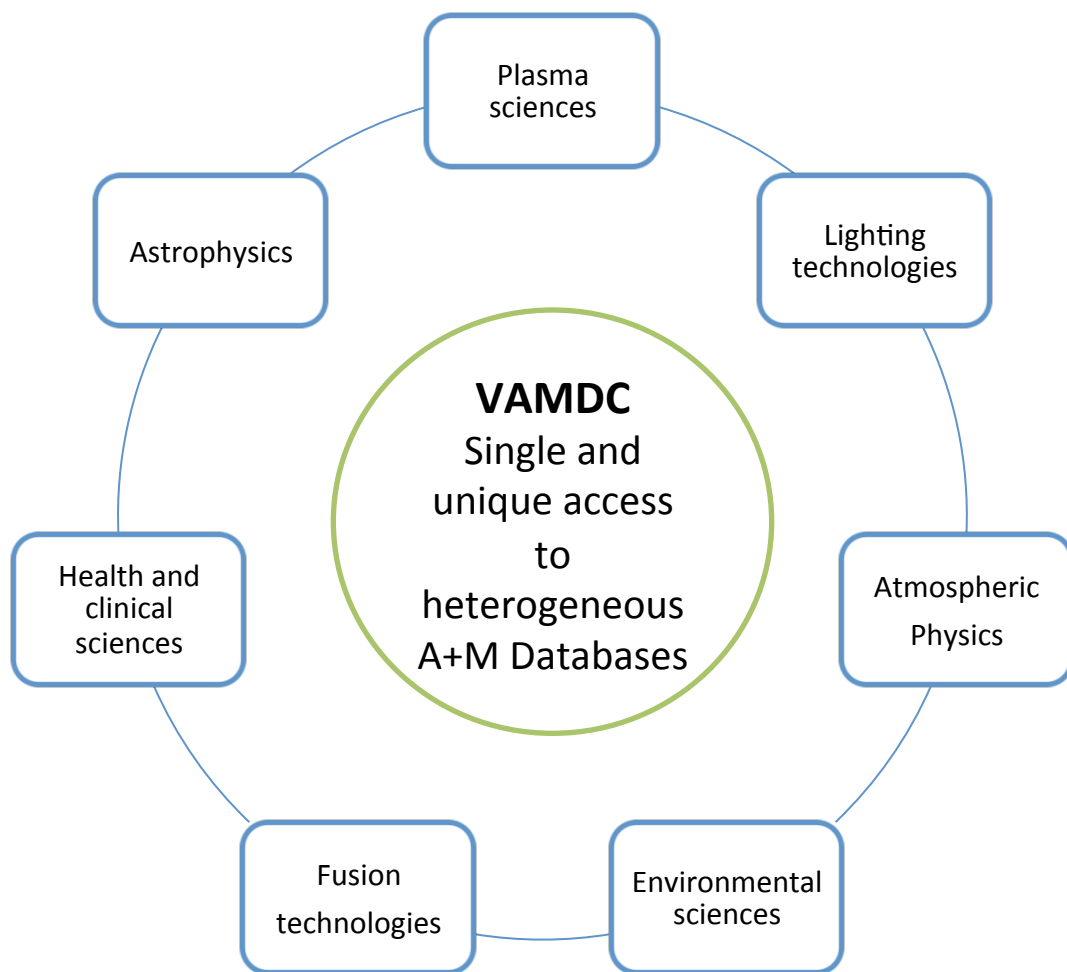


Federation Identity Management needs within the Virtual Atomic and Molecular Data Centre

C.M. Zwölf, N. Moreau and VAMDC
consortium



The Virtual Atomic and Molecular Data Centre



➤ Federates ~30 heterogeneous databases
<http://portal.vamdc.org/>

➤ The “V” of VAMDC stands for Virtual in the sense that the e-infrastructure does not contain data. The infrastructure is a wrapping for exposing in a unified way a set of heterogeneous databases.

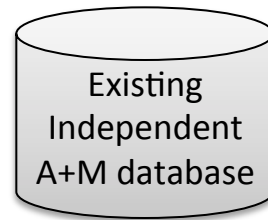
➤ The consortium is politically organized around a Memorandum of understanding (15 international members have signed the MoU, 1 November 2014)

➤ High quality scientific data come from different Physical/Chemical Communities

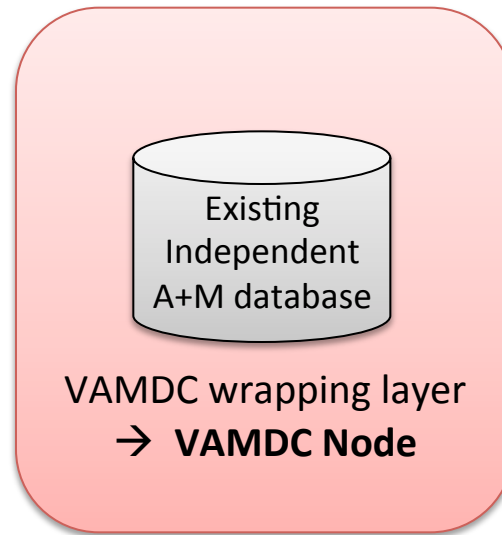
➤ Provides data producers with a large dissemination platform

➤ Removes bottleneck between data-producers and wide body of users

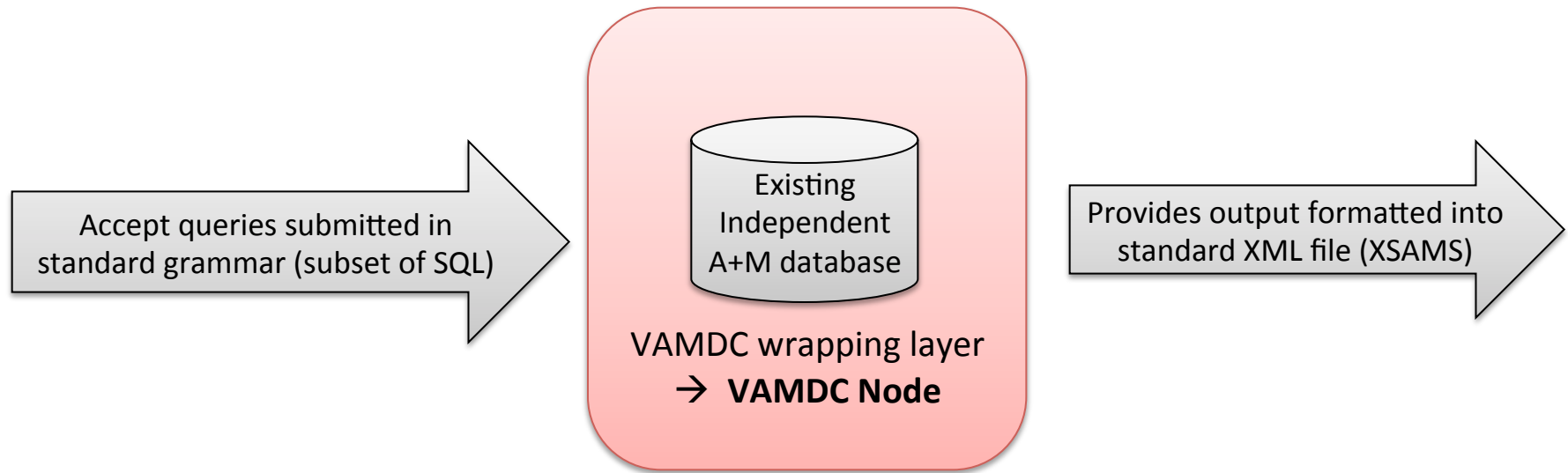
The VAMDC infrastructure technical architecture



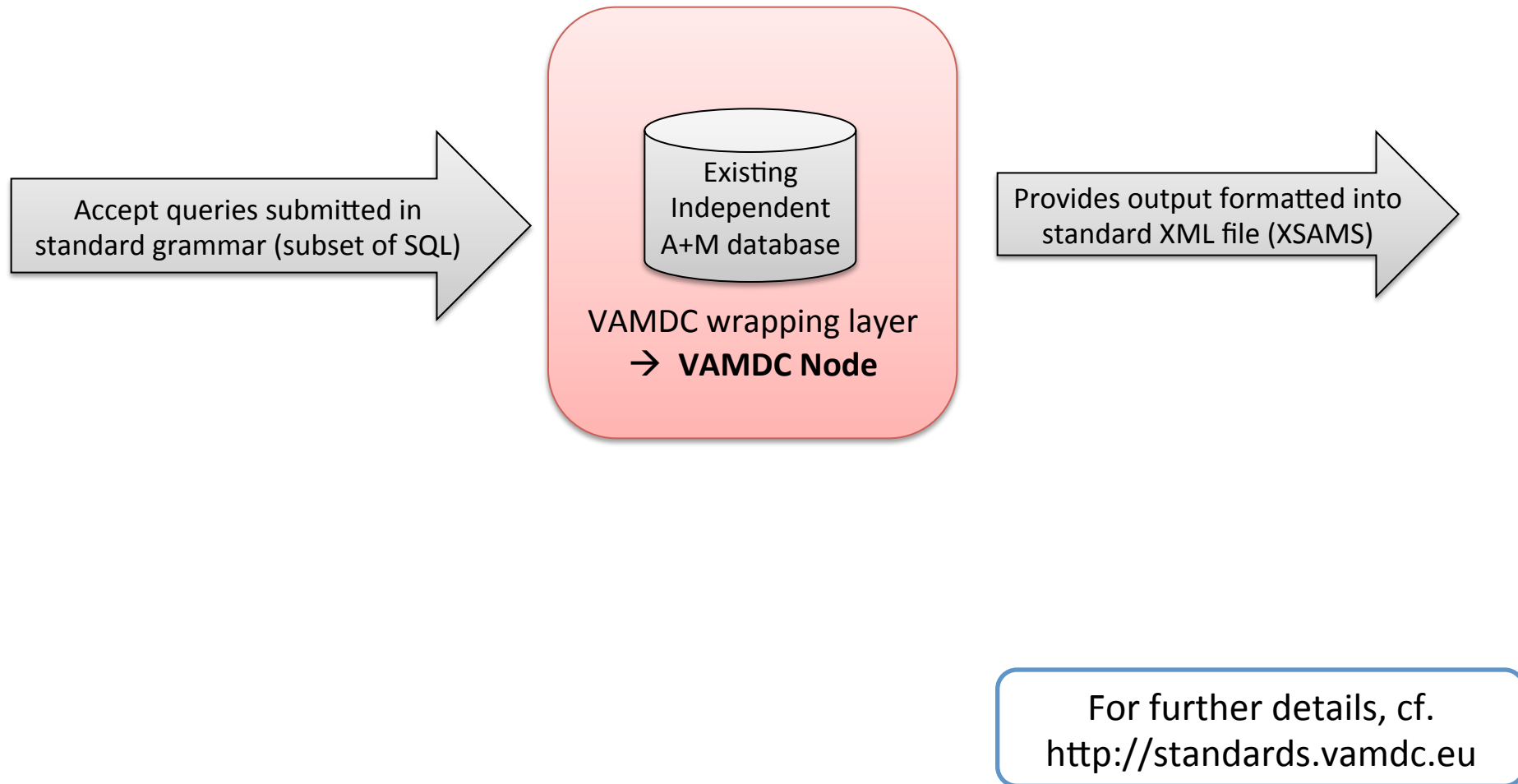
The VAMDC infrastructure technical architecture



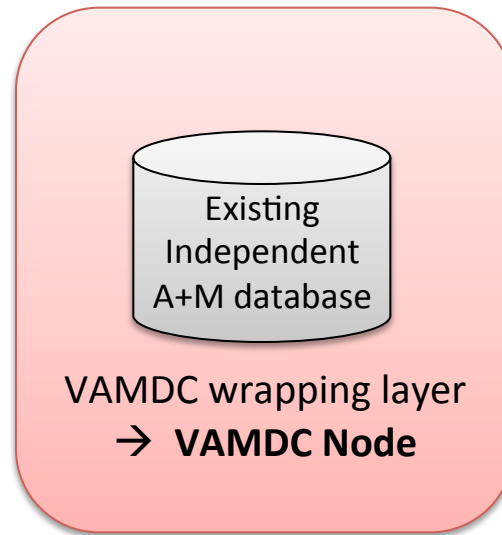
The VAMDC infrastructure technical architecture



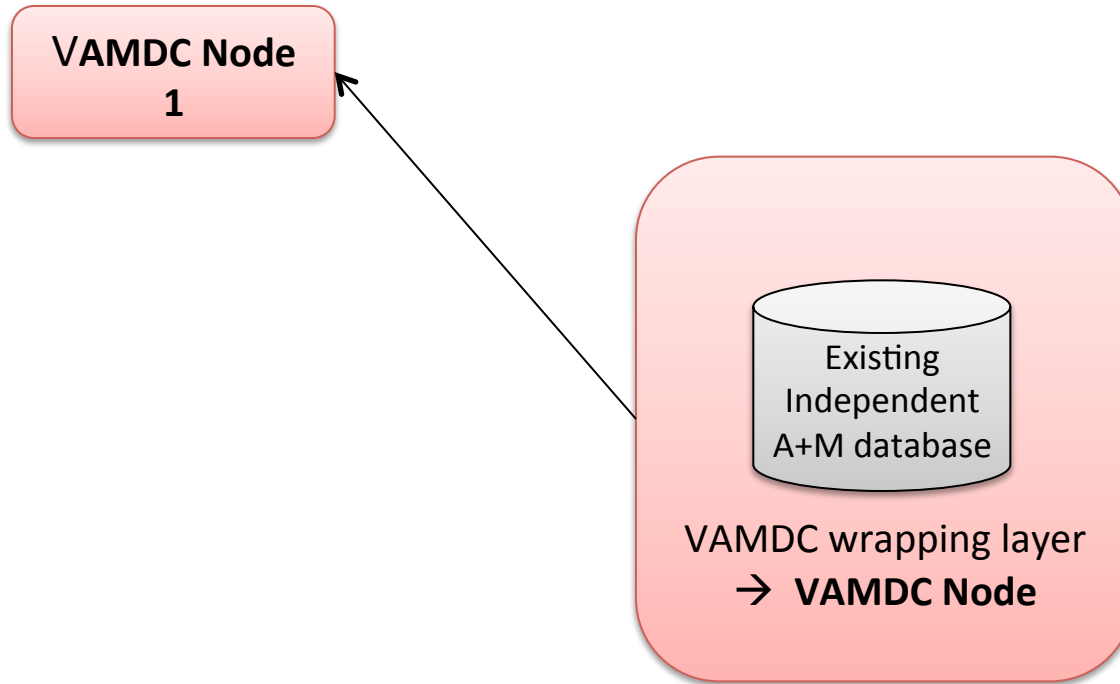
The VAMDC infrastructure technical architecture



The VAMDC infrastructure technical architecture



The VAMDC infrastructure technical architecture



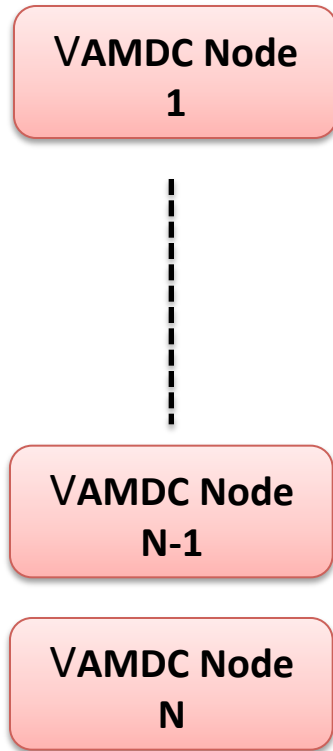
The VAMDC infrastructure technical architecture



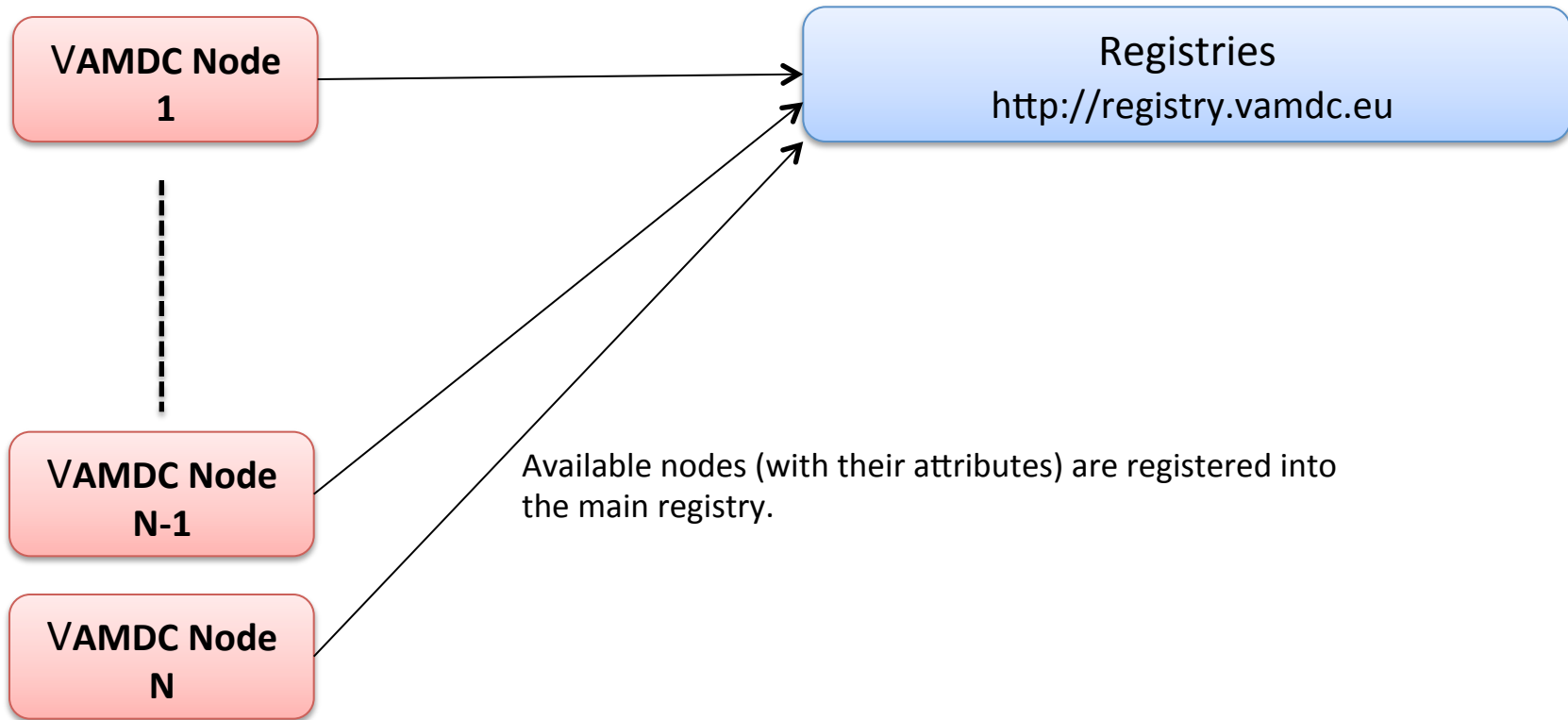
**VAMDC Node
1**

A red rounded rectangular box with a thin black border and a slight drop shadow, containing the text 'VAMDC Node 1' in bold black font.

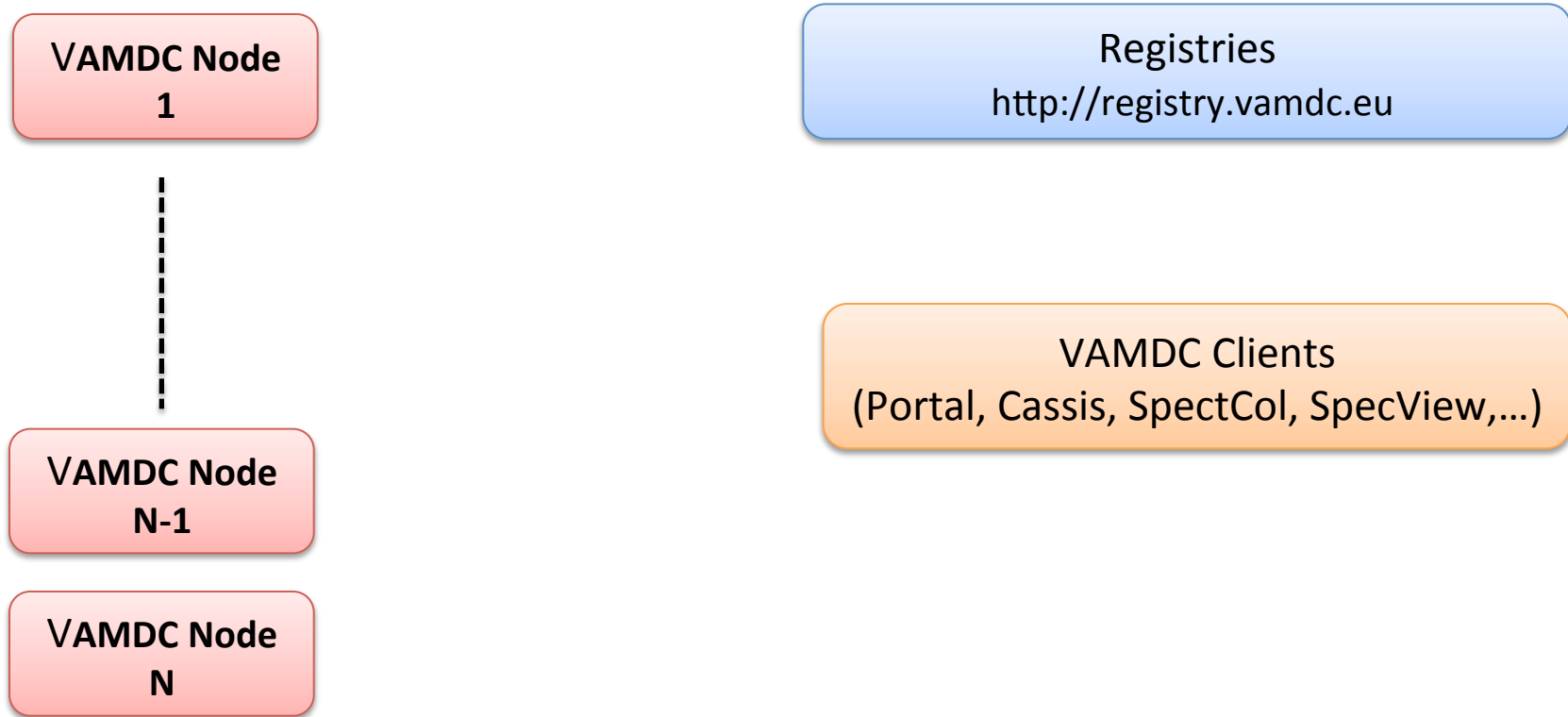
The VAMDC infrastructure technical architecture



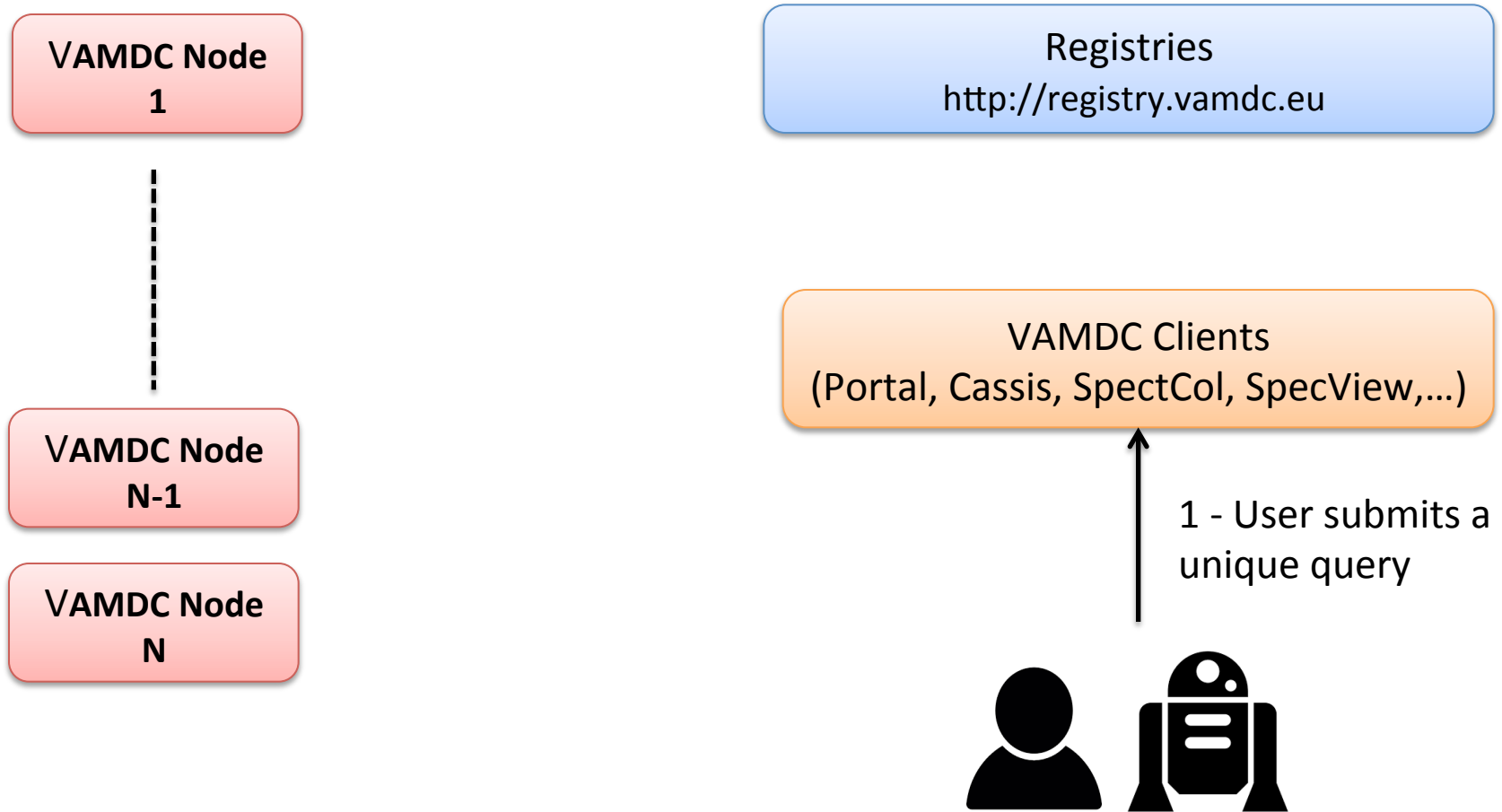
The VAMDC infrastructure technical architecture



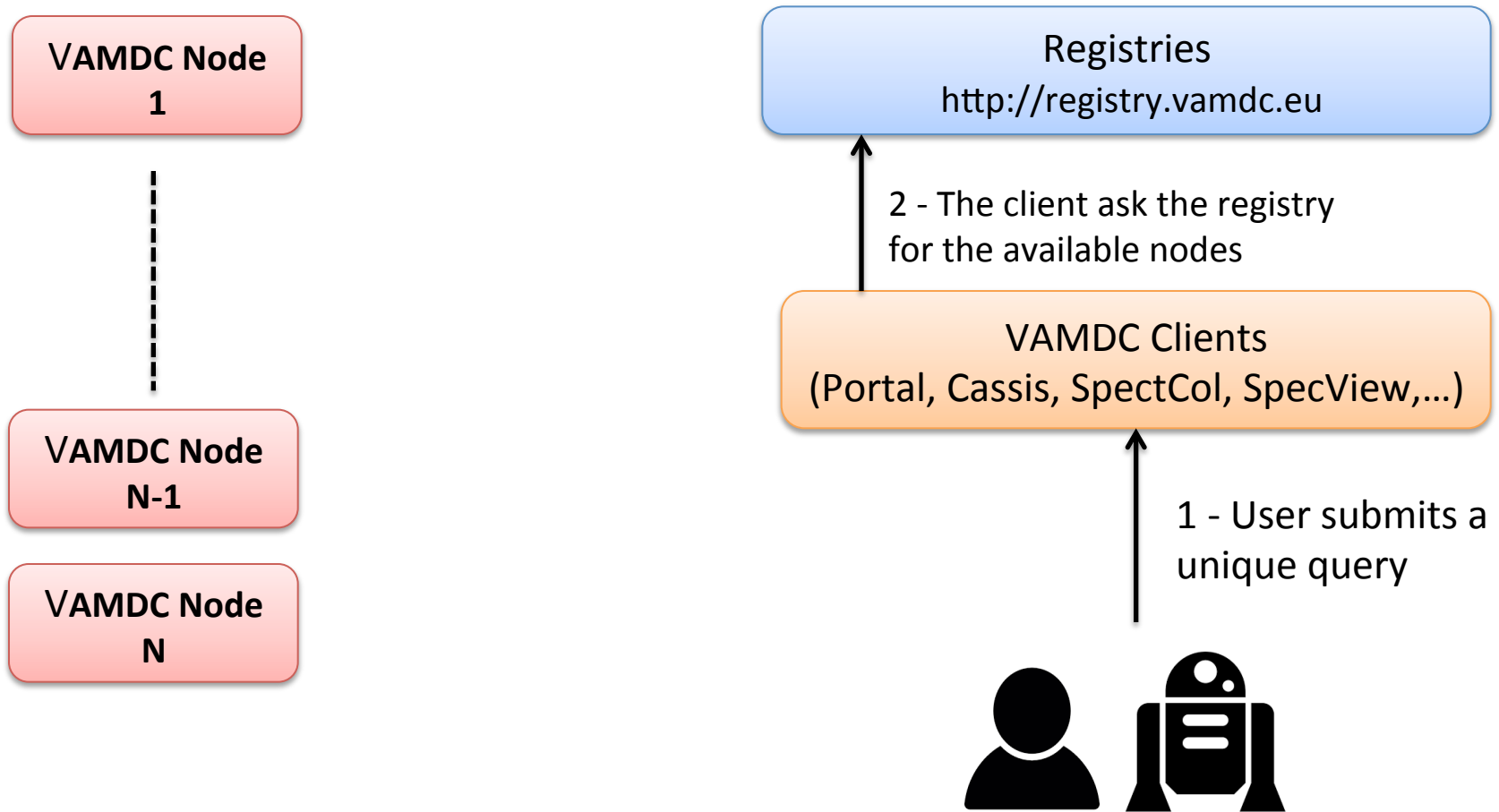
The VAMDC infrastructure technical architecture



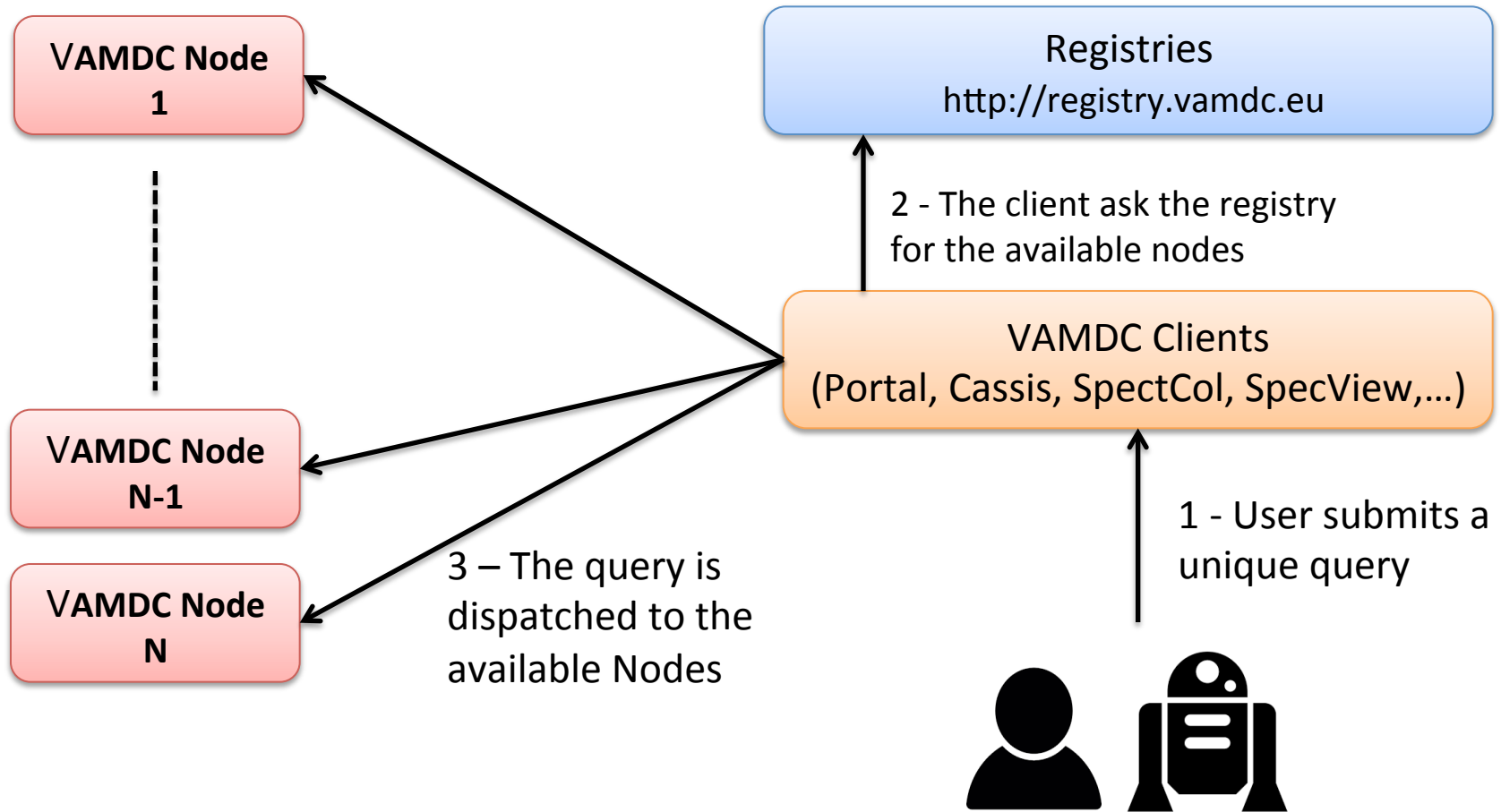
The VAMDC infrastructure technical architecture



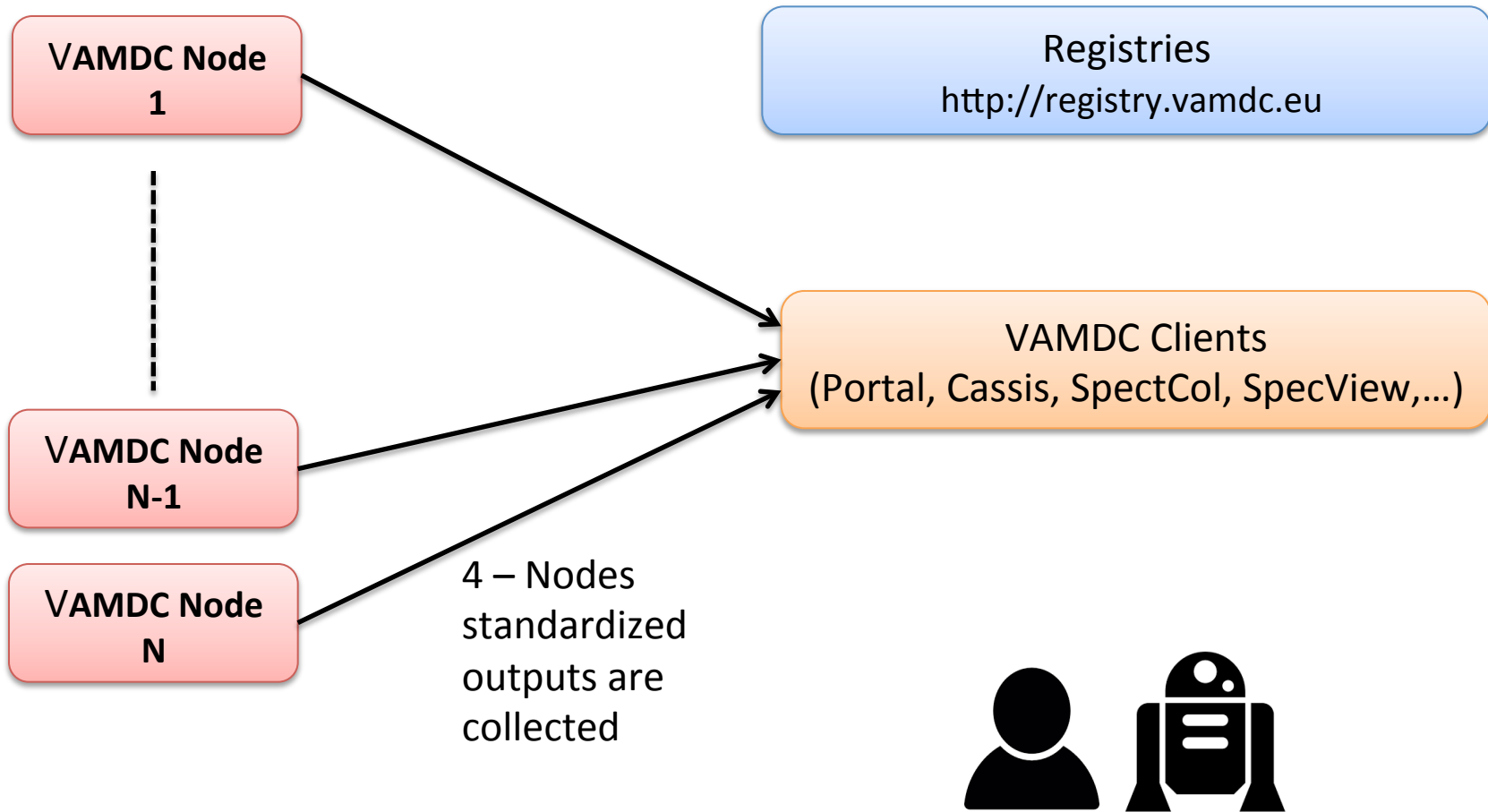
The VAMDC infrastructure technical architecture



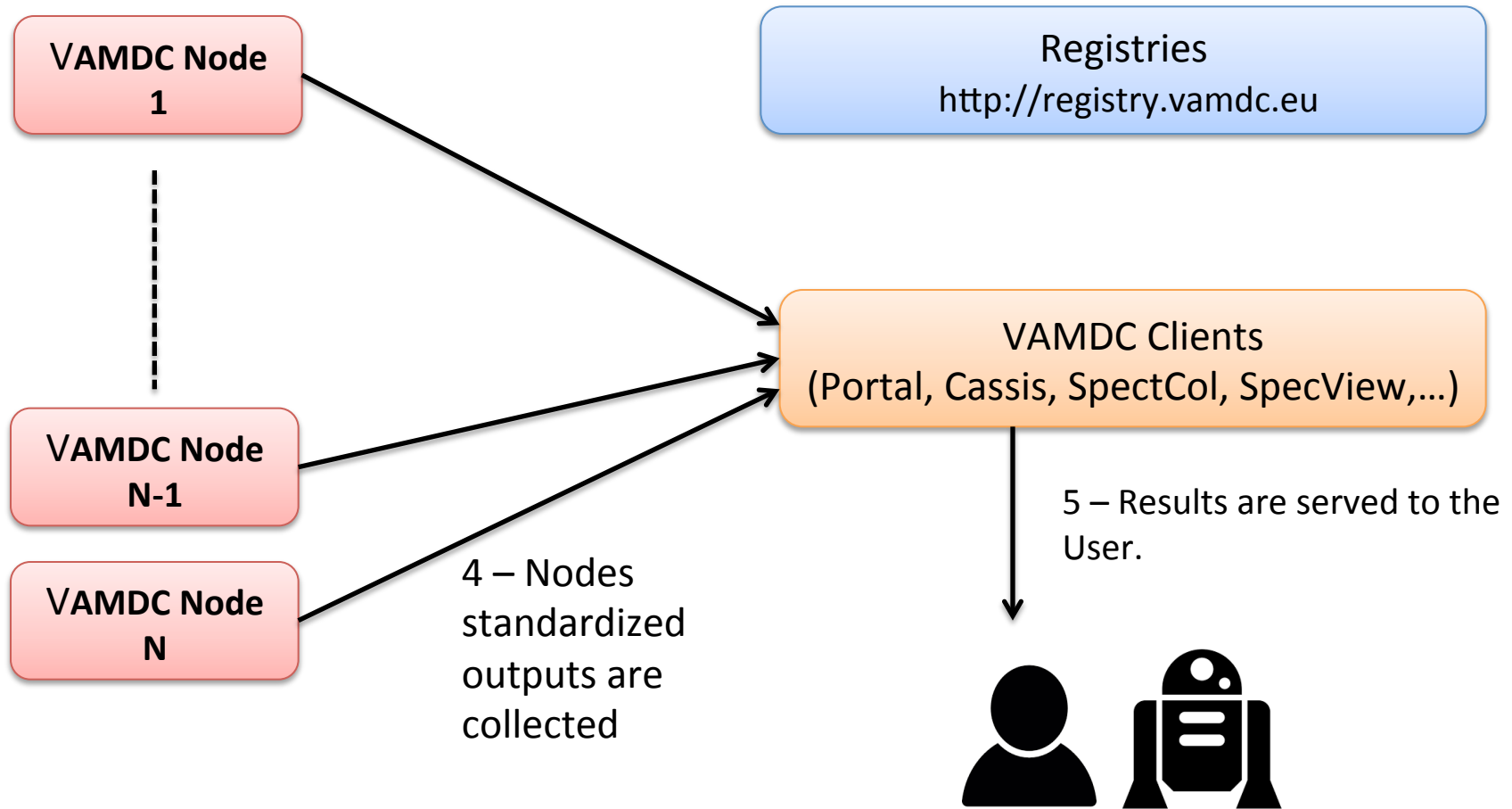
The VAMDC infrastructure technical architecture



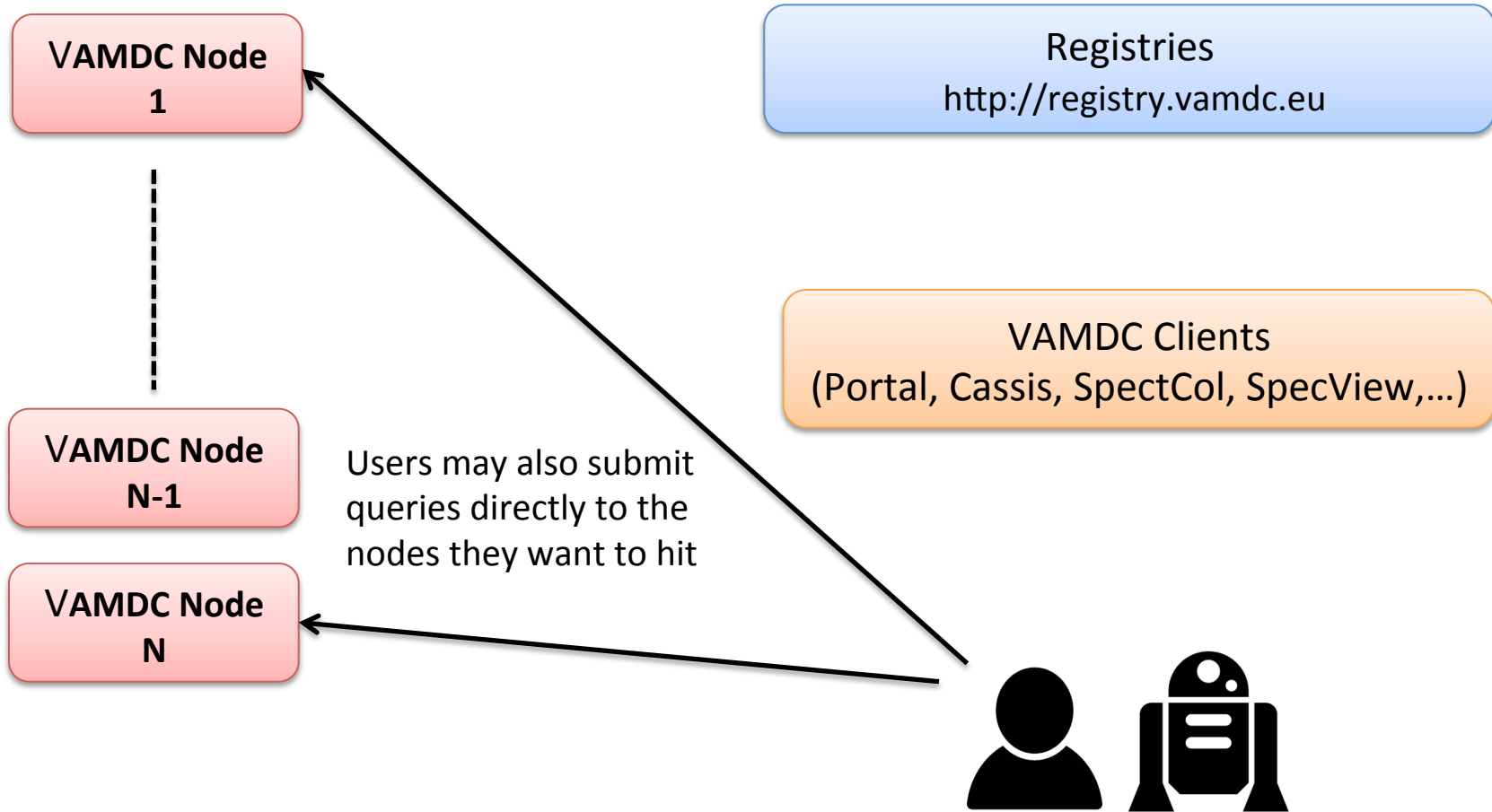
The VAMDC infrastructure technical architecture



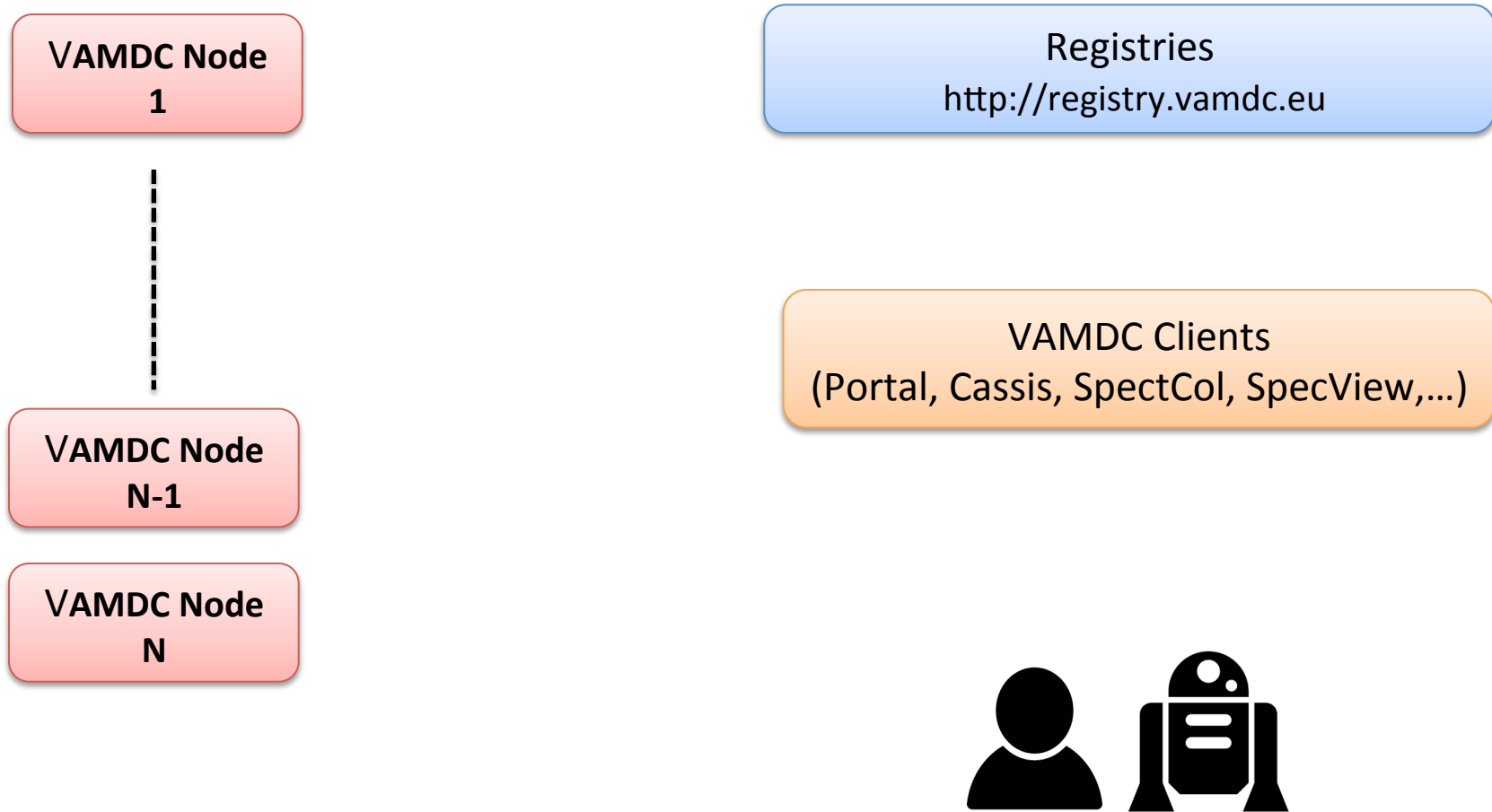
The VAMDC infrastructure technical architecture



The VAMDC infrastructure technical architecture



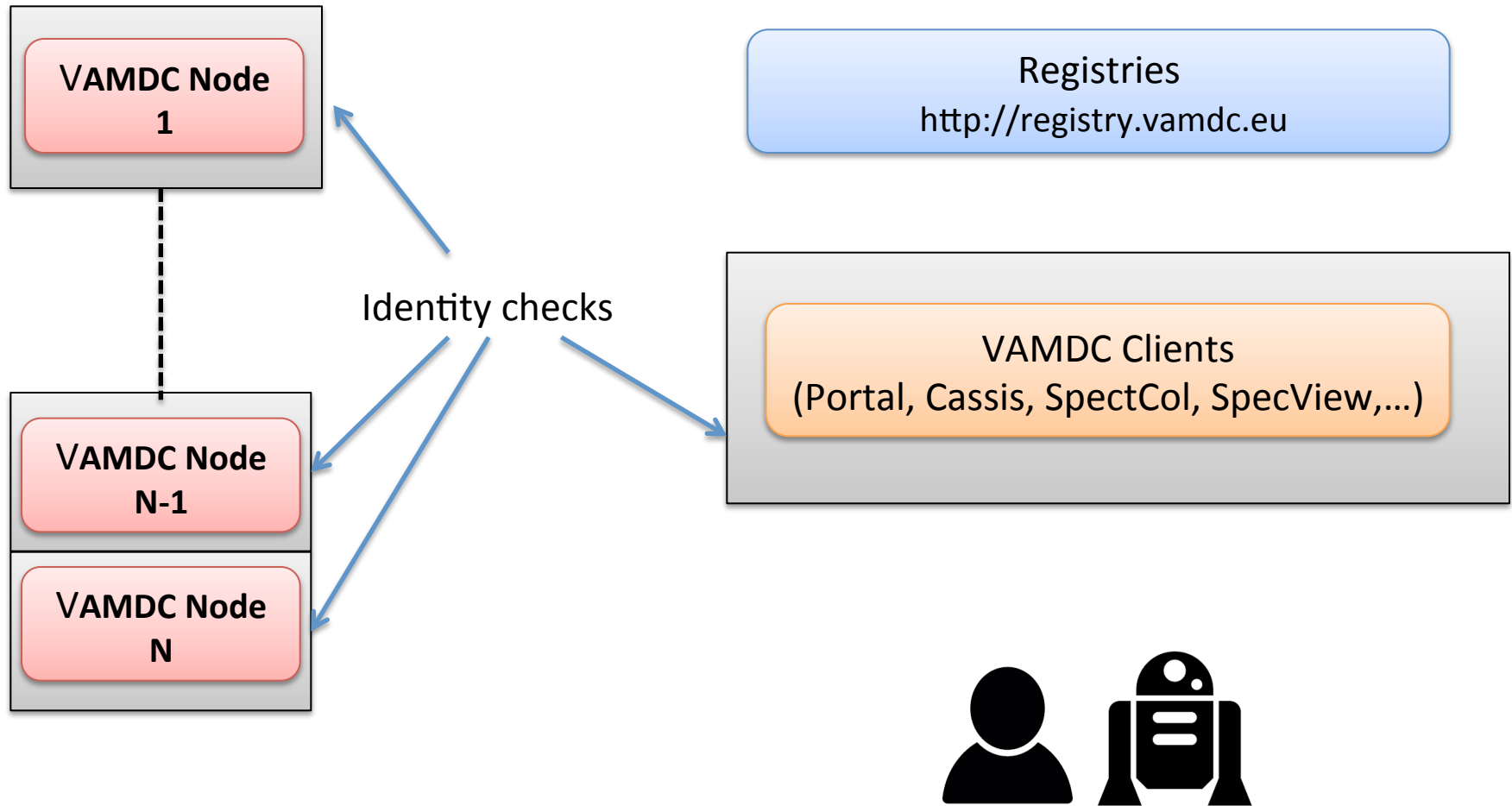
The VAMDC infrastructure technical architecture



We would like to provide the VAMDC infrastructure with an authentication/authorisation mechanisms.

According to the architecture checks should take place at the node level, at the client level

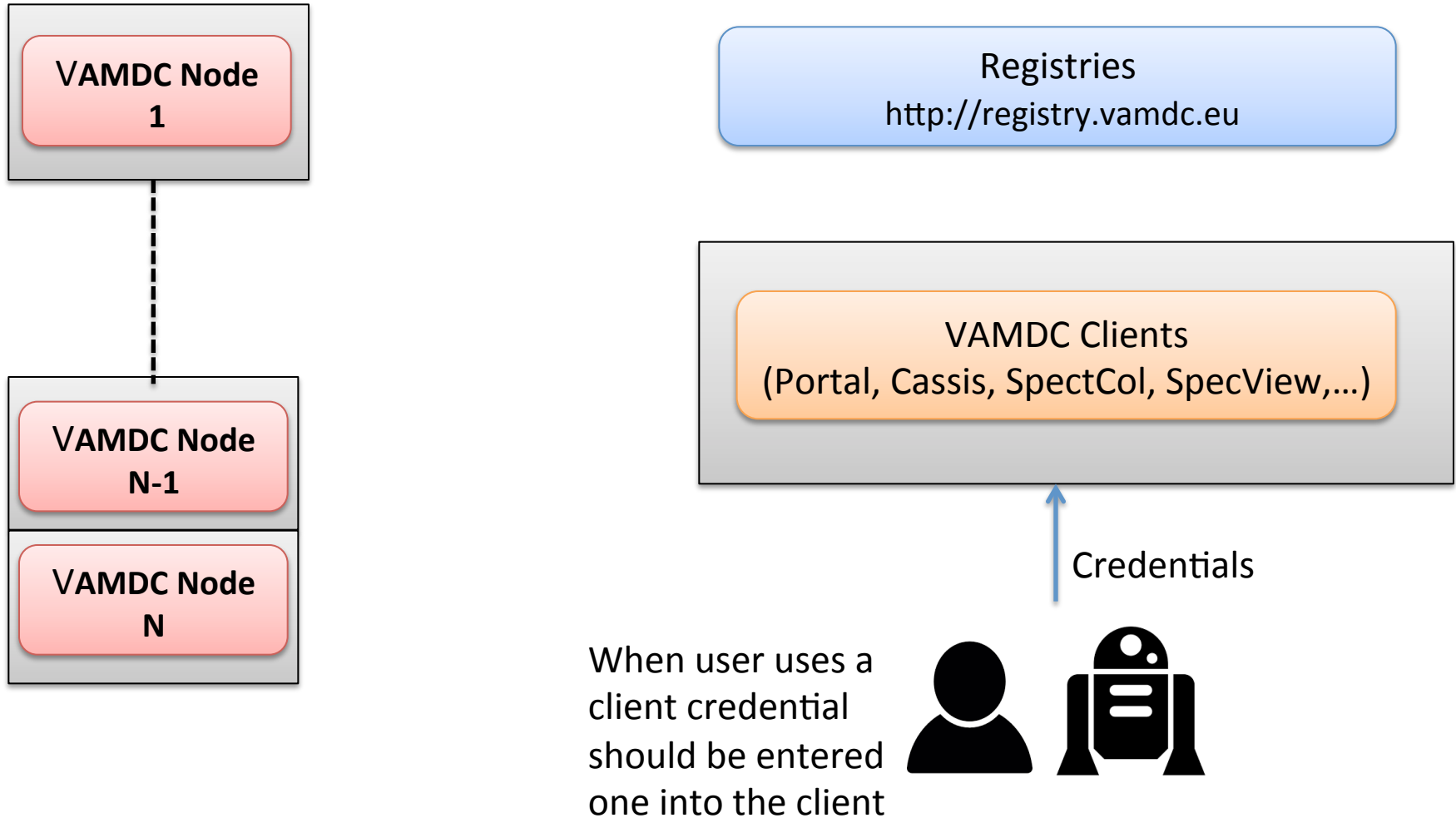
The VAMDC infrastructure technical architecture



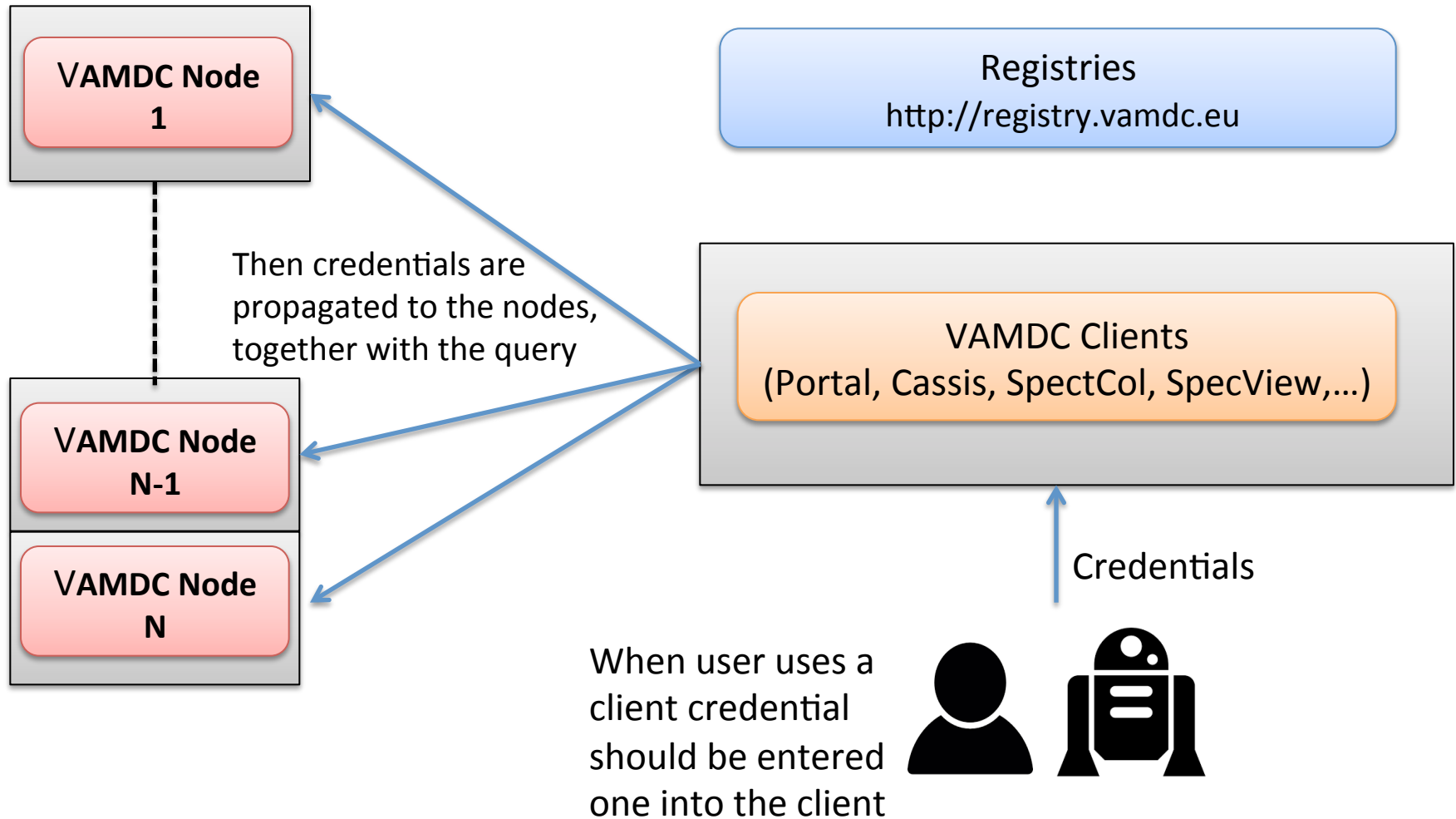
We would like to provide the VAMDC infrastructure with an authentication/authorisation mechanisms.

According to the architecture checks should take place at the node level, at the client level

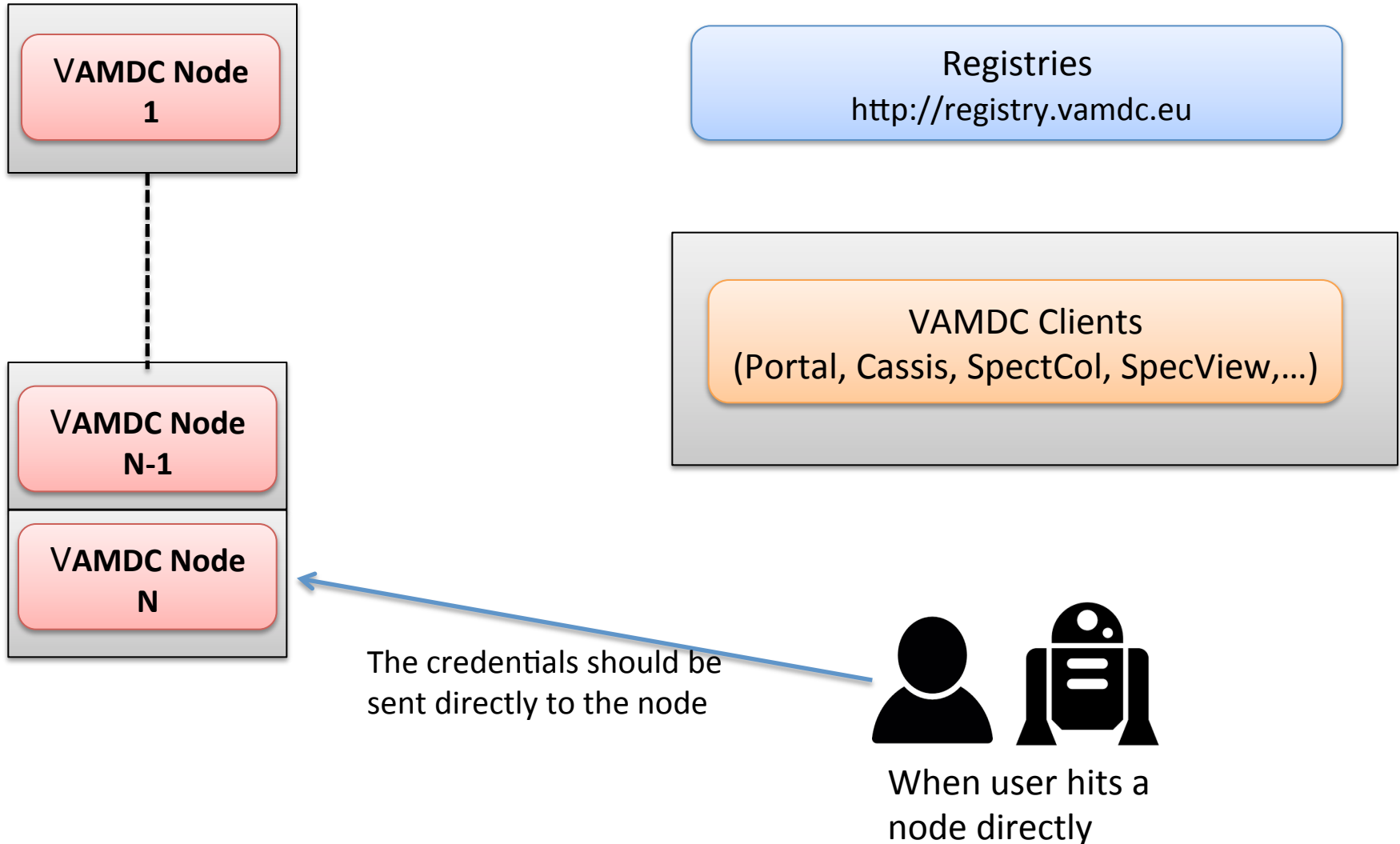
The VAMDC infrastructure technical architecture



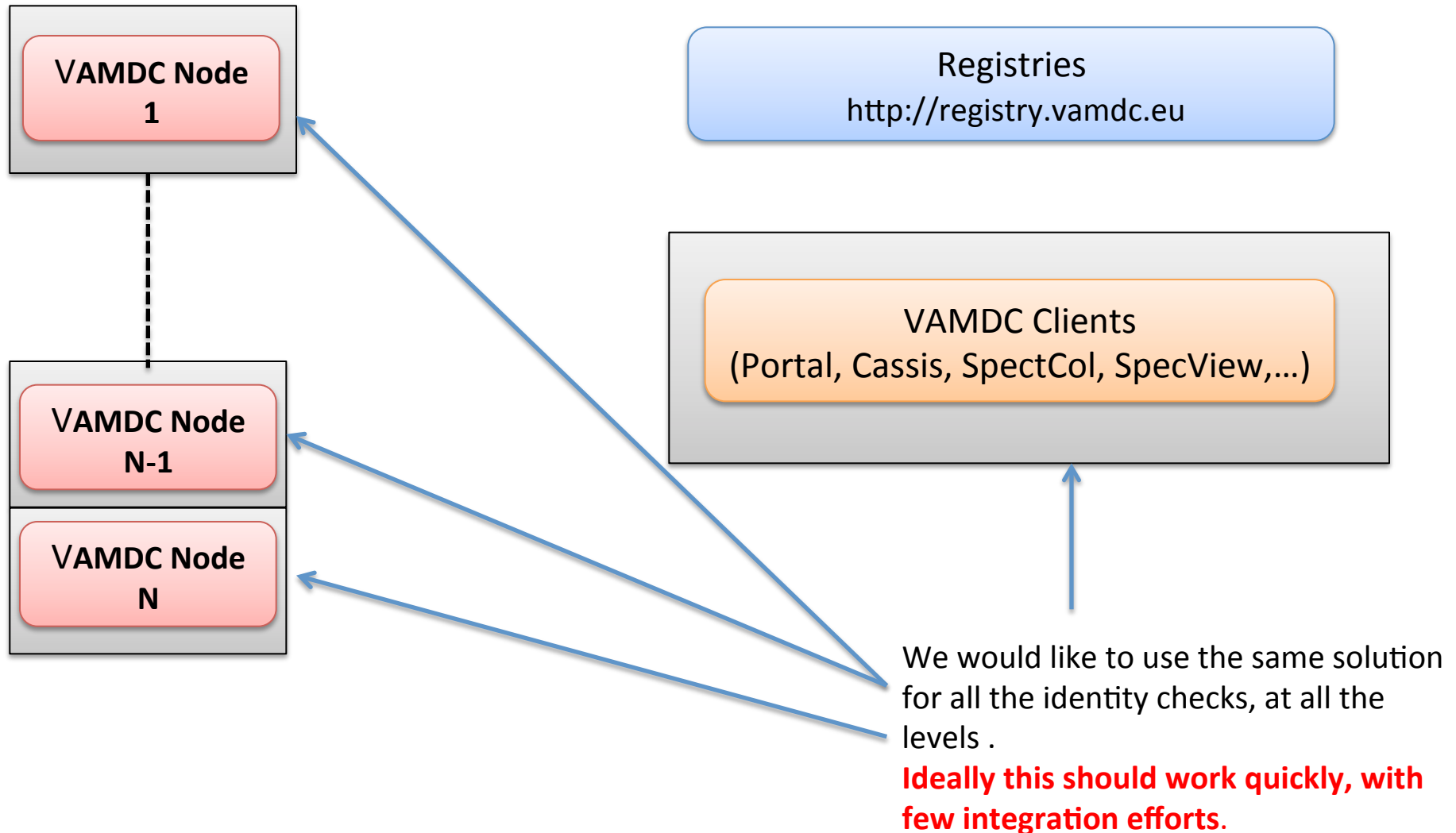
The VAMDC infrastructure technical architecture



The VAMDC infrastructure technical architecture



The VAMDC infrastructure technical architecture



Defining our needs for authentication

Service provider
perspective

we are looking for a solution that

- Works both in script and GUI mode
- Is easy to integrate and maintain.

Defining our needs for authentication

Service provider perspective

we are looking for a solution that

- Works both in script and GUI mode
- Is easy to integrate and maintain.

Final user perspective

The comfort of the user is a priority: the retained solution should not slow down and complicate the access to the e-infrastructure

Defining our needs for authentication

Service provider perspective

we are looking for a solution that

- Works both in script and GUI mode
- Is easy to integrate and maintain.

Final user perspective

The comfort of the user is a priority: the retained solution should not slow down and complicate the access to the e-infrastructure

Users should not create an ad hoc VAMDC identity and

Work with wider used accounts
(e.g. Google, Facebook, Orcid,
Windows, ...)

Defining our needs for authentication

Service provider perspective

we are looking for a solution that

- Works both in script and GUI mode
- Is easy to integrate and maintain.

Don't want to have to integrate (manually) new identity providers

Final user perspective

The comfort of the user is a priority: the retained solution should not slow down and complicate the access to the e-infrastructure

Users should not create an ad hoc VAMDC identity and

Work with wider used accounts (e.g. Google, Facebook, Orcid, Windows, ...)

Defining our needs for authentication

Service provider perspective

we are looking for a solution that

- Works both in script and GUI mode
- Is easy to integrate and maintain.

Don't want to have to integrate (manually) new identity providers

Final user perspective

The comfort of the user is a priority: the retained solution should not slow down and complicate the access to the e-infrastructure

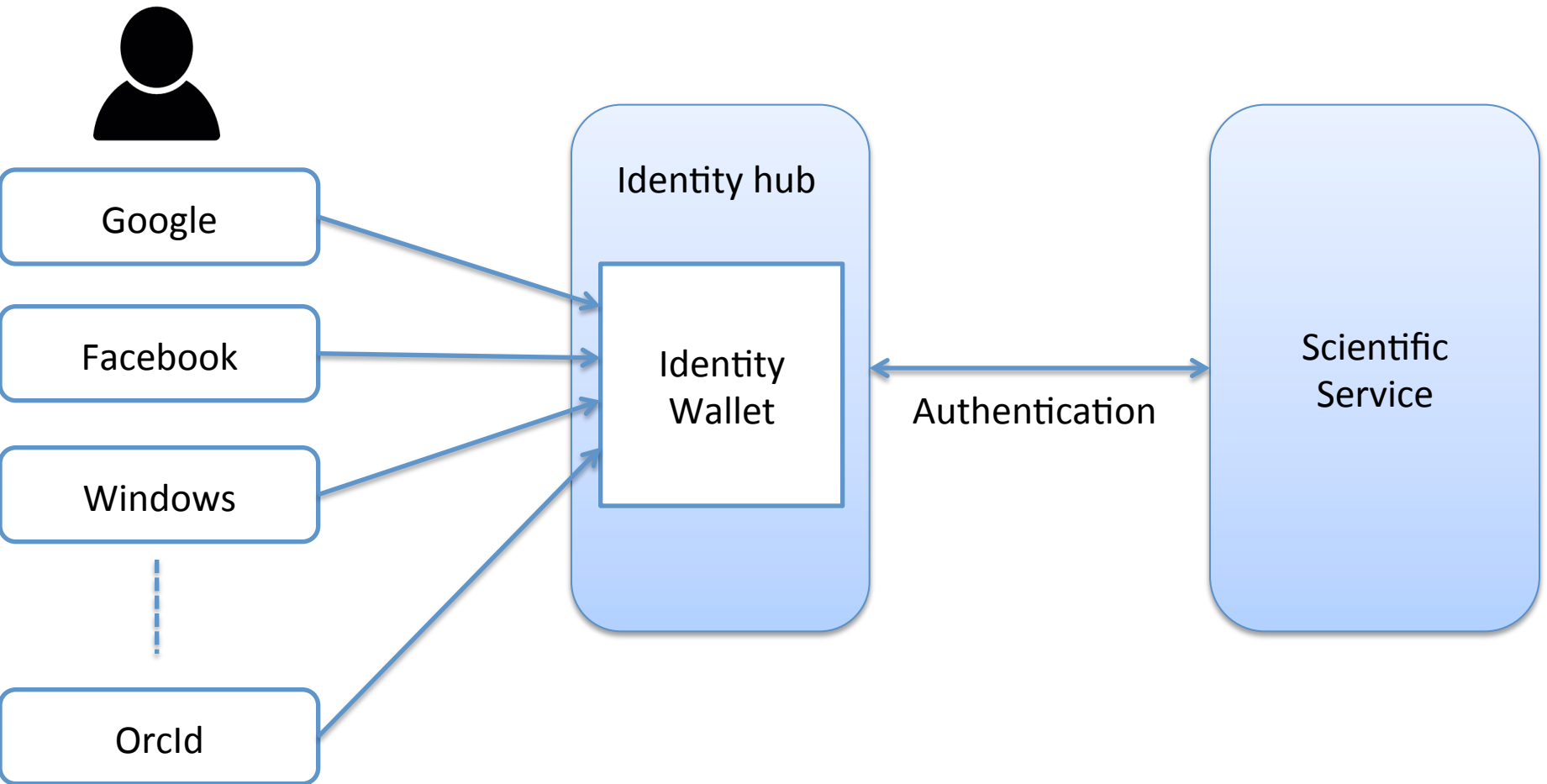
Users should not create an ad hoc VAMDC identity and

Work with wider used accounts (e.g. Google, Facebook, Orcid, Windows, ...)

Use alternatively two (or more) identities, being able to further merge the activities done under different virtual identities.

Defining our needs for authentication

Maybe we need a scientific identity hub:



Defining our needs for authentication

Maybe we need a scientific identity hub:

