

## Secure and trusted storage and archiving of research data at the Erasmus University Rotterdam.



The Erasmus University Rotterdam provides 3 storage services for research.

**1. During research:** the standard computer and network facilities of the Erasmus University Rotterdam (EUR) during the course of the research.

Services: storage, controlled access and backup is provided by the SSC ICT

Services are available for EUR staff members and accessible from the EUR workplace (on site) or via the remote desktop service<sup>1</sup> (RDP and MyApps), WebDAV or VPN connection (outside the EUR campus).

The EUR Information Security Policy is implemented in accordance with the Dutch Higher Education Reference Architecture.

The EUR adopted ISO/IEC 27001 (Information security management systems requirements specification) and the corresponding code of practice for information security ISO27002 (Information Technology - Security Techniques - Code of Practice for Information Security Management) as its management process and its security baseline respectively. The EUR works with a subset of the ISO27002, which is also being used by the Dutch government, and can be referred to as the Information Security Baseline.

This baseline (Baseline Informatiebeveiliging Rijksdienst (BIR)) comes with a tactical standards framework (tactisch normenkader (BIR:2012 TNK)<sup>2</sup>) and a corresponding operational guide for IT-measures (operationele handreiking (BIR-OH)<sup>3</sup>). The BIR is currently not fully implemented. At the moment a GAP analysis is performed to assess which additional steps need to be taken.

**2. During research:** online accessible data repository via Dataverse.nl <https://dataverse.nl/>

Services: storage, controlled access and backup is provided by DANS (Data Archiving and Networked Services) the KNAW / NOW funded body fostering sustainable access to digital research.

Services are available for EUR staff members and accessible online based on their EUR credentials

Research data is safely stored and made accessible via the Dataverse software which is developed and maintained by Harvard University and hosted for the Netherlands by DANS.

**3. After research:** online archiving via the DANS EASY system <http://www.dans.knaw.nl/en/deposit>

Services: long time archiving and access, provided by service provider DANS (Data Archiving and Networked Services) the KNAW / NWO funded body fostering sustainable access to digital research.

Services are available for EUR staff members and accessible online based on their EUR credentials

Research data is safely stored and made accessible via the EASY software which is developed, maintained and hosted by DANS.

### Certification of DANS EASY services<sup>4</sup> [data archiving]

1. Data Seal of Approval<sup>5</sup> (DSA) - since 2009

2. World Data System certificate<sup>6</sup> (WDS) - since 2015

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<sup>1</sup> See: [http://www.eur.nl/english/atweurk/instructions/how\\_to\\_access\\_the\\_weurk\\_remote\\_desktop/](http://www.eur.nl/english/atweurk/instructions/how_to_access_the_weurk_remote_desktop/)

<sup>2</sup> See: BIR-TNK: [http://www.earonline.nl/images/ear/6/6f/BIR\\_TNK\\_1\\_0\\_definitief.pdf](http://www.earonline.nl/images/ear/6/6f/BIR_TNK_1_0_definitief.pdf)

<sup>3</sup> See: BIR-OH: [http://www.earonline.nl/images/earpub/5/5c/BIR\\_Operationele\\_Handreiking\\_v1\\_0.pdf](http://www.earonline.nl/images/earpub/5/5c/BIR_Operationele_Handreiking_v1_0.pdf)

<sup>4</sup> Pending: DIN 31644 /NESTOR seal (application: 2015)

Pending: ISO 16363 certificate (Audit and certification of trustworthy digital repositories)

<sup>5</sup> See: <http://www.datasealofapproval.org/>

<sup>6</sup> See: <https://www.icsu-wds.org/services/certification>