

North Central Texas Council of Governments

P25 Regional Overlay System Project

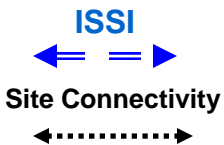
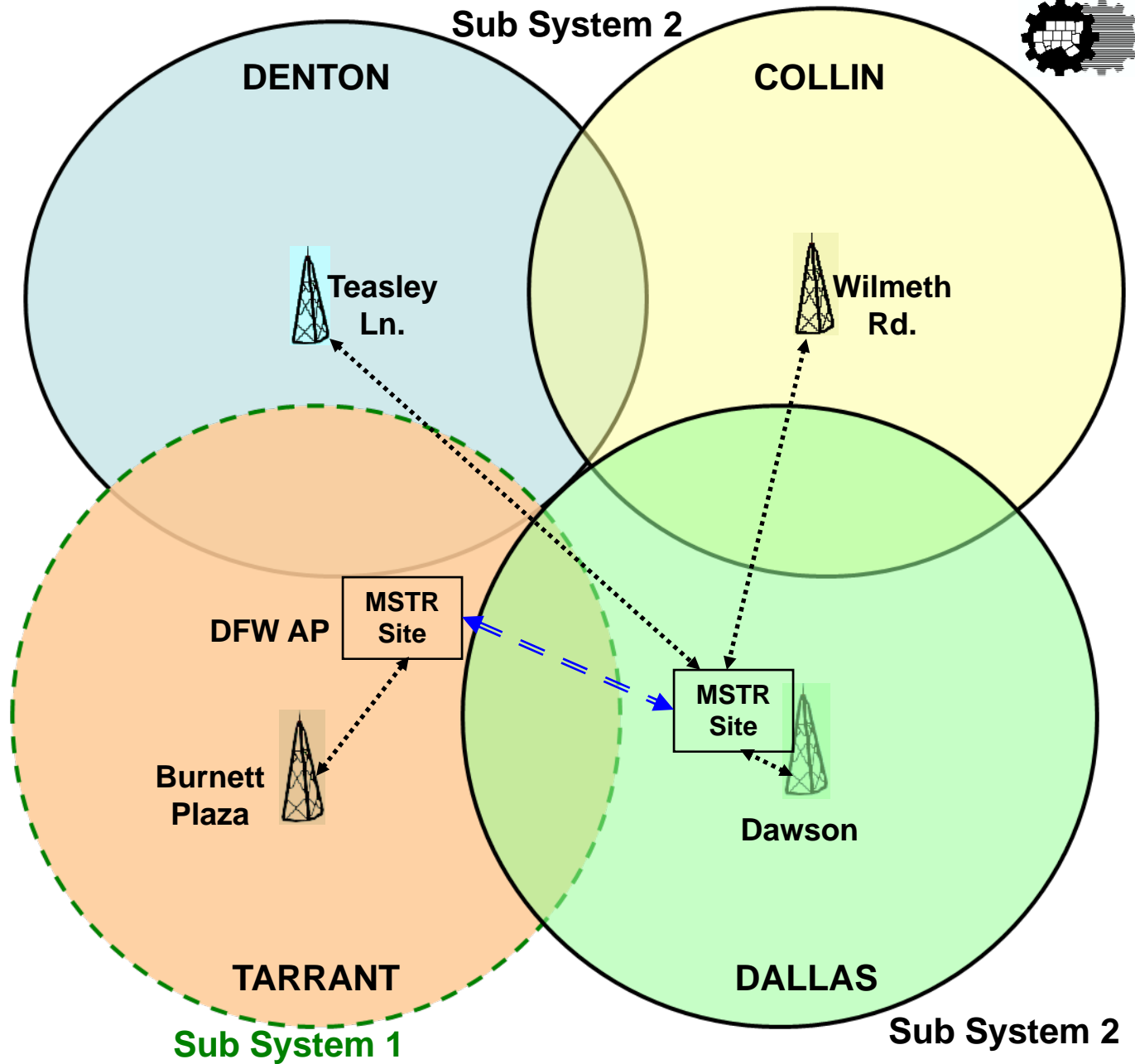
Talkgroup Configuration &
System Operation
March 18, 2010



**NCTCOG P25
700 MHZ
TRUNKED
OVERLAY
SYSTEM**

**FOUR TRUNKED
SITES AND TWO
MASTER SITES**

**Sub System 1 &
Sub System 2
Connected via
the ISSI**





RECOMMENDED TALKGROUP NAMES NCTCOG P25 OVERLAY SYSTEM



- **Naming and Allocation of Talkgroups Is Influenced By The Capability of the Overall System**
 - **Automatic Roaming Between SS1 and SS2 IS NOT SUPPORTED** by the Initial ISSI Application – “Manual Roaming” Must Be Used
 - **Automatic Roaming for Units Operating in the SS2 Service Area is Supported**
- **Two Classification of Talkgroups Will Be Available**
 - **Local Talkgroups – to be used for incidents that are localized to the coverage area of a particular site**
 - **Regional Talkgroups – to be used when area wide communications is required – Two Or More Sites Can Be Active**



RECOMMENDED TALKGROUP NAMES NCTCOG P25 OVERLAY SYSTEM



- **Local Talkgroups**
 - **Denton County**
 1. NCTDEN-A
 2. NCTDEN-B
 3. NCTDEN-C
 4. NCTDEN-D
 5. NCTDEN-E
- **Local Talkgroups**
 - **Dallas County**
 1. NCTDAL-A
 2. NCTDAL-B
 3. NCTDAL-C
 4. NCTDAL-D
 5. NCTDAL-E

- **Local Talkgroups**
 - **Collin County**
 1. NCTCOL-A
 2. NCTCOL-B
 3. NCTCOL-C
 4. NCTCOL-D
 5. NCTCOL-E
- **Local Talkgroups**
 - **Tarrant County**
 1. NCTTAR-A
 2. NCTTAR-B
 3. NCTTAR-C
 4. NCTTAR-D
 5. NCTTAR-E

Local Talkgroups Will Be Used When Responding To An Incident Served By An Individual Site & Where No Regional Coordination is Necessary. **RECOMMENDATION:** All Units That Plan To Use The Overlay System Should be Programmed With All Local Talkgroups



RECOMMENDED TALKGROUP NAMES NCTCOG

P25 OVERLAY SYSTEM



➤ Regional Talkgroups SS1 Resident Units

- For Use by Units Located in the Burnett Plaza Coverage Area

1. NCTRG-A1
2. NCTRG-B1
3. NCTRG-C1
4. NCTRG-D1
5. NCTRG-E1 (And so on for additional TGs)

➤ Regional Talkgroups SS2 Resident Units

- For Use by Units Located in the Coverage Area of the Dallas, Collin & Denton Sites

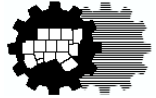
1. NCTRG-A2
2. NCTRG-B2
3. NCTRG-C2
4. NCTRG-D2
5. NCTRG-E2 (And so on for additional TGs)

All Units That Plan to Utilize the System Should Be Programmed With Both Sets of Regional Talkgroups.

Regional Talkgroups Will Be Used When Coordination is Necessary And Involves More Than One Service Area I.E., Involves More Than One P25 Overlay Trunked Site



Mobile Radio Unit Integration



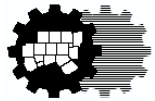
Talkgroup Configuration P25 Overlay System

LOCAL TALKGROUP “Zone” or “Personality”	
NCTDEN-A	Denton County
NCTDEN-B	
NCTDEN-C	
NCTDEN-D	
NCTCOL-A	Collin County
NCTCOL-B	
NCTCOL-C	
NCTCOL-D	
NCTDAL-A	Dallas County
NCTDAL-B	
NCTDAL-C	
NCTDAL-D	
NCTTAR-A	Tarrant County
NCTTAR-B	
NCTTAR-C	
NCTTAR-D	

REGIONAL TALKGROUP “Zone” or “Personality”
NCTRG-A1
NCTRG-A2
NCTRG-B1
NCTRG-B2
NCTRG-C1
NCTRG-C2
NCTRG-D1
NCTRG-D2
_1 Designation is for SS1 located units
_2 Designation is for SS2 located units



Tentative Timeline for Implementation NCTCOG P25 Overlay System



MAJOR TASKS	SUB SYSTEM 1	SUB SYSTEM 2
Execute Contract	March 2010	Completed
Finalize Talkgroups	March 2010	March 2010
Begin FCC Licensing	March 2010	March 2010
Complete Design Review	April 2010	Completed
Equipment Manufacturing/Staging	April 2010	March 2010
Order Trunked Site & ISSI Circuits	May 2010	April 2010
Trunked Equipment Ships	August 2010	June 2010
Trunked Equipment Installation	September 2010	August 2010
Trunked System Optimization & Testing	October 2010	September 2010
ISSI Installation and Optimization	October 2010	September 2010
Trunked System Functional Acceptance Testing	November 2010	October 2010
System Coverage Acceptance Testing	November 2010	October 2010
Network Testing Trunked System & ISSI	December 2010	December 2010
System Accepted	December 2010	December 2010