Projects for integrating
Security
and
GIS integration
in Odoo

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1   Preliminary note

The proposed projects contain integration as well as design, analyse, development activities

Used environment is Javascript, xml "protocols", Python and PostgreSQL database, all embedded in Odoo development framework; the entire framework stack is Object Oriented and layered in several levels based on advanced MVC capabilities

2   Security oriented projects description

2.1   X509 strong authentication based login

Integration of login in Odoo based on strong authentication protocol (with PKI and X509 certificate full validation). The module will enable a user to log in from his favorite Web Browser (Chrome, Firefox) on Windows and Linux workstation (and if possible Safari on MacOS) base on certificate protected (or not) by secret passphrase or PIN code.

The first goal is to support the Belgian EiD card (the same way the EiD is used to log in TaxOnWeb for instance). The certification path and the CRL (or OCSP) complete validation is required.

A configuration tool must be provided to support definition of trusted CA and other security parameters linked to the confidence/trust level of the CA (certificate class). Some CA will accept "auto provisioning" while other will required a specific (trusted) provisioning process. In some cases, the provisioning process will be executed directly by the users who wants to create his/her account;, in some case, the user will just sends a request to Odoo where the provisioning process will be execute by an accredited user

2.2   X509 based pdf document digital signing and digital signature validation

The goal of the module is to enable the user to digitally sign (with the EiD card) pdf reports generated by Odoo to get evidence of document integrity and document 'author.

The module should also provide document signature verification function.

3   GIS projects description

3.1   Integration of several Google and OpenGIS compliant GEO systems in Odoo

The goal of this project is to get the user with multi layers cartography services based on popular GIS system. System will be capable to show/draw points, multipoints, lines, multilines, polygons, multipolygons with different symbols on different layers of a cartographic system. Those will have to be display inside Odoo views. Some will have to be tailored for Odoo front-end while others will have to be tailored for Odoo backend

Another important function is the availability to browse official address database in order to avoid duplicate addresses and address mistypo errors.

GEOLocation of GPS devices must also be possible