Spectrum Monitoring
Requirements and Workflow

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Outline

➢ Purpose of Monitoring System
➢ Efficient Monitoring System
➢ Interface to Management System
➢ Workflow of measurement request
Purpose of Spectrum Monitoring System

Environment

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Workflow of measurement request

Spectrum Management System
1. Create Measurement Request
2. Transfer Request
3. Receive Report
4. Evaluate Results (all manually)

Voice, Paper
Measurement Request
Phone, FAX, Order Sheet

Measurement Result
Phone, FAX, Report Sheet

Spectrum Monitoring System
1. Take over Request
2. Set Devices
3. Measure automatic / interactive
4. Evaluate Results
5. Create Report (all manually)

Workflow of measurement request

Spectrum Management System
1. Create Measurement Request
2. Send E-Mail
3. Receive E-Mail
4. Evaluate Results (all manually)

E-Mail
Measurement Request
Order Sheet

Measurement Result
Report Sheet, Attachment

Spectrum Monitoring System
1. Take over Request
2. Set Devices
3. Measure automatic / interactive
4. Evaluate Results
5. Create Report (all manually)
Workflow of measurement request

Spectrum Management System
1. Create Measurement Request
2. Send Request
3. Receive Result
4. Evaluate Results (automatic)

Data packet, data stream

Interface

Measurement Request

Data packet

Spectrum Monitoring System
1. Take over Request
2. Set Devices
3. Measure automatic / interactive
4. Evaluate Results
5. Create Report (automatic)

Workflow of data request

Spectrum Management System
1. Take over Request
2. Collect requested data
3. Create Report
4. Send Report (automatic)

Data packet

Interface

Data Request

Data packet

Data Report

Spectrum Monitoring System
1. Create Request (Frequency List, Transmitter List, License Data)
2. Receive Report
3. Evaluate Report (automatic)
Efficient Monitoring System

Spectrum Management System

Automatic processing

Automatic, processing

Spectrum Monitoring System

Automatic processing

Benefit

- Measurement request will be immediate processed
- Measurement results are immediately available for Spectrum Management Operator
- Less stuff requirement
- Regular procedure can run automatically
Measurements on TV Transition

Pre Transition Phase
- Check frequency ranges foreseen to clear up

During Transition Phase
- Measure transmitter data according to license
- Measure coverage, to verify planning data
- Check frequency range to prevent interference

After Transition Phase
- Measure transmitter according to license (Level, MER, Mask)

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Measurements on TV Transition

- Measure coverage, to verify planning data

Measure transmitter according to license (Level, MER, Mask)
Measurements on TV Transition

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Any Questions

Thank you for your attention

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