Presentation Topics

» Scope and History

» Projects Updates

» System Statistics

» Shared Facility Update

» Upcoming Request for Council Action
Old Systems

» Antiquated
» Low Capacity
» Low Reliability
» Poor Coverage
» Poorly Maintained
Consolidated System

» Modern

» Ultra-High Capacity
  > Room to Share

» Incredibly Reliable

» Dramatically Improved Coverage

» Enhanced Security with Voice Encryption

» Well Maintained
Consolidated System

» RCA Approved – October 2008
  > $132.3 million contract value

» Increased Coverage (16 to 48 sites)
» Increased Capacity (5X)
» Increased Reliability through redundancy
» Increased Interoperability

Safety of First Responders and the Public They Serve
Coverage Testing

[Images of a control room with people working on computers, and scenes of emergency vehicles and a person in a car reading a newspaper]
Coverage Testing

Public Safety
*M3 Coverage Test*

Portable On-Street

- Passed
- Failed
- Inaccessible

Grids Tested: 8,623
Grids Failed: 2
Tested & Passed: 99.98%
Coverage Testing

Public Safety
M3 Coverage Test

Portable On-Street
Downtown

- Passed
- Failed
- Inaccessible

Grids Tested: 217
Grids Failed: 0
Tested & Passed: 100%
Coverage Testing

Public Safety
*M3 Coverage Test*
Random Buildings

- Passed
- Failed
- Inaccessible
- No Building

Grids Tested: 4,003
Grids Failed: 41
Tested & Passed: 99.0%
Coverage Testing

Public Safety
M3 Coverage Test
Random Buildings
Downtown

- Passed (132)
- Failed (0)
- Inaccessible (2)
- No Building (84)

Grids Tested: 132
Grids Failed: 0
Tested & Passed: 100%
Required Buildings

» HFD & HPD identified 147 buildings that needed to have coverage no matter what

» 147 buildings = more than 550 structures

» 10 structures failed to meet the 95% coverage requirement

» City-wide 43 structures tested required some type of remediation
  > Average cost per square foot of $0.61/ft²
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Fire Code Changes

» Working for several years on Houston specific changes to the Fire Code

» Vetted with Industry over last several years

» December 2015 – City enacted 2012 Fire Code

» Working on processes with Fire Marshal
  > New Construction
  > Existing Buildings
Downtown Tunnels

» Agreement with Cellular consortia in August 2012
» Individual Agreements with each Building Owner
» Phase 1 Completed November 2015
» Projected Completion - April 2016
Scope and History

Projects Updates

System Statistics

Shared Facility Update

Upcoming Request for Council Action
System Statistics

» 1.2 million Push-To-Talks per week

» 63 million Push-To-Talks per year

» 31 partner agencies

» 559 total Talk groups

  > HPD = 93
  > HFD = 57
  > City = 109 (includes PS duplicated)
  > Interoperability = 60
  > Partners = 240
Monthly Top Ten Talkgroups 2016

<table>
<thead>
<tr>
<th></th>
<th>WESTSIDE</th>
<th>CFISD PD1</th>
<th>CENTRAL</th>
<th>NORTHWEST</th>
<th>PAPD PAT1</th>
<th>S. CENTRAL</th>
<th>NORTH</th>
<th>SOUTHWEST</th>
<th>SOUTHEAST</th>
<th>NORTHEAST</th>
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<tbody>
<tr>
<td>Feb. Total PTTs</td>
<td>57,258</td>
<td>61,474</td>
<td>62,144</td>
<td>68,591</td>
<td>68,673</td>
<td>70,548</td>
<td>73,428</td>
<td>74,217</td>
<td>77,533</td>
<td>82,800</td>
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<td>Jan. Total PTTs</td>
<td>57,013</td>
<td>58,018</td>
<td>63,351</td>
<td>64,738</td>
<td>68,092</td>
<td>71,301</td>
<td>73,785</td>
<td>74,202</td>
<td>76,037</td>
<td>83,300</td>
</tr>
</tbody>
</table>
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Shared Facility

» October 2012 - Executed an Interlocal Agreement with Harris County for the construction of a shared Radio Facility
  > All costs and ownership rights split 50/50
  > Purchased property from HAS at 2318 Greens Road
  > Joint Design and Construction led by Harris County
  > Estimated Cost/Initial budget $5,410,000.00

» October 2013 – Executed 1st Amendment to increase Total Budget by $1m (Split 50/50)

» April 2015 – Executed 2nd Amendment to clarify insurance terms
Service Bay
Network Operations Center
Scope and History

Projects Updates

System Statistics

Shared Facility Update

Upcoming Request for Council Action
April 2016 – Request Approval for 3rd Amendment to enact provisions and guidelines for shared services

- Planned Shared Services
  - Drive up Customers
  - Equipment/Parts
  - Procurement
- Requires establishment of proper controls and audits
- Reconciliation at least quarterly or if $100k limit is reached

April 2016 – Request Approval to establish spending authority for Operations & Maintenance of facility ($50K)

- Requesting recommendation of approval for upcoming agenda items
Questions

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HITS Deputy Director
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