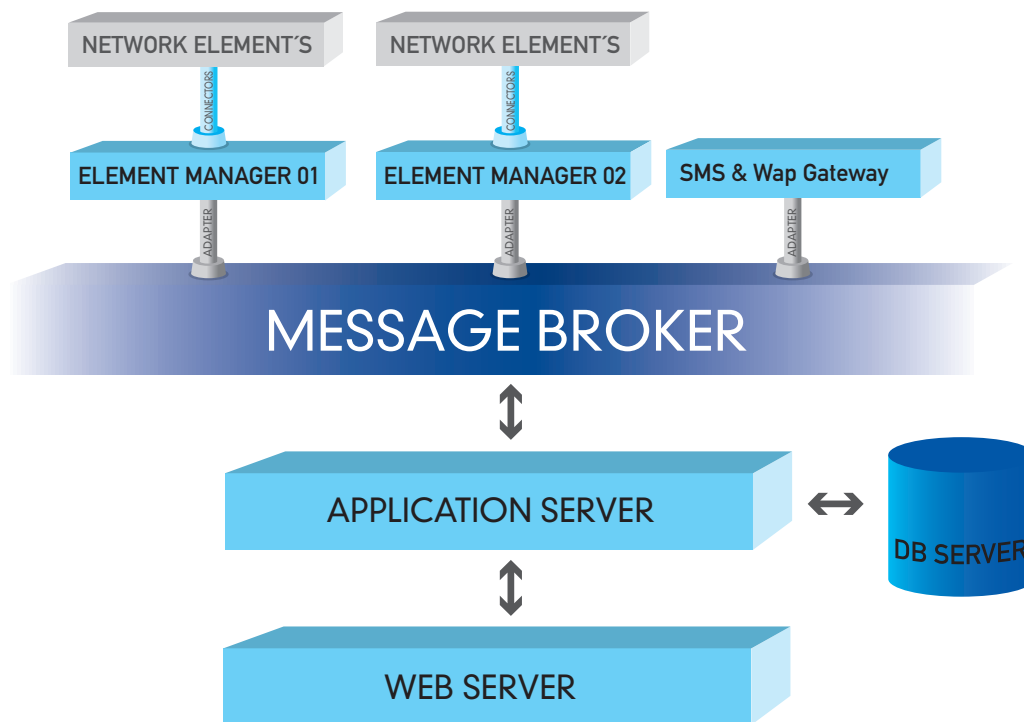


ARCHITECTURE



NETWORK ELEMENTS: just connect it

Dialogues with Network Elements are performed via independent classes called Connectors. These components handle device's native protocols and translate original data into standard XML protocol. Connectors can be developed by hardware vendors or by Integrators, following Adecef's specifications. Adecef has extensive experience in the development of connectors: just ask for a quotation.

MESSAGE BROKER: pure flexibility

Once data is retrieved by a Connector, it is delivered to Telgat's Message Broker. This layer ensures asynchronous dispatch between the system's components and layers: Data Layer, Communication Layer, Presentation Layer, SMS gateway, etc. Message Broker makes architecture extremely flexible, since it's a seamless way to connect any component to the system. Furthermore, with Message Broker you can easily connect Telgat with your trouble tickets management system and/or your asset management system in real time. There are no rigid interfaces, and any component can be "plugged" into this middleware by means of specific adaptors.

NETWORK ELEMENT MANAGER: pure scalability

This layer supports connector classes and is in charge of a Network Element community. Like any component of the system, it can be plugged in to the Message Broker by means of a specific Data

Adapter, and carries out requests originated in other layers.

There are no real limits to the number of Network Elements in Telgat: it depends on the geographic dispersion, the level of complexity in the interaction with the device, or the business model. This flexibility provides the system great scalability, allowing the solution to grow as new Network Elements to be monitored are added, coherently with the rest of the architecture. Each Manager is centrally supervised; alternative routes can be formed to provide excellent failure tolerance

CLIENT TECHNOLOGY: acces from everywhere

The presentation layer is a Thin Client layer, and therefore it runs on a Web navigator, like Internet Explorer. Telgat's graphics are highly functional and each element is visualized according to a pre-defined color code. The user will find usual GUI components like "Event Viewer", "Alarm Paneling", and many interactive synoptics representing Network Elements distribution. A GIS allows the representation of NE over standard cartographic support

DATABASE: top technology storage

Data storage is centralized on an Oracle database (although other DBMS are available). Data model is structured around a unique TOM referential, associating Network Elements and acquisition lines in such a way that vendor characteristics are transparent to final users.