



PRESS RELEASE

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Operax granted two new patents to determine and allocate network resources to ensure guaranteed IP Quality of Service

Operax, the leading vendor of dynamic Resource and Admission Control solutions for IP Service Quality, today announced that it has been granted two new patents in Japan. These patents are for technology which provides a common topology view in multi-vendor networks and which allows both open-ended and time-limited reservation of network resources. These ensure the most efficient allocation of bandwidth and guaranteed Quality of Service for services such as IPTV and VoD.

The first patent describes a method for providing topology awareness information within a multi-vendor sourced IP network. It effectively allows operators with multiple network domains to accurately understand what resources and bandwidth are available. Operax's technology directly probes for resources, examining different nodes and links, as well as taking feeds from third-party solutions that are also sources of valuable network resources data. This distinct method allows information to be collated from these multiple sources and presented in a merged topology view. The patent enables the network to be built from numerous vendors' equipment but still efficiently managed from a single point of control and intelligence.

The second patent describes a method for mixing open-ended and time-limited network resource reservations. This allows not only the open-ended dedication of network resources to particular users and applications, but also time-limited resource reservations to be blended in a single approach. Time-reservations can be made on demand in real-time or established for future events enabling flexible management of resources. For example, a major live sports event broadcast on IPTV, network capacity can be reserved at the appropriate time as opposed to relying on 'best efforts' services with no explicit quality guarantees. Once released, these network resources can be redeployed to other users or applications. Meanwhile, dedicated resources can be reserved on a dedicated and permanent basis for other applications such as a home worker's corporate VPN.

These patents are commercially significant because they enable a single point of management and control for different types and durations of capacity demand in cost-effective multi-vendor networks. This allows Network Operators to multi-source and integrate their networks from multiple vendors – thus ensuring capital cost optimization – while ensuring the services carried benefit from guaranteed quality.

Olov Schelén, CTO Operax stated: "As more and more bandwidth hungry applications such as IPTV and VoD enter the mainstream, it is vital for carriers not only to understand the underlying topology of their networks but also to maximize the efficiency of their resource allocation. Operax's solutions not only afford operators the flexibility to manage their resources in real-time on a per session per user basis but also allow them to integrate and control other third party standards-based products already used in the network."

Operax standards-based products are deployable today in non-IMS and pre-IMS network architectures and permit a future-proof migration path to full IMS network architectures. Operax continues to add new patents to its extensive portfolio of intellectual property, with more than 20 granted in the area of dynamic Resource and Admission Control for Next-Generation all-IP networks.

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About the patents:



Operax patent (Japan: 4018638) A method for providing topology awareness information within an IP network.

The present invention relates to a method, a unit and a computer program product for providing topology awareness information within an IP network comprises a central node and a plurality of routers, wherein the probe is implemented in a router within said IP network and the probe belongs to a topology awareness system, that comprises: means for obtaining and maintaining relationship with other probes within the IP network, means for collecting information about other network elements e.g. routers and switches, means for communicating topology information with the central node of the topology awareness system, and means for obtaining information concerning local resources on the router where said probe is implemented.

Operax patent (Japan: 4018640) Mixing open-ended and time-limited reservations

The present invention relates to a method an arrangement for reserving resources in an IP network. By mixing open-ended reservations with in-advance reservations, by utilizing a common pool of resources, the resource utilization will be high. Despite the support for open-ended reservations, the present invention allows immediate and in-advance time-limited reservations wherein the resources are guaranteed. It also allows modification of active and "soon to be active" reservations, which in turn permit soft-state reservations. The invention supports different types of applications with varying time-distributions and varying risk of pre-emption. A new concept of open-ended in-advance reservations is also introduced in the present invention.

About Operax

Operax is an independent software vendor offering innovative solutions for dynamic Resource and Admission Control in IP-based telecommunications. Operax products provide efficiently guaranteed Quality of Service for operators of multi-vendor, multi-service commercial, civil and military networks.

To maximize Returns on Investment in broadband fixed and wireless pre-IMS and IMS networks, providing guaranteed Quality of Service, while minimizing capital and operational costs, is a key capability. It is essential for the successful commercial deployment and operation of new services, such as IPTV, VoIP and Fixed Mobile Convergence.

Operax continues to make extensive contributions in standardization forums. With 22 patents granted or pending, Operax product technologies assure revenue bearing services, ensure emergency calls, and support essential users and services for vital communications networks.

Founded in 2000, Operax is a privately held company with headquarters in Stockholm and offices in Boston MA, London, Rome, and Luleå - Sweden. The company is owned by Nordic Venture Partners, Innovacom, Nomura and Emano, along with its founders. For more information, visit www.operax.com