Getting Sessions

Using org.openntf.domino.utils.Factory

The standard way to get a Session is using Factory.getSession(SessionType).Factory.getSession() still works for getting the current session, but is discouraged in favour of more explicit usage of SessionTypes. There are a number of standard SessionTypes, the most common developers use are SessionType.CURRENT and SessionType.NATIVE (a session running as the server). XPages developers will be used to SessionType.SIGNER and SessionType.SIGNER_FULL_ACCESS, but in personal experience the server typically has relevant access in order for replication etc to work effectively.

The full list of SessionTypes is:

- CURRENT A named Session for the current user
- . CURRENT_FULL_ACCESS A named Session for the current user but with full access
- SIGNER A named Session for whichever Notes ID is defined as the current application"s signer
- SIGNER_FULL_ACCESS A named Session for whichever Notes ID is defined as the current application"s signer with full access
- NATIVE A Session based on the current server"s access
- TRUSTED Returns a Trusted Session, not yet implemented
- FULL ACCESS A Session equivalent to Full Access Administration setting in Domino Administrator
- PASSWORD A Session based on a specific Notes Client user ID and password

XPages Factory Setup

The Factory is automatically initialised with various current, signer and native SessionTypes. So you can just use the various Factory.

getSession(SessionType) methods. In addition, global implicit variables are set up for every request. You will already be aware of some of these implicit variables that are set up by the XPages runtime - session, sessionAsSigner, sessionAsSignerWithFullAccess and data base. If the "godmode" switch is enabled, ODA overrides these implicit variables to replace them with the corresponding ODA session and database objects. Otherwise, ODA creates openSession, openSessionAsSigner, openSessionAsSignerWithFullAccess and openDatabase.

ODA Starter Servlet

ODA Starter Servlet has an ODADataServlet class which manages all the setup and tear down of the Factory, adding SessionType.CURRENT. SessionType.NATIVE is automatically available. If other session types are required, you will need to set them up for each request here.

CrossWorlds

CrossWorlds uses a Filter to filter all HTTP requests for any web application, see org.openntf.xworlds.core bundle's org.openntf.xworlds.appservers.webapp.XWorldsRequestFilter. This uses configuration to set up Sessions for the current user and the application signer, see org.openntf.xworlds.appservers.webapp.config.DefaultXWorldsApplicationConfig. You can extend this class in your web application to change the base functionality.

OsgiWorlds

If you want to use ODA in a web servlet with Vaadin development, OsgiWorlds can be used. This uses an approach specifically for Vaadin development, extending the VaadinServlet class and its service method, see org.openntf.osgiworlds.ODA_VaadinServlet. This uses configuration to set up Sessions for the current user and the application signer, see org.openntf.osgiworlds.

DefaultDominoApplicationConfig. Remember to register the servlet in the normal Vaadin way (the older method is in web.xml, the newer method is using @Annotations in the application's main UI class.

OSGi Web Applications

For a web application, if it uses a REST servlet as the entry point, you can use <code>ODADataServlet</code> from the ODA Starter Servlet as a basis to initialise the NotesThread and set up the Factory and ODA sessions. If it uses an HttpServlet entry point, you can use the <code>ODA_VaadinServlet</code> from OsqiWorlds as a basis (the VaadinServlet class extends <code>javax.servlet.Http.Servlet</code>).

DAS Servlet

The ODA graph REST API uses an extension to com.ibm.domino.das.service.RestService,implementing the REST service extension c om.ibm.domino.das.service.IRestServiceExt, see org.openntf.domino.rest.service.ODAGraphService class. This class's beforeDoService method initialises the thread for ODA and creates a Session as the current user using the org.openntf.domino.xsp.

session.DasCurrentSessionFactory class to retrieve the current user and current database from the Domino broeDoService method terminates the thread for ODA. The same classes can be used for custom REST servlets and was Servlet.	owser session. The befor is a basis for ODA Starter