

HITS BOXED SITES

HIGH INTEGRITY TELECOMMUNICATIONS SYSTEM

HITS Factsheet No. 4, Version 4, January 2010

WHAT IS BOXED HITS?

The majority of HITS Sites will be installed with a permanent VSAT (Very Small Aperture Terminal) antenna which will provide the satellite connection to the HITS network. This is the preferred method as there is no repeat set up required and HITS can be permanently ready for use.

However, not all of the HITS Hybrid Sites can suitably accommodate a VSAT antenna (mainly for planning permission reasons, or line-of-site to the Skynet 5 satellites). The HITS team has therefore made an alternative "Boxed Kit" solution available for these sites. A permanent terrestrial connection will still be provided along with the necessary electronics, but the satellite connection will instead be provided by a Swe-dish CCT120 portable VSAT. The Boxed Kit must be set up before a connection to the satellite can be made, but the equipment has been chosen for its user-friendly qualities and provides a satellite connection to those sites where a permanent radome or antenna cannot be installed. The Swe-dish CCT120 is self-orienting so will be able to connect to the satellite itself once positioned correctly and powered up. The Boxed Kit will need to be deployed to an open area near to the building and offices, such as a car park. It can operate in most conditions including rain and snow, but is more vulnerable to high winds than the permanent VSAT antenna.



HOW TO USE

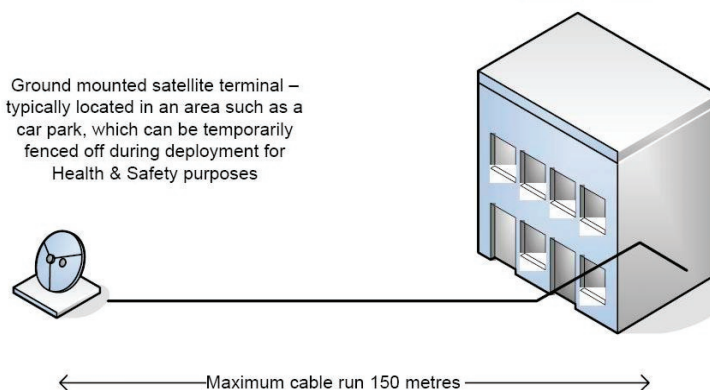
The HITS Boxed Kit is shown in the image above in a typical configuration for use. The "dish" is composed of four composite "petals" and the whole assembly can be broken down into 3 or 4 boxes. Once users on-site are familiar with the equipment it should take approximately 15 minutes to set it up. An external power source will be required, so the Boxed Kit will still need to be plugged into the mains (or your generator if there is a power cut). The equipment will also need to be cordoned-off when in use for health and safety reasons, as the VSAT will emit x-band radio signals.

It should also be noted that the Boxed Kit will only need to be set up if the HITS terrestrial connection to a Boxed Kit site is unavailable. The Boxed Kit requires a permanent installation of HITS electronics at its site to connect to HITS.

The Transportable elements of the HITS network will also use the Swe-dish CCT120 - for more information please see HITS Factsheet 5.

SETUP

The diagram below shows how the Boxed Kit will typically be deployed:

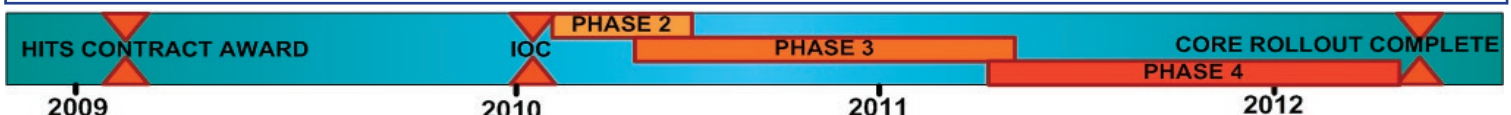


FURTHER INFORMATION

Please visit the HITS website for more details: www.cabinet-office.gov.uk/HITS

If you have any questions please contact the HITS Team at HITS@cabinet-office.x.gsi.gov.uk

WHEN? HITS will be developed and tested during 2009, with IOC (Initial Operating Capability) at the end of the year. Full rollout of HITS should be complete by mid 2012.



For the latest version of this factsheet, please contact the HITS Team via email on: HITS@cabinet-office.x.gsi.gov.uk