

**Comtech TCS**  
Safety and Security Technologies  
2401 Elliott Avenue  
Seattle WA 98121  
Phone: 206 792-2000  
Fax: 206 792-2001  
www.comtechtel.com



**PSAP Test Plan**

**PSAP Name Goes Here**

**Enter Test Date Here**

## Table of Contents

1. Introduction .....	3
1.1. Purpose .....	3
1.2. Assumptions.....	3
2. PSAP Test Scenarios .....	4
2.1. Test Scenario 1 – PSAP Operator to Answer an Incoming Call and Check Call Quality vs Legacy Network .....	4
2.2. Test Scenario 2 – Validate Policy Routing (Overflow Condition).....	6
2.3. Test Scenario 3 – PSAP Operator Calls Back a Short Duration or Abandoned Call ....	7
2.4. Test Scenario 4 – NG9-1-1 PSAP Transfers a 9-1-1 Call to a Legacy PSAP .....	8
2.5. Test Scenario 5 – NG9-1-1 PSAP Transfers a 9-1-1 Call to an NG9-1-1 PSAP .....	11
2.6. Test Scenario 6 – Establish Communications among the PSAP Call Taker, 9-1-1 Caller, Third-Party Service Provider from PSAP Equipment .....	13
2.7. Test Scenario 7 – Validate * Codes/ 1-Button Transfers/Manual Transfers.....	15
2.8. Test Scenario 8 – Validate Policy Routing (Alternate Condition) .....	17
3. Additional Validation Tests for the PSAP Post Call through Testing ...	19
3.1. Validate Recording Capabilities .....	19
3.2. Validate Logging Capabilities.....	19
4. Back-Out Procedure for PSAPs.....	20
5. Summary of Test Results and PSAP Testing Sign-Off .....	22
6. SAP Star (*) Code Attachment(s) .....	24

## **1. Introduction**

### **1.1. Purpose**

The Purpose of this document is to prepare PSAPS for testing requirements for operation on the state of Washington NextGen9-1-1 network.

### **1.2. Assumptions**

PSAPs will meet all the requirements outlined in the PSAP NG preparedness documentation

Carriers will meet all the requirements outlined in the Carrier to NG preparedness documentation for PSAP testing

Testing will be performed with Comtech TCS test lines.

PSAPs will have new trunk ports and trunk cards as applicable and not reallocated existing trunk capacity to Comtech TCS.

## 2. PSAP Test Scenarios

### 2.1. Test Scenario 1 – PSAP Operator to Answer an Incoming Call and Check Call Quality vs Legacy Network

Test Case Number:	Test Scenario 1					
Test Case Coverage Area:	All State of Washington PSAP testing					
Test Stage:	PSAP Testing on NG9-1-1 platform					
Test Case:	PSAP Operator to answer incoming calls and check call quality in comparison to legacy network					
Expected Results:	PSAP Operator answers call and is able to communicate with the 9-1-1 caller					
Step	Test Procedure	Expected Result/Value	Actual Result/Value	Expectation Met?	Tested by	Tested on (mm/dd/yy)
1	A 9-1-1 test call is initiated via a Comtech TCS test line	Call routes to the intended PSAP		<input type="checkbox"/> Yes <input type="checkbox"/> No		
1.1	NG PSAP operator answers call and verifies Telephone number populates and NRF (No Record Found appears)	Communication established between 9-1-1 caller and PSAP operator and CBN and NRF appear		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	Voice Quality is checked: 9-1-1 Test Caller speaks	PSAP Operator listens to quality of voice: Do they hear echo on NG9-1-1 line? Do they hear feedback on NG9-1-1 line? Is volume level good? Can they clearly hear call tester?	Echo? Feedback? Volume level? Call clarity?	<input type="checkbox"/> Yes <input type="checkbox"/> No		

Comtech TCS PSAP Test Plan  
June 16, 2016

2.1	Voice quality is checked: PSAP Operator speaks	9-1-1 caller listen to quality of voice: Do they hear echo on NG9-1-1 line? Do they hear feedback on NG9-1-1 line? Is volume level good? Can they clearly hear PSAP Operator?	Echo? Feedback? Volume level? Call clarity?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.2	DTMF Test: 9-1-1 Test Caller lets Operator know they will be pressing a digit (9) and asks Operator to move their listening device away from their ear.	PSAP operator to listen to DTMF tone over the NG9-1-1 line.  Is DTMF tone signal good?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	Additional 9-1-1 test call is initiated to Comtech TCS line via legacy trunks (dial 911)	Call routes to intended PSAP		<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	PSAP operator is alerted to calls in queue	PSAP operator can visually identify calls in queue		<input type="checkbox"/> Yes <input type="checkbox"/> No		
5	PSAP operator places test call #1 on hold or if PSAP does not place calls on hold, skips and goes to step 6	Call placed on hold if this step applies		<input type="checkbox"/> Yes <input type="checkbox"/> No		
5.1	PSAP operator answers test call #2 in queue	Communication established between second 9-1-1 caller and PSAP operator		<input type="checkbox"/> Yes <input type="checkbox"/> No		
5.2	PSAP operator speaks with call #2 and compares call volume/quality of legacy call to that of the NG call.	PSAP Operator listens to quality of voice: Is call quality/volume level comparable to NG9-1-1 call?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
5.3	DTMF Test: Caller #2 let's Operator know they will be pressing a digit (9) and asks Operator to move their listening device away from their ear to compare with DTMF tone of NG call	PSAP operator to listen to DTMF tone over the legacy line to compare with NG9-1-1 line.  Is DTMF tone signal comparable?		<input type="checkbox"/> Yes <input type="checkbox"/> No		
6	PSAP operator releases call #2	Call released		<input type="checkbox"/> Yes		

Comtech TCS PSAP Test Plan  
June 16, 2016

				<input type="checkbox"/> No		
7	PSAP operator examines call #1 for hold time (if step 5 applies)	The elapsed hold time is displayed in call record (if step 5 applies)		<input type="checkbox"/> Yes <input type="checkbox"/> No		
8	PSAP operator waits for system to alert call taker that call #1 is still on hold	After a pre-defined time the system will alert the PSAP operator of caller on hold		<input type="checkbox"/> Yes <input type="checkbox"/> No		
9	PSAP operator selects call #1 and takes the call off hold	PSAP operator can communicate with caller #1		<input type="checkbox"/> Yes <input type="checkbox"/> No		
10	PSAP operator ends call #1	Call disconnects		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Comments:						

**2.2. Test Scenario 2 – Validate Policy Routing (Overflow Condition)**

Test Case Number:	Test Scenario 2					
Test Case Coverage Area:	All PSAP Testing					
Test Stage:	PSAP Testing					
Test Case:	Validate NG9-1-1 virtual trunks and CPE connections work as expected, via Alternate Routing Overflow routing testing. PSAP Vendor takes inbound NG9-1-1 trunks to the PSAP down one by one, until all are down.					
Expected Results:	Each NG9-1-1 trunk to PSAP works as expected, until all NG9-1-1 trunks are down and PSAP will enable Alternate and overflow routing					
Step	Test Procedure	Expected Result/Value	Actual Result/Value	Expectation Met?	Tested by	Tested on (mm/dd/yy)

Comtech TCS PSAP Test Plan  
June 16, 2016

1	PSAP Vendor makes first inbound NG9-1-1 trunk to PSAP busy or ports are disabled from gateway. A 9-1-1 test call is initiated via a Comtech TCS line. Note: this step repeated for each NG9-1-1 trunk into PSAP, until all trunks are down.	In-bound calls will route via second or next trunk being tested NG9-1-1 trunk to PSAP, PSAP Operator validates communication with 9-1-1 caller and expected call data. Note: testing of all NG9-1-1 trunks is noted in actual results. All trunks must pass for this test case to pass.		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	911 test call is initiated to PSAP via a Comtech TCS Line	Call attempts to reach PSAP and is diverted to Overflow routing partner		<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	Call is routed to Alternate routing partner	Alternate PSAP operator activates a button to accept call		<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	Alternate PSAP operator verifies Telephone number populates and NRF (No Record Found appears)	CBN and NRF		<input type="checkbox"/> Yes <input type="checkbox"/> No		
5	Alternate PSAP disconnects 9-1-1 call	Ready for next Test Scenario		<input type="checkbox"/> Yes <input type="checkbox"/> No		
6	PSAP Vendor brings all NG9-1-1 trunks back to operational state	Call completed		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Comments:						

**2.3. Test Scenario 3 – PSAP Operator Calls Back a Short Duration or Abandoned Call**

Test Case Number:	Test Scenario 3
Test Case Coverage Area:	Pilot PSAP testing only (Non-Pilot State of Washington PSAPS to test features once live on NG9-1-1 system)
Test Stage:	PSAP Testing

Comtech TCS PSAP Test Plan  
June 16, 2016

Test Case:		Call tester ends call before PSAP can answer to simulate a short duration or abandoned call. PSAP then attempts to call back test caller.				
Expected Results:		PSAP operator sees abandoned or short duration call and follows existing PSAP standards and re-establishes communication with 9-1-1 caller.				
Step	Test Procedure	Expected Result/Value	Actual Result/Value	Expectation Met?	Tested by	Tested on (mm/dd/yy)
1	A 9-1-1 test call is initiated – Test Caller hangs up immediately after first ring.	Call rings to PSAP and tester hangs up before operator answers call.		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	NG PSAP operator follows short/abandon call procedure) if ALI data verifies telephone or Call Back Number (CBN) populates and valid ALI display per type of call.	PSAP can see CBN of abandoned call		<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	PSAP operator activates call back feature	N/A		<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	PSAP operator communicates with caller	The PSAP operator is able to reconnect to the 9-1-1 caller	Caller ID of PSAP:	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Comments:						

**2.4. Test Scenario 4 – NG9-1-1 PSAP Transfers a 9-1-1 Call to a Legacy PSAP**

Test Case Number:	Testing Scenario 4
Test Case Coverage Area:	Pilot PSAP testing (optional for all PSAPS)
Test Stage:	PSAP testing



Comtech TCS PSAP Test Plan  
June 16, 2016

Test Case:		NextGen9-1-1 PSAP Transfers a 911 call to a Legacy PSAP. Next Gen9-1-1 PSAP hangs up and Legacy PSAP transfers call back to NextGen9-1-1 PSAP.				
Expected Results:		The Legacy PSAP will receive the call and populate the 9-1-1 caller's information on their console. Legacy PSAP is able to transfer call back to NextGen9-1-1 PSAP and 911 callers information populates on their console.				
Step	Test Procedure	Expected Result/Value	Actual Result/Value	Expectation Met?	Tested by	Tested on (mm/dd/yy)
1	9-1-1 test call is initiated to NG PSAP via a Comtech TCS line	9-1-1 call routes to intended PSAP		<input type="checkbox"/> Yes <input type="checkbox"/> No		
1.1	NG PSAP operator accepts the call	NG PSAP operator can communicate with 9-1-1 caller		<input type="checkbox"/> Yes <input type="checkbox"/> No		
1.2	NG PSAP operator verifies Telephone number populates and NRF (No Record Found appears)	CBN and NRF		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	NG PSAP operator determines call should be transferred.	Call is determine to be out of NG PSAP boundary		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.1	NG PSAP operator selects the system transfer option and transfers the 9-1-1 caller	Transfer initiated	PSAP Transferred to: *Code used:	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.2	NG PSAP operator remains on the line for Legacy S/R PSAP operator to accept the 911 call via assisted transfer.	NG PSAP operator remains connected to transferred call		<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	Legacy S/R PSAP operator accepts NG9-1-1 call transfer	9-1-1 call is transferred to correct Legacy S/R PSAP and can communicate with NG PSAP operator and 9-1-1 caller		<input type="checkbox"/> Yes <input type="checkbox"/> No		

Comtech TCS PSAP Test Plan  
June 16, 2016

3.1	Legacy S/R PSAP operator verifies the Telephone number populates and NRF (No Record Found appears)	CBN and NRF		<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	NG PSAP operator asks Legacy operator to:  Verify they can still communicate with 9-1-1 caller, and; once Legacy Operator confirms they can still communicate with caller, to transfer call back to NG9-1-1 PSAP	NG operator instructs Legacy PSAP operator of tests to perform.		<input type="checkbox"/> Yes <input type="checkbox"/> No		
5	NG PSAP operator disconnects from call	NG PSAP disconnects and the transferred call doesn't drop		<input type="checkbox"/> Yes <input type="checkbox"/> No		
6	Legacy PSAP operator confirms he/she can still communicate with 911 caller	9-1-1 caller remains on the line		<input type="checkbox"/> Yes <input type="checkbox"/> No		
7	Legacy S/R PSAP operator selects the system transfer option and transfers the 9-1-1 caller to NG PSAP	Transfer initiated		<input type="checkbox"/> Yes <input type="checkbox"/> No		
7.1	Legacy S/R PSAP operator remains on the line for NG PSAP operator to accept the 9-1-1 call	Legacy S/R PSAP operator remains connected to transferred call		<input type="checkbox"/> Yes <input type="checkbox"/> No		
8	NG operator accepts 911 call transfer	9-1-1 call is transferred to correct NG PSAP and can communicate with Legacy S/R PSAP operator and 9-1-1 caller		<input type="checkbox"/> Yes <input type="checkbox"/> No		
8.1	NG PSAP operator verifies Telephone number populates and NRF (No Record	CBN and NRF		<input type="checkbox"/> Yes		

Comtech TCS PSAP Test Plan  
June 16, 2016

	Found appears)			<input type="checkbox"/> No		
9	Legacy S/R PSAP operator disconnects from call	Legacy S/R PSAP disconnects and the transferred call doesn't drop		<input type="checkbox"/> Yes <input type="checkbox"/> No		
10	NG PSAP confirms he/she can still communicate with 9-1-1 caller	9-1-1 caller remains on the line		<input type="checkbox"/> Yes <input type="checkbox"/> No		
11	NG PSAP disconnects 9-1-1 call	Call completed		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Comments:						

**2.5. Test Scenario 5 – NG9-1-1 PSAP Transfers a 9-1-1 Call to an NG9-1-1 PSAP**

Test Case Number:	Testing Scenario 5					
Test Case Coverage Area:	Pilot PSAP testing - All PSAPS - Depends on transfer partner PSAP status					
Test Stage:	PSAP testing					
Test Case:	NextGen9-1-1 PSAP Transfers a 9-1-1 call to a NextGen9-1-1 PSAP					
Expected Results:	The NG PSAP will receive the call and populate the 9-1-1 callers information on their console					
Step	Test Procedure	Expected Result/Value	Actual Result/Value	Expectation Met?	Tested by	Tested on (mm/dd/yy)
1	9-1-1 test call is initiated to NG PSAP via a Comtech TCS line	9-1-1 call routes to intended PSAP		<input type="checkbox"/> Yes <input type="checkbox"/> No		
1.1	NG PSAP #1 operator accepts the call	NG PSAP operator can communicate with 9-1-1 caller		<input type="checkbox"/> Yes		

Comtech TCS PSAP Test Plan  
June 16, 2016

				<input type="checkbox"/> No		
1.2	NG PSAP #1 operator verifies Telephone number populates and NRF (No Record Found appears)	CBN and NRF		<input type="checkbox"/> Yes <input type="checkbox"/> No		
1.3	NG PSAP #1 operator determines call should be transferred.	Call is determine to be out of NG #1 PSAP boundary		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	NG PSAP #1 operator selects the system transfer option and transfers the 9-1-1 caller to NG PSAP #2 either via *code or manual transfer	Transfer initiated	PSAP Transferred to: *Code or number used:	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.1	NG PSAP #1 operator remains on the line for NG PSAP #2 operator to accept the 9-1-1 call	NG #1 PSAP operator remains connected to transferred call		<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	NG #2 operator accepts NG911 call transfer	9-1-1 call is transferred to correct NG PSAP and can communicate with NG #1 PSAP operator and caller		<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.1	NG PSAP #2 operator verifies Telephone number populates and NRF (No Record Found appears)	CBN and NRF		<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	NG PSAP #1 operator disconnects from call	NG #1 PSAP disconnects and the call remains up		<input type="checkbox"/> Yes <input type="checkbox"/> No		
5	NG PSAP #2 confirms he/she can still communicate with 9-1-1 caller	Caller remains on the line		<input type="checkbox"/> Yes <input type="checkbox"/> No		
6	OPTIONAL: If *code exists for NG PSAP #2 to transfer back to NG PSAP	Transfer initiated		<input type="checkbox"/> Yes		

Comtech TCS PSAP Test Plan  
June 16, 2016

	#1, NG PSAP #2 to transfer back to NG PSAP #1. Else – continue to step 7.			<input type="checkbox"/> No		
6.1	NG PSAP #1 operator accepts NG9-1-1 call transfer	9-1-1 call is transferred to correct NG PSAP and can communicate with NG PSAP #2 operator and caller		<input type="checkbox"/> Yes <input type="checkbox"/> No		
6.2	NG PSAP #1 operator verifies Telephone number populates and NRF (No Record Found appears)	CBN and NRF		<input type="checkbox"/> Yes <input type="checkbox"/> No		
6.3	NG #2 operator drops off the call	NG PSAP #2 disconnects and the transferred call doesn't drop		<input type="checkbox"/> Yes <input type="checkbox"/> No		
6.4	NG #1 operator drops off the call	Call completed		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Comments:						

**2.6. Test Scenario 6 – Establish Communications among the PSAP Call Taker, 9-1-1 Caller, Third-Party Service Provider from PSAP Equipment**

Test Case Number:	Test Scenario 6
-------------------	-----------------

Comtech TCS PSAP Test Plan  
June 16, 2016

Test Case Coverage Area:	All PSAP Testing					
Test Stage:	PSAP Testing					
Test Case:	Establish communications among the PSAP call taker, 9-1-1 caller, third party service provider from PSAP equipment					
Expected Results:	Enables PSAP call taker to establish conference sessions with other entities as required. The PSAP call taker initiates a conference session. The PSAP call taker will stay on the line with caller and dispatcher to assist the caller and the dispatcher.					
Step	Test Procedure	Expected Result/Value	Actual Result/Value	Expectation Met?	Tested by	Tested on (mm/dd/yy)
1	9-1-1 test call is initiated to PSAP by via a Comtech TCS line	Call routed to PSAP		<input type="checkbox"/> Yes <input type="checkbox"/> No		
1.1	PSAP operator receives the call	PSAP operator communicates with 9-1-1 caller		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	PSAP operator chooses conference call option	PSAP system provides conferencing option		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.1	PSAP operator initiates call to another entity outside PSAP system	PSAP system indicates conference call		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.2	PSAP operator verifies second entity answers and that the first caller and other entities can hear each other	PSAP operator verifies communication has been established with additional entity		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.3	PSAP operator places call on hold via workstation	Verifies remaining two parties can still talk to each other		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.4	PSAP operator rejoins the call and places original caller on mute	Verifies that caller cannot hear the PSAP operator and 3rd party		<input type="checkbox"/> Yes <input type="checkbox"/> No		

Comtech TCS PSAP Test Plan  
June 16, 2016

2.5	PSAP operator re-engages with all callers and ends the call	PSAP operator confirms communication has been re-established between all parties		<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	PSAP operator verifies conference call displays in call records	Details of the call reflect in the PSAP system call record log		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Comments:						

**2.7. Test Scenario 7 – Validate \* Codes/ 1-Button Transfers/Manual Transfers**

Test Case Number:	Test Scenario 7					
Test Case Coverage Area:	All PSAP Testing					
Test Stage:	PSAP Testing					
Test Case:	Validate * codes/ 1-button transfers					
Expected Results:	PSAP pressed each star code programmed on its CPE and call either transferred to another PSAP and/or to a non PSAP entity such as Poison Control. Will note each star code programmed for PSAP and which PSAP and/or non PSAP entity call reached when star code pressed.					
Step	Test Procedure	Expected Result/Value	Actual Result/Value	Expectation Met?	Tested by	Tested on (mm/dd/yy)
1	9-1-1 test call is initiated to PSAP via a Comtech TCS Line	Call routed to PSAP		<input type="checkbox"/> Yes <input type="checkbox"/> No		
1.1	PSAP operator receives the call	PSAP operator communicates with 9-1-1 caller		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	PSAP Operator presses star code # for	Call transferred to correct star code transfer point		<input type="checkbox"/> Yes		

Comtech TCS PSAP Test Plan  
June 16, 2016

				<input type="checkbox"/> No		
3	PSAP Operator presses star code # for	Call transferred to correct star code transfer point		<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	PSAP Operator presses star code # for	Call transferred to correct star code transfer point		<input type="checkbox"/> Yes <input type="checkbox"/> No		
5	PSAP Operator presses star code # for	Call transferred to correct star code transfer point		<input type="checkbox"/> Yes <input type="checkbox"/> No		
6	PSAP Operator presses star code # for	Call transferred to correct star code transfer point		<input type="checkbox"/> Yes <input type="checkbox"/> No		
7	PSAP Operator performs manual transfer using 7-digits	Call transferred to correct transfer point		<input type="checkbox"/> Yes <input type="checkbox"/> No		
8	PSAP Operator performs manual transfer using 10-digits	Call transferred to correct transfer point		<input type="checkbox"/> Yes <input type="checkbox"/> No		
9	PSAP Operator performs manual transfer using 11-digits	Call transferred to correct transfer point		<input type="checkbox"/> Yes <input type="checkbox"/> No		
10	Optional: PSAP Operator performs manual transfer using 8 and 12-digits ***Only applicable, if PSAP requires 9 to get outside line***	Call transferred to correct transfer point		<input type="checkbox"/> Yes <input type="checkbox"/> No		
11	Verify DTMF Pass through on Transfer / Conference	Transfer / Conference to 3 <sup>rd</sup> party agency that uses IVR option system (TSP, Language Line) and confirm that PSAP operator can navigate menu with DTMF tones		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Comments:						



--

## 2.8. Test Scenario 8 – Validate Policy Routing (Alternate Condition)

Test Case Number:	Test Scenario 8					
Test Case Coverage Area:	All PSAP Testing					
Test Stage:	PSAP Testing					
Test Case:	Validate Alternate Routing					
Expected Results:	PSAP will enable Alternate and overflow routing					
Step	Test Procedure	Expected Result/Value	Actual Result/Value	Expectation Met?	Tested by	Tested on (mm/dd/yy)
1	ESInet Provider disables State of Washington connection to PSAP	In-bound calls will enter overflow mode		<input type="checkbox"/> Yes <input type="checkbox"/> No		
2	9-1-1 test call is initiated to PSAP via a Comtech TCS Line	Call attempts to reach PSAP and is diverted to Alternate routing partner		<input type="checkbox"/> Yes <input type="checkbox"/> No		
3	Call is routed to Alternate routing partner	Alternate PSAP operator activates a button to accept call	PSAP reached:	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.1	Alternate PSAP operator verifies Telephone number populates and NRF (No Record Found appears)	CBN and NRF		<input type="checkbox"/> Yes <input type="checkbox"/> No		
4	Alternate PSAP disconnects 9-1-1 call	Call completed		<input type="checkbox"/> Yes <input type="checkbox"/> No		

Comtech TCS PSAP Test Plan  
June 16, 2016

5	ESInet Provider places PSAPs state of Washington connections back to normal.	Call routes to the intended PSAP – PSAP Operator/Vendor verifies calls over NG-1-1 trunks		<input type="checkbox"/> Yes <input type="checkbox"/> No		
6	911 Tester places test call to verify NG9-1-1 trunks all back in order	Call routed to PSAP		<input type="checkbox"/> Yes <input type="checkbox"/> No		
Comments:						

### 3. Additional Validation Tests for the PSAP Post Call through Testing

#### 3.1. Validate Recording Capabilities

Test Case Number	PSAP System Capability Test Scenario #1
Test Case Coverage Area:	PSAP CPE Only
Test Stage:	Recommended Additional PSAP System Tests
Test Case:	Validate Recording Capabilities
Expected Results:	Obtain test session information to verify recording functions properly post state of Washington transition
Comments:	

#### 3.2. Validate Logging Capabilities

Test Case Number	PSAP System Capability Test Scenario #2
Test Case Coverage Area:	PSAP CPE Only
Test Stage:	Recommended Additional PSAP System Tests
Test Case:	Validate Logging Capabilities
Expected Results:	Obtain test session information to verify recording functions properly post state of Washington transition
Comments:	

## 4. Back-Out Procedure for PSAPs

Test Case Number:	Back Out Procedure		
Test Case Coverage Area:	All PSAPs		
Test Stage:	PSAP testing does not Pass		
Test Case:	Backing out of cut over to NG9-1-1 system		
Expected Results:	It was identified prior or during testing that: a) PSAP did not meet all of their requirements for testing B) a wireless carrier did not meet all their requirements to complete testing or C) calls are not routing and/or data not available as expected. Comtech TCS logs a pre-Go Live trouble ticket to document trouble(s) encountered during testing.		
Step	Test Procedure	Expected Result/Value	
1	Do all parties agree that PSAP can go live?	<input type="checkbox"/> Yes – <b>Proceed to step 9</b> <input type="checkbox"/> No – <b>Proceed to step 2</b>	
2	Do PSAP, Comtech TCS and Vendors agree that a roll back to the Legacy S/R is required or is there an outstanding issue keeping the PSAP from going live?	<input type="checkbox"/> Rollback to Legacy S/R. <b>Proceed to step 3</b> <input type="checkbox"/> Network stays up, but outstanding issues keep from going live. <b>Proceed to step 5</b>	Describe issue keeping PSAP from going live:
3	CPE Vendor begins roll back at PSAP	Disconnects state of Washington DS-1 connections	
4	CPE Vendor will remove the trunk cables from the state of Washington gateway devices and reconnect CPE Trunk cards to the Legacy S/R	Vendor completes manual (and or virtual) change of the trunks	
5	In conjunction with Step 2, state of Washington provider will enable routes to the Legacy S/R (Hairpin method)	9-1-1 calls are being sent to the Legacy S/R	
6	9-1-1 test calls are initiated to PSAP to ensure legacy S/R path is functioning	Call received at PSAP, each trunk line is validated	
7	Comtech TCS notes outstanding issue and creates an	Assignment of trouble for resolution. Incident #	Comtech TCS to send test results document to all

Comtech TCS PSAP Test Plan  
June 16, 2016

	incident ticket		parties noting the current PSAP status.
8	Once outstanding issues have been resolved, Incident ticket is closed.	PSAP is cleared to go live.	Describe steps taken to resolve issues:
9	PSAP is now live on state of Washington	Comtech TCS to send go-live notification	
Comments:			

## 5. Summary of Test Results and PSAP Testing Sign-Off

Summary of Test Results for (Name, county and state of PSAP tested):			
Total number of test calls made:			
Test Execution Completion Initial/Date:	<input type="checkbox"/> PASS	Test Host:___ _____	Date:_____ _____
Test Date:	<input type="checkbox"/> FAIL	Test Reviewer:___ _____	Date:_____ _____
Go-Live Date:			

<b>PSAP Authority:</b>	
Signature:	Date:
Company:	

<b>TCS Client Services Manager:</b>	
Signature:	Date:
Company:	TCS

<b>Test Host:</b>	
Signature:	Date:

---

Company:	TCS
----------	-----

## **6. SAP Star (\*) Code Attachment(s)**

From state of Washington and/or PSAP Vendor (required attachment if PSAP chooses not to test all their star codes)