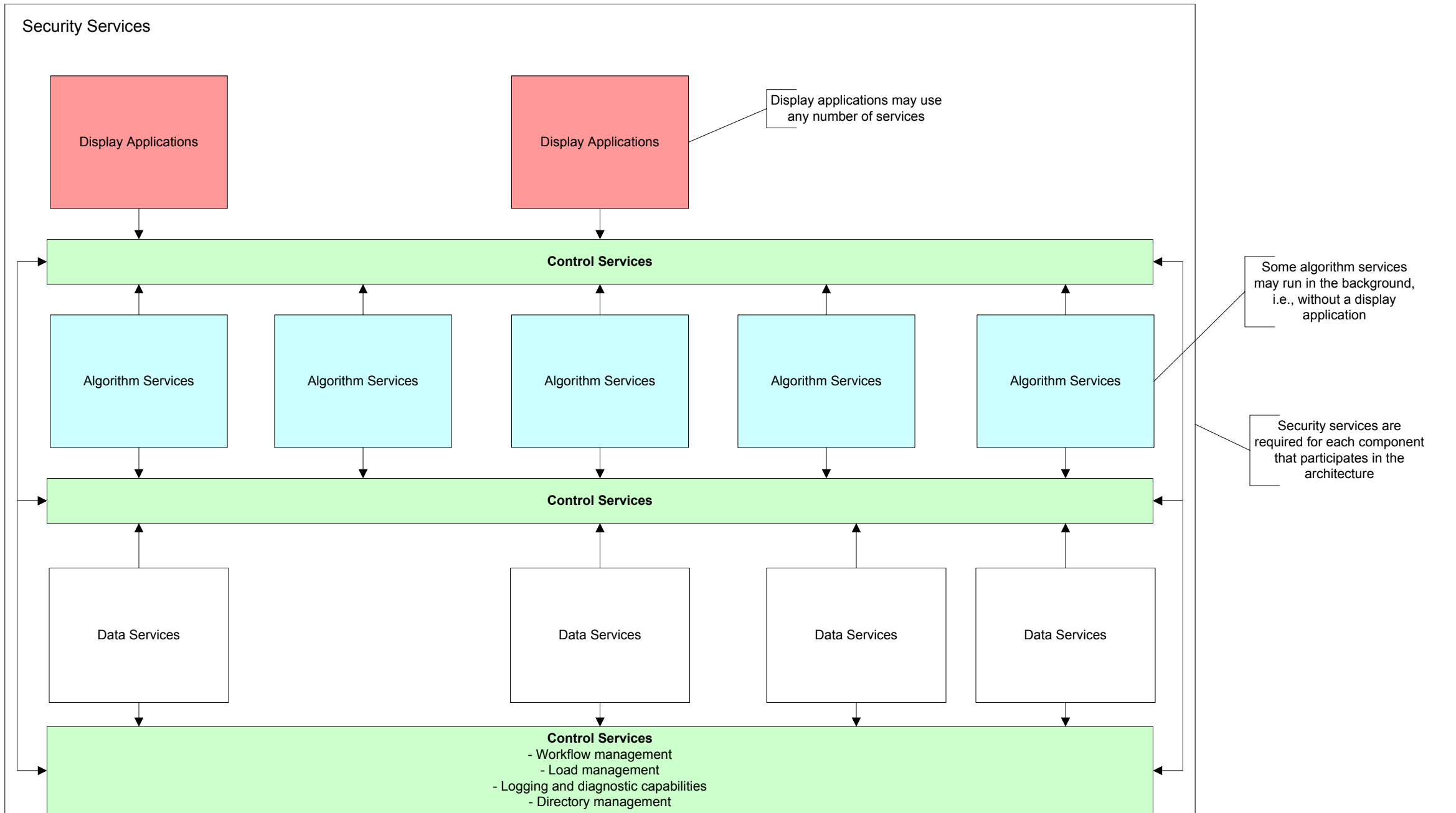


Schematic Architecture Overview



Some algorithm services may run in the background, i.e., without a display application

Security services are required for each component that participates in the architecture

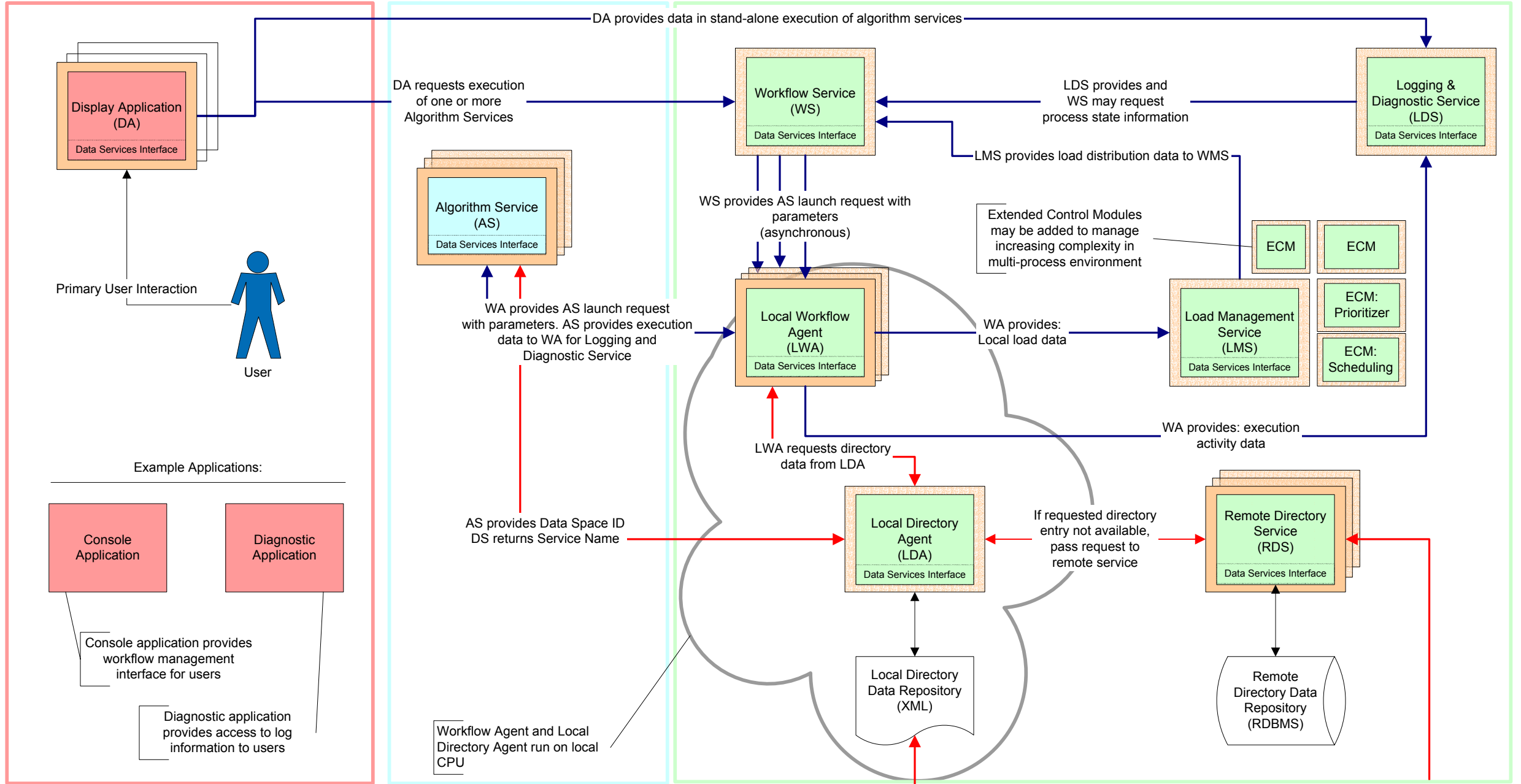
- Logging and diagnostic capabilities
- Directory management

Note: All components shown above reside in one or more application servers. Application servers may be located at NWS headquarters, any RFC or WFOs, and each application server may be configured with any combination of display applications, algorithm services and data services. Control services will have to be deployed uniformly across all application servers who participate in the OHD operational environment.

Display Applications

Algorithm Services

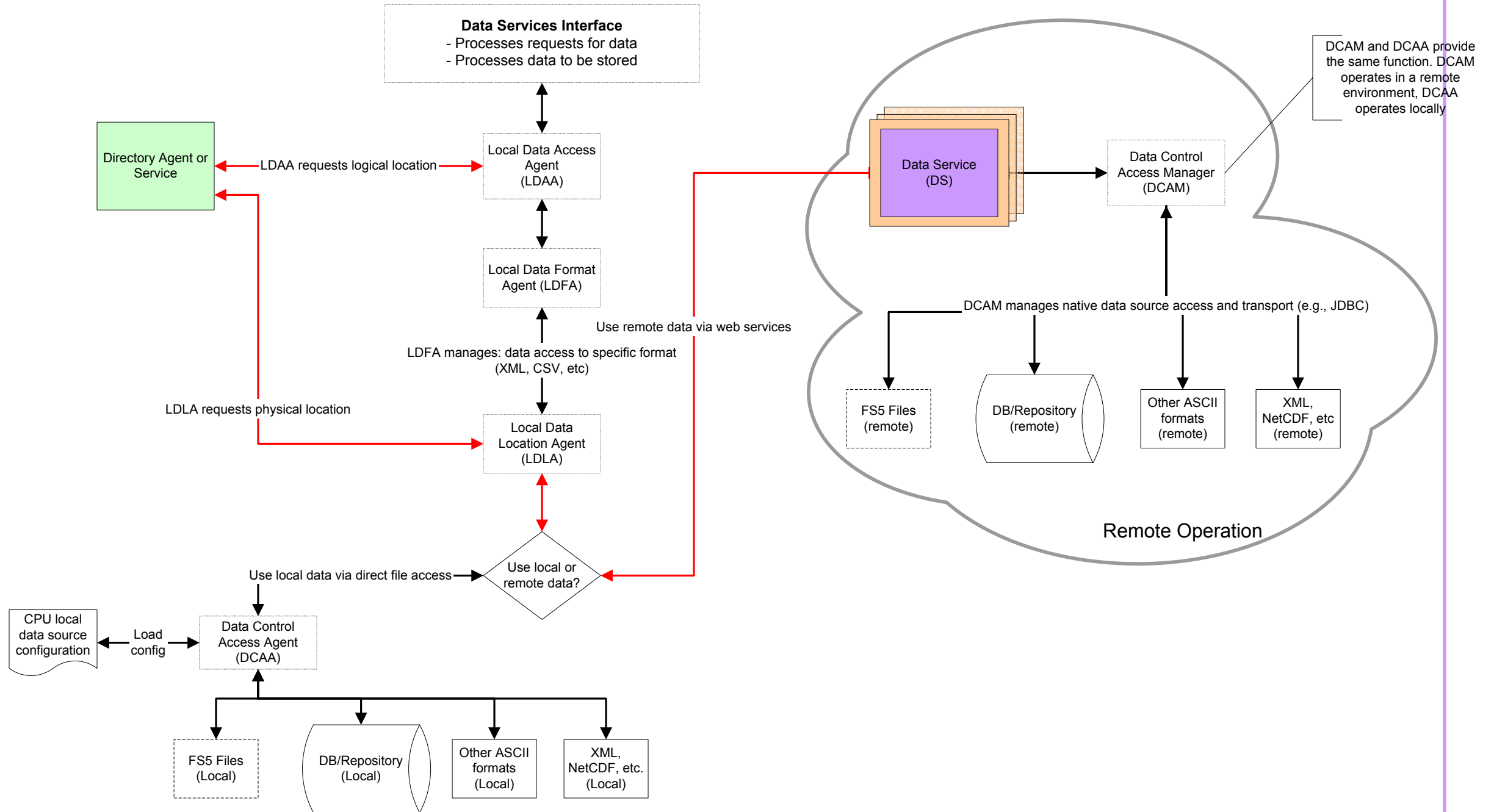
Control Services



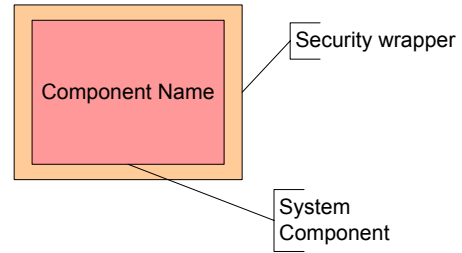
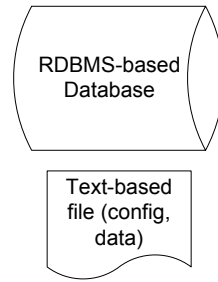
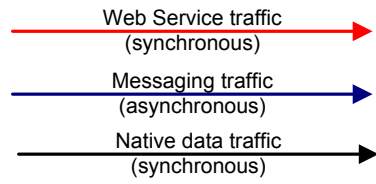
New components must

Example authentication connection

Data Services



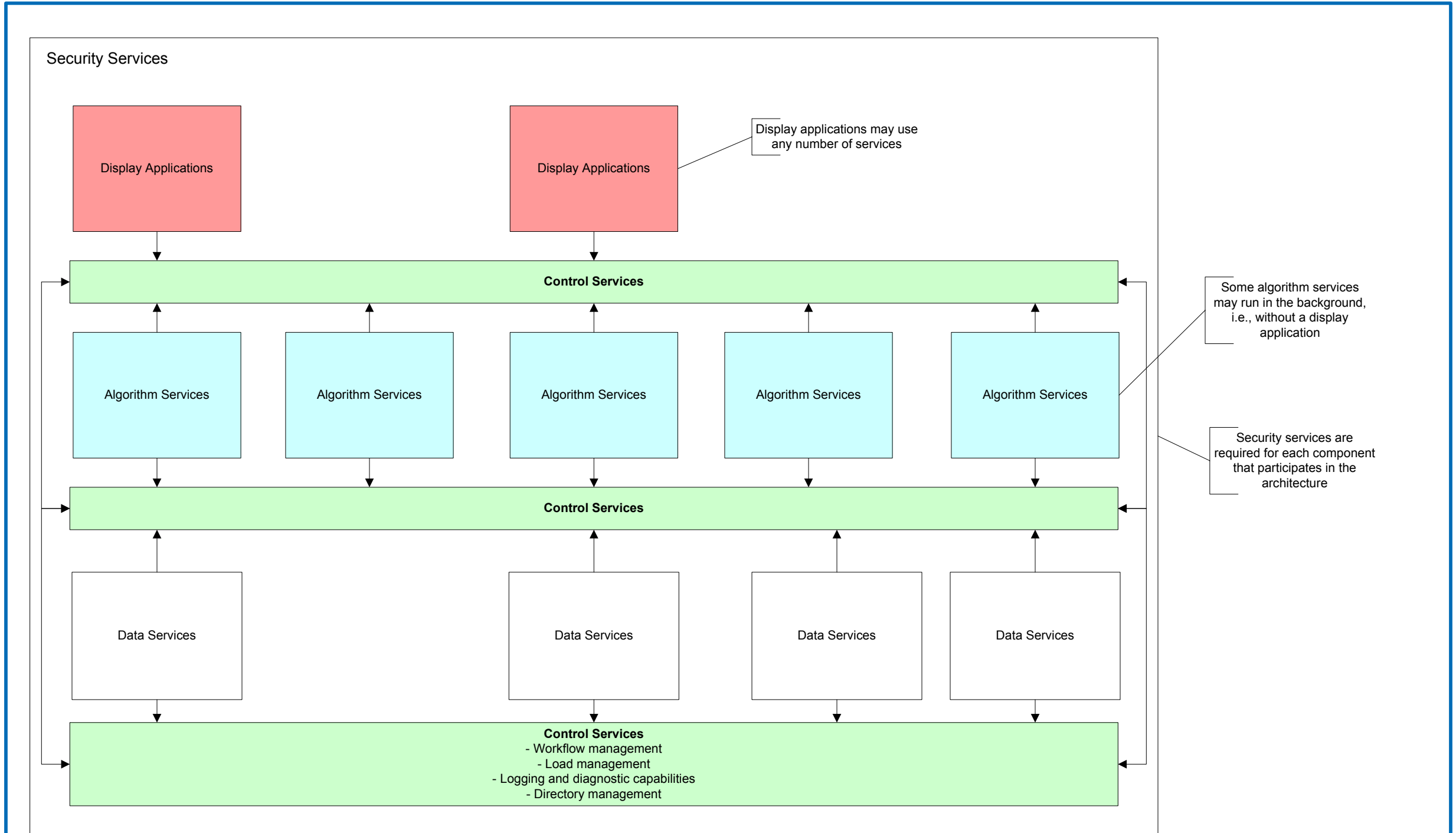
Legend



Terms

- "Agent": component that executes on a local CPU
- "Service": component that executes within one or more application servers
- "Local": within one system, or on local LAN
- "Remote": on a LAN not physically connected to a local CPU

Schematic Architecture Overview



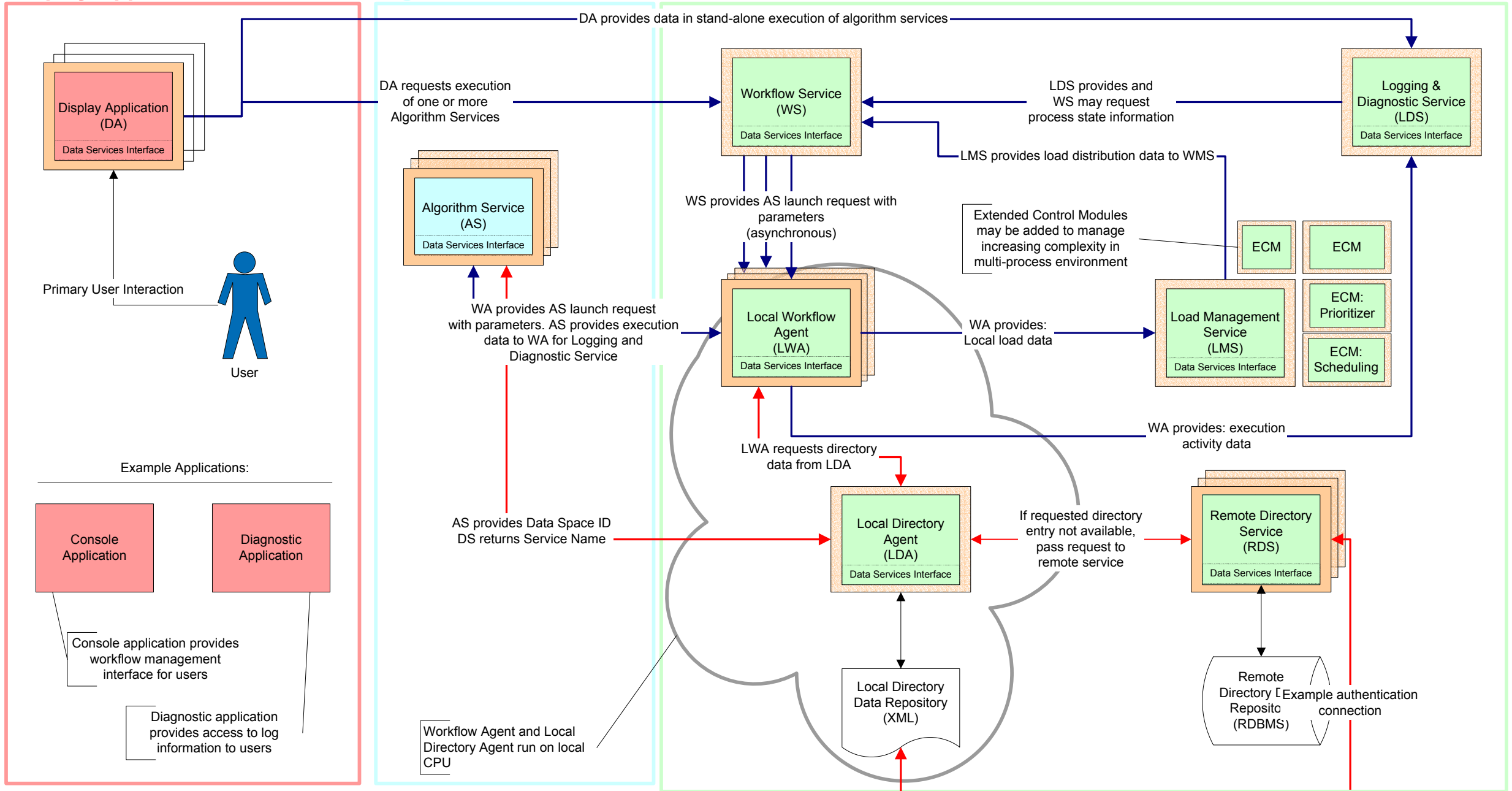
- Logging and diagnostic capabilities
- Directory management

Note: All components shown above reside in one or more application servers. Application servers may be located at NWS headquarters, any RFC or WFOs, and each application server may be configured with any combination of display applications, algorithm services and data services. Control services will have to be deployed uniformly across all application servers who participate in the OHD operational environment.

Display Applications

Algorithm Services

Control Services



Security Services

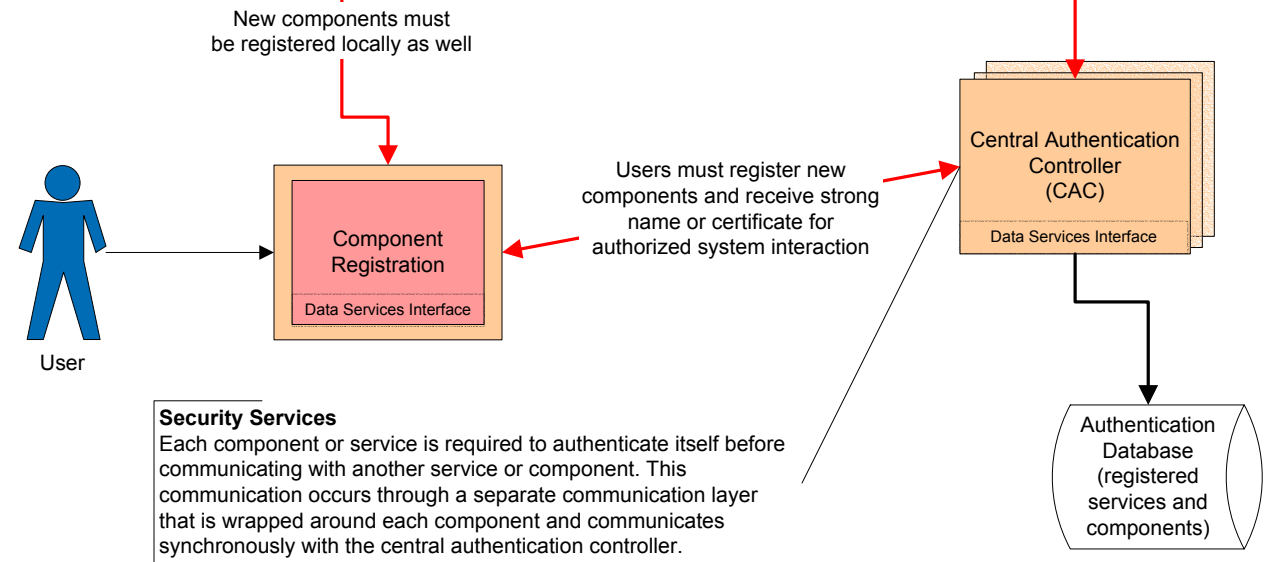
Registering additional components

1. Adding a Data Service

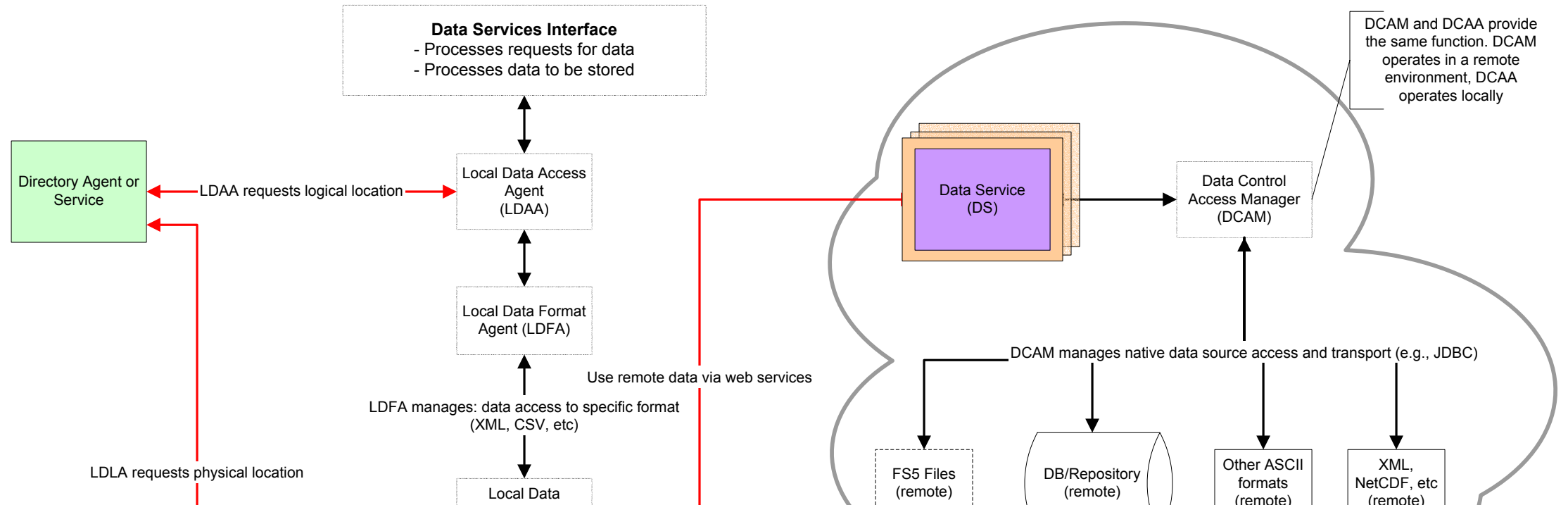
- Provide data service name to local directory agent
- Optionally provide data service name to remote directory service
- Provide data space identification to local directory agent
- Provide strong name or registration certificate to authentication controller

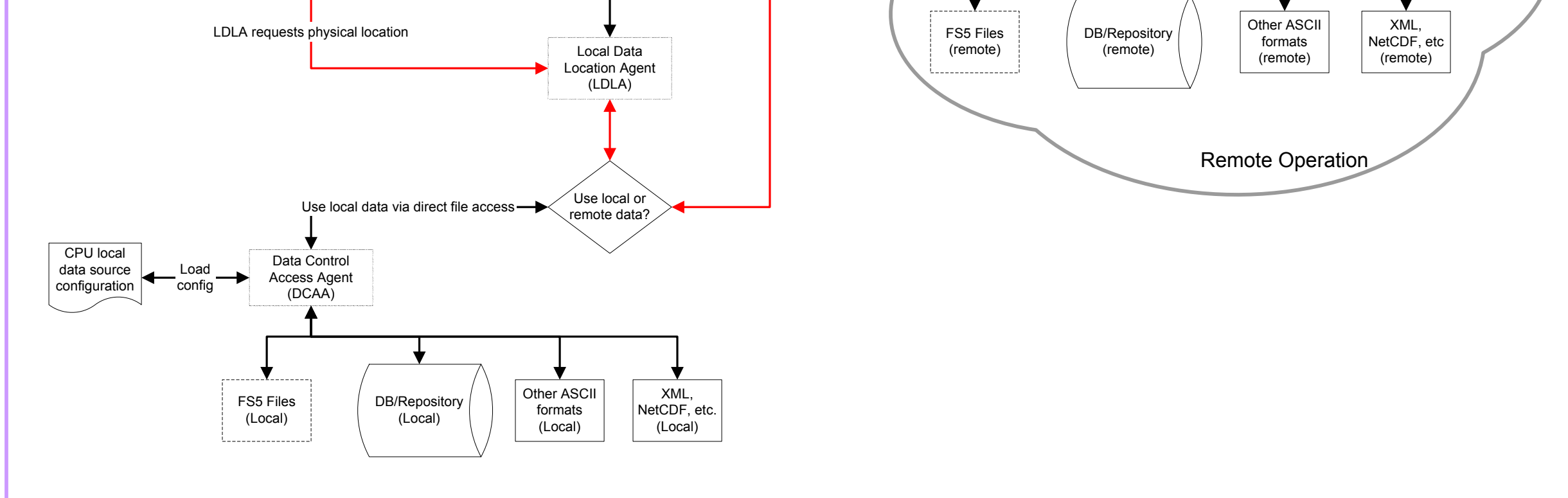
2. Adding an Algorithm Service

- Provide algorithm service name to local directory agent
- Optionally provide algorithm service name to remote directory service
- Define data spaces used by algorithm service (see above)
- Provide strong name or registration certificate to authentication controller

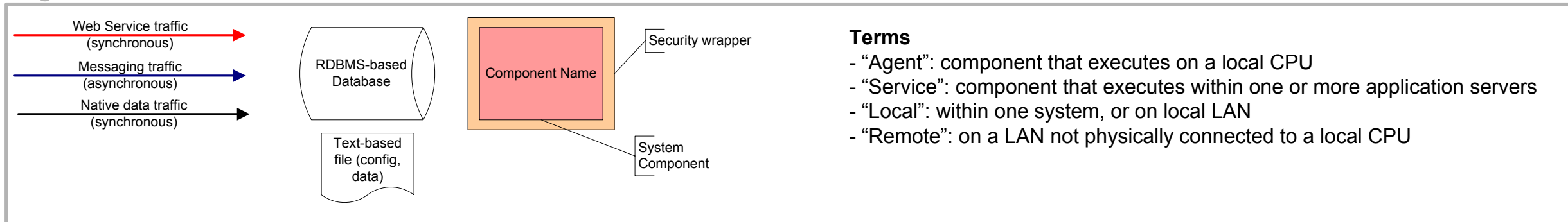


Data Services





Legend



Terms

- "Agent": component that executes on a local CPU
- "Service": component that executes within one or more application servers
- "Local": within one system, or on local LAN
- "Remote": on a LAN not physically connected to a local CPU