

Synopsys:

Data replication:

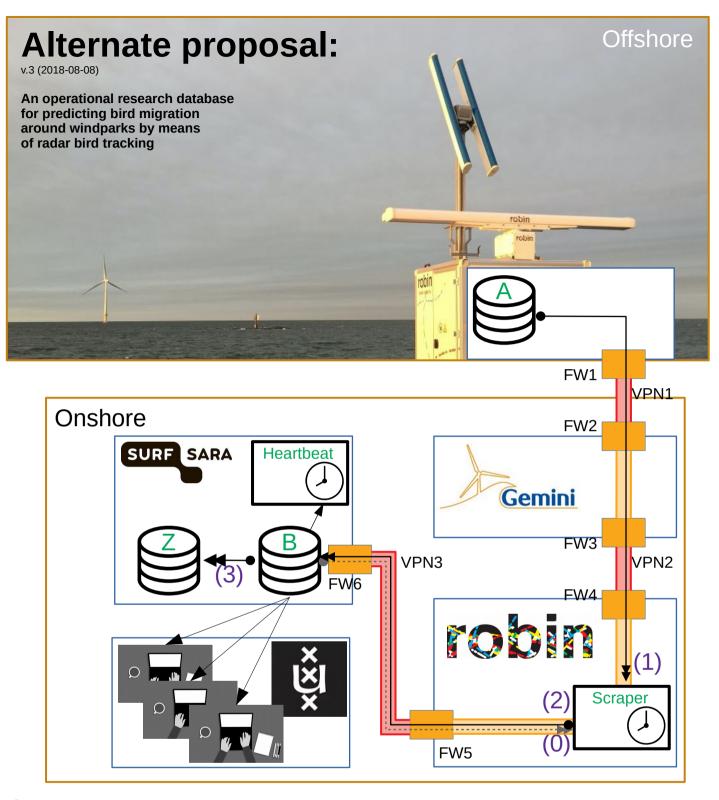
At the windpark, offshore, the radar hardware and software produce (track) information into a database, A. SURFsara host a research database, B. Robin's scraper can run at the windpark every minute to read from B what the latest record is (see 0), then read from A what is new since then (see 1), and finally send all new records from A to B (see 2).

Data path:

From the offshore radar location to the onshore Gemini's datacenter, there is a cable in place. For the sake of this description, this is connecting firewalls FW1 and FW2 through VPN1. Another two firewalls FW3 and FW4 between Gemini and SURFsara keep a secure connection over the Internet through VPN2. Internally, Gemini arrange their network to connect FW2 and FW3.

Data consistency and preservation:

SURFsara arrange a long-term storage solution, Z, possibly offline, for archival purposes, through a transfer (3). A process running periodically (Hearbeat) checks whether data is still coming through; it could emit an alert when data fails to come after a given period of time.



Synopsys: (less preferred; to be used in case Gemini will not allow the first proposal)

Data replication:

At the windpark, offshore, the radar hardware and software produce (track) information into a database, A. SURFsara host a research database, B. Robin's scraper can run at Robin's premises every minute to read from B what the latest record is (see 0), then read from A what is new since then (see 1), and finally send all new records from A to B (see 2).

Data path:

From the offshore radar location to the onshore Gemini's datacenter, there is a cable in place. For the sake of this description, this is connecting firewalls FW1 and FW2 through VPN1. Another two firewalls FW3 and FW4 between Gemini and Robin keep a secure connection over the Internet through VPN2. Internally, Gemini arrange their network to connect FW2 and FW3. Finally, another two firewalls FW5 and FW6 connect Robin and SURFsara through VPN3.

Data consistency and preservation:

SURFsara arrange a long-term storage solution, Z, possibly offline, for archival purposes, through a transfer (3). A process running periodically (Hearbeat) checks whether data is still coming through; it could emit an alert when data fails to come after a given period of time.