Contribution ID: **161**   Type: **Talk**

Moving more data, faster - SANReN Data Transfer Pilot Service

Tuesday, 4 December 2018 11:00 (25 minutes)

Moving masses of data is a challenge. In most cases networks optimized for business operations are neither designed for nor capable of supporting the data movement requirements of data intensive research. When scientists attempt to run data intensive applications over these so called "general purpose"/enterprise networks, the result is often poor performance – in many cases poor enough that the science mission is significantly impacted. At its worst this means either not

getting the data, getting it too late or resorting to "desperate" measures such as shipping disks around. The South African National Research Network (SANReN) is currently piloting a data transfer service with the goal of changing this for our researchers/scientists and optimising the transfer of datasets across the network. The service makes use of data transfer nodes configured in a science

DMZ architecture using specially designed data transfer tools to efficiently and securely move data.

This presentation will present an overview of the science DMZ, data transfer nodes, tools and services that we have implemented as part of the SANReN Data Transfer Pilot project as well as preliminary results we've achieved.

Presenter Biography

Primary authors: Mr HADEBE, Sakhamuzi (CSIR - SANReN CA); PILLAY, Kasandra (SANReN)

Presenters: Mr HADEBE, Sakhamuzi (CSIR - SANReN CA); PILLAY, Kasandra (SANReN)

Session Classification: SA NREN

Track Classification: SA NREN