Product Introduction

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MX702600B CDMA2000 Scenario Composer

MD8470A Signalling Tester



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1. Product Overview (1/3)

The MX702600B CDMA2000 Scenario Composer software application greatly increases the speed and efficiency of creating and modifying test scenarios for the MX847030A CDMA2000 Simulation Kit used with the MD8470A Signalling Tester. Tests sequences created using the editor are converted to Perl script and output for





3. Functions - Signaling Setup (1/2) -Batch Setting of Each Base Station This function supports batch setting of parameters ranging from the configuration of the RF environment to the Overhead Message (OHM) for each type of Base Station at the Signaling Setup window. • Automatic allocation of RF resources using sector setting • Batch setting of common parameters by system variables RF No. • The Overhead Message (OHM) used in each sector can MD8470A be selected -55.0 dBr PPP_01 PPP_02 PPP_03 PPP_04 EVDO 01 EVDO_02 CDMA_02 CDMA_02 • Support for CDMA2000 1X/1xEV-DO Multi-carrier, Multi-sector -34.0 dBr -40.0 dBr -6.5 • Expansion to four carriers by linking two MD8470A units 03 CDMA_04 CDMA_05 CDMA_06 - Max. Sector/PPP Node PN Offse SID(*) NID(*) 1X: 6, 1xEV-DO: 3, PPP Node: 4 3 Band Clas • - Max. Carrier Channel Setting MIN P REV(*) OHM Setting When using one MD8470A unit: 2 carriers When using two MD8470A units: 4 carriers (With MD8470A-01 second RF option) /inritsu Discover What's Possible™ Slide 8 MX702600B-E-L-1

	5 ()	3
1X Message Edition		
Each parameter in the Layer-3 F Parameters that can be set at the Step 1 Message Selecting	ield of send and receive messag e field comply with the 3GPP2 st Step 2 Message Editing	es can be edited. andard. Step 3 Field Editing
Forward Messaec Select for CDMA P.RV Constraints Prev Prev Constraints Prev Prev Prev Constraints Prev Pr	Formed Message Life for COMA Image: Target Topic Target Target Target Target Target Target	StD Value Required Value Required Value Required Value Valu
Edt Cancel	OK Carcel	OK Cancel

3. Functions - Mess	age Edition (2/2) -				
1xEV-DO Message Edition					
Each parameter in the Layer-3 Field of send and receive messages can be edited. Parameters that can be set at the field comply with the 3GPP2 standard.					
Forward Messace Select for EVDO	Consequent data for e VARO Consequence data for e VARO Consequence data data data data data data data dat	ATTRIBUTE_RECORD_COUNT Value Required C Value C User Variable C System Variable Value I Description Info: Inputting high value takes more time to update Unit / Value Type None / Binary			
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l est Sec	quence Expa		
The Tag f	function expands	s the expression of the test sequence.	
	Wait	: Wait for specified length of time for script execution	(setting resolution: 10 ms)
	Prompt	: Wait for input from console	
	Trace	: Output specified character string on PVT	
Common	Comment	: Input comment in script	
Use Tag	Inline	: Insert the Perl script directly	
	Power Change	: Change output power of each sector in time sequer Used at handoff test script	nce
	Random Order	: Branch processing at specified segment by Reverse Used when Reverse Message order random	e Message

3. Functions - Power Change Tag -

Fine Control of RF Power

RF power can be fine-controlled using the power change tag, facilitating setting levels for handoff tests.

|--|

PC CPU Main Memory Display	IBM-PC/AT or compatible 1 GHz Pentium III processor or better 256 MB min. 1024 × 768 pixels min. Missee Windows XD Professional Convice Deal 2 or later		
US Hard Disk USB	icrosoft Windows XP Professional Service Pack 2 or later i least 20 MB of free space on boot disk SB Version 1.1/2.0		
	Microsoft Windows are the registered trademark of Microsoft Corporation in the USA an Pentium is the registered trademark of Intel Corporation or its subsidiaries in the USA a Other companies, product names and service names are registered trademarks of their	d other countries. nd other countries. respective companies.	
	Dealer state and a state of the	U.S. Maria and Anna and	
cenario Co	mposer Perl scripts operate under the fo	llowing environment	

7. Appendix (1/2)

MD8470A Configurations

Units/Options/ Software Configurations	MU847030A CDMA2000® 1X Signalling Unit	MU847032A CDMA2000® 1xEV-DO Signalling Unit	MD8470A-01 Second RF Option	MX847030A CDMA2000® Simulation Kit	MX847030A-01 Multi Sector/ Multi Carrier
CDMA2000 1X Test Configuration*1	Required			Required	
CDMA2000 1X + Multi Sector/Multi Carrier Test Configuration*2	Required		Required	Required	Required
CDMA2000 1X/1xEV-DO Test Configuration *3	Required	Required	Required	Required	
CDMA2000 1X/1xEV-DO + Multi Sector / Multi Carrier Test Configuration*4	Required	Required	Required	Required	Required

*1: CDMA2000 1X Test Configuration: Simulates CDMA2000 1X with one carrier and one sector
*2: CDMA2000 1X + Multi Sector/Multi Carrier Test Configuration: Simulates CDMA2000 1X with multi-carriers and multi-sectors
*3: CDMA2000 1X/1xEV-DO Test Configuration: Simulates CDMA2000 1X/1xEV-DO with one carrier and one sector
*4: CDMA2000 1X/1xEV-DO + Multi Sector/Multi Carrier Test Configuration: Simulates CDMA2000 1X/1xEV-DO with multi-carriers and multi-sectors
CDMA2000 1X/1xEV-DO + Multi Sector/Multi Carrier Test Configuration: Simulates CDMA2000 1X/1xEV-DO with multi-carriers and multi-sectors
CDMA2000 1X/1xEV-DO + Multi Sector/Multi Carrier Test Configuration: Simulates CDMA2000 1X/1xEV-DO with multi-carriers and multi-sectors
CDMA2000 1X/1xEV-DO + Multi Sector/Multi Carrier Test Configuration: Simulates CDMA2000 1X/1xEV-DO with multi-carriers and multi-sectors
CDMA2000[®] is a registered trademark of the Telecommunications Industry Association (TIA-USA).

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	Name	Type	Explanation	
7 Appendix $(2/2)$	PNOffset	CDMA		
$I \cdot Appendix (Z/Z)$	BandClass	CDMA	1	
••• • • •	Channel	CDMA	Setting value specified on Signaling Setup screen	
	SID	CDMA	Setting value specified on Signaling Setup screen	
Svotom Variables	NID	CDMA		
System variables	MAX_P_REV	CDMA	1	
	MIN_P_REV	CDMA	1	
	Address_Type	CDMA	Setting type 2 when receiving Registration Message ^{*1} Used as API Fields ADDRTYPE when sending f-csch (general signaling) message ²	
The variables in the table are defi	Address_Length	CDMA	Setting type 5 when receiving Registration Message ^{*1} Used as API Fields ADDRLEN when sending f-csch (general signaling) message ²	
as system variables that can be u in each messages.	Sed	CDMA	Setting IMSI_S calculated from API Fields ADDR when receiving Registration Message Becomes undefined value when IMSI_S not included Used as API Fields ADDR when sending f-csch (general signaling) message ²	
	ESN	CDMA	Setting ESN calculated from API Fields ADDR when receiving Registration Message Becomes undefined value when ESN not included Used as ESN for following tags ² FFCH L1 Open, FSCH L1 Open, FDCCH L1 Open RFCH L1 Open, RSCH L1 Open, RDCCH L1 Open	
	PNOffset	EVDO		
	BandClass	BandClass EVDO	1	
	Channel	EVDO	Setting value specified on Signaling Setup screen Setting MacIndex reported from MX847030A when executing sector Traffic Channel Open or SHO sector add tag	
	SectorID	EVDO		
	ColorCode	EVDO		
	UATI024	EVDO		
	MacIndex	EVDO		
	MacIndexMSB	EVDO	Setting MacIndex extended at Revision A when USEEXTENDEDMACINDEX in BS setting dialog = True	
	*1: *2:	The MX70 It is preset	2600B is preset as Address Type = 2, Address Len = 5. to use the existing variable. The setting can be released freely.	
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