

Intelsat possesses the world's most extensive and secure satellite communications network. Engineers design, test and operate space and ground assets exceeding industry standards. Intelsat leverages its engineering expertise and ground network to provide the most flexible in-orbit testing services.

Intelsat Satellite Services:

In-Orbit Testing (IOT) Services

Services Available

- IOT slot identification
- Regulatory coordination
- Lease of IOT equipment
- Lease of IOT antenna
- Generation of test plan
- Execution of test

Prior to providing service to our customers on newly launched satellites, Intelsat engineers are tasked with ensuring the payload meets spacecraft contractual requirements. Our engineers use their technical expertise and Intelsat ground assets to conduct in-orbit testing (IOT) as efficiently and effectively as possible. In addition to testing its own satellites, Intelsat provides in-orbit testing services directly to satellite manufacturers. As an operator, Intelsat understands the importance of bringing new satellites into service as quickly as possible. Our engineering expertise and global IOT ground network provide an extraordinary amount of value to any IOT campaign. Customers have the flexibility to outsource the entire IOT to Intelsat, or just a portion of the IOT (such as regulatory coordination or the leasing of the network). Intelsat can set up firewalls to prevent having access to customer IOT data.

The Intelsat IOT Network

- Automated measurement stations located around the world
 - > Equipment already configured and tested
 - > C, Ku and BSS bands
- Portable in-orbit testing system can be easily installed at an Intelsat or customer designated facility
- Ka-band IOT testing capability using transportable antenna that can be easily installed at IOT testing site
- Single site or simultaneous multiple site IOT testing

Intelsat IOT Engineers

- Intelsat engineers have performed IOT for more than 50 Intelsat and third party missions
- Intelsat engineers can find an optimal IOT location and coordinate testing time with adjacent satellite operators

Remote IOT Testing Capability

- Execution of all tests can be performed remotely from Intelsat headquarters in Washington, DC or any customer designated location

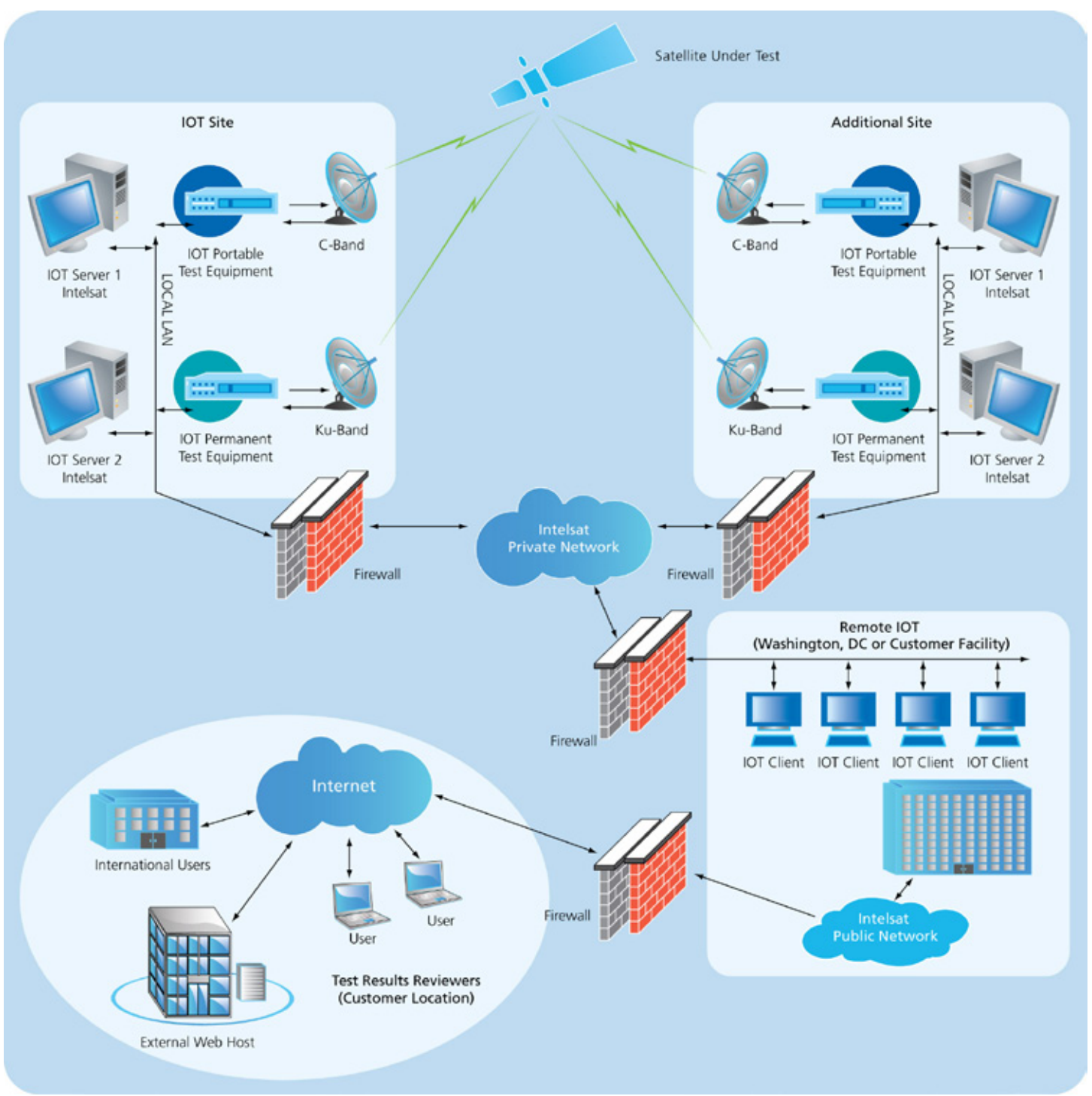
IOT Testing Activities

- Generation of testing schedule (Test Plan)
- Test rehearsal
- Execution of test
- IOT test report generation
- Management of IOT network resources

Benefits

- Shortened test time
- No travel required
- Reduction in non-recurring costs
- Increased accuracy of results

Intelsat IOT Network



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