIP lines

The Multiple Appearance Directory Numbers (MADN) with VoIP lines feature allows the service provider to assign the same Directory Number to a VoIP line and TDM line.

Multiple Appearance Directory Number (MADN) Single Call Arrangement (SCA) allows a single DN to appear on multiple phones or MBS keys. MADN SCA only allows a single member of the MADN group to be active at a time. If any one of the members is off hook, the other members will not be able to originate a call. If any of the MADN group members are off hook, anyone attempting to terminate on that DN will be sent to Busy Treatment. If the group is idle (no one is off hook or active on a call) and someone terminates on the MADN DN, all members of the group will ring. At this point any ONE of the MADN members can answer the call.

The Multiple Appearance Directory Numbers (MADN) with VoIP lines feature allows a MADN DN to be used as a residential DN or as a member of a Centrex group (i.e., EBS or IBS station option). MADNs were previously only available to EBS group members.

The number of MADN groups was increased to 16,384.

2.1.4 Call Logging Portal

The Call Logging Portal feature is a new study feature that will enable the DMS-10 to gather and distribute detailed call information about calls made to or from Call Logging subscribers.

The DMS-10 will use the capabilities of the Integrated Billing Storage and Retrieval (IBSR) feature. The Call Logging data is formatted into XML records and sent to a Subscriber Portal Server. The Subscriber Portal Server is a telco-supplied component.

In a cluster configuration, Satellite Switching Offices (SSOs) send their Call Logging data to the Host Switching Office (HSO), which then formats the data into XML records and sends it to the Subscriber Portal Server.

Reports generated with the data provided to the Subscriber Portal Server are entirely dependent upon the Subscriber Portal Server and are not detailed in this document.

2.2 New Enhancements

2.2.1 Centrex and Centrex IP features

Centrex features are implemented differently than in previous generics. Two new feature mnemonics are introduced in generic 602.20 to implement Centrex for TDM lines and VoIP lines: CENT - Centrex, TDM lines only and CIP - Centrex IP, VoIP lines only.

Existing EBS and IBS features AAB, BTFL, CAMP, CEBS, CWTE, DCP, EBS, IBS, MBS, MDR, MOH, MSB, PARK, and VFGC are replaced by the new Centrex (CENT) and Centrex IP (CIP) features.

2.2.2 CLASS on Centrex for IBS Lines

The CLASS on Centrex feature currently only allows Custom Local Area Signaling Services (CLASS) to be offered to EBS group members. The CLASS on Centrex for IBS Lines feature will allow these same services to be assigned to IBS subscribers. Of particular interest to service providers would be the ability to assign the calling line ID display features CND and CNAM to an IBS subscriber's line.

3. I/O changes and/or additions

3.1 Resident commands

The NTPs for generic 602.20 will display change bars wherever changes have been made from generic 602.10. Below is a list of changed areas.

3.1.1 New Resident Commands

None.

3.2 DMO changes

A detailed account of DMO changes are not shown here. The NTPs for generic 602.20 will display change bars wherever changes have been made from generic 602.10. An overview of the changed areas is given to point to the changed areas. Below is a list of change areas.

3.2.1 New DMO Overlays

None.

3.2.2 Changed DMO Overlays

See NTP 297-3601-311 for details of the changes made to the DMO overlays. The actual changes made for Generic 602.20 have been identified with change bars throughout the NTP.

Table 3-A DMO OVLs

Overlay	Prompting sequence(s)
AMA	AMA
CNFG	CCS, CLGS, FEAT, SYS
DN	DNCT, GICM, MADN, RCFA, STN
ODQ	CNTS, DN
PRI	PRI
QTRN	EBSP, PRFX
TRNS	EBSP, PRFX

3.3 Maintenance Changes

See NTP 297-3601-506 for details of the changes made to the diagnostic overlays. The actual changes made for Generic 602.20 have been identified with change bars throughout the NTP. Table 3-B shows which diagnostic overlays were changed in Generic 602.20.

3.3.1 New Maintenance Overlays

None.

3.3.2 Changed Maintenance Overlays

Table 3-B MTCE OVLs

Overlay
PED
CKT

3.4 Output messages

See the Output Message Manual (NTP 297-3601-903).

4. Provisioning

4.1 Baseline hardware

The table below provides the baseline hardware requirements for Generic 602.20. For a baseline list of all packs which can be configured in a DMS-10, see the 'DMS-10 Generic Product Baseline Report.

4.1.1 New baseline changes

There are no hardware baseline changes made by Generic 602.20.

Table 4-A Baseline Hardware Updates

PEC's:	Generic 602.20:	Notes:
		None

4.2 Call capacity

The call capacity listed here is based on testing with 601.10 load. There have been no modifications to the 602.20 software that are expected to change these results.

GENERIC	ABSBH 70% Occupancy	HDBH 91% Occupancy	5,000 Line Office HDBH calls/hr	12,000 Line Office HDBH calls/hr
Classic Network	207,968	283,267	9,353	22,446
Expanded Network	225,158	306,682	10,126	24,301

ABSBH - Average Busy Season Busy Hour

4.3 Feature activation requirements

Table 4-B Feature activation requirements

Feature Name	Feature Mnemonic	Action Re-quired	Dependencies	
			H/W	S/W
Custom Calling Services	CCS	none		
Short Speed Calling	SSC	none		
Long Speed Calling	LSC	none		
Call Forwarding	CFW	none		
Three-Way Calling	3WC	none		
Call Waiting	CWT	none		
Remote Call Forwarding	RCFW	none	H2 H3	AMAF
Call Waiting Enhancements ^a	CWTE	none		CCS IBS EBS
Two Party Custom Calling	2PCC	none		
Remote Equipment Module Auto restoral	REMA	none	H7	
Integrated Business Services ^a	IBS	none		
Enhanced Business Services ^a	EBS	none		
Cancel Call Waiting	CCWT	none		
Ring Again	RAG	none		
Toll Call Forwarding	TCFW	none		CCS&AMAF
Digit Tone on trunks	DGT	none	H5	
Local Coin Overtime	LCO	none		
AMA Feature Study	STDY	none	H2 H3	AMAF&ATT
Local Call Detail Recording	LCDR	none		AMAF&DMS
Digital Carrier Module Auto restoral	DCMA	none	H4	
Remote Office Test Line	ROTL	none	H9	
Automatic Message Accounting	AMAF	sysload	H2 H3	
Centralize AMA Feature	CAMF	none	H2 H3	AMAF
Switching Control Center System	SCCS	sysload		
Engineering Data Acquisition System	EDAS	none		
Traffic Separation Measurement System	TSMS	sysload		
Feature Group A	FGA	none		EQA
Equal Access	EQA	sysload	H2 H3	AMAF&ATT
Single Party Line Revertive ringing	SPLR	none		
AMA Backup	ABUP	none		AMAF&ATT
AMA Tracer Records	ATR	none	H3	ABUP
Line Insulation Testing	LIT	initialization	H8	
UP Load	UPLD	none	H1	
Nail connections	NAIL	none		
Teen Service	TEEN	none		
Usage Custom Calling Features	UCCF	none	H2 H3	AMAF&ATT&CCS

Table 4-B Feature activation requirements

Feature Name	Feature Mnemonic	Action Re-quired	Dependencies	
			H/W	S/W
Virtual Facilities Group Control ^a	VFGC	none		EBS
Message Detail Recording	MDR	none	H2 H3	AMAF&ATT
Common Channel Signaling #7	CCS7	none	H10	
Enhanced 800 service	E800	sysload	H10	AMAF&ATT&EQA&CCS7
Call Forward Remote Access	CFRA	none		CFW
Multiple Selective Carrier Denial	MSCD	none		AMAF&ATT&EQA
Distinctive Revertive Ringing	DRR	none		
Call Forward dmo activation/deactivation	CFWA	none		
Intra Switching (remote)	INTR	initialization	H7	
Simplified Message Desk Interface	SMDI	none	H13	CFDB
Exchange Access Operator Services	EAOS	none	H2 H3	AMAF&ATT&EQA
Call Forward Busy Don't answer	CFBD	none		CCS IBS EBS
Busy Transfer Intergroup ^a	BTFI	none		IBS EBS
Directed Call Pickup ^a	DCP	none		IBS EBS
Usage Cfw Busy Don't answer	UCBD	none		UCCF
Signaling Relay Point	SRP	none	H10	CCS7
Integrated Services User Part	ISUP	none	H10	AMAF&ATT&CCS7
External Synchronous Interface	ESI	none	H15	
Coin Box Accounting	CBA	none	H2 H3	AMAF&ATT&EQA
Multiple PIC	MPIC	none		AMAF&ATT&EQA
Defensive Programing	DP	none		
Message Waiting Indication Lamp	MWIL	none	H13	SMDI
World Line Card	WLC	none	H14	
900 ohm 2 microfarads	9002	none	H14	
Customer Originated Trace	COT	none	H11	AMAF&ATT
Usage COT	UCOT	none	H11	AMAF&ATT
Office COT	OCOT	sysload	H11	AMAF&ATT
Calling Number Delivery	CND	none		AMAF&ATT
Usage CND	UCND	none	H11	AMAF&ATT
Calling Number Blocking	CNB	none		AMAF&ATT
Usage CNB	UCNB	none		AMAF&ATT
Office CNB	OCNB	none		AMAF&ATT
Automatic Call Back	ACB	none	H11	AMAF&ATT
Usage ACB	UACB	none	H11	AMAF&ATT

Table 4-B Feature activation requirements

Feature Name	Feature Mnemonic	Action Required	Dependencies	
			H/W	S/W
Office-wide ACB	OACB	none	H11	AMAF&ATT
Automatic Recall	AR	none	H11	AMAF&ATT
Usage AR	UAR	none	H11	AMAF&ATT
Office-wide AR	OAR	none	H11	AMAF&ATT
Selective Call Forwarding	SCF	none	H11	AMAF&ATT
Usage SCF	USCF	none	H11	AMAF&ATT
Selective Call Rejection	SCR	none	H11	AMAF&ATT
Usage SCR	USCR	none	H11	AMAF&ATT
Selective Call Acceptance	SCA	none	H11	AMAF&ATT
Usage SCA	USCA	none	H11	AMAF&ATT
Selective call Distinctive Ringing	SDR	none	H11	AMAF&ATT
Usage SDR	USDR	none	H11	AMAF&ATT
Local Data Base Services	LDBS	sysload	H10&H12	CCS7
E800 Access Tandem	E8AT	none		E800
Calling Name Delivery	CNAM	none		CCS7&ATT
Calling Name Delivery Usage Sensitive	UNAM	none	H11	CCS7&ATT
Calling Name Blocking	CNAB	none		CCS7&ATT
Usage CNAB	UNAB	none		CCS7&ATT
Office CNAB	ONAB	none		CCS7&ATT
Calling Identity Delivery and Suppression	CIDS	none		CCS7&ATT
Usage CIDS	UCID	none		CCS7&ATT
Office Wide CIDS	OCID	none		CCS7&ATT
Anonymous Call Rejection	ACR	none	H11	CCS7&ATT
Usage ACR	UACR	none	H11	CCS7&ATT
Office Wide ACR	OACR	sysload	H11	CCS7&ATT
Meridian Digital Services for TEEN	MDT	none	H13	ATT
Interchangeable NPA feature	INPA	none		
Meridian Business Set ^b	MBS	none	H6	EBS
Multiple Access Directory Number ^c	MADN	none		
Call Park & Directed Call Park	PARK	none		
Call Camp-on	CAMP	none		
Split NPA for Class	SNPA	none	H10	CCS7
Automatic Recall Privacy	ARPR	none		
Signal Transfer Point	STP	none	H10	CCS7
Expanded International Dialing Billing	EIDB	none	H2	AMAF&ATT
Multiple E800 LATA	MLAT	none	H10	CCS7
Digital PX Trunk	DGPX	none		
Call Forwarding Fixed Destination	CFF	none		
Gateway Screening	GWS	none		CCS7

Table 4-B Feature activation requirements

Feature Name	Feature Mnemonic	Action Re-quired	Dependencies	
			H/W	S/W
CLASS on Centrex (EBS) ^a	CEBS	none		CCS7&EBS&ATT
RSC-S Warm Entry-Warm Exit	WEWE	none		
Auto Recall Block to Private	AR1X	none		
Bit Error Rate Performance Testing	BERT	none	H17	
Intermediate Tandem	IT	none		
TSMS Expansion	TSMS	sysload		
E800 Expanded Services	E8EX	none		
Call Wait Chaining	CWC	none		
Dedicated CLI TTY	CLI	none		
Non Call Associated Signalling	NCAS	none		PCS
AIN Off-Hook Immediate Trigger	OHI	none	H10&H18	CCS7&ATT
AIN Off-Hook Delay Trigger	OHD	none	H10&H18	CCS7&ATT
AIN Public Office Dial Plan Trigger	DIG	none	H10&H18	CCS7&ATT
AIN N11 trigger	N11	none	H10&H18	CCS7&ATT
AIN Shared Interoffice Trigger	SIT	none	H10&H18	CCS7&ATT
AIN Feature Code Trigger	FCD	none	H10&H18	CCS7&ATT
AIN Customized Dialing Plan Trigger	CDP	none	H10&H18	CCS7&ATT
AIN Termination Attempt Trigger	TA	none	H10&H18	CCS7&ATT
Local Number Portability	LNP	none	H10	CCS7&ATT
LNP Query On Release	QOR	none	H10	LNP
ISDN Basic Rate Interface	BRI	none	H19	
ISDN Primary Rate Interface	PRI	none	H19	
ISDN D-Channel Packet Info Services	PNI	none	H19	BRI or PRI
Canadian Calling Name	CANA	none	H20	CCS7, CNAM
Caller ID with Call Waiting	CWID	none		CWT&(CND or CNAM)
1Mbps Line Card	1MMS	none	H21	
Star Hub	HUB	none	H22	
Music on Hold ^a	MOH	none	H23	EBS
Office Wide Three Way Calling	O3WC	none		
Automatic Answer Back ^b	AAB	none	H6	EBS&MBS
Make Set Busy ^b	MSB	none	H6	EBS&MBS
Dialable Number Delivery	DND	none		
Call Forward Limitation	CFL	none		
Long Distance Alert	LDA	none		
Message Desk Service Interswitch	MDSI	none	H10	CCS7&SMDI
Message Desk Serving Switch	MDSS	none	H10	CCS7

Table 4-B Feature activation requirements

Feature Name	Feature Mnemonic	Action Re-quired	Dependencies	
			H/W	S/W
CALEA Dialed Digit Extraction	DDE	none	H24	
CALEA Connection/Connection Break	CONN	none		
CALEA Subject Signal Message	SSIG	none		
CALEA Network Signal Message	NSIG	none		
Integrated Billing Storage and Retrieval	IBSR	none	H25	AMAF&ATT
Alarm Dispatch	ALDP	none		
Service Node Trunk Control	SNTC	none		
Simultaneous Ringing	SRNG	none	H11	S1
Telemarketer Call Screening	TELE	none		S1
Operator Services Network Capability	OSNC	none		CCS7&ISUP&EQA
Trunk Group Member Usage Study	TGMU	none	H25	IBSR
Web Based Subscriber Feature Control	WEBF	none		
2-Bay Initial Configuration	2BIN	none		S2
VoIP SIP Lines	LSIP	none	H26	S1
VoIP SIP Packet Trunks	TSIP	none	H26	S1
Centrex (TDM Lines only)	CENT	none		S1
Centrex IP (VoIP SIP Lines only)	CIP	none	H26	S1&LSIP
Call Logging Portal	CLGS	none	H25	IBSR&S3

- a. In Generic 602.20, the BTFI, CAMP, CEBS, CWTE, DCP, EBS, IBS, MDR, MOH, PARK, and VFGC features are set when either CENT or CIP is configured; these features are not displayed in Generic 602.20.
- b. In Generic 602.20, the AAB, MBS and MSB features are set when CENT is configured; these features are not displayed in Generic 602.20.
- c. In Generic 602.20, the MADN feature is included in the generic release; this feature is not displayed in Generic 602.20.

Note: H1|H2 means that either H1 or H2 hardware is required
H3&H4 means that both H3 and H4 hardware is required
The same grammar applies to software dependencies.

Table 4-C Hardware Dependency Description

Generic 602.20:	Notes:
H1	Requires cluster hardware
H2	Requires AMA hardware
H3	Must be SSO
H4	Requires DCM hardware

Table 4-C Hardware Dependency Description

Generic 602.20:	Notes:
H5	Requires AUX TDS hardware (generic 300 only)
H6	Requires NT6X21 P-Phone Line Card
H7	Requires remote hardware
H8	Requires DCT hardware
H9	Requires ACT hardware
H10	Requires CCS7 hardware
H11	Requires VDRA hardware
H12	Requires LDBS hardware
H13	Requires voice mail hardware
H14	Requires World Line Card hardware
H15	Requires external timing signal generator
H16	Requires DPX Card/Channel Banks (may require modem pool)
H17	Requires IBERT Cards
H18	Requires AIN announcement VDRA
H19	Requires ISDN hardware
H20	Requires AP (Application Peripheral)
H21	Requires NTEX17AA and DBIC
H22	Requires NTTR80AA Star Hub frame
H23	Requires external music source
H24	Requires CALEA Interface hardware (NT4T50/NT6X50)
H25	Requires 8T90BB SCSI Bus I/O and Disk Drive Pack
H26	Requires J6T00A-1L1 PGI shelf assembly, 2 6T01AA PGI Controllers, 2 6T02AA PGI Input/Output cards, and 2 Ethernet Switch 470-24T plus associated mounting hardware and cables

Table 4-D Software Dependency Description

Generic 602.20:	Notes:
S1	Requires feature count field to be set to the number of subscribers that the Telco has purchased for this office
S2	Requires prompts in CNFG (SYS) OFTY = STND and CTYP = CNU
S3	Requires IP address defined in CNFG (CLGS)

5. Firmware download

Table 5 depicts the firmware download name for all downloadable devices used on Generic 410.10 through Generic 602.20.

Note: Firmware download files that were changed from Generic 602.10 to Generic 602.20 are indicated by blue lettering.

Table 5-A Firmware Load Matrix – 501.03 through 602.10							
Download	502.10	503.10	504.10	505.10	601.10	602.10	602.20
LCM	LCM34B						
XLCM	XLCM10BH						
PEPR	PEPR	PEPR	PEPR	PEPR	PEPR	PEPR	PEPR
PMS	PMSRAM3						
ACT	ACTRAM01						
SCM-10	SCMREV03						
SCM-10S	SSR01CW8						
SCM-10U	SCU01CWG						
RMM	RMM10A						
RSCS	CPMD10AR	RSCS07AU	RSCS07AU	RSCS07AU	RSCS07AU	RSCS07AU	RSCS07AV
CMR	CMR33AI5						
MX77	NH09						
RSLM	RSRA1700						
RSLE	RSRB1401	RSRB1401	RSRB1401	RSRB1501	RSRB1501	RSRB1501	RSRB1501
ESA RSLM	ESA34AR1						
ESA RSLE	ESA34AR1						
6X45 ESA RLCM	ESA34CR1						

Table 5-A Firmware Load Matrix – 501.03 through 602.10							
Download	502.10	503.10	504.10	505.10	601.10	602.10	602.20
MX45 ESA RLCM	N/A	N/A	MSA12bc	MSA12bd	MSA12bd	MSA12bd	MSA12bd
ESA XLCM	ESA34CR1						
CCS7 LCI	SAE 003.24						
CCS7 LSC	SAE 003.23						
CCS7 LAYER 2	SAE 007.1 APPL003.16						
CCS7 LAYER 3	SAE 007.1 Appl 003.22						
TDS 4T01CA	004.00	004.00	004.00	004.00	004.00	004.00	004.00
TDS 4T01CC	008.02	008.02	008.02	008.02	008.02	008.02	008.02
MLI 4T05AE	1.1	1.1	1.1	1.4	1.4	1.4	1.4
DSI - TRK	2.27	2.27	2.27	2.27	2.27	2.27	2.27
DSI - PRI	4.7	4.7	4.7	4.7	4.7	4.7	4.7
DSI CALEA 4T50	dde_sic_6_5	dde_sic_6_6	dde_sic_6_6	dde_sic_6_6	dde_sic_6_6	dde_sic_6_6	dde_sic_6_6
SMSR LOADER	RS1602						
SCU LOADER	RS1602						
DS-30A	007.2	007.2	007.2	007.2	007.2	007.2	007.2
IDC	ILDRLB02						
ESMA	ESMA07CL						
EDCH	EDH						
AX74 LOADER	NI05						
STAR HUB	HUBAA02	HUBAA02	HUBAA02	HUBAA02	HUBAA06	HUBAA06	HUBAA06
STAR HUB UMP	DUMPAQ09						
8T90	SAE 2.00 BIOS 3.12	SAE 2.00 BIOS 3.14	SAE 2.00 BIOS 4.01	SAE 2.00 BIOS 4.02	SAE 2.00 BIOS 4.02	SAE 2.00 BIOS 4.02	SAE 2.00 BIOS 4.02
3T98 FPGA	01.00	01.04	01.04	01.04	01.04	01.04	01.04
3T98 BSP	03.01	03.02	03.04	03.05	03.05	03.05	03.05

Table 5-A Firmware Load Matrix – 501.03 through 602.10							
Download	502.10	503.10	504.10	505.10	601.10	602.10	602.20
3T98 BSP Loader	01.02	01.02	01.02	01.02	01.02	01.02	01.02
8T04	8T04_61	8T04_64	8T04_67	8T04_70	8T04_70	8T04_70	8T04_70
PGIC	Not Applicable	Not Applicable	Not Applicable	Not Applicable	3.00	4.00	4.40

Table 5-B Firmware Load Matrix – 410.10 through 412.20			
Download	410.10	411.20	412.20
HCCPU	UCBC0C3 UCDC0C3	UCBASA0E0 UCDBGA0E0	UCBASA101 UCDBGA101
LCM	LCM34B	LCM34B	LCM34B
XLCM	XLCM08BB ^a	XLCM81BA	XLCM10BH
PEPR	PEPR	PEPR	PEPR
PMS	PMSRAM3	PMSRAM3	PMSRAM3
ACT	ACTRAM01	ACTRAM01	ACTRAM01
SCM-10	SCMREV03	SCMREV03	SCMREV03
SCM-10S	SSR01CW8	SSR01CW8	SSR01CW8
SCM-10U	SCU01CWF	SCU01CWF	SCU01CWG
RMM	RMM34C	RMM34C	RMM10A
RSCS	CPMC10AJ	CPMC10AL	CPMD10AN
CMR	CMR33AI5	CMR33AI5	CMR33AI5
MX77	NH09	NH09	NH09
RSLM	RSRA1700	RSRA1700	RSRA1700
RSLE	RSRB1401	RSRB1401	RSRB1401
ESA RSLM	ESA34AP	ESA34AR1	ESA34AR1
ESA RSLE	ESA34AP	ESA34AR1	ESA34AR1
6X45 ESA RLCM	ESA34CR1	ESA34CR1	ESA34CR1
ESA XLCM	ESA34CR1	ESA34CR1	ESA34CR1
CCS7 LCI	SAE 003.23	SAE 003.24	SAE 003.24

Table 5-B Firmware Load Matrix – 410.10 through 412.20			
Download	410.10	411.20	412.20
CCS7 LSC	SAE 003.23	SAE 003.23	SAE 003.23
CCS7 LAYER 2	SAE 003.23 APPL 003.11	SAE 003.23 APPL 003.14	SAE 003.23 APPL 003.16
CCS7 LAYER 3	SAE 003.23 APPL 003.8	SAE 003.23 APPL 003.17	SAE 003.23 APPL 003.17
TDS 4T01CA	TONEDNLD	004.00	004.00
TDS 4T01CC	TONEDNLD	008.00	008.02
MLI 4T05AE	Not Applicable	1.0	1.1
DSI - TRK	2.27	2.27	2.27
DSI - PRI	Not Applicable	4.3	4.7
SMSR LOADER	RS1602	RS1602	RS1602
SCU LOADER	RS1602	RS1602	RS1602
DS-30A	004.0	006.2	007.2
IDC	IDAA14K	IDAA14K	ILDRAD15
ESMA	Not Applicable	ESMA07BV	ESMA07CA
EDCH	Not Applicable	DCHDCH35	EDH
AX74 LOADER	Not Applicable	NI05	NI05
STAR HUB	Not Applicable	HUB10Y1	HUB11TAK
STAR HUB UMP	Not Applicable	DUMPAQ01	DUMPAQ05
3T90	Not Applicable	Not Applicable	SAE 1.2 APPL 2.0

- a. The XLCM download is referred to as version BB when the version command is executed. However, internally in the ClearCase environment it is referred to as version BC.
- b. CCS7 LAYER 2 SAE 003.23 is the correct download for 412.10; however, the 4T20BA has a new version burned into its ROM and will indicate version SAE 0007.0 when queried.
- c. CCS7 LAYER 3 SAE 003.23 is the correct download for 412.10; however, the 4T20BA has a new version burned into its ROM and will indicate version SAE 007.0 when queried.

6. Data conversions

Conversions to Generic 602.20 are only supported for the following generics:

- 410.10
- 411.10
- 411.20
- 412.10
- 412.20
- 501.03
- 502.10
- 503.10
- 504.10
- 505.10
- 601.10
- 602.10

Note: Conversion from Classic to Expanded networks are only supported from 412.20 and 602.20. An upgrade to Expanded network from Generic 410.10 through 412.10 or Generic 501.03 through 602.10 will require a 2 step conversion.

6.1 Procedures

Refer to the following documents:

- DMS-10 601.10 RTOS CPU Upgrade
- DMS-10 Generic Upgrade 502.10 to 602.20
- DMS-10 Generic Upgrade 503.10 to 602.20
- DMS-10 Generic Upgrade 504.10 to 602.20
- DMS-10 Generic Upgrade 505.10 to 602.20

— DMS-10 Generic Upgrade 601.10 to 602.20

— DMS-10 Generic Upgrade 602.10 to 602.20

Note: Used when PGI hardware is added.

— 601.10 to 602.20 Customer Upgrade Procedure

— 602.10 to 602.20 Customer Upgrade Procedure

Note: Used when PGI hardware is already equipped.

6.1.1 Conversions pre 410.10 Generics

When converting to 602.20 from a pre-410.10 Generic, a new office image generated by Nortel and a special upgrade process is required.

6.1.2 Conversions to Generic 505.10 and higher

The upgrade to Generic 505.10 and higher will automatically add a script TTY. A script TTY is needed to allow DMS-10 Installation to execute their IM scripts. The system will look for an unused logical unit (LOGU) number and an unused device number (DEV), starting the search with LOGU 30 and DEV 31. If the system is unable to add the script TTY, the message SYS313 will be printed indicating no script TTY was added. This SYSLOAD message is for information only and will not halt or abort the upgrade. If the system fails to add the script TTY, DMS-10 Installation will need to add one manually to perform their IM scripts.

6.2 Cluster Configuration

When upgrading a cluster configuration the Host Satellite Office (HSO) must first be upgraded to the equivalent or later generic as the SSO upgrade (i.e., Generic 602.20).

7. Generic load media

Generic 602.20 will be delivered by magneto-optical disks. An appropriate number of magneto-optical disks to meet Nortel and Customer needs, with all generic load information incorporated, will be delivered to site.

8. List of terms

ABSBH	Average Busy Season Busy Hour
AIN	Advanced Intelligent Network
ALO	Overlay Alarm
ALRM	Alarm
AMA	Automated Message Accounting
AODB	Automated Offsite Data Backup
AP	Application Processor/Protocol
BTF	Busy Transfer
CCTB	Custom Calling Tape Backup
CED	Common Equipment Diagnostics
CFB	Call Forward Busy
CFF	Call Forward Fixed

CFID	Call Forward Internet Down
CFW	Call Forward
CKT	Circuit
CLGS	Call Logging
CNFG	Configuration
CPU	Central Processing Unit
DAT	Don't Answer Transfer
DED	Digital Equipment Diagnostics
DLIN	Dedicated Link
DMO	Data Modification Order
DN	Directory Number
EBS	Enhanced Business Service
ESA	Emergency Stand Alone
ESMA	Enhanced Subscriber Carrier Module Access
FTP	File Transfer Protocol

HDBH	High Day Busy Hour
HSO	Host Switching Office
IBSR	Integrated Billing Storage and Retrieval
IDT	Integrated Digital Terminal
IOD	Input/Output Device Diagnostics
IP	Internet Protocol
ISO	International Standard Organization
LATA	Local Access Transport Area
LCE	Line Concentrate Equipment
LCM	Line Concentrate Module
LNP	Local Number Portability
LOGU	Logical Unit
LRN	Location Routing Number
LTG	Line Trunk Group
LTRK	Line Trunk

MADN	Multiple Appearance Directory Number
MBS	Meridian Business Set
MF	Multi frequency Signal
NED	Network Equipment Diagnostics
NPA	Numbering Plan Area
NTP	Nortel Publication
ODQ	Office Data Query
OMM	Output Message Manual
OPM	Operational Performance Measurement
OSNC	Operator Services Network Capability
OVLY	Overlay
PBX	Private Branch Exchange
PED	Peripheral Equipment Diagnostics
PIC	Primary InterLATA Carrier
PRI	Primary Rate Interface

RAM	Random Access Memory
RCFA	Remote Call Forward Appearance
RLCM	Remote Line Concentrating Module
ROUT	Route
SCOS	Security Class of Service
SHEL	Shell
SIP	Session Initiation Protocol
SSO	Satellite Switching Office
TDM	Time Division Multiplex
TG	Trunk Group
TGMU	Trunk Group Member Usage
THGP	Thousand Group
TRK	Trunk
TRNS	Translation
TTY	Teletype

UPDT

Update

VoIP

Voice over Internet Protocol

WAN

Wide Area Network

XML

Extensible Markup Language

DMS-10 Family

Generic 602.20

DMS-10 North America Software
Generic Release Summary

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