

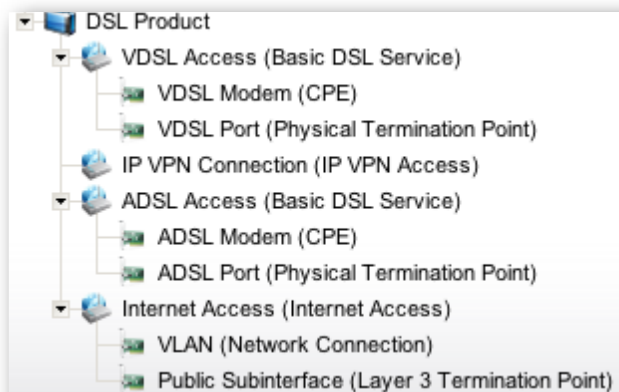
Reduce or eliminate manual provisioning steps and their associated errors  
Agile provisioning application that can work with distributed resources and process across the organization  
Quickly implement new service offers as soon as they're approved

## Service Manager allows you to create dynamic next generation service catalogs with intuitive provisioning workflows

Easy to install and operate. Rapid learning. Seamless integration using the Visionael Enterprise Service Bus. Equals fast ROI delivered.

## User defined hierarchical catalogs with reusable components

Inspired by the TM Forum SID model, Visionael Service Manager (SM) provides an open model for definition of re-usable resources, services and products. Entities and their life cycle actions are "parent agnostic" and can be wired together in hierarchies to provide rich and intuitive service offerings.

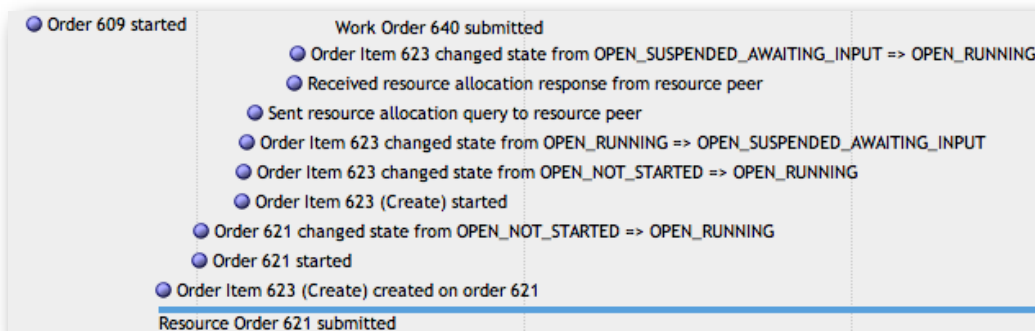


## Life cycle actions bound to level of abstraction

Catalog components, such as resources, services and products, are extended with life cycle operations that define how they may be created, updated and discontinued as part of any complex provisioning orders.

## Fine-grained business rules provide intelligent order decomposition

Life cycle actions allow for fine-grained business rules to control the propagation and logic by which orders are decomposed and handled. Metrics such as cost, SLA, delivery time, or QoS can all be taken into consideration automatically by the provisioning process leveraging user defined rule sets.



## The Visionael OSS Suite

The Visionael OSS Suite provides a full set of tools for service providers, enterprises, and system integrators facilitating automatic discovery, documentation, physical and logical resource allocation and provisioning/activation of services and network elements as well as customer specific process automation.

All products in the OSS suite are designed to work in concert or stand alone as modules of a multivendor OSS environment.



## Built for integration

All Visionael OSS Suite products, including SM, provide a rich set of APIs and SPIs on the Enterprise Service Bus (ESB). SM can be deployed with one or more Visionael products or with third-party applications to provide its robust capabilities in a shared responsibility environment.

Typical integration points include:

- CRM and order entry
- Network Inventories or resource orchestration tools (Such as Visionael NRM and Visionael Resource Orchestrator)
- Workflow engines (such as Visionael System Orchestrator)

### Easy overview of installed services and customizable order entry

Installed services and their resources can be reviewed and managed through the provisioning workspace in SM. Life cycle actions with customizable order entry processes allow service delivery organizations to carry out change management on an abstract level without the need to understand the underlying technologies.

Subscriber: Subscriber 268c0d3c-26f0-4bf3-b31e-41f44ba70812

PRODUCT ORDER ID	SUBMITTED	STATE	PRODUCT	PRODUCT SPECIFICATION	ORDER ITEMS
515	2010-03-25 13:04:37.761	CLOSED_COMPLETED	Tulae ADSL	DSL Product	1 (Create)
599	2010-03-01 12:07:17.379	CLOSED_COMPLETED	Tulae VDSL	DSL Product	1 (Create)

PRODUCT	STATE	CREATED	SERVICES	RESOURCES	SPECIFICATION
Tulae VDSL	ACTIVATED	2010-03-01 12:07:28.356	1	0	DSL Product
Tulae ADSL	ACTIVATED	2010-03-01 12:06:08.344	1	0	DSL Product

SERVICE	STATE	CREATED	RESOURCES	SUPPORTED PRODUCTS	SPECIFICATION
ADSL Service (Tulae)	ACTIVATED	2010-03-01 12:06:08.006	2	1	ADSL Access
VDSL Service (Tulae)	ACTIVATED	2010-03-01 12:07:28.036	2	1	VDSL Access

RESOURCE	STATE	CREATED	RESOURCE PEER	SUPPORTED SERVICES	SPECIFICATION
VDSL Modem Telindus X200	ACTIVATED	2010-03-01 12:07:27.503	com.visionael.vnd	1	VDSL Modem
ADSL Port 2x6	ACTIVATED	2010-03-01 12:06:06.13	com.visionael.vnd	1	ADSL Port
VDSL Port 5x5	ACTIVATED	2010-03-01 12:07:26.562	com.visionael.vnd	1	VDSL Port
ADSL Modem Cisco C600	ACTIVATED	2010-03-01 12:06:07.623	com.visionael.vnd	1	ADSL Modem

### Service Delivery feasibility checks

SM improves service delivery confidence. Other processes – even the online customer website – can check with SM to validate that the service creation is possible, such as creating a desired SLA for a specific geographical location. Timely and costly errors are reduced or eliminated.

### Robust and audible processes

SM maintains transactions during the provisioning process and will carry out explicit rollback behavior based on a cancellation, failed resource allocation or failed network activation. The process can be followed and modified by the end-user in real-time.

#### Platform and Requirements, SM Server

#### Operating Systems and Platforms:

- Sun Solaris 10
  - o Sun UltraSPARC (minimum 1 processor at 1.4GHz)
  - o Intel and AMD 32 and 64 bits processors
- SUSE Linux Enterprise Server 10
  - o Intel and AMD 32 and 64 bits processors
- Red Hat Enterprise Linux 5 server
  - o Intel and AMD 32 and 64 bits processors

#### Databases Supported:

- Oracle 10
- Oracle 11g
- Oracle 11g RAC

#### Application server

- Sun Glassfish 2.1 (Java JRE 1.6)

#### System Requirements:

- Dual core 2.6GHz (minimum)
- Memory: 3 GB (minimum)
- Disk Space: 2 GB (minimum)

#### Platform and Requirements, SM Client

#### Operating Systems and Browser:

- Any OS support ing the supported browser requirements
- Mozilla Firefox 3.5 or later.

#### System Requirements:

- 2.3GHz (recommended)
- Memory: 2 GB (recommended)

Want more information ?

Please visit us at

<http://www.visionael.com/>

### Asynchronous provisioning processes

The robust SM backend allows for asynchronous provisioning processes permitting multiple departments to interact and even allowing end-customers to enter data during the process. SM can also communicate asynchronously with third-party systems containing resource inventories.

### Enterprise Service Bus

All our API's are exposed and well documented allowing any system within your OSS environment to use data residing in our products, minimizing the integration tax.

No internal API's are used.

### OSS simplified

The Visionael OSS Suite is designed for cost-effective deployment by operators and systems integrators. Visionael OSS provides an alternative to traditional costly/time consuming solutions and a significant improvement over manual management methods.

Easy to learn, your teams can be productive in weeks not months. Integration to other systems like CRM or Order Entry is simple with our flexible Enterprise Service Bus – a set of public APIs. Fast time to value delivered. The Visionael OSS Suite is a proven solution in use by operators around the world.

Please visit our web site for additional data sheets and videos.