

# Rig Remote Access Server

## Technical specification



Optional function that ensures remote access to drill rigs by means of a connection to the user's network.

## Introduction

The Rig Remote Access option allows the planning department to transfer data to and from the drill rigs. Communication with drill rigs however requires that the drill rigs are online at all times. This is normally not the situation in a tunnel or in a mine. Due to imperfect coverage of the communication network, there are always occasions when the drill rig is not reachable.

The RRA Server option covers these occasions and gives the planning department a virtual 100% access to the drill rigs.

## Features

- The Rig Remote Access, RRA, package is designed to allow Atlas Copco drill rigs with Rig Control System to be permanently or occasionally connected to the user's network.
- The RRA Server is a software program which is run on a customer's computer (=server) in the customer's network.
- The RRA Server executes file transfer as soon as the drill rig is available on the network. This means that the RRA Server bridges the occasions when the drill rigs are out of network contact. The RRA Server allows you to use the RRA package even if you have very limited network coverage. It is enough that the drill rig passes into the network once per shift or as often or seldom as you require that data are updated.

## Functions

### » The RRA Server consists of three functions:

- Service
- RRA Client
- Viewer

### » Service

The basic and most essential part is the Service that communicates with all drill rigs with RRA option. The Service runs in the background in the customer's network and uses no human interface.

### » RRA Client

The RRA Client is the human interface to the RRA Server. The RRA Client is a small administrative "program" used for configuration of the drill rigs and for supervising the operations of the RRA Server. Once a drill rig is configured it will remain in the RRA Server all the time.

The same RRA Client can also be run from several PCs, for information and displaying the status of the drill rigs. The administrator defines, for each configured drill rig, the place for the data folders. For each drill rig there are one main folder and three subfolders. These folders are placed by the administrator somewhere on the network where all authorized personnel can reach them. Once the main folder is created and named the subfolders are automatically generated and named.

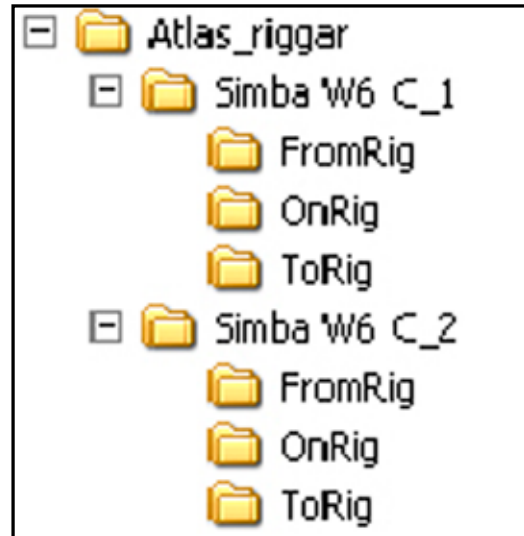
**For the users of the RRA Server there are three folders for each drill rig:**

**FromRig:** contains all uploaded files, for example round, MWD (Measurement While Drilling) and Profiler logs, from that drill rig. Uploaded files are deleted from the drill rig once the upload is confirmed.

**OnRig:** a mirror of what is on the drill rig. If a file is deleted from the OnRig folder it will be deleted from the drill rig at next synchronization.

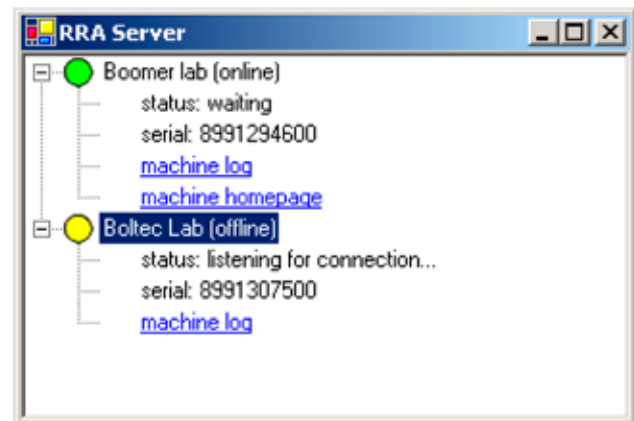
**ToRig:** the data that shall be transferred to the drill rig is placed in this folder. As soon as a synchronization is done,

this folder is emptied, which makes it possible to control if the drill rig has been in contact with the RRA Server.



### » Viewer

RRA Client can also be run as a Viewer that reports status of the configured drill rigs. This means that anybody who is allowed to use the RRA Client can observe status of all configured drill rigs and their machine logs. A machine log is a log file telling which files has been transferred or if any file is waiting to be transferred.



## Specifications

### » RRA Server is an Atlas Copco software containing two parts:

- A Windows Service which communicates with the drill rigs
- A Client program for administration and for information to the users

## Requirements

### » RRA Server requires:

- An RRA Server installation CD
- Drill rigs with the RRA Server option (which means activated for communication with the RRA Server)
- A Windows server 2003 or Windows XP computer (gives limited capacity) connected to the customer's network, which also has to be the same network as the drill rigs are connected to
- Net framework ver 1.1 and 2.0
- Administrative rights for installing and running
- A network (Ethernet) provided by the user
- Rights to communicate through the network to the rigs
- RRA is an option available for Boomer, Simba and Boltec with RCS3 or higher program version. Simba and Boltec might have other version numbers but can still be able to use the RRA option.