



# Get the QCOM FaSTrack NEMS

## What about FaSTrack NEMS

In today's competitive environment, the term "Time is Money" has more meaning than ever before. Cost reduction is the call of the day.

Typically, the development of any Management System, be it Element (EMS) or Network (NMS) takes around 9 – 18 months, from the time requirements are written, until the EMS or NMS is ready for delivery. Most of the upcoming optical, broadband and IP router startups or the Carriers do not have that kind of time available. On the other hand, the established optical / router companies face the problem of merging new Network Elements with their old, difficult to transform legacy systems. Not only that, they also find it difficult to justify the cost to develop and maintain an EMS. As such, in both these cases, it makes good business sense to outsource the NMS / EMS development to an experienced, well-disciplined company. Enter QCOM.

## Platform Options

Since our NEMS is 100% JAVA based, it can be run on many different hardware platforms. Both RMI and EJB versions are available. Using the J2EE / EJB technology, the management components can be run on a single server or across a cluster of servers in order to gain capacity and redundancy.

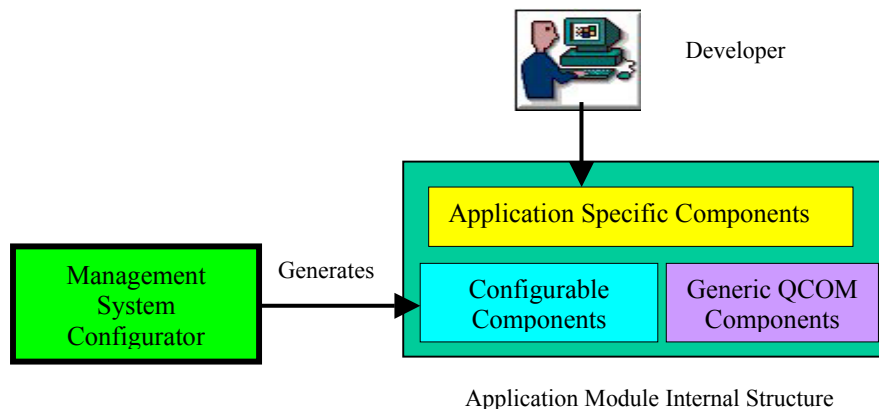
## An Example – A DWDM EMS

Using our FaSTrack development approach, we integrated the various software components of our ComponentSuite to build a standard DWDM EMS containing all the commonly required functionalities.

We can do similarly for your NMS or EMS requirements. Additionally, on top of our standard array of features, we can also custom build any special requirements that you may have. And still make the delivery within a time frame of 3 to 6 months!



## FaSTrack Development Process



## Why are we Fast ?

If you go to any NMS or EMS development company, they'll tell you the same story – "We can do it very fast for you". So why is our FaSTrack NEMS different? Well, there are a variety of reasons that allow us to make this claim.

## FaSTrack Development Process

Based on our experience, we have laid down a well-defined methodology to build a Management System, be it an EMS or a NMS. This FaSTrack Development Process ensures that the actual development time is significantly reduced.

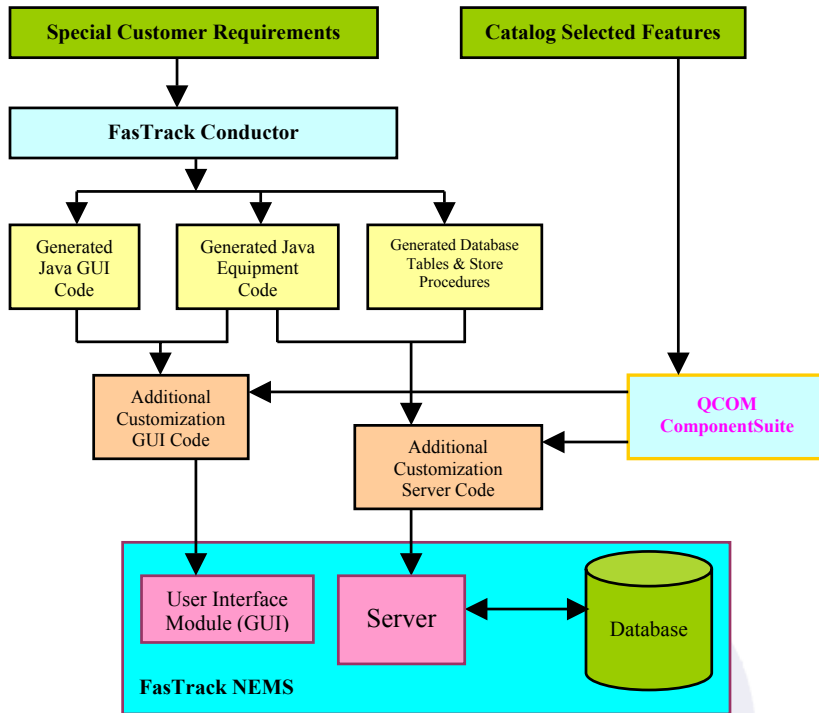
## QCOM ComponentSuite

Responding to today's market requirements, QCOM engineered and developed its NEMS ComponentSuite. This suite is a collection of carefully developed and pre-tested software components providing most of the commonly specified FCAPS features. They have well defined and documented APIs. Using our ComponentSuite as the base, our engineers can build a NMS or an EMS uniquely tailored to your requirements Fast.

## FaSTrack Conductor (FTC)

FTC is a graphical tool developed by QCOM, which allows construction of your Network Element view, exactly as it actually looks, including the shelf, circuit packs, ports and flashing LED's. It then goes on to generate the Java code for displaying it in the GUI and for modeling the equipment in the database. All this takes is just a few hours. This tool alone saves months of development and testing effort.

## FasTrack Development Process Flow Details



## The Feature Catalog

We have built an extensive list of features that are supported by the Software Components in **QCOM's ComponentSuite**. In addition to that, we'll also present to you a collection of our standard GUI screens for these different features. All you need to do is simply pick and choose from our Catalog the desirable functionality in your NMS or EMS. And, just in case you require certain things that you are unable to find in our feature catalog, we can add those as customized features especially for you.

## Reduced Testing Time

Since all elements of our ComponentSuite are pre-tested and optimized, it reduces the integration testing time. On top of that, we have available a range of in house developed test tools from the **QCOM TestSuite** to enable quick and accurate testing of your Management System.

## Why Qcom ?

Building an EMS or a NMS can be a technically difficult and time-consuming project. Why not leave that job to a company that has already established the necessary expertise? By reusing our **NEMS ComponentSuite**, our software experts can move quickly from your requirements to final product, keeping you involved in the process along the way. Shouldn't you keep your engineers focused on the things they know best and leave the management systems to us?

## Benefits

QCOM FasTrack NEMS offers exciting, **cost-saving** benefits to its users. These include:

- **Reduced Time-to-Market**  
QCOM has the software and the expertise to quickly produce a high quality NMS / EMS that provides all the features and functions needed to support a typical data or telecom-centric NE Network.
- **Platform Independence**  
Developed totally in Java, you can run the NEMS on practically any of the commercially available platforms such as Solaris, HP-UX, Linux and Windows 2000 / NT.
- **J2EE / EJB / RMI Technology**  
QCOM NEMS Components have been developed using RMI as well as the latest J2EE / EJB technology, thereby making them reusable, scalable and suitable for multi-tier architecture. With EJB, the components gain middleware services *implicitly* and *transparently*. The application server implicitly handles transactions, persistence, security, state management, component lifecycle, threading and more.
- **Conformance to Standards**  
The database models associated with the management components are in line with TMN and TMF standards, which helps to ensure that external interfaces will inter-work with other Management Systems complying with these standards.
- **Scalable**  
NEMS has been architected to run on a single server or on a cluster of servers to satisfy requirements for performance and availability.
- **The QCOM Advantage**  
Has successfully developed numerous NMS/EMS and DWDM based embedded systems in the past five years. Employs a team of highly skilled professionals led by telecom experts, each with over 20 years of experience.



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