



Central Service Registry

Kineton



DVB-I service

A DVB-I service is one which is discovered using standard specification and which is available over DVB-DASH.



may be delivered over non-managed connectivity alone



may also be received by non-TV devices as defined by DVB



may include access services and may be linear or on-demand and



may have associated applications (similar to AIT in broadcast delivery)



may include video, audio and subtitle components



Service Lists

Service Lists are published by Service List Providers and typically lists services from many content providers. The role of the Service List Provider is to curate and manage the Service List and provide service ordering and numbering information for ease of selection by users, particularly on television-like devices.

DVB-I clients access information about DVB-I services through Service Lists.

```
▼<ServiceListEntryPoints xmlns="urn:dvb:metadata:serviceList"
xmlns:tpvtv="urn:tpv:metadata:tv:broadcast:2020" xmlns:xsi=
dvbi_service_list_discovery_v1.1.xsd urn:dvb:metadata:servi
▼<ServiceListRegistryEntity regulatorFlag="true">
  <Name type="main">Kineton</Name>
</ServiceListRegistryEntity>
▼<ProviderOffering>
  ▼<Provider regulatorFlag="true">
    <Name type="main">Mediaset TrustedServiceList</Name>
    </Provider>
  ▼<ServiceListOffering regulatorListFlag="true">
    <ServiceListName xml:lang="ita">Trusted Service List</
  ▼<ServiceListURI contentType="application/vnd.dvb.dvbi
    <dvbisd:URI>http://kinedev.it/dvbi/icsr/sl/Italian_t
    </ServiceListURI>
  ▼<Delivery>
    <DVBTDelivery required="true"/>
    ▼<ApplicationDelivery>
      <ApplicationType contentType="application/vnd.dvb.a
      <ApplicationType contentType="application/xhtml+xml
    </ApplicationDelivery>
    </Delivery>
    <TargetCountry>ITA</TargetCountry>
  </ServiceListOffering>
</ProviderOffering>
▼<ProviderOffering>
  <Provider regulatorFlag="false">
    <Name type="main">Mediaset TrialServiceList</Name>
    </Provider>
  <ServiceListOffering regulatorListFlag="true">
    <ServiceListName xml:lang="ita">Trial Trusted Service
    <ServiceListURI contentType="application/vnd.dvb.dvbi
    <dvbisd:URI>http://kinedev.it/dvbi/icsr/sl/TrialServ
    <ServiceListURI>
  </Delivery>
    <DVBTDelivery required="true"/>
    <ApplicationDelivery>
      <ApplicationType contentType="application/vnd.dvb.a
      <ApplicationType contentType="application/xhtml+xml
    </ApplicationDelivery>
    </Delivery>
    <TargetCountry>ITA</TargetCountry>
  </ServiceListOffering>
</ProviderOffering>
```




Service List Discovery

DVB-I supports two principal approaches to Service List Discovery:

- the client may have one or more built-in or privately provisioned Service List URLs;
- the client may make use of a Service List Registry.

In both cases, a Service List (or Service Lists) may be selected using knowledge of the user's geographical location or language preferences, or by offering the user a choice.

A DVB-I client requires a means to find one or more Service Lists. This is called Service List Discovery.





Service List Registry

A DVB-I Service List Registry is an HTTP endpoint available at a known URL that, if queried, can return a list of Service List Entry Points. The DVB-I Service List Providers who wish to enable the Service List Registry discovery mechanism for their own Service Lists may register their Service List Entry Points in the Service List Registry.



Smart TVs



Smartphones



HbbTV devices

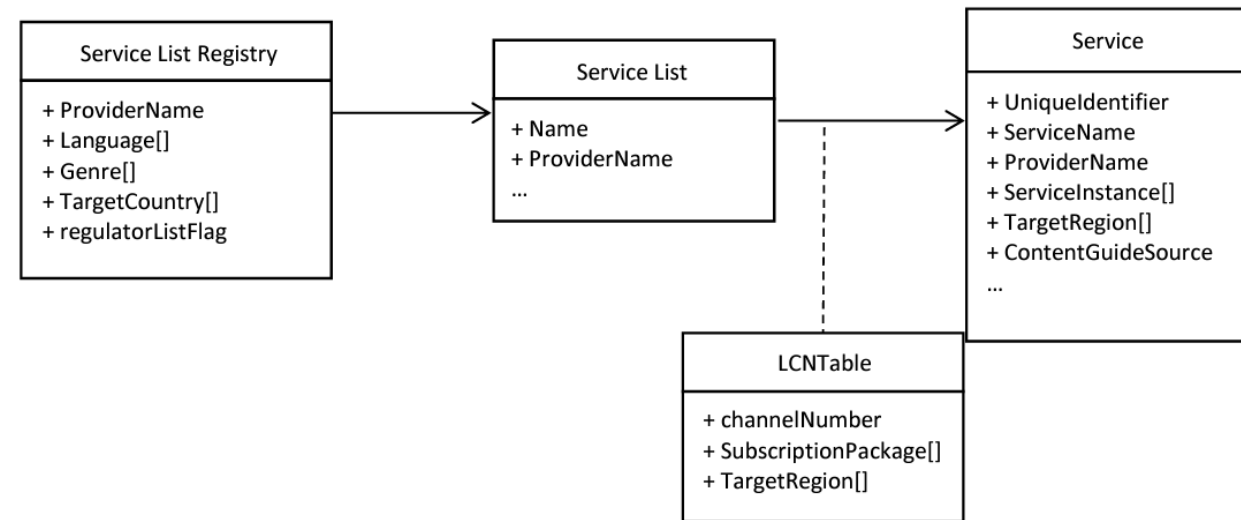


Infotainment

Service List Registry

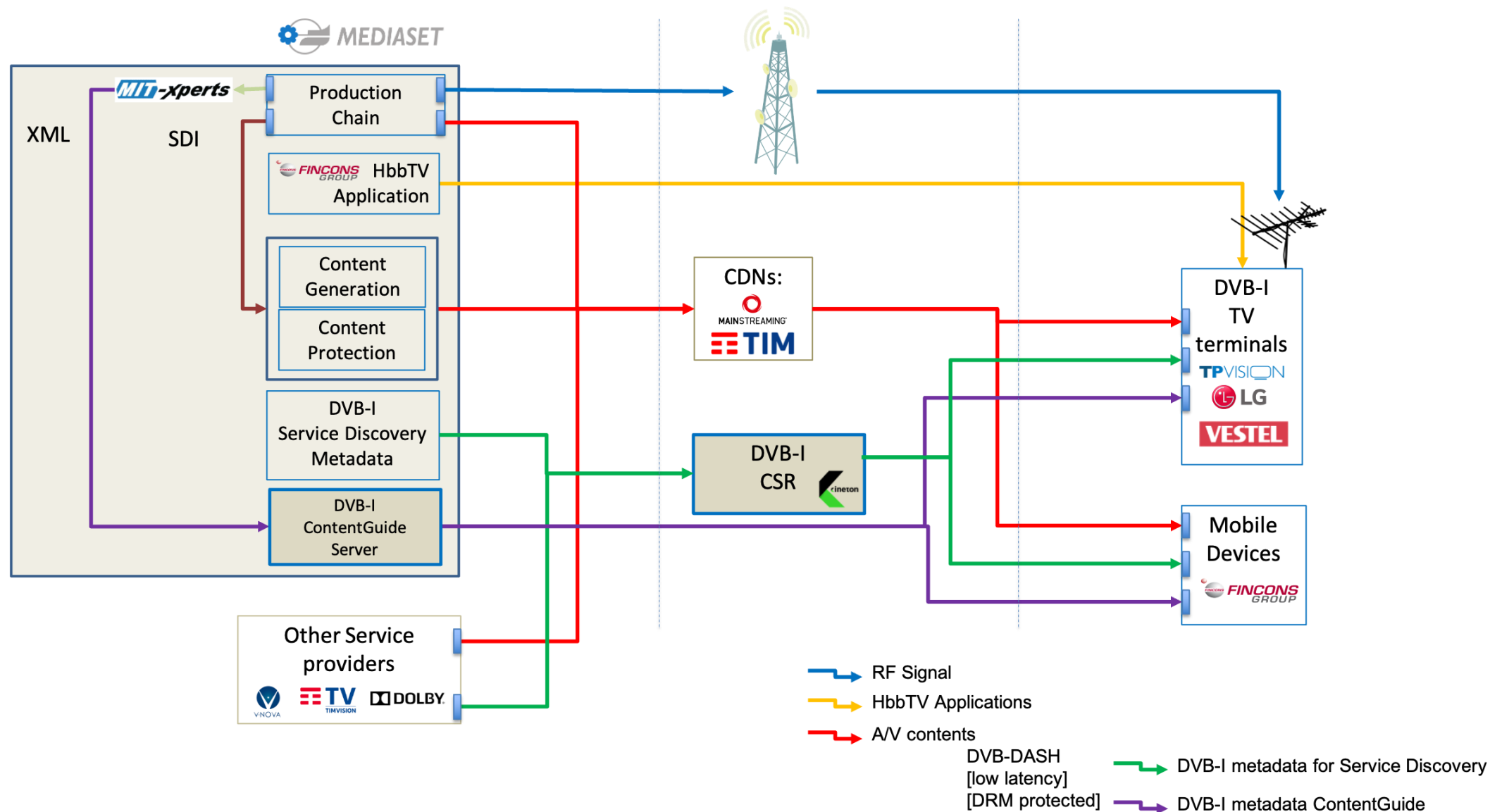


- A single Service can be listed in many different Service Lists and may have a different channel number in each.
- A Service List can include many different Services.
- A Service List may be discoverable using a Service List Registry and may be listed in several registries.





Central Service Registry (CSR)



For the service list providers, a CMS is available for the management of the service lists.
On the basis of the POC realized for Italy, Kineton provides a graphic tool with the following features



User Management



Service Lists Management



Merging and Publishing



Service Entry point

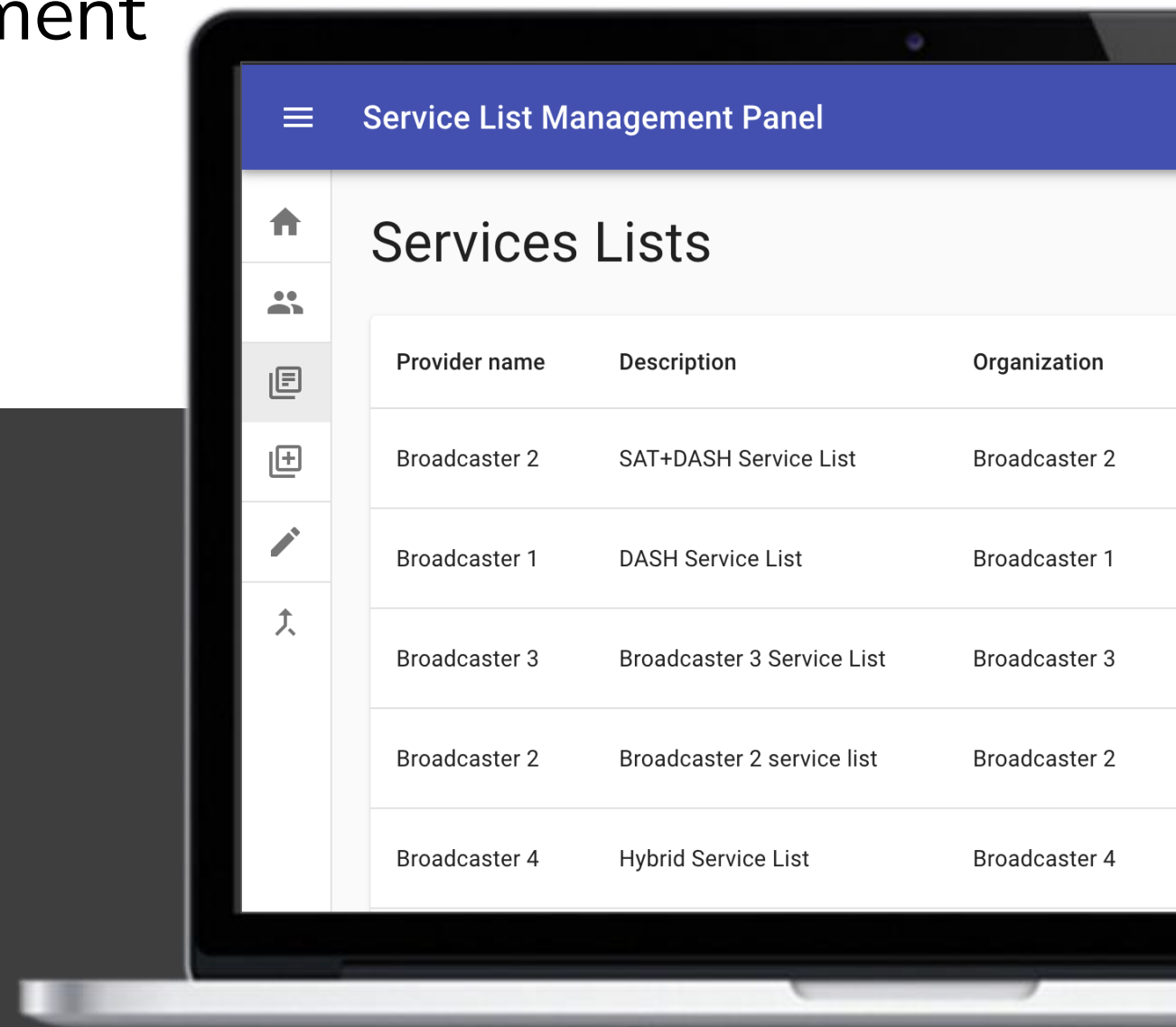


Monitoring



CSR - Service List Management

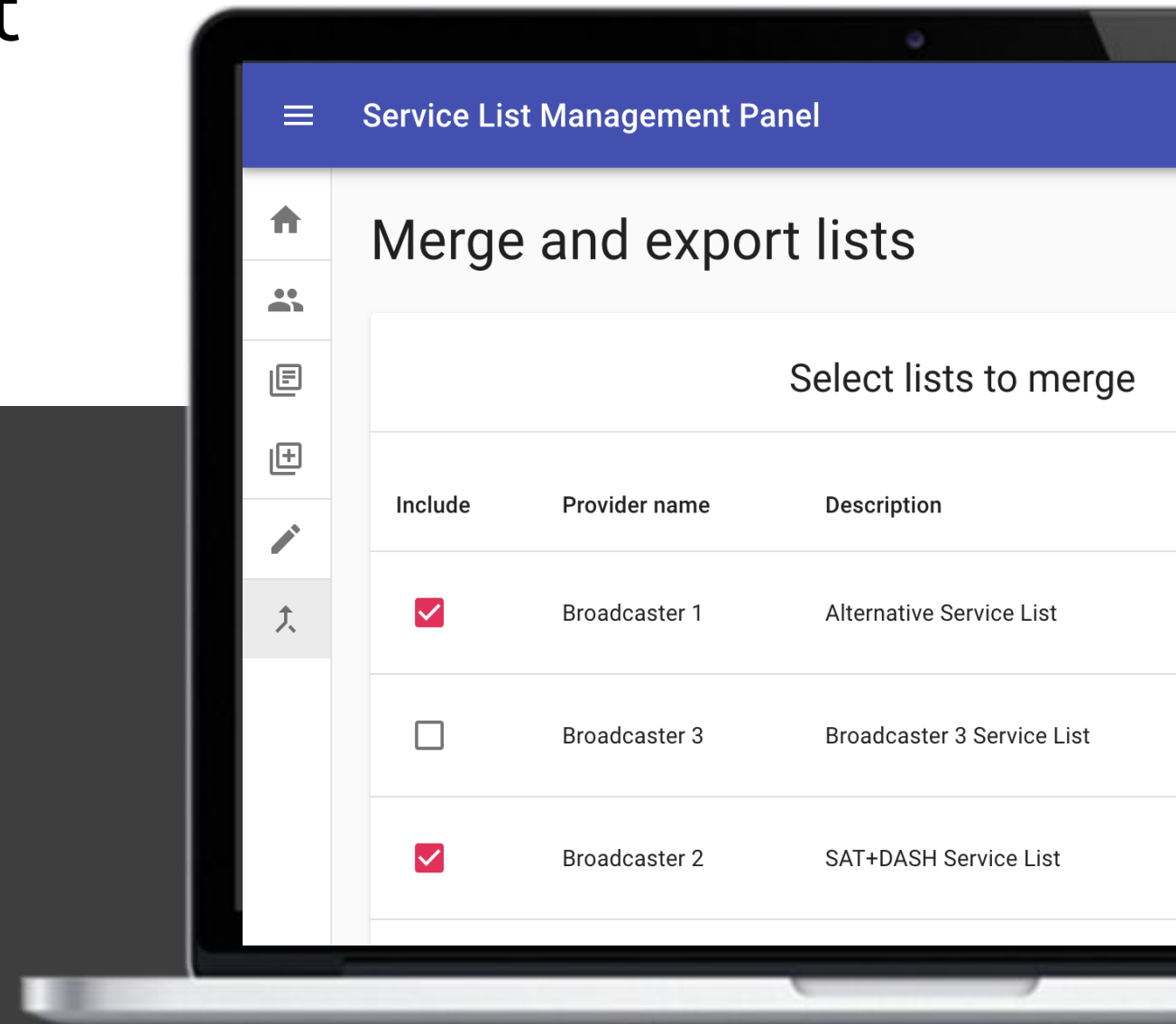
In this section you will be able to manage your service lists, allowing you to view, edit and delete them. The user will be able to access the entire history of the service lists for which he has permissions and manage the service list candidate for publication in the production environment.





CSR - Merge Service List

The user with the role of controlling the CSR, will be able to merge the service lists candidate to the publication. By selecting the various service lists available the user will be able to decide, for each country and type of device, the service list to merge and verify the final result.





CSR - Monitoring

The triplets of each services may change over time due to mux configurations. These changes must also be reported in the CSR to update the service lists.





THANK YOU

10th HbbTV Symposium