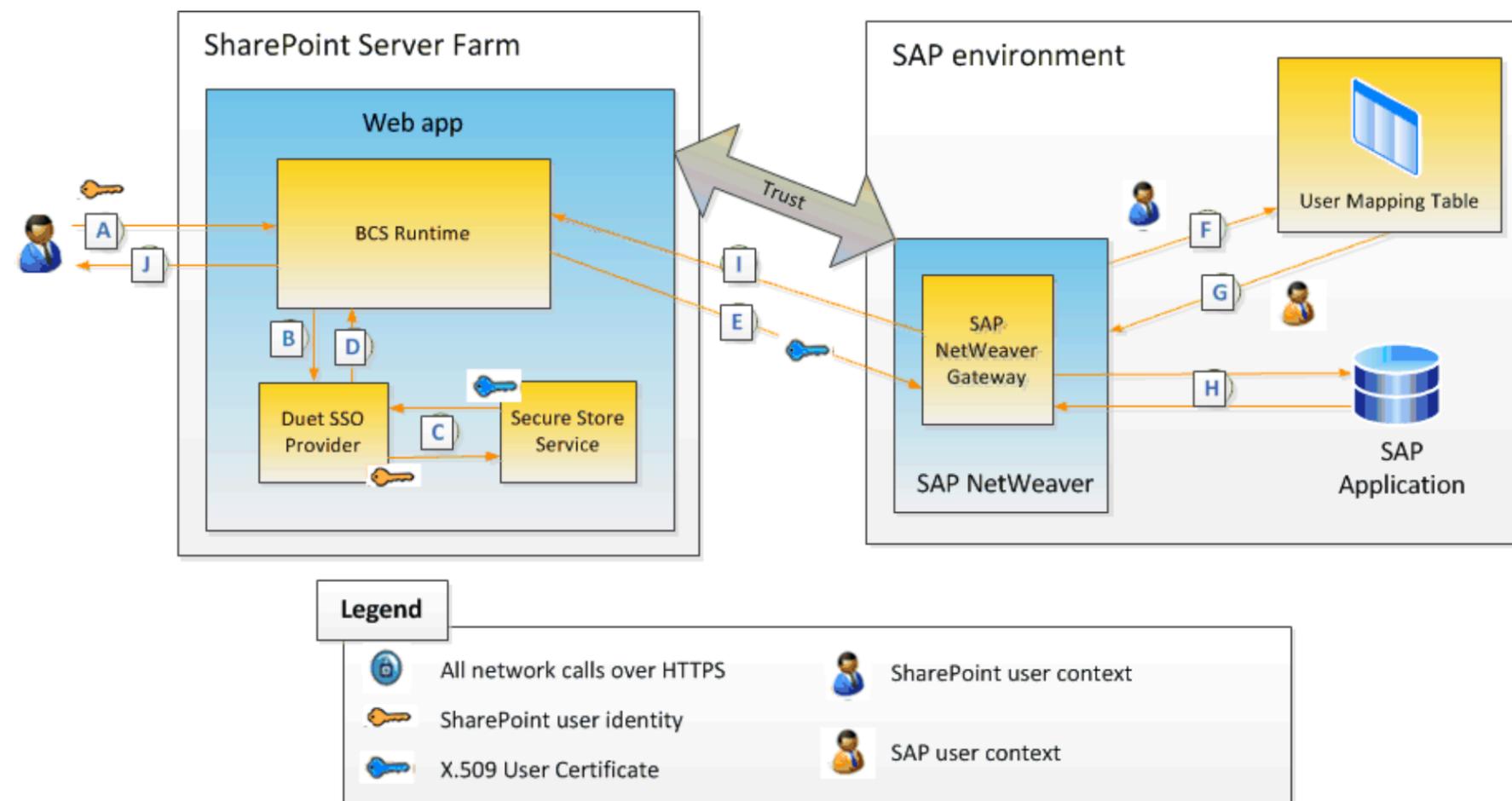


Duet Enterprise 2.0: Authentication Flow

Demonstrates the authentication flow of an end user of a Duet Enterprise 2.0-enabled site pulling data from SAP over an Odata connection.



The following list describes the steps shown in the illustration. These steps assume that a SharePoint user has attempted to access SAP information that is surfaced in SharePoint Server 2013.

- A. A user logs on to a Duet Enterprise 2.0 Preview-enabled SharePoint website by using the user's SharePoint user identity. Because the website contains an external list or Web Part that surfaces SAP data, the request is sent to the Business Connectivity Services runtime in the SharePoint farm.
 - B. The Business Connectivity Services runtime invokes the Duet Enterprise 2.0 Preview OData Extension Provider.
 - C. The Duet Enterprise 2.0 Preview OData Extension Provider gets the DuetRoot Certificate from the Secure Store.
 - D. The Duet Enterprise 2.0 Preview OData Extension Provider uses the DuetRoot Certificate to create an X.509 user certificate and sends the certificate to the Business Connectivity Services runtime.
 - E. The Business Connectivity Services runtime sends the request with the user certificate to the SAP NetWeaver Gateway component of SAP NetWeaver in a request packet.
- Tip:** SAP NetWeaver with the SAP NetWeaver Gateway component installed is also known as SAP NetWeaver Gateway.
- F. Because SAP NetWeaver trusts the DuetRoot Certificate that was used to create the user certificate, SAP NetWeaver can authenticate the user and look up the SAP user who is mapped to the SharePoint user who is identified by the certificate.
 - G. The SAP user account that is mapped to the SharePoint user is returned to SAP NetWeaver.
 - H. SAP NetWeaver uses the SAP user account to request access to the requested information in the SAP system and, if the user is authorized to access the information, the requested information is sent to SAP NetWeaver Gateway.
 - I. SAP NetWeaver Gateway sends the reply as a response packet to the Business Connectivity Services runtime on the on-premises SharePoint farm.
 - J. The Business Connectivity Services runtime passes the information to the SharePoint user. In this case, to the website on which the user has accessed.

Note: The two-way connection between the SharePoint Server farm and SAP NetWeaver is secured by using two Secure Sockets Layer (SSL) certificates. One certificate is bound to a SharePoint web application and trusted by the SAP administrator. The other certificate is bound to SAP NetWeaver and trusted by the SharePoint administrator.