**Rosetta Implementation Site Readiness Checklist**

**NOTE: Ex Libris can formally commence the implementation process and schedule the kick-off meeting upon completion of topics 1 to 13.**

**NOTE: Documents referenced in the “For more information” column can be downloaded from http://knowledge.exlibrisgroup.com/Rosetta**

|  |  | **Topic** | **Item or Task** | **For More Information** |
| --- | --- | --- | --- | --- |
|  |  | Project Team | Validate the nomination of the following key personnel:   * Project sponsor * Project manager * Rosetta System Librarian * IT Staff (Rosetta System Admin) * Data expert (Metadata Librarian) * Development (if aplicable) * Preservation Analyst |  |
|  |  | Environment | **The environment preparation must be completed prior to the Rosetta installation. The number of servers and specifications per server are issued based on the sizing questionnaire that is completed by the customer** |  |
|  |  | Specification  per Server | Number of servers as per sizing.  Each server must include at minimum (unless specified differently in the sizing):   * 8 CPU * 24 GB RAM   For virtual machines, resource allocation reservation is mandatory. | [*Requirements for Rosetta Installation*](https://knowledge.exlibrisgroup.com/@api/deki/files/57362/Requirements_for_Rosetta_Installation.pdf?revision=1) |
|  |  | Server’s Operating System | Linux: Red Hat AS/ES 6.x/7.x 64‐bit | [*Requirements for Rosetta Installation*](https://knowledge.exlibrisgroup.com/@api/deki/files/57362/Requirements_for_Rosetta_Installation.pdf?revision=1) |
|  |  | Additional  Software | C‐shell package (csh or tcsh) & Linux platform GCC, as part of the operating system  Oracle RDBMS add‐on software | [*Requirements for Rosetta Installation*](https://knowledge.exlibrisgroup.com/@api/deki/files/57362/Requirements_for_Rosetta_Installation.pdf?revision=1) |
|  |  | File System and Disk Space | ****Rosetta database file system mount: /exlibris (at least 50GB)  ****For each server - Rosetta software file system mount:   /exlibris (50GB per server).  ****4 NFS shared mount points, at least 50GB each   (accessible to ALL servers for installation):   - Deposit storage (/deposit\_storage),  - Staging storage (/operational\_storage),  - Permanent storage (/permanent\_storage),  - Operational Shared (/operational\_shared)  *Note: Permanent storage may change upon sizing.* | [*Requirements for Rosetta Installation*](https://knowledge.exlibrisgroup.com/@api/deki/files/57362/Requirements_for_Rosetta_Installation.pdf?revision=1) |
|  |  | Storage Requirements | For the Rosetta software - any file system protocol (local file system, FCP, iSCSI)   * Physical disks at least 75MB/Secs transfer rate * Dedicated NIC for storage (1Gb minimum) * Minimum 1500 IOP/Sec with response time <= 8 milliseconds for database.   For repositories Storage (operational and permanent) Rosetta supports the following protocols:   * NFS * CDMI * S3 * Any POSIX‐compliant | [*Requirements for Rosetta Installation*](https://knowledge.exlibrisgroup.com/@api/deki/files/57362/Requirements_for_Rosetta_Installation.pdf?revision=1) |
|  |  | Media for Data Exchange | **FTP** access is enabled for the following IP addresses:  [ftp.exl.de](ftp://ftp.exl.de); [ftp.exlibrisgroup.com](ftp://ftp.exlibrisgroup.com); [ftp.exlibris-usa.com](ftp://ftp.exlibris-usa.com); [ftp.exlibris.co.il](ftp://ftp.exlibris.co.il); ftp-apac.hosted.exlibrisgroup.com. | [*Requirements for Rosetta Installation*](https://knowledge.exlibrisgroup.com/@api/deki/files/57362/Requirements_for_Rosetta_Installation.pdf?revision=1) |
|  |  | Network Configuration | * Each Rosetta server has a fully qualified hostname (include short hostname and domain name) that is registered in the DNS. * The server name is defined in /etc/hosts | [*Requirements for Rosetta Installation*](https://knowledge.exlibrisgroup.com/@api/deki/files/57362/Requirements_for_Rosetta_Installation.pdf?revision=1) |
|  |  | Remote Server Access | Ex Libris implementation team has access to the system via the Internet with a minimum bandwidth of 64 KBp.  Access is available both to the UI using browser and SSH to the server. | [*Rosetta Installation Request Form*](https://knowledge.exlibrisgroup.com/@api/deki/files/39710/Rosetta_Installation_Request_Form.doc?revision=2) |
|  |  | Configuration of Services and Ports | **Port for Web access on the Rosetta server (between servers):**  ****Rosetta Application [1-9]801 (e.g. 1801,2801 etc.)  ****Rosetta Application – Debugging 5001  ****From all servers to the Oracle DB server: 1521  ****From all servers to Solr server : 8983  ****Mail: 25  ****FTP: 21  ****SSH: 22  *****HTTP (PDS) port 8991 - only if PDS is required*  **Between the servers and Ex Libris IP’s:**  ****Rosetta Application [1-9]801 (e.g. 1801,2801 etc.)  ****Mail: 25  ****FTP: 21  ****SSH: 22  *****HTTP (PDS) port 8991 (can be replaced with port 80 or 443)- only if PDS is required* | [*Rosetta Installation Request Form*](https://knowledge.exlibrisgroup.com/@api/deki/files/39710/Rosetta_Installation_Request_Form.doc?revision=2)  [*Requirements for Rosetta Installation*](https://knowledge.exlibrisgroup.com/@api/deki/files/57362/Requirements_for_Rosetta_Installation.pdf?revision=1)  KCS article “[*What Ports Need to be Opened for Rosetta?*”](https://knowledge.exlibrisgroup.com/Rosetta/Knowledge_Articles/What_ports_need_to_be_opened_for_Rosetta%3F) |
|  |  | Firewall Settings | Confirm that **SSH**, **FTP** & **HTTP** access is enabled for Ex Libris.  The IPs below are enabled for remote access in the firewall:  Ex Libris Rosetta Installation team: 212.179.71.70 ; 212.179.71.34; 192.117.110.4  Additionally, the IP’s below are included depending on the customers’ region:  USA: 192.80.206.206 ; 12.21.149.130  Germany: 195.37.97.145; 194.8.220.178 ; 217.91.56.60  Australia: 203.87.118.110 | [*Rosetta Installation Request Form*](https://knowledge.exlibrisgroup.com/@api/deki/files/39710/Rosetta_Installation_Request_Form.doc?revision=2) |
|  |  | Server Access credentials | In order to log on to the server, an initial exlibris user with permissions to su or sudo is required. This user can be deleted after the installation is complete.  Root access is required during installation (su/sudo rights can be removed after the installation completion. Implementation and support staff use the dps user to access the server).  ***Operations that are available for sudo:***  Create the following users and groups:   * Useradd * Groupadd * vipw   Change the system parameters:   * for Linux – /etc/rc.d/rc.local and /etc/security/limits.conf   files  Create directories and change permissions using the following:   * mkdir * chown   In the /etc directory, create files necessary for the autostartup mechanism. | [*Requirements for Rosetta Installation*](https://knowledge.exlibrisgroup.com/@api/deki/files/57362/Requirements_for_Rosetta_Installation.pdf?revision=1) |
|  |  | Backup and Recovery | Backup and recovery procedures are established once installation is completed.  To minimize possible data loss, system administrators back up the following data: Rosetta software, Producer Agent content, and the Oracle database, including the below sub-folders:   * bytestream\_work * cc\_export\_dir * digital\_certificate * format\_library\_downloads * logs * operational\_delivery\_shared * operational\_export\_directory * preservation * plugins * preserve\_pp\_docs * sipTmpDir * sp\_bck * staff\_work\_area * ui   Oracle data base tables have regular cold backup. See recomanded startegies in the guide.  The selected media used for backup is the customer’s choice. | [*System Administration Guide*](https://knowledge.exlibrisgroup.com/@api/deki/files/63952/Rosetta_System_Administration_Guide.pdf?revision=1)*, Part V: Data Backup and Recovery* |
|  |  | Workstation Hardware and Software | * Staff PC with internet access and a browser * Browser should be able to access rosetta DNS with ports [1-9]801 *(and 8991 if PDS is required)* * TCP/IP installed and connection to server tested * Unicode fonts * Telnet or terminal emulator client  (administrator’s machine only) * FTP (administrator’s machine only) | [*Requirements for Rosetta Installation*](https://knowledge.exlibrisgroup.com/@api/deki/files/57362/Requirements_for_Rosetta_Installation.pdf?revision=1) |
|  |  | Load Balancer(Optional) | Load balancer is used to change DNS name display; port forwarding to ports 80 or 433; high availability.  It is the customer’s responsibility to establish the load balancer.  Rosetta supports both hardware and software components for Load‐balancing functionality.   * Sticky Session is mandatory. * Forwarding - Configure the load balancer to pass the clientʹs IP address in the X-Forwarded-For HTTP header value.   In any of the supported topologies, a load balancer should be defined for each Fully Qualified Domain Name (FQDN). A separate FQDN is required for each module/role that must be accessed separately.  It is possible to configure separate load balancers for delivery, UI (back office management), deposit, and user authentication.  If no load balancer DNS is supplied in the installation request form, one of the Rosetta server’s qualified DNS names is used as the Rosetta URL. | [*Rosetta System Administration Guide*](https://knowledge.exlibrisgroup.com/@api/deki/files/63952/Rosetta_System_Administration_Guide.pdf?revision=1)  [*Rosetta Sizing Options*](https://knowledge.exlibrisgroup.com/@api/deki/files/52957/Rosetta_Sizing_Options.pdf?revision=1) |
|  |  | Data Preparation | **For Rosetta data ingest, extract the Descriptive Metadata (MD) in a standard format.** | [*Rosetta Overview Guide*](https://knowledge.exlibrisgroup.com/@api/deki/files/63954/Rosetta_Overview_Guide.pdf?revision=1) |
|  |  | Data Preparation | **Sample metadata and preservation files are ready to be reviewed by Ex Libris to determine recommended ingest methods** |  |
|  |  | Integrations | **Rosetta can integrate with other systems, the following preparations need to be ready for the implementation to start. Select the applicable integration needed.** |  |
|  |  | Aleph | SRU index is established. Ports between the Aleph server and Roseta are opened (as configured on z39.50 server port, for example, 999X) | [*Rosetta-Aleph Synchronization Guide*](https://knowledge.exlibrisgroup.com/@api/deki/files/26606/Rosetta-Aleph_Synchronization_Guide.pdf?revision=1) |
|  |  | Voyager | SRU index is established. Ports between the Voyager server and Roseta are opened (as configured on z39.50 server port, for example, 999X) | [*Voyager Rosetta Integration Guide*](https://knowledge.exlibrisgroup.com/@api/deki/files/26609/Rosetta-Voyager_Synchronization_Guide.pdf?revision=1) |
|  |  | Primo | OAI-PMH is used. Confirm that the port 1801 is open between Primo server and Rosetta server | [*Rosetta-Primo Integration Guide*](https://knowledge.exlibrisgroup.com/Cross_Product/Integrations/Rosetta-Primo_Integration_Guide) |