



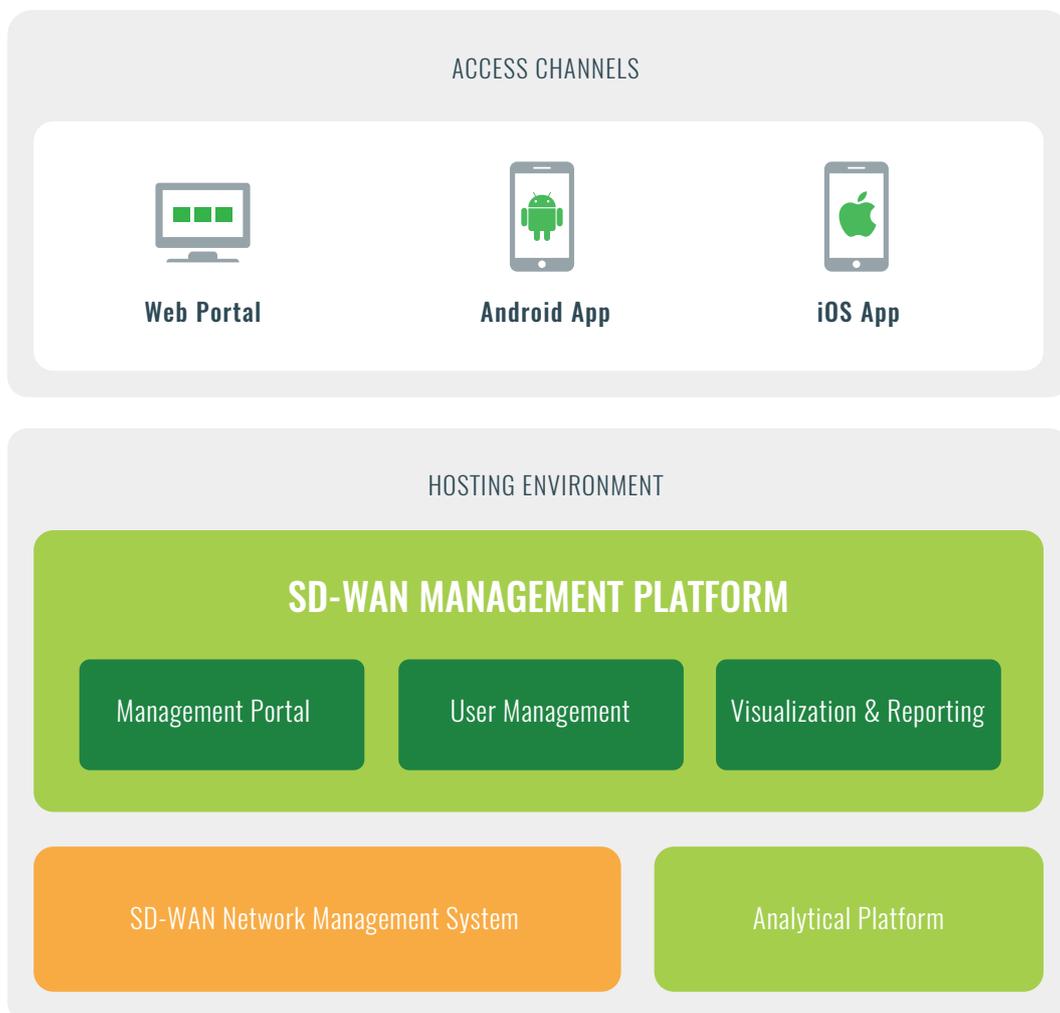
SD-WAN Manager

In the current business landscape organizations focus on solutions that allow mobility and agility. More and more mission-critical applications and services rely on network connectivity and are migrated to cloud environments. When network topologies become complex, traditional WAN architecture is not capable of fulfilling the business requirements. Software-Defined WAN or SD-WAN provides the agility and flexibility required by modern business to react to dynamic marketing changes quickly. SD-WANs act as a centralized control function to direct the traffic intelligently and securely across WANs. SD-WAN platforms open new business avenues to organizations hosting the SD-WAN Network Management System (NMS) by boarding other organizations as tenants on their SD-WAN platform.

hSenid Mobile Solutions, a leading carrier-grade platform provider with a global footprint, is pleased to introduce hSenid Mobile SD-WAN Manager. In today's business environment, user experience plays a crucial role in the success of any product, irrespective the target audience being B2B or B2C. hSenid Mobile SD-WAN Manager is a middleware platform which enhances your SD-WAN offering and ideal for those with a lack of technical expertise to interact with SD-WAN with similar efficiency as those with technological know-how.

SDWAN Manage focuses on three key enhancements:

- ▶ Enriched Tenant Hierarchy which allows going beyond traditional provider-tenant hierarchy.
- ▶ Advance Role-based access control (RBAC) allows creating various user groups with user-friendly permissions set.
- ▶ Multiple access channels and user-friendly layout to carry out your work wherever you are and whenever you want.



hSenid Mobile SD-WAN Manager Simplified Architecture

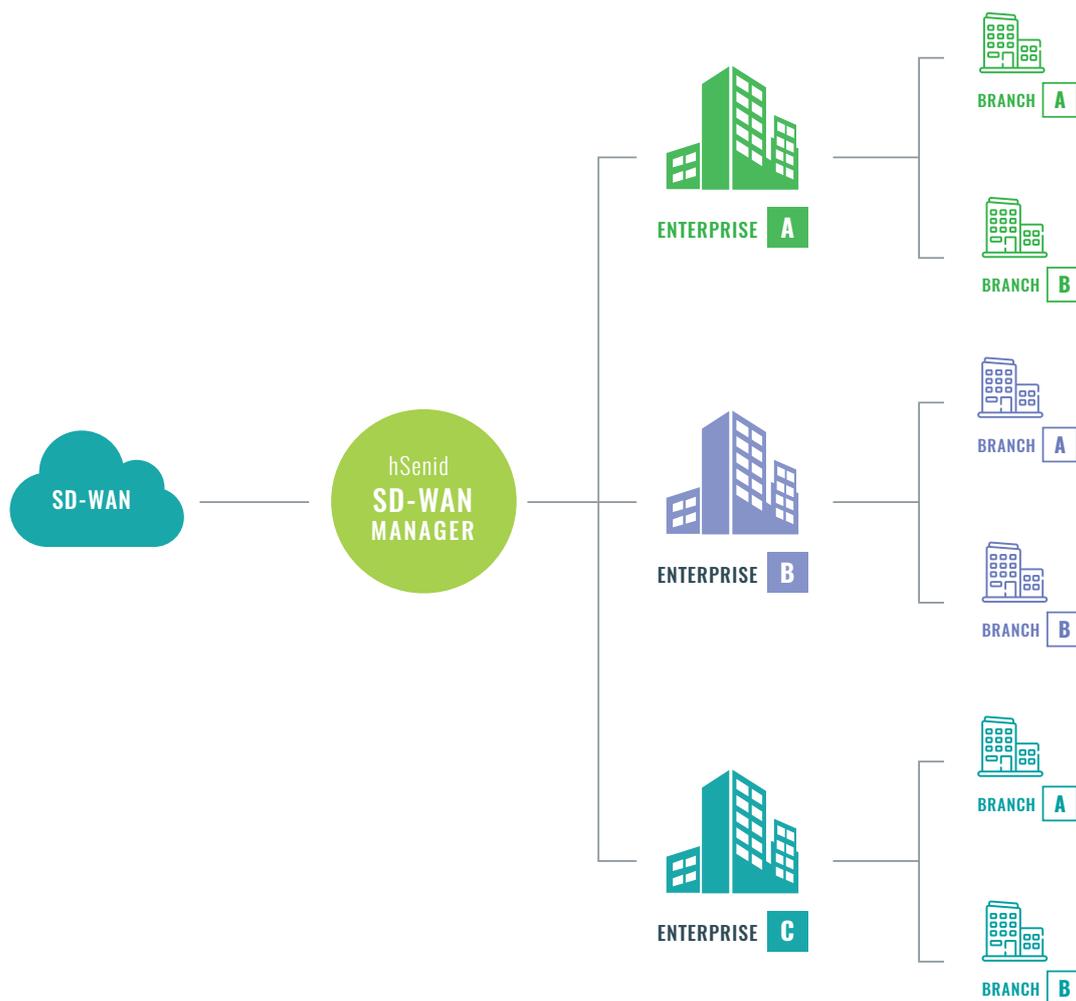
Solution Overview

hSenid Mobile SD-WAN manager is a state of the art middleware platform which allows SD-WAN NMS providers to offer more user-friendly and controlled set of information that they need to access anywhere any time. Oftentimes SD-WAN NMS native UIs could have an overwhelming collection of information which might not be extremely useful to tenants who do not have the same knowledge about underline concepts of SD-WAN NMSs. SD-WAN Manager uses SD-WAN NMS provided APIs to consumer NMS features.

hSenid Mobile SD-WAN Manager consists of following high-level features.

Enriched Tenant Hierarchy

SD-WAN Manager allows you to go beyond the SD-WAN inherited, provider- tenant hierarchy. SD-WAN Manager will enable you to the creation of branch sites – a collection of site IDs. Branch site makes it easy to manage larger organizations which have multiple sites or many smaller locations.



Advance RBAC

SD-WAN Manager offers advance Role-Based Access Control Matrix, which allows the creation of user roles as and when required. RBAC is loosely coupled with the tenant hierarchy allowing of crating users in the same group with different tenant/ branch-site access. For an example, two users from provider admin group can have access to two separate tenants allowing them to assist accounts handled by them and allowing to maintain the level of privacy and operational support managed at the same time.

Multiple Access Channels

hSenid Mobile SD-WAN Manager allows end-user to access service through multiple interfaces, including a responsive web portal and Android and iOS Apps. Access channels offer services including monitoring network element status, link statuses, link bandwidth variations, bandwidth upgrades/ downgrades and reporting.

Multi-Tenant Dashboard

SD-WAN Management platform offers simplified tenant dashboard. With the RBAC dashboard is capable of managing user view in the following modes.

- ▶ **Provider Level Dashboard** – display a summary of all tenants onboarded on the SD-WAN NMS.
- ▶ **Tenant Level Dashboard** – display a summary of all devices attached to the tenant organization.
- ▶ **Branch Site Dashboard** – display a summary of all devices attached to the branch site of the organization only.

Device Management

hSenid Mobile SD-WAN Manager equips users with the ability to view the network devices, manage the interface visibility, tracking link utilization and managing link capacities.

Inventory Features

One of the time-consuming tasks of SD-WAN network is to maintain an inventory of devices and managing site IDs, hostnames and system IPs. hSenid middleware platform allows provider organization to manage inventory effectively and in a more meaningful manner.

Event notifications and Audit Logs

SD-WAN NMSs track many alarms and event notifications. End users from tenants might not be interested in undelaying network-related events. hSenid Mobile SD-WAN manager offers a relevant subset of events/ notifications to end-user.

CR/ SR Management

Change and Service Request Management (CR/ SR Management) allow end-user organizations to raise change requests and track their progress throughout the implementation process, saving valuable time spent on the follow-ups.

Why hSenid Mobile SD-WAN Manager

hSenid Mobile SD-WAN Manager enriches the overall SD-WAN NMS offering by complimenting the generic offer in multiple ways.



Multi-Tenant Architecture allows onboarding larger clients with complex access requirements effectively. The additional level of branch sites allows granular control of permissions across the tenant organization.



Multi-Channel access allows users not to restrict to larger PC screens and carry out their work with the same mobility as other popular apps.



User Management offers SMS/ authentication app-based multi-factor authentication for added control. Self-service registration is not provided to avoid nuisance registration requests and allow Admins to invite users just by giving a few necessary user information or by bulk invite using CSV file upload.



External Analytics hSenid Mobile SD-WAN manager can be integrated to external analytical platforms such as ELK (Elasticsearch, Logstash, and Kibana) and EFK (Elasticsearch, Fluentd and Kibana) enabling advance analytics to optimize underline network resources.



Advance Security of the solution protects underline NMS by isolating NMS APIs from public access. Password policy, restricting free email domains and use of API authentication makes SD-WAN platform harder to penetrate by any intruders.

About hSenid Mobile

hSenid Mobile is a company with a proud history of 23 years of innovations and the heart of a start-up. We design and build innovative, cutting-edge technology platforms which enable the digital transformation of the businesses. Our solutions are used by leading telecommunication service providers, banking & financial institutions, and enterprises around the globe.

Why hSenid Mobile

Since 1997 we have collaborated with multiple systems across different streams and provided flexible enterprise solutions. We gained recognition across South Asia, Asia Pacific, Africa, Australia, and the USA as a partner of choice for the supply of secure, convenient and cost-effective mobile solutions. With the extension of our sales and business development strategies, our systems handle nearly 50 million transactions daily. We believe in our expertise of integrating systems using complex network protocols founded on cutting-edge infrastructure, and we will no doubt be able to transform your business opportunities into products and services for end-users.

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