# Appendix B. Integration with e-Districts

Districts and Mandals or Tahasils are the de-facto front-end of State government. Most of the interactions between citizens and government take place only at these levels. In other words government delivers most of its services to citizens through its various offices, which are located at the District, Mandal or Tahasil levels.

E-District is a state Mission Mode Project under the National e-Governance Plan. This project aims to deliver certain high volume services to citizens through Citizen Service Centers, which would be located closer to the homes of citizens. This project also aims at computerization of government departments and improvement or processes wherever required and possible.

It would be desirable that transactional government services provided through e-District MMP are made accessible on State Portals. At present pilot implementation of most of the e-District MMPs are in "work in progress" state. Implementation work for other districts would start some time in future. Considering this situation certain steps are required to be taken by concerned parties so that transactional government services provided through e-District MMPs are made available on State Portals in a seamless manner.

Following integration approach should be taken for making e-District services, which are already developed or under development, accessible from State Portal.

| Current State of e-District Services | Suggested Integration Approach |
|---|---|
| Service implementation is based on two tier client server architecture. This includes scenarios where client is accessible over internet using terminal server type of software. | Data level integration |
| Departmental applications are based on three tier architecture but not web based | Application level integration, reusing libraries, DLLs etc. |
| Departmental applications are based on N-tier architecture with web based user interface | Application level integration, reusing components such as EJBs .Net components etc. |
| Departmental applications are service based | Service level integration |

Following guidelines should be followed for developing new services so that they can be easily accessible from State Portal.
a.  Develop applications based on multi layer architecture, separating presentation, business logic and data from each other using a well defined interface.
b.  Provide browser based user interface.
c.  Use open standards where ever possible. For example use JDBC or OBDC for accessing data from business logic layer.
d.  Undertake service identification exercise as part of architecture definition phase to identify high value transactional government services. Realize services using the right combination of atomic and composite services.
e.  Implement transactional government services as web-services, so as to enable development of composite applications.
f.   Implement citizen or businesses related functionality as web services.
Ensure loose coupling between customer service center application and transactional government services.