

# Maximizing Spectrum Efficiency On Shared Channel Assignments

With EWA's New e-Advisory



Enterprise  
Wireless  
Alliance®

# Who We Are



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# Background of New e-Advisory

- Originated from discussions in 2012-13 within Land Mobile Communications Council about Best Practices for Analog-Digital Frequency Coordinations
- Relevant for 150 MHz – 512 MHz
- EWA's Goal: identify potential issues associated with sharing frequencies with different system use technologies, objectives, and operating practices

# Background of New e-Advisory

- Arose from concerns about licensee transitions to more advanced technologies, from analog to digital
  - Boost awareness about fundamental system operational requirements
  - Improve post-licensing channel use expectations
- Applicable for both Public Safety and Industrial/Business
- e-Advisory was launched May 13, 2014

# What Is The New e-Advisory?

- Standard email from EWA, sent following transmission of certified application to the FCC
- Identifies basic license parameters which trigger obligations per FCC rules
  - Emission Designator, Station Class, Radio Service
  - Applicable FCC Rules for Station Identification, Shared Spectrum, Channel Monitoring, Secondary Use
- Includes link to request Channel Sharing Report

# Value of a Channel Sharing Report

- Provides critical details about licensee's shared spectrum environment
  - Incumbent operator: name and call sign
  - Incumbent system parameters:

Distance to  
applicant

Emission  
Designator

Analog or  
Digital

Trunked or  
Conventional

Private or  
Carrier

# Why Should I Care?

- Shared frequency use environments are now the norm, dependant upon:
  - Incumbent system loading
  - Distance
  - Network technologies and radio applications
- Achieving maximum spectrum efficiency requires knowledge of:
  - Analog systems sharing with digital systems, and vice versa
  - Voice systems sharing with secondary data systems, and vice versa
  - Trunked systems sharing with conventional systems
  - Private carrier systems sharing with private internal systems

# Examples of e-Advisory and Sharing Report

**From:** EWA Spectrum Solutions [Customer.Service@Enterprisewireless.org]  
**Sent:** Friday, May 16, 2014 15:00  
**To:** example@example.com  
**Subject:** e-Advisory on Spectrum Efficiency (BP001) for Example Company

**Enterprise Wireless Alliance**  
 2123 Corporate Way, Suite 215 | 17790 Executive Road, Suite 8010  
 Herndon, VA 20171 | Rowanburg, MD 21127  
 800-400-4100  
[www.Enterprisewireless.com](http://www.Enterprisewireless.com)  
[www.SpectrumEfficiencyWorkshop.com](http://www.SpectrumEfficiencyWorkshop.com)

**Applicant/Licensee:** Yyyy Yyyy  
**Agent/Service Provider:** Xxxx Xxxx  
**EWA Log Number:** 20140508155133  
**FCC File Number:** 0006288492

**System Description** - EWA has submitted the above application to the Federal Communications Commission (FCC) for license processing which will authorize the operation of a conventional radio system.

If this description is inconsistent with actual operational system expectations in any form, then changes to the following critical system-defining parameters reported within the application may be necessary to realize system performance expectations and to comply with FCC Rules and Regulations:

- IG Radio Service - Industrial/Business, Private Conventional System
- Emission Designator(s)
  - 7K60FXD - Digital Data
  - 7K60FXE - Digital Voice
- Station Class(es)
  - FB2/MO
  - MO

Frequency(s) is shared with other co-channel systems.

If any of the above system characteristics need to be changed, please contact EWA as soon as possible. Additional FCC filing and EWA frequency coordination fees may be incurred.

EWA will inform you when the FCC issues this license, and will also advise you should an FCC Construction Notification (Schedule K) need to be filed, which provides the FCC with a necessary confirmation that the authorized system is operational.

**Applicable FCC Rules** - The following FCC Rules are applicable to this system operation:

**Station Identification** - "... each station or system shall be identified by the transmission of the assigned call sign during each transmission or exchange of transmissions, or once each 15 minutes during periods of continuous operation."  
 [FCC Rule Section 90.425]



e-Advisory Example.pdf

**Enterprise Wireless Alliance** Channel Sharing Report - Summary

**APPLICANT:** [REDACTED]  
**EWA LOG ID:** 20140508155133  
**FCC File Number:** [REDACTED]  
**System Parameters:** Conventional Radio System  
**Radio Service Code:** IG  
**Station Class Code(s):** FB2/MO,MO  
**Emission Designator(s):** 7K60FXD,7K60FXE  
**Radius for this report (km):** 80.00  
**Report Date:** 5/16/2014  
**Assistance or Questions?** [FAQ and EWA contact details](#)

Site	Location	Latitude	Longitude	# of Records
Location 1,2	341 S Sappington Rd	38-34-38.8 N	090-23-16.5 W	9
Location 3	St Louis, MO	38-34-38.8 N	090-23-16.5 W	71



ChanShaRpt Example.pdf



# Questions & Answers

- References:
  - Fun facts: [EnterpriseWireless.org/Resources/SpectrumEfficiency](http://EnterpriseWireless.org/Resources/SpectrumEfficiency)
  - FCC Rules, Part 90: [goo.gl/rPuqRV](http://goo.gl/rPuqRV)