



Arab States Broadcasting Union
League of Arab States

Session 1 : Interference Sources

(Intentional & unintentional)

Satellite TV Broadcasting in The Arab Region

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PRESENTATION OUTLINE

- **THE ARAB REGION TV SATELLITE LANDSCAPE**
- **SATELLITE COVERAGE FOR THE ARAB REGION**
- **SATELLITE INTERFERENCE**
- **WHO IS WORKING ON INTERFERENCE ISSUES ?**
- **WHAT IS BEING DONE ABOUT INTERFERENCE ISSUES ?**



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THE ARAB REGION TV BROADCAST LANDSCAPE

The Middle East and North Africa Television landscape has seen major developments during the last decade fuelled by strong population growth and socio-economic developments.

The Arab region with over 86 million households & over 350 million inhabitants, a young population with increasingly discerning and rapidly evolving TV preferences has strong demand and consumption for TV broadcasting.



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THE ARAB REGION TV BROADCAST LANDSCAPE AND THE ASBU

- ◎ High committee for Arab Satellites Channels
 - Membership includes all Arab Satellite Channels
 - ASBU is the secretariat of the committee

- ◎ Annual Report on Arab Satellite Broadcasting:
 - Aims to provide a clear picture on how satellite broadcasting is developing in the region.
 - Shows statistics on number of channels, date of creation, their categories, type of broadcasting, geographical coverage & languages used, etc.



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Figures and Facts

End of Year	Total # of channels	Public	Private	%
2010	733			
2011	1096	109	967	+46%
2012	1320	168	1052	+23%



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SATELLITE COVERAGE FOR THE ARAB REGION



The 1320 channels are using 17 satellites to cover the Arab Region but mainly : Arabsat, Nilesat, Noorsat, Eutelsat and Yahlive





SATELLITE COVERAGE FOR THE ARAB REGION

Factors that contributed to the increase of the number of satellite channels:

- Technological compression advancements providing affordable & low cost solutions for satellite transmission, production & delivery broadcast equipment.
- Use of one language, Arabic, to target all the Region eliminating to a greater extent the states' monopoly of broadcasting.
- The recent Arab volatile political situation with strong demand for the Arab viewers to follow & be part of it.



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SATELLITE INTERFERENCE

- As the satellite communication technology evolves Satellite networks are increasingly subject to radio frequency interference from variety of ground transmitters.
- The satellite industry loses millions of dollars per year due to cases of interference and a great deal of manpower has to be given over to discovering its causes.
- It is often unintentional, resulting from different scenarios such as operational mistakes, pointing inaccuracy or pointing to a wrong satellite, cross polarisation optimisation issues, carrier saturation and intermodulation interference, equipment malfunctions & terrestrial interference sources, etc.



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SATELLITE INTERFERENCE

Radio frequency interference is caused by:

- Human Error (90% according to Intelsat).
- Bad installation
- Lack of training
- Poor equipment or System design
- Lack of adherence to industry standards & guidelines



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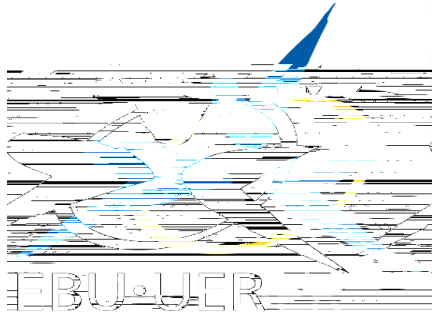
WHO IS WORKING ON INTERFERENCE ISSUES ?

- The Satellite Interference Reduction Group –IRG
- Global Vsat Forum - GVF
- World Broadcasting Union – International Satellite Group
WBU - ISOG
- International Telecommunication Union - ITU
- Satellite Operators
- Broadcasters



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WHAT IS BEING DONE ABOUT INTERFERENCE ISSUES?





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THANK YOU