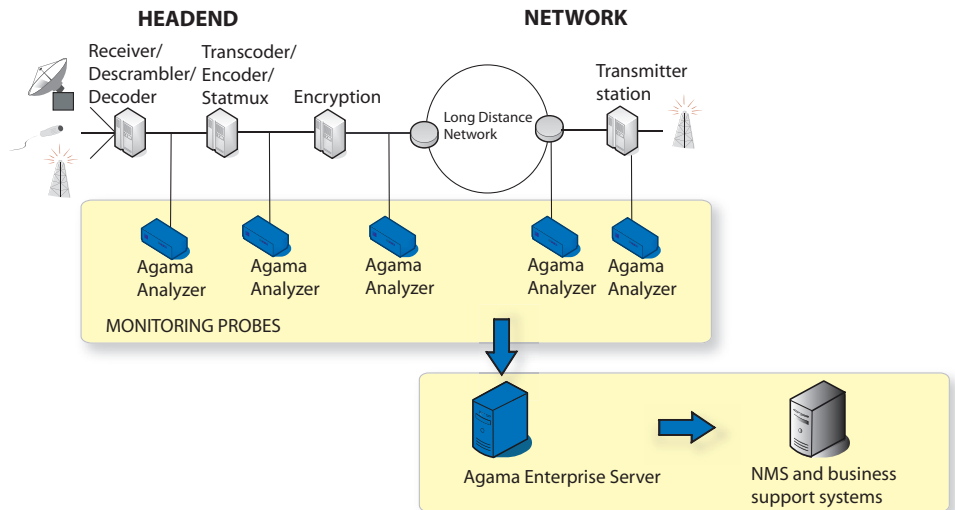


DTTV Quality Assurance

Key Benefits

- End-to-end DTTV transmission quality assurance
- Multi-metric monitoring
- Multi interface support (IP/ASI/QAM & QPSK)
- Quality of experience (QoE) focused presentation
- Quick overview dashboards
- MPEG-2/MPEG-4-AVC SD and HD support
- Extensive integration (NMS/OSS & Customer care)
- Comprehensive reporting with SLA follow-up



Striving for Perfection

As terrestrial TV networks have been digitized new opportunities are opening in service development and transmission efficiency. At the same time extra complexity is added to the transmission to operators that have a proud heritage of delivering excellent service quality. At Agama we have made it our business to make sure that you can remain in control and evolve your service with the opportunities given by the digitalization and the service development it has driven.

As TV quality assurance solutions have evolved from the technician's standalone tools to mission critical solutions adding core business value, Agama has been a pioneer in providing end-to-end, multi-metric, carrier class monitoring solutions to the market. When investing in a solution as versatile as Agama's Monitoring Solution there are endless opportunities to keep striving for perfection in the delivery of your evolved TV Services.

The Agama Monitoring Solution

Agama's solution is based on versatile monitoring probes capable of analyzing key performance indicators from the transport layer to the video content on as well QPSK as ASI and IP. The solution takes on a holistic view to the need for quality information in your organization, supporting top decision makers, operational departments and the individual technician with objective real-time service quality data in easy-to-understand technical and non-technical ways. The extensive range of add-on modules available includes stream forwarding, round-robin monitoring and several modules for testing - all to ensure a solution tailored to meet your specific needs.

Today, about 50 telcos, IPTV, cable, terrestrial, broadband and network operators rely on Agama's monitoring solution for assuring quality in their TV offerings.

Agama TV Monitoring in Your Environment

Since the Agama solution is completely software based, it fits into an existing IT infrastructure while leveraging on the performance explosion of standard hardware that the market has seen over the last years. With the recent introduction of multi core CPUs and multi queue network controllers Agama's software based approach will continue to give unsurpassed performance while maintaining flexibility in both function and deployment as your requirements on the solution change.

With extensive integration possibilities it can flexibly be adapted to a perfect fit into your service management tool chain and thus interwork with business support systems on virtually all levels in your organization where service quality information is of value for your business.

Agama DTV Monitoring Solution

The Agama TV Service Monitoring Solution is an end-to-end quality assurance solution consisting of any number of Agama Analyzers deployed in strategic locations in your service delivery chain all managed by the Agama Enterprise Server.

Agama Analyzer

The Agama Analyzer software probe provides real time 24/7 monitoring of DTV services. With the most complete and flexible monitoring capabilities on the market it can be used from the headend throughout your distribution network.

Agama Enterprise Server

The Agama Enterprise Server is the central hub in the monitoring network, aggregating information from all distributed Analyzers and Embedded probes and presenting an overall view of the delivered quality.

Key Monitoring Applications -

End-to-End DTTV Quality Assurance

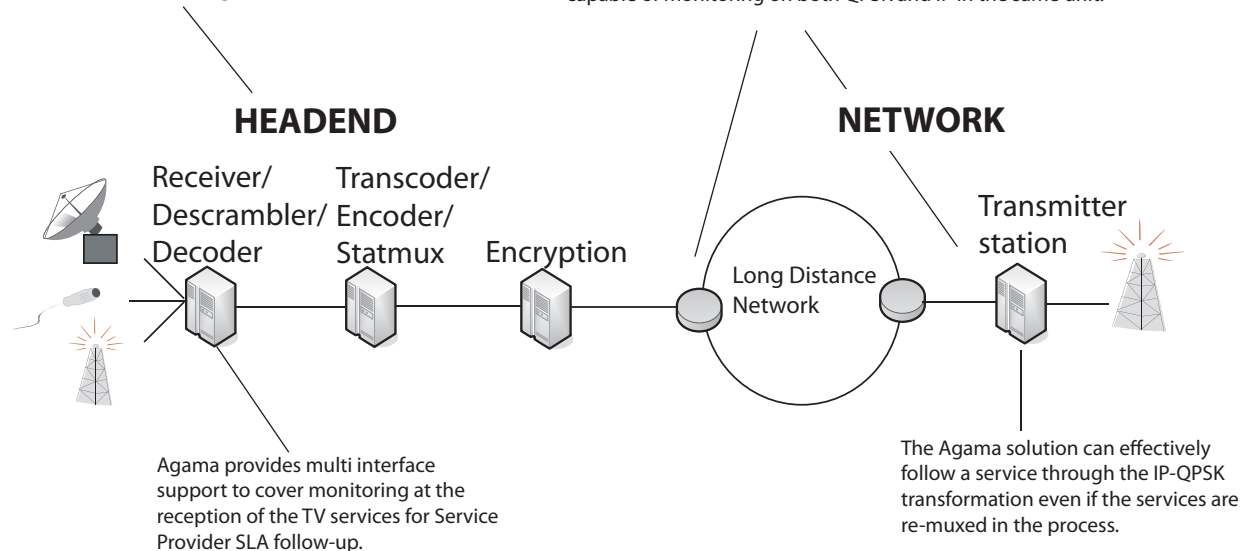
The end-to-end perspective of DTTV service quality monitoring contains focus areas as the headend, the long distance network and wireless on the RF network, each containing several key monitoring applications with very different demands on the monitoring solution.

The Agama Monitoring Solution was designed to meet the end-to-end needs of IPTV monitoring. With the addition of QPSK monitoring capabilities and the transformation of the Agama QoE heuristics to the DTTV domain it fits perfectly for the key applications in end-to-end DTTV monitoring, and will thus provide tailored, cost-effective multi-metric monitoring solutions for the complete end-to-end perspective.

Agama's most advanced Analyzer gives the possibility to do picture quality monitoring to detect problems on the content level in the stream such as frozen frame, black screen and excessive macro blocking.

MPEG aware monitoring in the network obtains accurate network related key performance indicators even on scrambled content.

With the addition of QPSK input support, Agamas Analyzers are capable of monitoring on both QPSK and IP in the same unit.



About Agama

Agama Technologies provides DTV and broadband operators, telcos and other service providers with solutions and products enabling reliable and cost effective TV services. The Agama product line is a complete and distributed solution for real-time 24/7 DTV monitoring. The solution enables operators to minimize opex and churn by having full control of delivered TV quality and shorten time to fix.