Test Item Description

Manufacturer	EF Johnson Technologies	
Manufacturer Contact	Randy O'Connor (972) 819-0911	
Product Name	Viking VP600 and VP400 UHF Portable Subscriber Unit	
Installed Options Full and Limited Keypad, AES/DES KWD-AE30 Encryption MoInstalled		
Vocoder Identification	Enhanced Full Rate	

Test Description

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability

Laboratory Information

Laboratory	Details	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)	
Date(s) of Test	August 21, 2013 to September 10, 2013	
Date of Issue	September 25, 2013	

Laboratory	Details	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)	
Date(s) of Test	January 24, 2013 to January 29, 2013	
Date of Issue	February 2, 2013	

Laboratory	Details	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)	
Date(s) of Test	October 5, 2012	
Date of Issue	October 8, 2012	

Laboratory	Details	
P25 CAP Laboratory Code	Laboratory Code P25CAP081016 (Timco Engineering)	
Date(s) of Test	of Test July 24, 2012	
Date of Issue	July 31, 2012	

Laboratory	Details
P25 CAP Laboratory Code	P25CAP081017 (Harris)
Date(s) of Test	December 11, 2012
Date of Issue	December 17, 2012

Laboratory	Details	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)	
Date(s) of Test	January 28, 2013	
Date of Issue	February 4, 2013	

Test Information		
P25 CAP Laboratory Code P25CAP081010 (EF Johnson Technologies)		
Date(s) of Test	June 5, 2014 to June 6, 2014	
Date of Issue	July 3, 2014	

Laboratory	Details	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)	
Date(s) of Test	May 10, 2017	
Date of Issue	June 14, 2017	

Informative References

Date	Title
Mar 2010	P25-CAB-CAI_TEST_REQ - March 2010

Other Devices Tested with Viking VP600 and VP400 UHF Portable Subscriber Unit

Manufacturer	Product Name, Definition, and Unique ID	Installed Options
Tait	TN9400 TaitNet P25	Firmware 3.70, Kernel 3.60
EF Johnson	IP25 Trunked Infrastructure	Release 3.1-RC1
Harris	P25 Trunked Infrastructure	Release PR9D
EF Johnson	Atlas Trunked Infrastructure	TSNI 1.0.5-1
Motorola Solutions	Astro Trunked Infrastructure	Release 25.7.17

Receiver Tests - Conventional

Test Identification	Detailed Test Report Identification
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance	DTR-P25CAP081010-13092501

	Receiver Tests				
Test Case	Description	Requirement	Results		
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A	P1		
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P2		
2.1.6	Signal Delay Spread Capability	≥ 50 µs	P3		
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P4		
2.1.8	Co-Channel Rejection	≤ 9 dB	Р		
2.1.9	Spurious Response Rejection	≥ 80 dB (Class A)	Р		
2.1.10	Intermodulation Rejection	≥ 75 dB (Class A)	Р		
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	Р		
2.1.17	Late Entry Unsquelch Delay				
	No Talk Group or Encryption	≤ 125 ms	Р		
	Talk Group Only	≤ 370 ms	Р		
	Encryption Only	≤ 370 ms	Р		
	Both Talk Group and Encryption	≤ 460 ms	Р		
2.1.18	Receiver Throughput Delay	≤ 125 ms	Р		

Transmitter Tests - Conventional

Test Identification	Detailed Test Report Identification	
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance	DTR-P25CAP081010-13092501	

	Transmitter Tests				
Test Case	Description Requirement		Results		
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	Р		
2.2.12	Transmitter Power and Encoder Attack Time				
	Power Attack Time	≤ 50 ms	Р		
	Encoder Attack Time	coder Attack Time ≤ 100 ms			
2.2.14	Transmitter Throughput Delay	≤ 125 ms	Р		
2.2.15	Frequency Deviation for C4FM				
	High Level Signal Deviation	Signal Deviation 2544 Hz < f _{dev} ≤ 3111 Hz			
	Low Level Signal Deviation	$848~Hz < f_{dev} \leq 1037~Hz$	Р		
2.2.16	Modulation Fidelity	≤ 5% (Class A)	Р		
2.2.18	Transient Frequency Behavior				
	Time Interval $t_1 = 10 \text{ ms}$ $ \Delta f \le 12.5 \text{ kHz}$		Р		
	Time Interval t ₂ = 25 ms	∆f ≤ 6.25 kHz	Р		
	Time Interval t ₃ = 10 ms	∆f ≤ 12.5 kHz	Р		

Receiver Tests- Trunked

Test Identification	Detailed Test Report Identification	
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance	DTR-P25CAP081010-13092501 DTR-P25CAP081010-13020101	

	Receiver Tests				
Test Case	Test Case Description Requirement				
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P1		
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P2		
2.1.6	Signal Delay Spread Capability	≥ 50 µs	P3		
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P4		
2.1.8	Co-Channel Rejection	≤ 9 dB	Р		
2.1.9	Spurious Response Rejection	≥ 80 dB (Class A)	Р		
2.1.10	Intermodulation Rejection	≥ 75 dB (Class A)	Р		
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	Р		

Transmitter Tests – Trunked

Test Identification	Detailed Test Report Identification	
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance	DTR-P25CAP081010-13092501 DTR-P25CAP081010-13020101	

	Transmitter Tests				
Test Case	Description Requirement		Results		
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	Р		
2.2.12	Transmitter Power and Encoder Attack Time				
	Power Attack Time	≤ 50 ms	Р		
	Encoder Attack Time	Encoder Attack Time ≤ 100 ms			
2.2.14	Transmitter Throughput Delay	≤ 125 ms	Р		
2.2.15	Frequency Deviation for C4FM				
	High Level Signal Deviation	igh Level Signal Deviation 2544 Hz < f _{dev} ≤ 3111 Hz			
	Low Level Signal Deviation 848 Hz < f _{dev} ≤ 1037 Hz		Р		
2.2.16	Modulation Fidelity	≤ 5% (Class A)	Р		
2.2.18	Transient Frequency Behavior				
	Time Interval $t_1 = 10 \text{ ms}$ $ \Delta f \le 12.5 \text{ kHz}$		Р		
	Time Interval $t_2 = 25 \text{ ms}$	∆f ≤ 6.25 kHz	Р		
	Time Interval t ₃ = 10 ms	∆f ≤ 12.5 kHz	Р		

Trunked Subscriber Unit Tests - Trunked

Test Identification	Detailed Test Report Identification	
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance	DTR-P25CAP081010-13092501 DTR-P25CAP081010-13020101	

Trunked Subscriber Unit Tests				
Test Case	Description	Results		
2.3.1	Trunking Control Channel Slot Times (45 ms slot) N7			
	Encode Attack Time	$2.00 \text{ ms} \le t \le 11.65 \text{ ms}$	Р	
	RF Power Attack Time	$0 \text{ ms} \leq t \leq 11.65 \text{ ms}$	Р	
	RF Power Turn Off Time	≤ 1.57 ms	Р	
2.3.2	Trunking Request Time	≤ 167.5 ms	Р	
2.3.3	Trunking Voice Access Time	500 ms	Р	
		(Manufacturer Specified)		
2.3.5	Transmitter Time to Key on a Traffic Channel			
	Short Channel Form	≤ 150.0 ms	Р	

Test Identification	Product	
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability	EF Johnson Viking VP600 AND VP400 UHF (380 MHZ TO 470 MHZ) Portable Subscriber (See note N7)	

Product	Detailed Test Report Identification		
TN9400 TaitNET P25	DTR-TIMCO081016-VP600TN9400		
EF Johnson IP25 Trunking Infrastructure	DTR-P025CAP081010-12100801		
Harris Infrastructure	DTP-P25CAP081010-1121211E01		
EF Johnson Atlas Trunked Infrastructure	DTR-P25CAP081010-13020401		
Motorola Solutions ASTRO Trunked Infrastructure	DTR-P25CAP081010-17061403		

Test Case	Description	TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
2.2.1	Full Registration					
2.2.1.4.1	Test Case 1 - Valid Registration					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.1.4.2	Test Case 2 – Denied or Refused Registration					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.1.4.3	Test Case 3 - Unverified Registration					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.2	Group Voice Call					
2.2.2.4.1	Test Case 1 – Group Call Granted					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.2.4.2	Test Case 2 – Group Call Denied					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6

Test Case	Description	TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.2.4.3	Test Case 3 – Group Call Request Queued					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

Test Identification	Product
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability	EF Johnson Viking VP600 AND VP400 UHF (380 MHZ TO 470 MHZ) Portable Subscriber (See note N7)

Product	Detailed Test Report Identification
TN9400 TaitNET P25	DTR-TIMCO081016-VP600TN9400
EF Johnson IP25 Trunking Infrastructure	DTR-P025CAP081010-12100801
Harris Infrastructure	DTP-P25CAP081010-1121211E01
EF Johnson Atlas Trunked Infrastructure	DTR-P25CAP081010-13020401
Motorola Solutions ASTRO Trunked Infrastructure	DTR-P25CAP081010-17061403

Test Case	Description	TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
2.2.3	Unit-To-Unit Voice Call					
2.2.3.4.1	Test Case 1 – Unit-To-Unit Call With Target Availability Check					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.2	Test Case 2 – Unit-To-Unit Call Target Availability Check Denied					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.3	Test Case 3 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment after target availability check					
	Home Operation	N/A 1	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.4	Test Case 4 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment before target					
	Home Operation	Р	N/A 2	N/A 2	N/A 2	N/A 2
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

Test Case	Description	TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
2.2.3.4.5	Test Case 5 – Unit-To-Unit Call Without Target Availability Check					
	Home Operation	N2	N2	Р	N2	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.6	Test Case 6 – Unit-To-Unit Call Queued Without Target					
	Home Operation	N2	N2	Р	N2	N6
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.7	Test Case 7 – Unit-To-Unit Call					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

Test Identification	Product
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability	EF Johnson Viking VP600 AND VP400 UHF (380 MHZ TO 470 MHZ) Portable Subscriber (See note N7)

Product	Detailed Test Report Identification
TN9400 TaitNET P25	DTR-TIMCO081016-VP600TN9400
EF Johnson IP25 Trunking Infrastructure	DTR-P025CAP081010-12100801
Harris Infrastructure	DTP-P25CAP081010-1121211E01
EF Johnson Atlas Trunked Infrastructure	DTR-P25CAP081010-13020401
Motorola Solutions ASTRO Trunked Infrastructure	DTR-P25CAP081010-17061403

Test Case	Description	TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
2.2.4	Broadcast Voice Call					
2.2.4.4.1	Test Case 1 – Broadcast Voice Call					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.5	Affiliation					
2.2.5.4.1	Test Case 1 - Radio Permitted To Affiliate With New Group					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.5.4.2	Test Case 2 - Radio Denied Affiliation To New Group					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.6	Announcement Group Call					
2.2.6.4.1	Test Case 1 - Collection Of Talk Groups Receive Call					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.7	Emergency Alarm					
2.2.7.4.1	Test Case 1 - Emergency Alarm					
	Home Operation	Р	Р	Р	Р	Р

July 18, 2017

Test Case	Description	TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

Test Identification	Product
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability	EF Johnson Viking VP600 AND VP400 UHF (380 MHZ TO 470 MHZ) Portable Subscriber (See note N7)

Product	Detailed Test Report Identification
TN9400 TaitNET P25	DTR-TIMCO081016-VP600TN9400
EF Johnson IP25 Trunking Infrastructure	DTR-P025CAP081010-12100801
Harris Infrastructure	DTP-P25CAP081010-1121211E01
EF Johnson Atlas Trunked Infrastructure	DTR-P25CAP081010-13020401
Motorola Solutions ASTRO Trunked Infrastructure	DTR-P25CAP081010-17061403

Test Case	Description	TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
2.2.8	Emergency Group Call					
2.2.8.4.1	Test Case 1 - Emergency Call					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.10	Encryption					
2.2.10.4.1	Test Case 1 - Call Privacy For					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.11	Intra-Location Registration Area					
2.2.11.4.1	Test Case 1 – Idle Radio					,
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

Project 25 Compliance Assessment Program Summary Test Report

EF Johnson Viking VP600 and VP400 UHF (380 MHZ TO 470 MHZ) Portable Subscriber Unit STR-EFJ-17071804 July 18, 2017

Model Class Definition

Applied to P25-CAB-CAI_Test_Req Mar 2010, 2.1.3.2

Model Class Name	Product Name, Definition, and Unique ID	Installed Options
Viking VP600 and VP400	EF Johnson Viking VP600 AND VP400 UHF (380 MHZ TO 470 MHZ) Portable Subscriber	Firmware: 8.16.3
Portable		Firmware: 8.16.6
		Firmware: 8.18.12

Test Case Result Definitions

No Test Performed	
Test Does Not Apply to the Test Object	N/A
Test Object Meets Requirements	P (Pass)
Test Object Does Not Meet Requirements	F (Fail)
Test Object is Not Conclusive	I (Inconclusive)

Comments

N/A 1:	Test case 2.2.3.4.3 is not applicable for TN9400 Taitnet P25 Infrastructure; see results of test case 2.2.3.4.4.
N/A 2:	Test case 2.2.3.4.4 is not applicable for these infrastructures; see results of test 2.2.3.4.3.
N1:	EF Johnson Viking VP600 and VP400 subscriber does not support these features.
N2:	Infrastructure does not support this mode of operation.
N3:	TN9400 TaitNet P25 and EF Johnson Viking VP600 and VP400 subscriber do not support these features.
N4:	EF Johnson trunking system release 3.1-RC1, EF Johnson Atlas TSNI 1.0.5-1, and EF Johnson Viking VP600 and VP400 subscriber do not support these features.
N5:	Harris infrastructure release PR9D and EF Johnson Viking VP600 and VP400 subscriber do not support these features.
N6:	Motorola Astro infrastructure release 25.7.16 and EF Johnson Viking VP600 and VP400 subscriber do not support these features.
N7:	EF Johnson VP400, VP600, and VP900 series portables utilize common trunking software across all frequency bands. Leveraging this frequency band independence of the trunking software, EF Johnson defines a common model class for VP series portables as encompassing all frequency bands for the purposes of trunking interoperability.
P1:	EF Johnson VP 600 and VP400 UHF (380 – 470 MHz) subscriber passes Reference Sensitivity (≤ -116 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P2:	EF Johnson VP 600 and VP400 UHF (380 – 470 MHz) subscriber passes Faded Reference Sensitivity (≤ -108 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P3:	EF Johnson VP 600 and VP400 UHF (380 – 470 MHz) subscriber passes Signal Delay Spread Capability specification for C4FM (Non-Simulcast) (\geq 50 μ s) and Simulcast modulations (\geq 80 μ s).
P4:	EF Johnson VP 600 and VP400 UHF (380 – 470 MHz) subscriber passes Adjacent Channel

	Rejection (≥ 60 dB) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P5:	EF Johnson Viking VP600 and VP400 UHF (380 MHZ TO 470 MHZ) subscriber passes Reference Sensitivity (≤ -116 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations. P6: EF Johnson Viking VP600 and VP400 UHF (380 MHZ TO 470 MHZ) subscriber passes Faded
P6:	EF Johnson Viking VP600 and VP400 UHF (380 MHZ TO 470 MHZ) subscriber passes Faded Reference Sensitivity (≤ -108 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations
P7:	EF Johnson Viking VP600 and VP400 UHF (380 MHZ TO 470 MHZ) subscriber passes Signal Delay Spread Capability specification for C4FM (Non-Simulcast) (\geq 50 μ s) and Simulcast modulations (\geq 80 μ s).
P8:	EF Johnson Viking VP600 and VP400 UHF (380 MHZ TO 470 MHZ) subscriber passes Adjacent Channel Rejection (≥ 60 dB) specification for C4FM (Non-Simulcast) and Simulcast modulations.

Project 25 Compliance Assessment Program

Summary Test Report

EF Johnson Viking VP600 and VP400 UHF (380 MHZ TO 470 MHZ) Portable Subscriber Unit STR-EFJ-17071804

July 18, 2017

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