N ACS™

Auto Configuration Server

NTELS Auto Configuration Server (ACS) is a globally compatible IoT platform based on the standard of Broadband Forum (BBF).

The platform consists of N-ACS™ that manages device firmware, configuration and profile, N-Sentinel™ that monitors resources, and N-IMC™ that manages users and services. These systems interwork and communicate with each other using RESTful APIs to control devices for IoT services in a wide range of networks.

IMC   ACS   Sentinel

ACS Platform

ACS Platform is an integrated system consisting of N-IMC, N-ACS, and N-Sentinel that closely interwork with each other. Based on the TR-069 standard, the platform enables operators to easily and effectively control and monitor various Customer Premises Equipments (CPEs) in delivering IoT services.

Features

Standards-based Compatibility

- BBF-based data modeling
- Support for commercial routers
- Control using Javascript
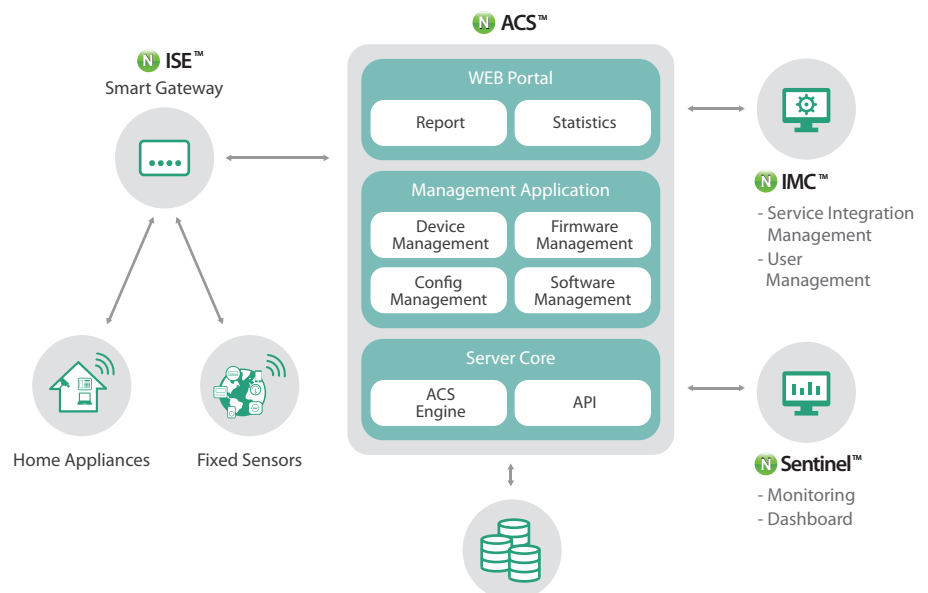- Open RESTful APIs
- STUN Server for NAT configuration

Various Means for Efficient Monitoring

- User-friendly UI
- Lightweight agent for monitoring
- Alarm notification with SMS and email
- Support for device discovery
- Support for both standard and non-standard devices

broadband forum   ACS Platform supports Technical Report 069 (TR-069) of the Broadband Forum (BBF).

Architecture

N ISE™
Smart Gateway

N ACS™

WEB Portal
- Report
- Statistics

Management Application
- Device Management
- Firmware Management
- Config Management
- Software Management

Server Core
- ACS Engine
- API

Home Appliances   Fixed Sensors

N IMC™
- Service Integration Management
- User Management

N Sentinel™
- Monitoring
- Dashboard

Creative Convergence
ntels

Integrated Device Management

Auto Configuration Server

ACS Platform Features

Flexible

Adaptive to the operational environment

Highly Functional

Integrated control of operations and service

Usable

Protocol standardization for interfacing with internal data
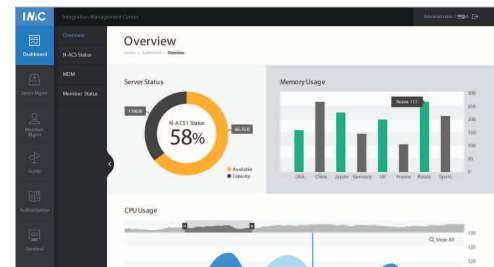
Scalable

Modular-based scalability

Reliable

Standards-based architecture

N-IMC™ : Integration Management Center

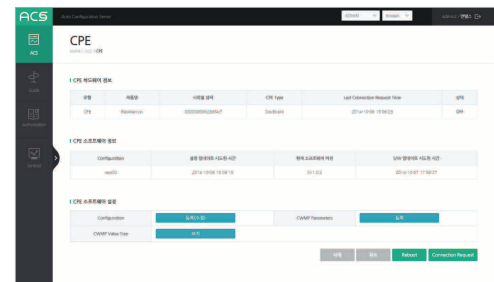N-IMC manages services and users of ACS Platform and monitors the ACS system.

- Service and user management
- Server resource monitoring
- Device registration and testing environment
- Open API testing
- Various statistics and history
- Single Sign-On (SSO) enabled

N-ACS™ : Auto Configuration Server

N-ACS auto configures devices (customer-premises equipments) and manages device firmware and applications.

- Zero touch provisioning
- Auto configuration
- Device firmware and application upgrade
- Open API testing
- Standards-based data model management
- Device data model collection
- Various statistics and history
- Single Sign-On (SSO) enabled

N-Sentinel™

N-Sentinel collects data, monitors device status, detects errors, controls processes, and determines the location of devices.

- Distributed and expanded monitoring
- Real-time monitoring
- Various means for monitoring
- Intuitive data visualization with graphs