



AEAA Wireless 9-1-1 Trial

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Enhanced Wireless 9-1-1

Interconnection to

Provincial E9-1-1 Service

Why Are We Participating

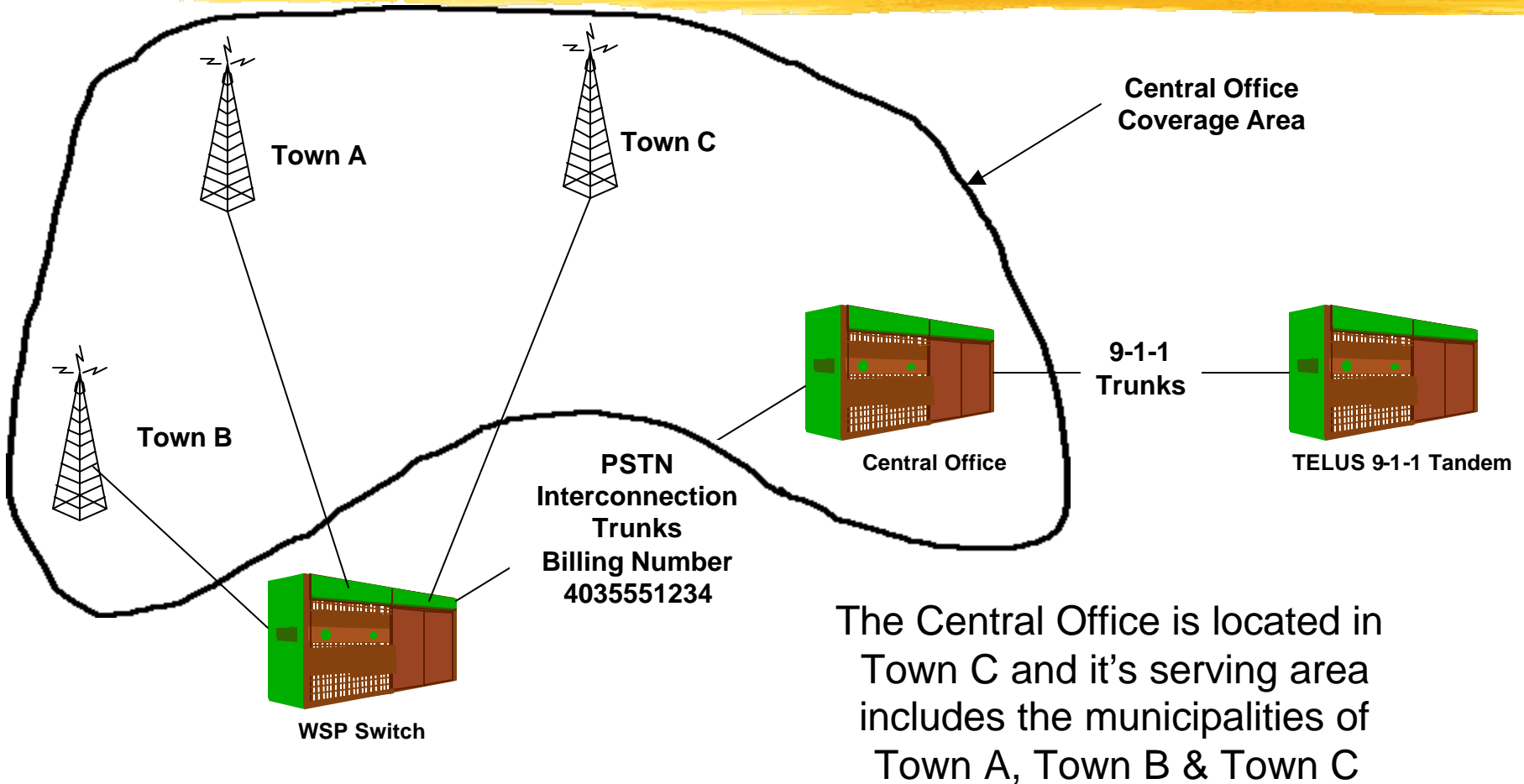
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- ⌘ Increasing complaints from PSAPs about problems encountered when dealing with wireless 9-1-1 calls
- ⌘ Two issues kept coming Up
 - ☑ Routing of the 9-1-1 call to the correct PSAP
 - ☑ Lack of information about the caller's location
- ⌘ Trial was an opportunity to work with all parties at a local level to address these problems

Routing to the Correct PSAP

- ⌘ Interconnection between the wireless network and the TELUS PSTN network occurs at a central office
- ⌘ No relationship exists between the cell site coverage area and the central office coverage area where the interconnection takes place
- ⌘ This results in the call being delivered to the PSAP responsible for calls originating within the central office coverage area not necessarily the PSAP responsible for calls within the cell site coverage area

Current Wireless Interconnection to the Provincial 9-1-1 System



Where Is the Caller?

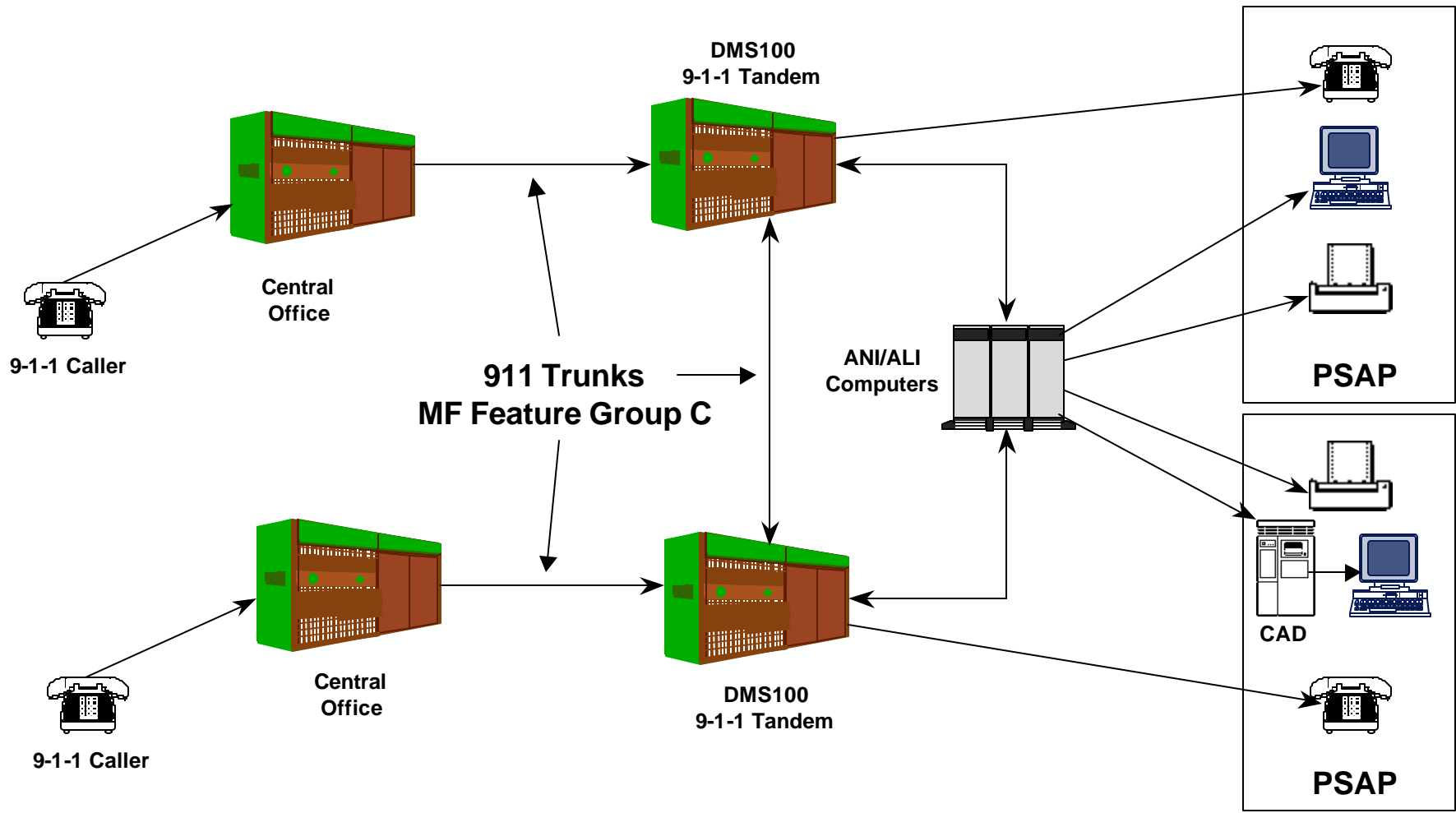
- ⌘ Presently the 9-1-1 call taker receives the following information when dealing with a wireless 9-1-1 call

```
○ (403)555-1234 CELL ○  
○ WSP Name ○  
○ TELUS CO ○  
○ SA COMMENT: ○  
○ ESZ: 10110 SOMEWHERE CITY OF SOMEWHERE ○  
○ SOMEWHERE FD (403)555-1235 ○  
○ SOMEWHERE POLICE (403)555-1236 ○  
○ SOMEWHERE EMS (403)555-1237 ○  
○ 1998/03/27 11:02:59 TEST911PSAP 4902 ○  
○ TELUS (403)555-1000 ○
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Typical Real Time Printer Output

- ⌘ In some cases the location information may be misleading as it is tied to the billing number for the PSTN interconnection trunk group

Provincial E9-1-1 Network (Alberta)

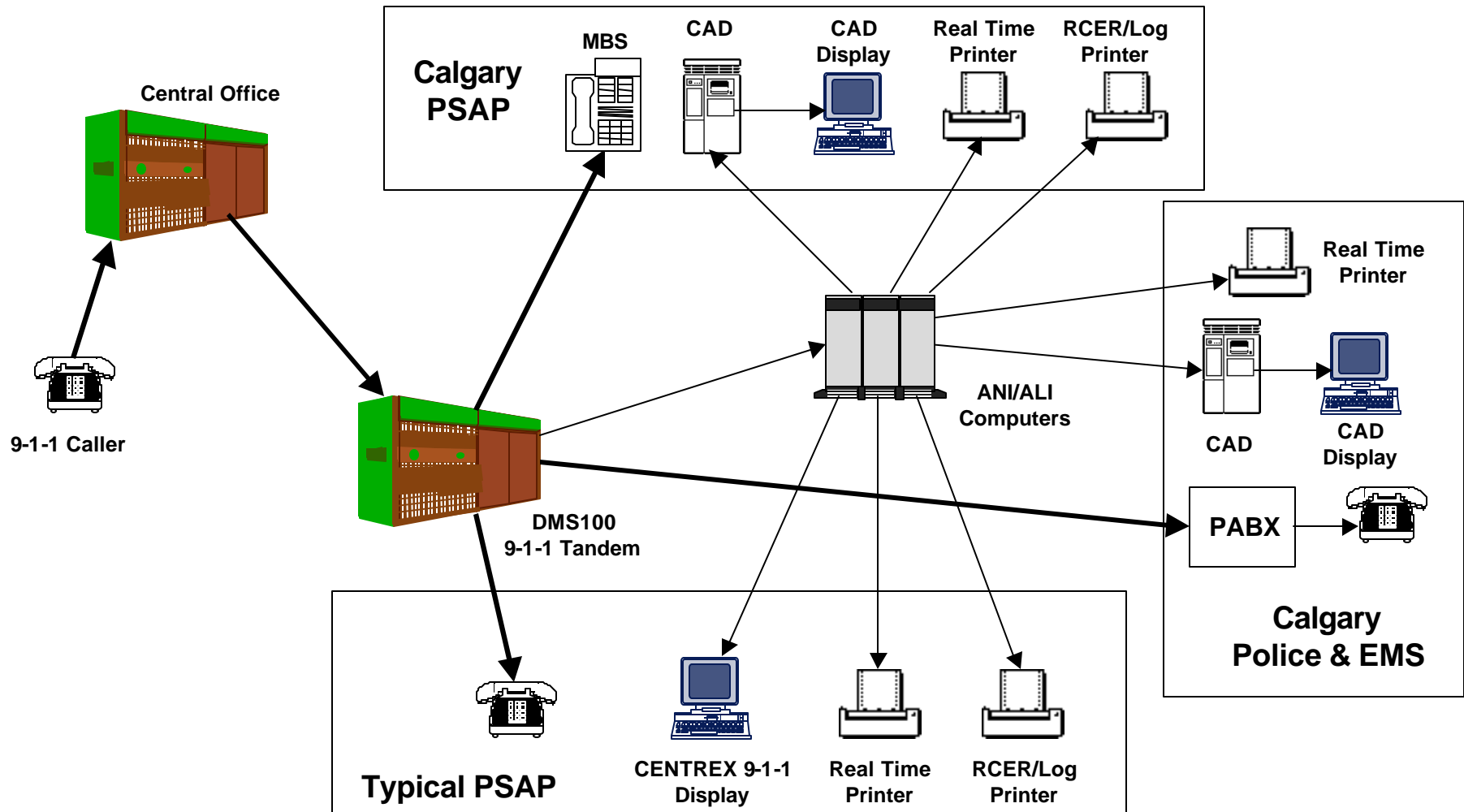


Provincial 9-1-1 Features

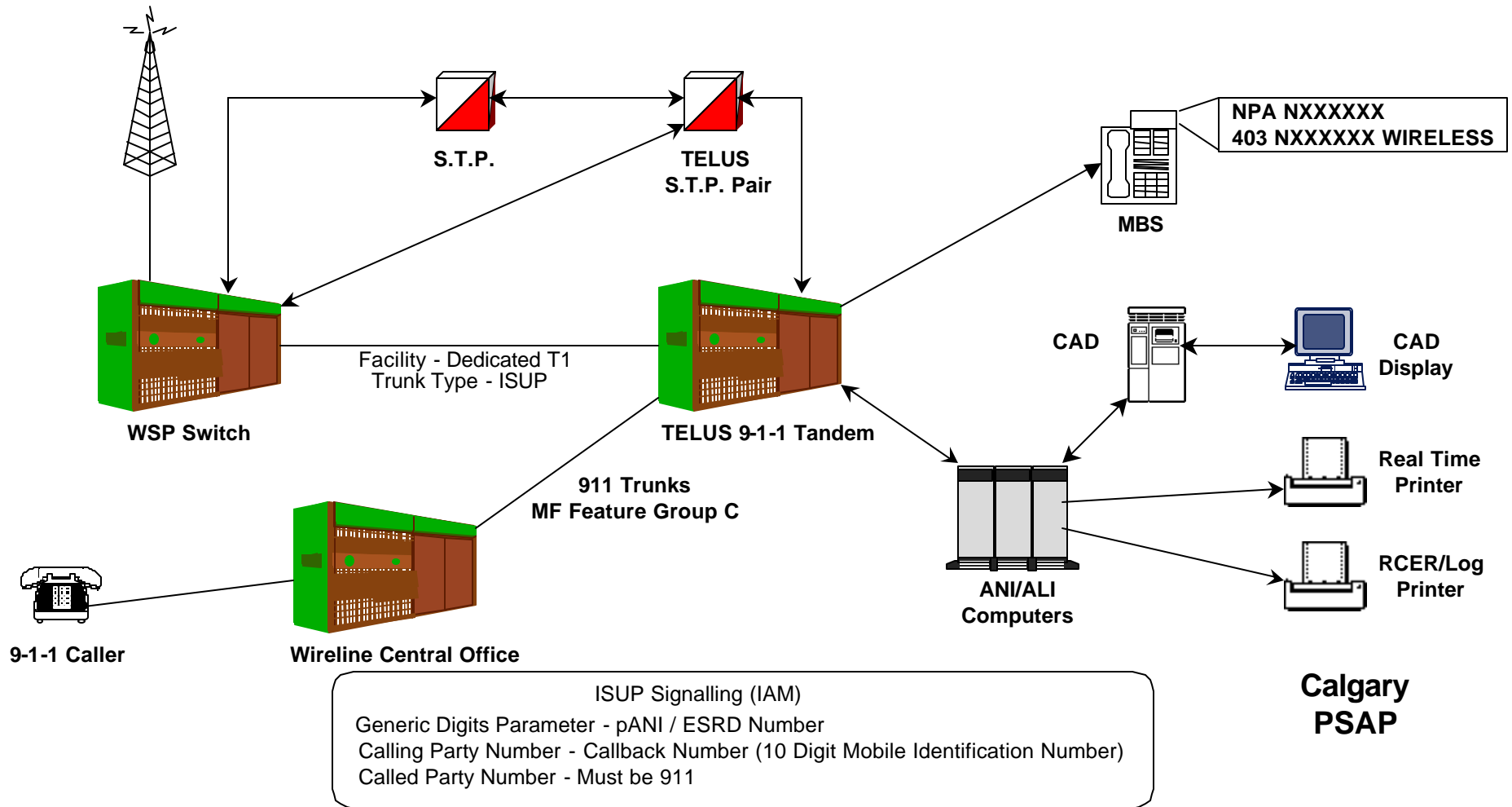
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- ⌘ Called Party Hold
- ⌘ Ringback
- ⌘ Calling Party Switch Hook Status
- ⌘ Forced Disconnect
- ⌘ ANI/ALI
- ⌘ Selective Call Routing

PSAP Configurations (Alberta)



Wireless 9-1-1 Trial Interconnection



Wireless Trial Configuration

- ⌘ 9-1-1 interconnection achieved using CCS7 signalling
- ⌘ CCS7 signalling allows for the transport of both the pANI (ESRD) and the 9-1-1 caller's call back number
- ⌘ pANI (ESRD) used to link cell site / sector to an Emergency Service Zone (ESZ)
 - ☑ The relationship between cell site / sector to ESZ is established by PSAP and WSP
- ⌘ ESRD records provided by the WSP are entered into the 9-1-1 system by TCI

Trial Notes

- ⌘ pANI (ESRD) numbering used in the trial was supplied by TELUS Communications
- ⌘ No intertandem 9-1-1 calls in the trial
- ⌘ Callback number appears on
 - ☒ The 9-1-1 call taker's telephone set
 - ☒ RCER (Log) printer
- ⌘ pANI (ESRD) is treated as the ANI and is delivered on the CAD, RCER (Log) and Real Time printer interfaces
- ⌘ No additional fields were added to the 9-1-1 system to support the trial

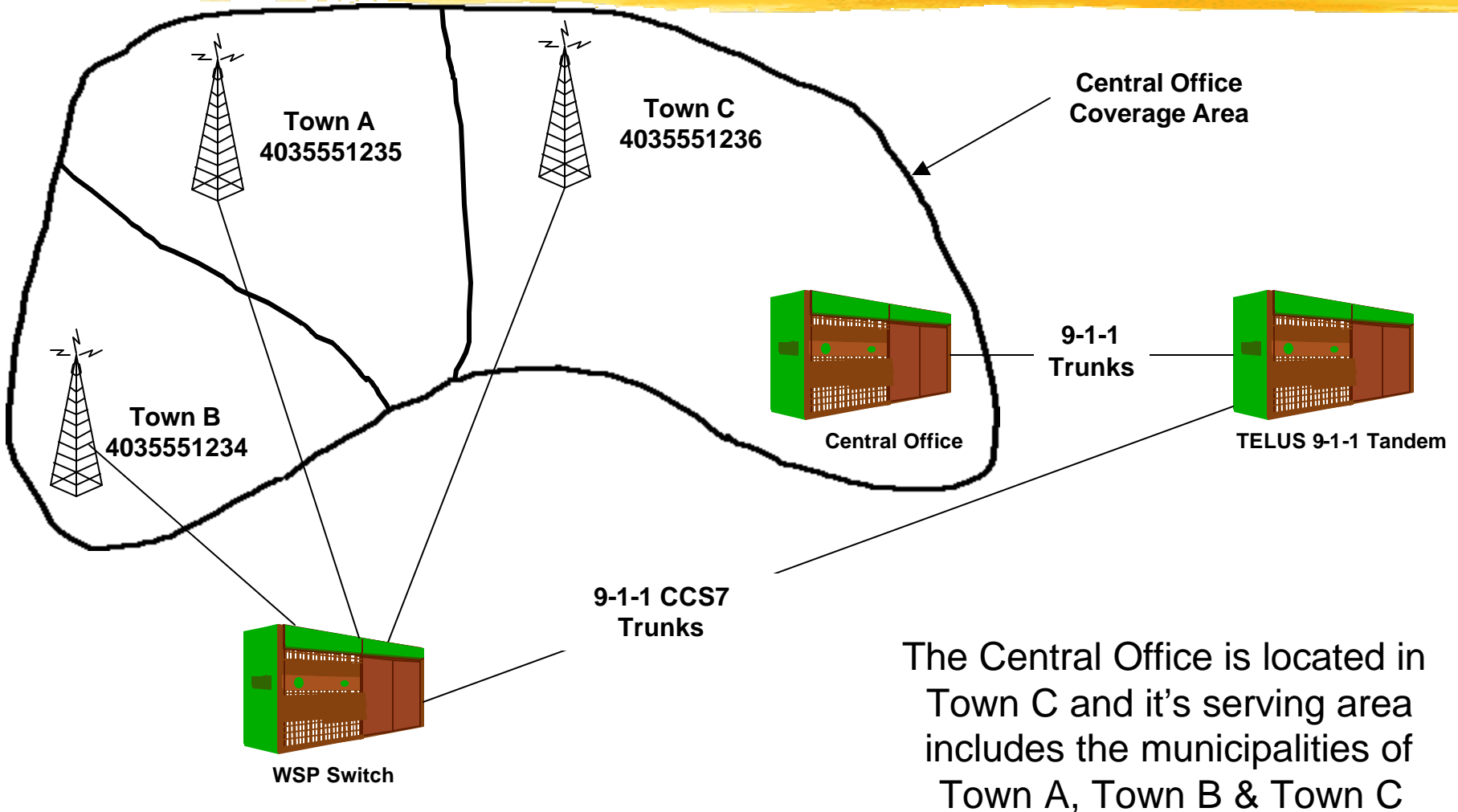


pANI (ESRD) Record

Field	Entry
ESRD	4035551234
Customer Name	WIRELESS (123 MAIN ST) NORTHWEST 41/42
Apt Number	
Hse Number	123
Hse Suffix	
Street Name	MAIN
Street Type	ST
Street Vector	NW
ESZ	10110
Wireless Carrier Name	XYZ CELL
Wireless Carrier Phone	4035551000

CALGARY/RURAL	M.D. OF ROCKYVIEW
CALGARY FD	(403)555-1235
RED DEER RCMP	(403)555-1236
CALGARY EMS	(403)555-1237

Routing Using pANI (ESRD)



The Central Office is located in Town C and it's serving area includes the municipalities of Town A, Town B & Town C

Where is the Caller Now?

⌘ RCER (Log) printout for wireless 9-1-1 calls

<input type="radio"/>		<input type="radio"/>
<input type="radio"/>	(403)555-1234 ESRD CALLBACK: (403)204-7000	<input type="radio"/>
<input type="radio"/>	WIRELESS (123 MAIN ST) NORTHWEST 41/42	<input type="radio"/>
<input type="radio"/>	123 MAIN ST NW	<input type="radio"/>
<input type="radio"/>	SA COMMENT:	<input type="radio"/>
<input type="radio"/>	ESZ: 10110 SOMEWHERE CITY OF SOMEWHERE	<input type="radio"/>
<input type="radio"/>	98/03/27 4035551234 E911ACD 4901 9900 11:05:13 11:05:14 11:05:16 11:05:35	<input type="radio"/>
<input type="radio"/>	5551234 E911FIRE 11:05:24	<input type="radio"/>
<input type="radio"/>	XYZ CELLULAR (403)555-1000	<input type="radio"/>

⌘ Location information is more accurate but still covers a large area

⌘ Time printout with the call back number