SITE CONFIGURATOR

SOLUTION DESCRIPTION

Site configuration lifecycle supported by 2solve Site Configurator
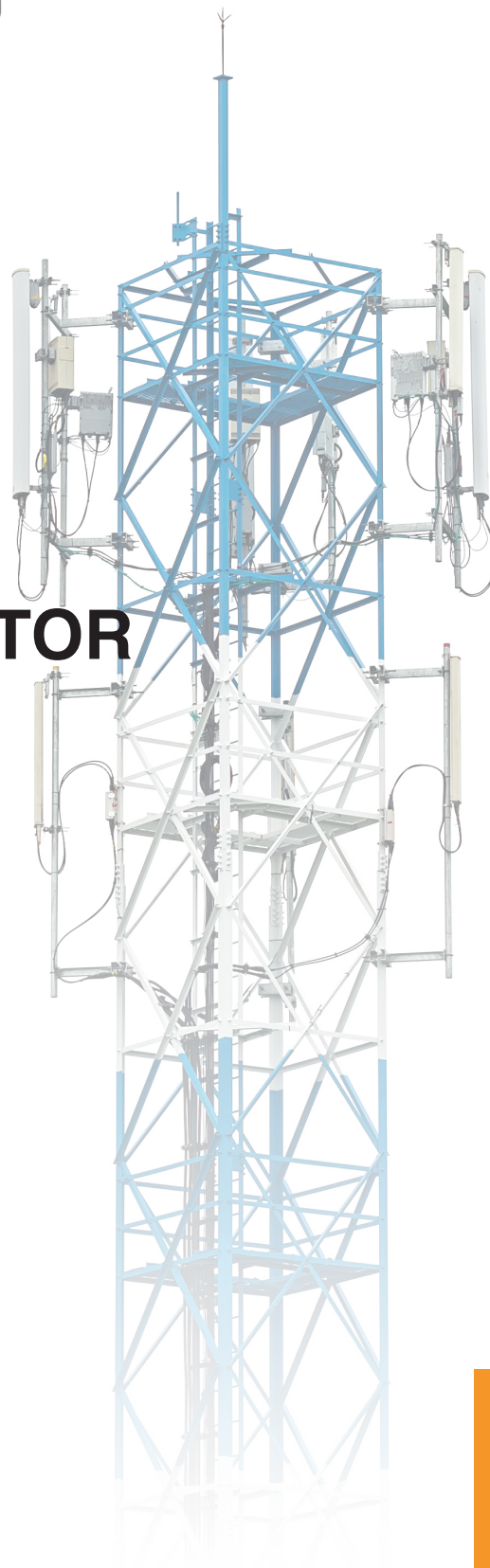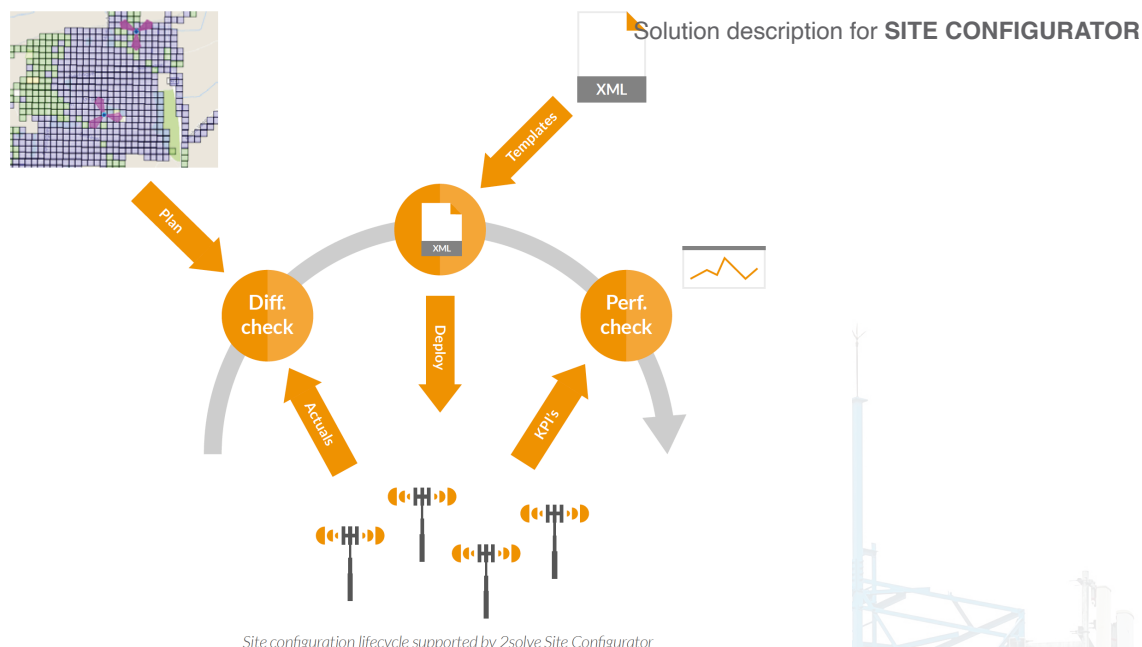
2solve Site Configurator

2solve Site Configurator enables mobile operators to streamline and automate their site configuration processes, and reduces the time required to manage critical changes and repetitive tasks across complex multi-technology networks. Everything gets quicker, easier and less error-prone.

Site deployment challenges for the operator

2solve Site Configurator enables operators to manage their site configurations effectively, as these develop and evolve.

Mobile operators typically use Radio Access Network equipment from a complex intertwining of different suppliers – and this unfortunately means they have to work with and support many different vendor-specific configuration management setups. As mobile networks become larger, more complex and more heterogeneous, this leads to situations in which site configuration and network management become vulnerable, exposed to the effects of human error and expensive to maintain.

Such site configuration management actually is one of the least-automated processes in modern telecom operations. Setting up site configurations is highly specialized and depends a lot on a vast spectrum of equipment specs, from all the different suppliers involved. This means network operations personnel usually have to conduct an extensive series of manual operations when deploying new sites – or updating and reconfiguring old ones. Such operations and procedures are normally written down – to some extent – but there's still a big risk of mistakes being made or critical check points even being bypassed in order to save time and meet deadlines.

2solve Site Configurator reduces complexity

2solve Site Configurator addresses this key element in mobile operators' infrastructure challenges because it makes it much easier to deal with complex, multi-supplier setups, and enables configuration for multi-site technology (2G, 3G and 4G) to go on-air as planned, smoothly aligned with the predefined parameters.

How 2solve Site Configurator helps

When a mobile network needs system updates or
upgrades, administrators need easy-to-use procedures and tools to help them provide sites with the correct settings for all items of equipment and all operating parameters.

Efficient configuration management planning is
normally far from easy because network configuration management tools are almost always supplier-specific, as well as not taking the transmission part of the network into consideration.

This leaves operators at risk, because new sites are often configured by reusing and repurposing settings from an existing site. This then means the mobile operator has to keep the site under observation for longer in order to monitor behaviour and performance, and then to correct any parameter errors.

2solve Site Configurator is designed to address these kinds of practical realities, and provides operators of mobile networks with an easy-to-use solution that helps them configure new sites correctly, by using a template-driven approach. This involves defining a set of rules for use during setup and changes to the site or network, designed to maximize performance, capacity and customer satisfaction during the network enhancement, site extension or equipment upgrade processes.

Key features

√ Rapid roll-out and easy-to-use interface

√ 2solve Site Configurator is a template hierarchy-based approach using either Oracle or MySQL as databases

√ Flexible template models in which the user is able to build or modify content. Useful for consistency checks or in the process of building or provisioning new objects

√ History/log – details of all network configuration changes can be stored for regulatory compliance, or to ensure changes are made in accordance with appropriate standards

√ Well-designed user interface that supports complex business rules and advanced functionalities for site configuration planning, control and supervision, along with intelligent features for suggested parameter settings for templates

√ Bulk configuration – making it easy to automate site configuration and apply multiple configuration changes in one go

√ Complete transparency and extreme accuracy that together eliminate any need for the operator to carry out manual consistency checks tracing down to parameter level, or to create its own consistency checking rules or performance verification procedures

Key benefits

√ Helps standardize and streamline procedures associated with site configuration, ensuring consistency and effectiveness

√ Helps ensure maximum network capacity for any given equipment and software configuration

√ Easy to maintain as the network evolves and scales up

√ Keeping configuration errors to a minimum helps avoid network outages, thus preventing subsequent loss of revenue and customer dissatisfaction