

Activator Router Provisioning & Management



- Future-proof support for new devices and services
- Shorter time to bill
- Reduced service roll-out costs
- Reduced manpower requirements
- Improved service assurance levels
- Increase your level of service and revenue without increasing staff and costs.
- Multi-vendor support using TR069

Activator is a flow-through activation and provisioning system. It is designed to streamline the rollout and maintenance of the new generation of managed and semi-managed network services.

Activator consists of a management platform with licensable options and various plug-ins to provide integration capabilities and application specific functions. This makes for a highly scalable management solution that grows with the provider's service. Activator brings the attributes of high-end management to mass-market access networks, allowing new levels of service delivery to be provided.

Router Provisioning

Zero Touch Service Activation

Virtual Access has developed and patented a completely automated plug and play device provisioning solution. Using this solution, devices can be shipped directly to the customers who simply plug them into the local service. Once connected, the device automatically communicates with Activator to signal its provisioning request. When the device is configured, it reloads with the user configuration and a fully functional service. Service configuration parameters and optionally, software binaries, can be updated at provisioning time, improving service assurance levels, reducing manpower requirements, and elevating revenues without increasing costs.

Pull Technology

Device Activator

Device activation delivers configurations and software images to devices when the device first contacts Activator on your network or over the Internet.

Device activation can be invoked from the centre of the network or the margin. Whether the request comes from the device or an operator, device activation automatically deploys configuration information or software binaries when there is an auto installation or update request.

Because device activation dynamically constructs device configurations from the database, configurations are always current when they are deployed.

Push Technology

Active Updates

Managing networks of devices has traditionally been a complex and time consuming activity. Active Updates allow you to update a configuration to a device or devices on managed networks at the touch of a single button. With Activator Active Update options you can update all remote devices simultaneously.

Active Updates support bulk operations and software updates to selected groups of devices or the entire network.

Configuration Management

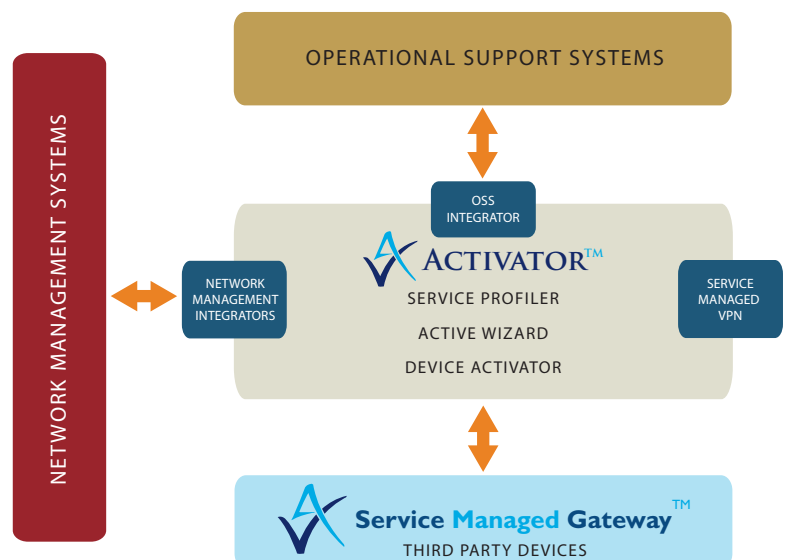
Service Profiles

Service profiles enable you to define service parameters that are common to all subscribers or a portion of subscribers. Using service profiles, you can store, organise, manipulate, and distribute configuration parameters.

Service profiles allow service modification and software updates based on the profile. Changes to the profiles are automatically propagated to subscribers that are based on the profile.

Quick Pages

Activator Quick Pages make managing profiles very easy. During service design, network specialists use the Quick Page Editor to define the fields that are common to a profile and the fields that are unique to a subscriber.



The network specialist places the unique fields on a Quick Page. Operators with basic technical training use the Quick Pages to provision managed devices. Because only the unique fields are available, operator-introduced errors are less likely.

Software and Configuration Updates

Software distribution and network configuration management utilise the Active Update feature. This provides full support for bulk operations such as changing network-wide settings and deploying these to all the devices. Updates can be scheduled to occur immediately or at a specified time in the future. Configuration parameters can be changed, software binaries updated or rolled back, even the web interface in the Virtual Access Service Managed Gateway can be changed.

Integration

OSS Integration

The OSS Integrator is a plug-in module that provides a mediation function between Activator and the service provider's Operational Support System (OSS) that allows Activator to obtain device or customer specific information from the OSS.

You can integrate Activator with an existing OSS. The OSS will populate the Quick Page for a profile. Alternatively, you can import or export the profile definitions as XML schemas to make integration with the OSS much simpler.

Network Management Systems Integration

Activator integrates with the best-of-breed management solutions for general purpose fault and status management. And because Activator uses a web-based user interface, you get maximum flexibility for console integration.

Key Activator Features

• Automatic service provisioning	• Zero-Touch and Single-Touch provisioning
• Dynamic device activation	• Dynamic service definition
• OSS integration	• NMS integration
• Internet accessibility	• Robust and resilient
• TR069 ACS implementation	

Key Business Benefits from Activator

• Future-proof support for new devices and services
• Shorter time to bill
• Reduced manpower requirements and service roll-out costs
• Improved service assurance levels
• Significant reporting facilities
• Increase your level of service and revenue without increasing staff and costs.
• Multi-vendor support using TR069

Hardware

	Minimum Requirements	Recommended Requirements
Processor	2GHz	3GHz or faster
Memory	4GB	4GB or more
Storage	200GB (no RAID), 7600RPM or better	2 x 200GB (RAID 1) and 4 x 250GB (RAID 5), 7600RPM or better
Integrated Network Card 1	Standard 10/100/1000 Base T or equivalent	Standard 10/100/1000 Base T or equivalent
Integrated Network Card 2	Not required	Standard 10/100/1000 Base T or equivalent
Power Supply	No special requirements	2 power supplies (for redundancy)

Software

Component	Description	Software Version	License Requirements
Operating System	Windows Server 2003/2008	Microsoft® Windows® 2003/2008 (32-bit)	1 server license for Windows Server
Database Software	Microsoft® SQL Server 2000/2005	Microsoft® SQL Server 2000/2005 Standard Edition	1 processor license
Application Support Software	.NET Framework 2 Note: this is usually pre-installed with OS. To verify it has been installed see Windows Administrative Tools.	2.0	None
Application Support Software	Sun Java Virtual Machine	1.5; must not be 1.6 or later	Free download