

HP Operations Orchestration Software

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Security and Authentication for Operations That Use an RAS

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The title page of this document contains the following identifying information:

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 - The number before the period identifies the major release number.
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Authentication for RAS operations

A RAS is a Web Service that can run on any machine in any network. Repair System Central can use any RAS for which you have specified a valid URL and port in Studio, even a RAS that resides behind a firewall in a different domain.

When you create an operation that uses a RAS, you must provide account credentials both for an account on the computer where the RAS is located and for an account on the target computer. On a Windows computer, each service runs using a particular set of account credentials, with the rights of the account in a particular domain. The RAS usually (always, when it runs on the same server as Central), runs as Local System. The account that the RAS is logged in as may be a domain administrator on one domain, but not on another.

For example, installing Central automatically installs a JRAS and an NRAS on the Central server (in the domain USA). Both of them run as Local System with the following URL/port combinations:

- JRAS_Operator_Path: <http://localhost:9002/JRAS/services/RCAgentService>
- NRAS_Operator_Path: <http://localhost:9005/NRAS/services/RCAgentService.asmx>

Now suppose that you need to run an Ops flow on a computer in the Euro domain. If you install NRAS on a computer named Italia in the domain Euro, you can now create the NRAS_Operator_PathEuro RAS, with the following URL/port combination:

- NRAS_Operator_PathEuro: <http://italia:4080/NRAS/services/RCAgentService.asmx>

Let's suppose also that you can run as the following users:

- Local (on the Central server) user LocalAdmin (password: LocalAd88), with Local Administrator rights
- Euro domain user EuroAdmin (password: EuAd66), with Domain Administrator, Enterprise Administrator, and Local Administrator rights

Let's suppose that you want to run the flow IsAccountLocked in order to see whether there is a user in the Euro domain whose account is locked. This flow will require an account with domain administrator rights in the Euro domain:

1. Central server in USA domain
2. NRAS_Operator_PathEuro in the RAS entries
3. When prompted by the flow, provide the following:
 - Domain Controller Name = Euro.Italia.ad Mailbox
 - User = testuser1

This is the user against whose account you're going to run IsAccountLocked. The form of the account must be domain\username.

- Alternate Credentials UserName = Italia\EuroAdmin
- Alternate Credentials Password = EuAd66

Note that:

- The alternate-credentials account must have Domain Administrator rights in the Euro domain. An account with Domain Administrator rights for the USA domain cannot successfully run the flow. The Euro domain does not recognize the rights of a USA domain account, because the ACLs are not the same.
- You must use NRAS_Operator_PathEuro because the flow contains an operation that needs the target computer's fully distinguished name (that is, one that includes the domain) from LDAP. NRAS_Operator_Path, which is the NRAS running on the Central server as a Local System user, cannot resolve partial Active Directory names in the Euro domain.

To change a service's account credentials

- Open the logon properties of the service.

WMI-based operations

RAS operations that use Windows Management Interface (WMI) are a special case.

WMI-based ops require a user name and password for authentication only on the target computer. The operation does not need an account on the computer on which NRAS runs.