

IMS Installation checklist

Document number: IMS-SYSTEM-INSTALL-CHECKLIST-201206-DBv9

Customer/Site Name: _____

Engineer(s): _____

Dates of Installation: _____

New system installation: ☐

Existing system upgrade: ☐

Existing system expansion: ☐

1	Before going to site:	Result
1.1	Ensure that Server specification meets minimum requirements	
1.2	If converting from an ISS to IMS system, plan the changeover; things to think about: separate server machines or re-install, data/configs conversion, backup of ISS system, etc.	
1.3	If downtime is expected during a changeover, inform the customer and make sure they are aware of, and agree to the downtime	
1.4	If services are included in the order, inform processing department about upcoming install	
1.5	Download all packages before going to site (http://software.imseismology.org/get_ims_installers)	
1.6	Obtain licenses (Synapse, Trace, Vantage, DB-Server) - Incl. Network License Seats (where applicable) - Now might be a good time to convert the customers MAC licenses to network licenses	
1.7	SPN signed off by customer, IT requirements included in SPN	

2	System installation (on site):	
2.1	Update all firmware of all IMS hardware	
2.2	Where GSs are upgraded to GS+s, ensure GS firmware is up to date (2011-07-28), this saves you from running into issues like "Locked kernel", packages unavailable, etc.	
2.3	Configure all netSP and DSL modems network settings	
2.4	Document network devices (IP addresses, hosts file, location, connections, etc.) in hosts file using IMS convention	
2.5	If converting or upgrading an existing system which will be going offline during the upgrade, create a ticket in the [Notices] queue on IMS Request Tracker (RT) System	
2.6	If not already done, install and update server OS according to IMS Server Installation Guide. Make sure that /data belongs to "ims" and that /data/ims/xxxIMS is created successfully	
2.7	Install IMS software according to IMS Server Installation Guide (System setup, services software, Synapse, DB-Server - R/O for ticker3D, R/W for services customers, etc.)	
2.8	Customise OS according to IMS Server Installation Guide	
2.9	Update Synapse, Trace and Ticker3D via GUI, and Synapse Server + DB-Server via update script	

3	System configuration parameters:	
3.1	If converting from system running ISS RTS: Run IMS Config Converter before setting up IMS configs	
3.1.1	* Confirm coordinate settings converted correctly	
3.1.2	* Confirm associator and group association settings converted correctly, and that reasonable values are entered for new settings	
3.1.3	* Confirm site settings converted correctly	
3.2	Setup coordinate system before configuring any sites (new systems)	
3.3	Add local NTP server (preferably on LAN supplied by IT) to /etc/ntp.conf	
3.4	Set config parameters according to system requirements (e.g. Services setting: Large auto event notification should be $\geq 1/2$ no. of sites)	
3.5	Configure sites and devices	
3.6	Set up automatic test pulse execution	
3.7	Ensure there are no serious "issues" in Issue Monitor	

4	Additional:	
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4.1	Ensure all servers/services are automatically started by the cron	
4.2	Are netSP's slaving to Synapse NTP server, and is Synapse slaving to its server? (ntpq -p)	
4.3	Are events being auto-processed?	
4.4	If processing customer: Ensure portal is configured (needs file from processing dept.) and running (will not start without config file) and connecting to server (use "test_portal" or "watch_portal_log")	
4.5	Sync the configs back to IMS (send_configs_and_portal_backups)	
4.6	If processing customer: Is processing department receiving data and data sent back to mine? You must receive confirmation from processing/support department. This includes monitor and ATU files.	
4.7	Is processing department happy with waveforms?	
4.8	If subscribed to sys admin (processing customers typically are): Configure systems monitor rules (find out which contacts on the mine should receive system notifications). Does the system show up in the systems monitor web page?	
4.9	If subscribed to sys admin (processing customers typically are): Notify relevant departments to activate service (seismologists set up daily system status reports, processors add to work instruction for log in's)	
4.10	Install TeamViewer	
4.11	Install Synapse GUI, Trace and Ticker 3D on customer machines	
4.12	If required, setup SAMBA shares on seismic server and map to Windows drive for customer: one for database (Trace) and one for exported EVP's (Jdi) or EVS's (Vantage). Do this typically for non-services customer)	
4.13	Setup EVP/EVS for MSRAP to SAMBA shared folder	
4.14	If conversion, make sure only the relevant sites are marked for system health reporting	

Changes

Date	Comments	Version
15/06/2012	Initial release (by Dolf Bredenkamp)	1
30/04/2013	Fixed references to Vantage and added hosts file check (by Dolf Bredenkamp)	2
30/04/2015	Updated document number; general updates (by Gareth Goldswain)	3
06/10/2015	Added additional checks for RTS->Synapse conversions (by Dolf Bredenkamp)	4
10/12/2015	Formatting; added 2.2; expanded on 3.1.1; Added 4.5, changed 4.8, added 4.12 (Eugene Pinder and Dolf Bredenkamp)	5
11/03/2016	Minor changes	6
31/01/2019	Changed point 4.6 and added point 4.8	7
14/05/2019	Additional checks for service levels and checks relating to sys admin	8
14/08/2020	Minor updates and corrections	9