

IRG Members with Products to Reduce Interference

CID Transmission

At this stage, an identifier is injected into the carrier by the modulator and transported over satellite below the noise. IRG members with products at this stage of the process include:



CID Detection

Once CID has been transmitted, the next piece of the puzzle is being able to read the ID. A number of companies have launched detection tools, including:



VSAT Interference

Tools to solve VSAT interference are available from:



Monitoring & Geolocation

Solutions available from:



CID - The Facts and Dates

Here is a roundup of what you need to do and when:

Effective Now:

- CID should be included now in ALL Requests for Proposal for SCPC and MCPC video and data.
- CID that meets the ETSI standard in ALL new modulators purchased for video uplinking.
- ALL Satellite Operators should start the transition to use Carrier ID for ALL customer uplink transmission services.

By 1st June 2016:

- CID required by FCC for ALL SNG transmissions in USA.

By December 31st 2017:

- CID to be activated on ALL SCPC and MCPC video and data transmissions.

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Your Handy Guide to Interference Reduction

www.sating.org

Combating Interference

Carrier ID

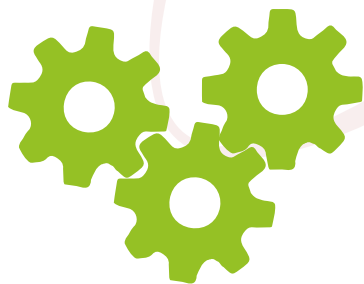
Here's how to ensure you are CID Ready:

Satellite Operators

If you are a Satellite Operator, you will need to have begun the transition to Carrier ID by now. You will need the capability to decode CID in your monitoring system. Also make sure your customers are enabling CID in their transmission equipment.

Manufacturers

If you are a manufacturer and have not yet integrated Carrier ID, we can help you understand the technology and we can help setup all-important testing once you have a completed product. Please get in touch with us by emailing info@satirg.org



Users

For the users, the task of transitioning to CID should be the easiest of all:

1. Check that your transmission equipment has CID. You can review the list on our website (<http://satirg.org/>) or ask your manufacturer or integrator;
2. Require CID when ordering new systems;
3. Check with your manufacturer how to enable CID on those products;
4. Tell your Satellite Operator you will be enabling it;
5. Turn it on!



Tools for VSAT

VSAT interference is one of the most difficult to solve, not least because of the challenging, remote environment they are often operated in. However, it is responsible for around 40% of interference instances and accounts for around 60% of service impact.

Tools have been developed, specifically for the VSAT environment, including a GSM Demodulation Tool, to help identify GSM rebroadcast interference. For more information please email cid@eutelsat.com. Also Verisat produces 'SATGuard' which can identify the VSAT terminal(s) causing cross-pol and ASI interference. Contact mail@verisat.no for more information.

Monitoring

Quite simply, better monitoring means less interference and there are a number of good solutions out there to help you do just that.

Training

The other way to combat interference is to ensure the people operating satellite equipment have an appropriate level of training. The Global VSAT Forum (GVF) runs a Training Program for the satellite industry, more details here - <https://gvf.org/index.php/training/training.html>

Our End Users Initiative Advisory Committee has worked with GVF to produce our own course, specifically tailored to the broadcast environment. The certification ensures that uplink operators are properly trained, enabling them to reduce transmission errors. More information on the training and providers can be found here - www.satirg.org/training-certification

To access a wide range of relevant resources, please visit <http://data.satirg.org>

