

How to Make a Local SLD High Available



Applies to

SAP Netweaver 7.0. For more information, visit the [Landscape Design and Architecture homepage](#).

Summary

There are several possibilities to access a SLD in a high available environment. Install an external SLD, make the CI ha or install a Web Dispatcher. This document describes the use of the Web Dispatcher for granting high availability of your SLD.

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Introduction

A high available AS Java System has some SPOF's (single points of failure). The SCS instance which includes message server and enqueue server and also the database. See [SAP Web AS Java Failures](#) for more information.

The Java Central Instance (JC<instancenumber>) and one or more dialog instances are no single points of failure. That means that CI and DIs normally are not part of a HA solution.

That could be a problem if you use Web Dynpro connections. These connections are stored in a SLD and are no more available if the SLD is not connectible. E.g. in an Enterprise Portal. In this case you do need a HA solution if you have no idea how to treat your SLD.

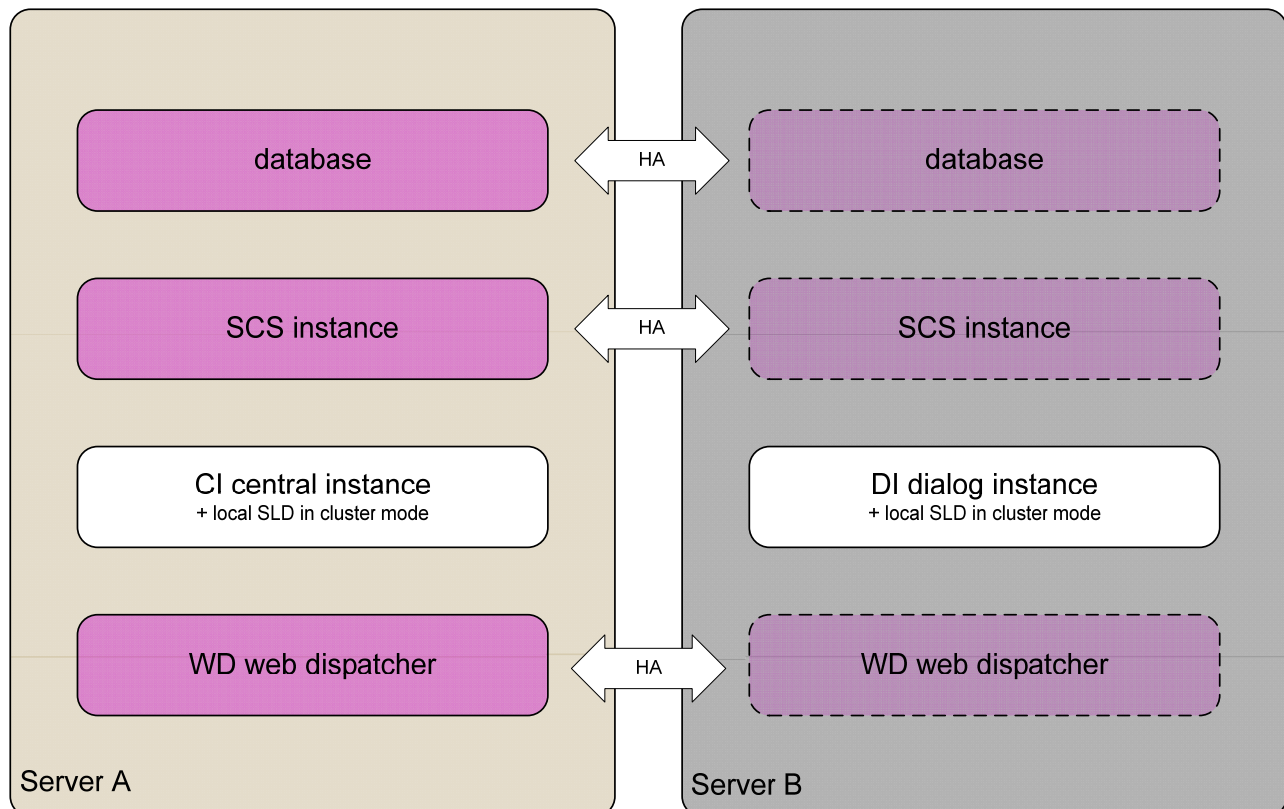
To solve this problem you can install an additional SLD. That's a possibility but remember – you have to make this one high available too. Alternatively you can integrate your CI to your HACMP, Serviceguard, ... solution.

If you use a CI and one or more DIs in your environment, you also have a SAP Web Dispatcher for load balancing of the http requests. You can use this piece of software to make your local SLD "high available".

Initial situation

In the example environment the SCS instance, the database and the Web Dispatcher are high available. CI and DI not – the SLD is installed as local one and points to Alias and Port of the CI.

If a takeover from Server A to Server B appears, the SLD connections (e.g. for Web Dynpro) do not work anymore.



Prerequisites

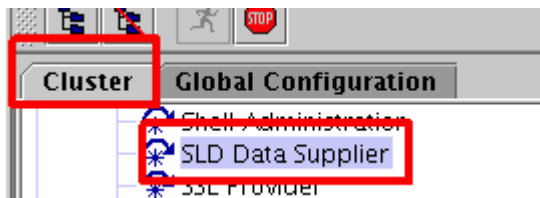
1. There are at least one CI and DI installed on different hosts. They work as a cluster.
2. Web Dispatcher is high available

Solution

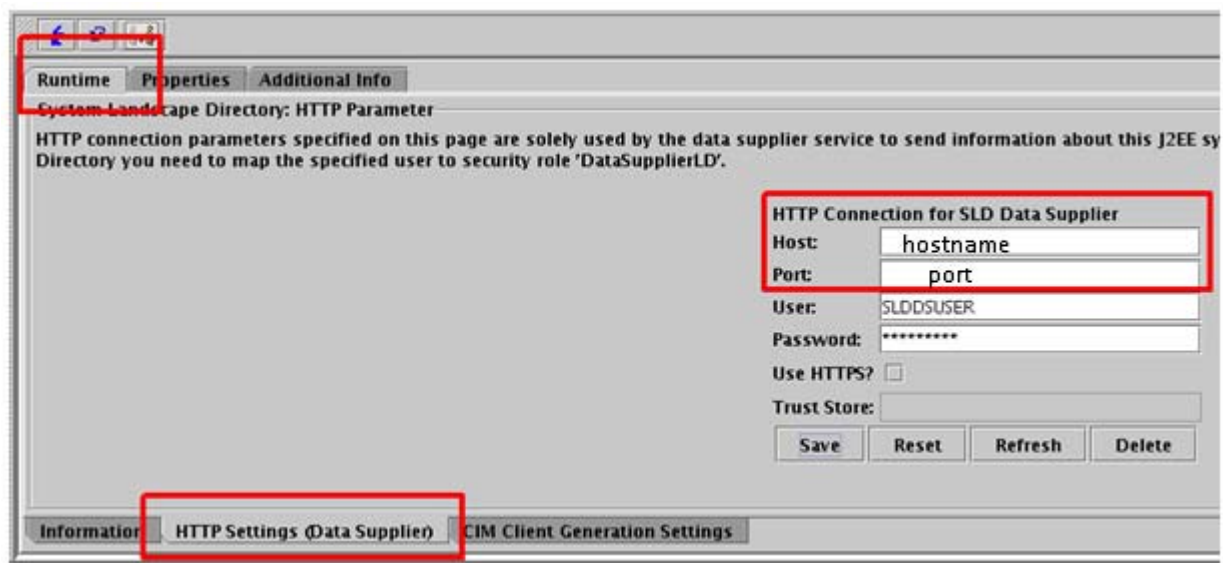
As initially described this problem can easily be solved with using the Web Dispatcher. The only thing you have to do is to reconfigure Visual Admin.

To do that start the Visual Administrator. Go to `/usr/sap/<SID>/JC<Inst.number>/j2ee/admin`. Start it with go command (depends on your software environment).

When ready navigate to Cluster → Server → Services → SLD Data Supplier



Change to tab "Runtime" and edit both "HTTP settings" and "CIM Client Generation Settings". Insert the host name and port of the SAP Web Dispatcher.



Runtime Properties Additional Info

System Landscape Directory: CIM Client Generation Information

HTTP connection parameters specified on this page are used by applications sending requests to your System Landscape Directory (SLD). The role 'LcrUser' (read access). Additional write access permissions may be required by certain applications. Please refer to the corresponding :
You no longer need to maintain protection domains in addition to the HTTP parameters as was necessary in previous releases.

HTTP Connection for SLD Clients

Host: hostname

Port (http/https): port

User: SLDDSUSER

Password: *****

Use HTTPS?

Trust Store: TrustedCAs

Save Refresh Delete CIMClient Test

Information HTTP Settings (Data Supplier) CIM Client Generation Settings

To end the maintenance restart the cluster.

Related Content

For more information, visit the [Landscape Design and Architecture homepage](#).

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