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Aprisa SR: an introduction to the Data Driven Protected Station

In brief...

The Aprisa SR data driven protected station enables you to operate new digital radios in your existing serial analogue network, with full redundancy.

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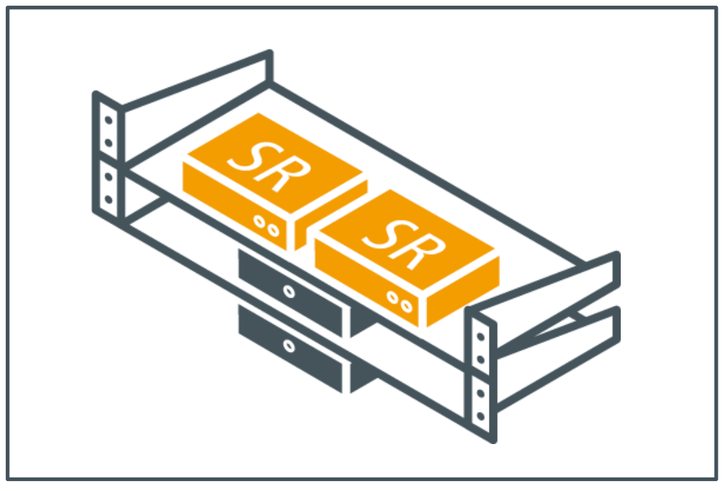
How does it work?

Switching is based on serial inputs: the active radio is determined by which radio receives data on its RS-232 serial port. This allows the SCADA system to have control.



Deployed with the 4RF proven approach to migration, network outages are minimised and the polling cycle uninterrupted while deploying digital radios.

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Migration process

Step 1: deploy an Aprisa SR data driven protected station at the same site as, and in parallel with, your existing analogue base station.

Step 2: replace each analogue outstation in turn with a digital outstation, operating a combined analogue and digital network.

Step 3: decommission the analogue base station after the final digital outstation has been deployed, resulting in a redundant, digital network.

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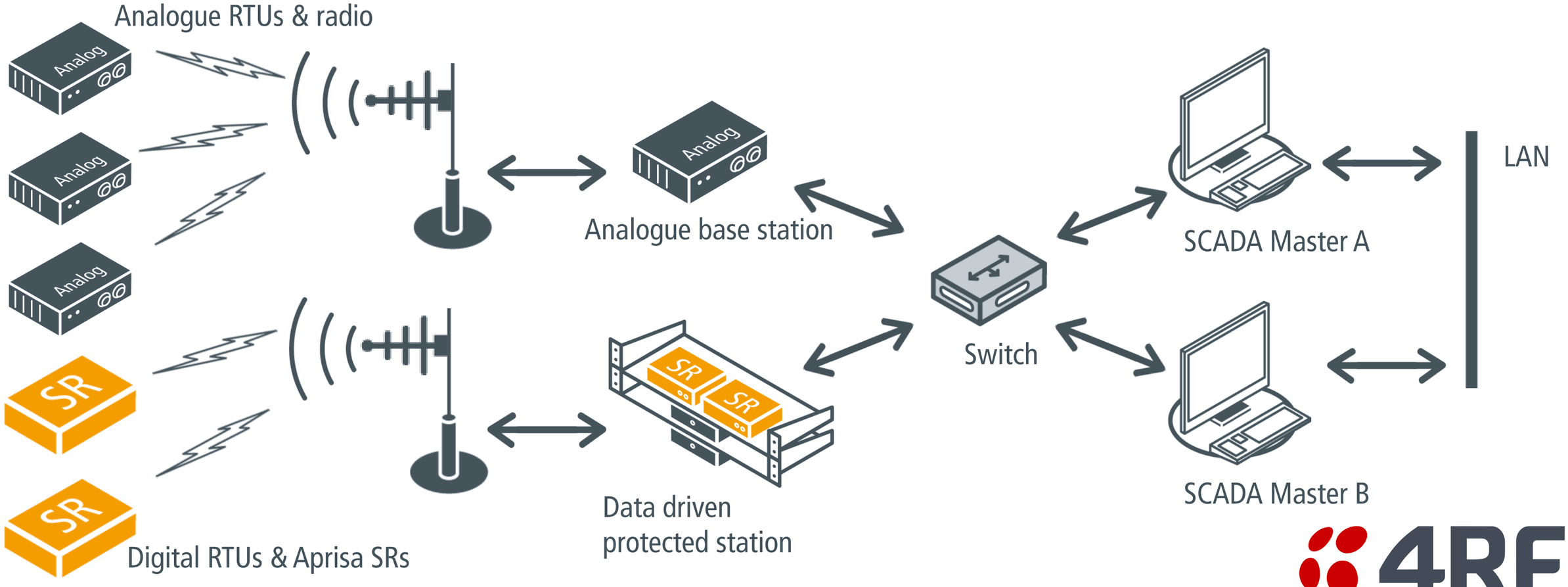
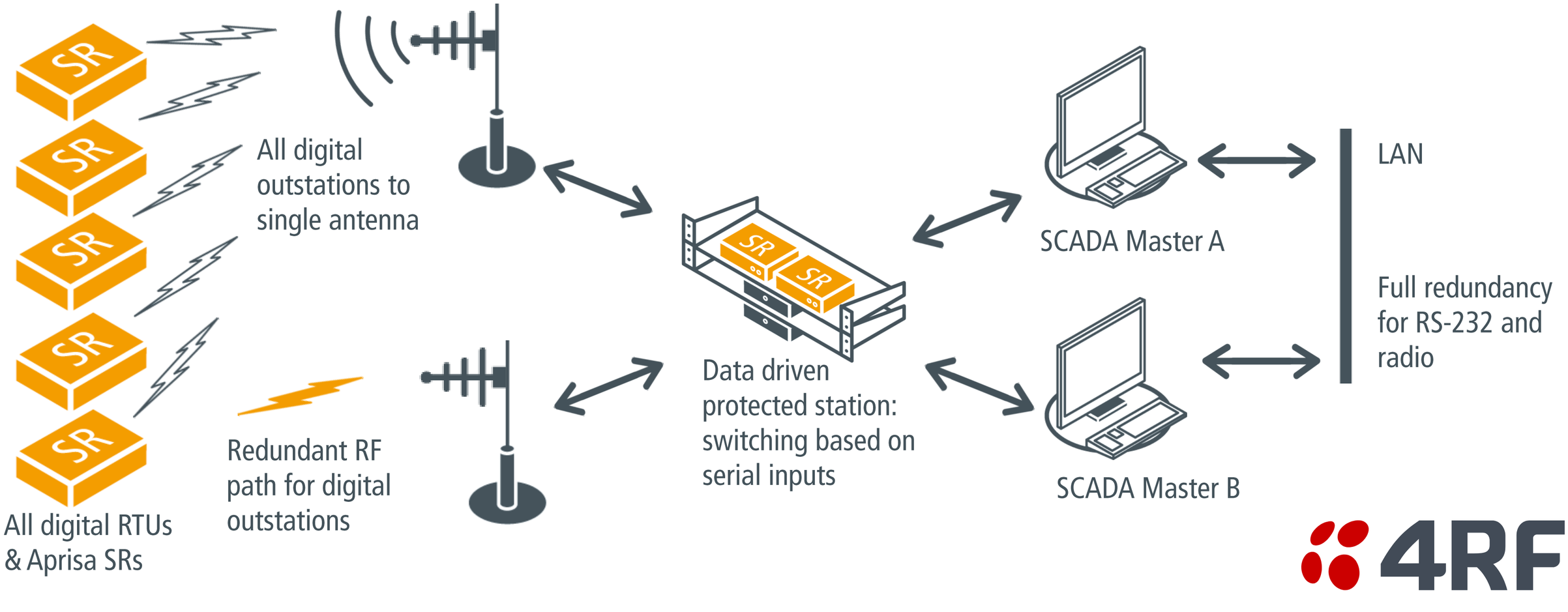
During migration



Now all digital



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The end result...

... a fully redundant network that can provide switching based on serial inputs, maximising control, flexibility and integration options.

The key benefit of the migration approach is that your polling cycle is not interrupted during the analogue to digital replacement programme.

This means that you can continue to operate a live monitoring and control network while migrating the communications infrastructure to digital.

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The key questions

How do I migrate?

The data driven switching is unique to the Aprisa SR. You achieve migration from analogue to digital by following the steps above, supported by 4RF and our in-field teams and partners.

How fast can I migrate?

It can be a relatively fast process. In one current deployment, 60 sites are being migrated over a three day period. The result is full redundancy for the radio path and RS-232 serial port.

Are operations impacted?

With the 4RF approach, the polling cycle is not interrupted during the migration process and the minimal disruption to the network is mitigated by manual overrides at the SCADA master.

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Availability & options

The Aprisa SR data driven protected station is available in all standard frequency bands and channel sizes: both single and dual antenna port.

You get everything you need to quickly deploy this configuration:

- Two Aprisa SR radios
- Duplexers
- Rack mounting shelves
- RF cables

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Thanks for reading our e-book about the Aprisa SR data driven protected station: we hope you found it useful. We would love to tell you more. Please visit www.4rf.com or email us at info@4rf.com.

All the information in this e-book is correct at March 2012: please contact us if you have an old version of this document and would like to receive the latest information!