





PERSONAL SERVICES

Intelligent
Network
Solution

For Converged Networks

IN SOLUTION

C-DOT offers Intelligent Network (IN) solution comprising of Service Control Point (SCP), Service Management Point (SMP), and Service Switching Point (SSP). It can be used for quick deployment of feature-rich telecommunication services for the wireline network. The solution is compliant to ITU-T and ETSI standards.

C-DOT IN solution is endowed with a rich service portfolio and possess the benefit of our experience of successful commercial operation of IN services since 1998.

Rich Portfolio of Services

Prepaid Card Calling

- Virtual Card Calling (VCC)
- Account Card Calling (ACC)

Personal Services

Universal Access Number (UAN)

Enterprise Services

- Toll-free (Free phone)
- Premium Rate (PRM)
- Mass Calling (Televoting)
- Virtual Private Network (VPN)
- Centrex(CTX)

Nodes Offered

- Service Control Point (SCP)
- Service Management Point (SMP)
- Service Switching Point (SSP)

SERVICE CONTROL POINT (SCP)

The Service Control Point (SCP) epitomizes the "intelligence" in an Intelligent Network. It directs the wireline bearer network nodes (SSPs) on call routing and completion. It holds the Service Logic Programs (SLPs), tariff & charging data and subscriber profiles. It interfaces with the Service Management Point (SMP) for Service and Subscriber management functions.

Rich Portfolio of Services and Features

The service providers can utilize the rich portfolio of services and features for new revenue streams. Prepaid Card Calling services, enterprise services such as Toll-free and VPNs, and personal services such as UAN can be offered to different customer segments.

Flexible Operator-defined Charging Plans

The SCP provides the service providers with the flexibility to govern the charging patterns for IN services. The operator can define and manage varied charging plans on the basis of type of call, area, service provider, time and IN service.

SERVICE MANAGEMENT POINT (SMP)

The Service Management Point (SMP) provides Subscriber and Service management functions for the Service Control Point in the Intelligent Network (IN) system.

Voucher Management System

The VMS is used for management of prepaid cards and recharge coupons. It allows the operator to create card files and print them offline. Support for plastic scratch card printing by a third party is also provided. The operator can create, activate, block and delete any voucher through the system.

The prepaid cards as well as the recharge coupons have their own Inventory Management Systems. Their entire life cycle is traceable through the Inventory Management System.

Service and Subscriber Provisioning

It allows the operator to provision service(s) at the SCP and to configure, update or withdraw already running services. It also allows the operator to provision subscriber data for various IN services and their features. The local and remote operator terminals can access the SMP through LAN.

Charging Management

The C-DOT SMP provides the user interface to create, update and delete charging data and tariff tables at the SCP for various IN services.

Billing System

Bill is generated at SMP for IN service subscribers. SMP also provides detailed call log analysis reports.

Traffic Monitoring

Traffic monitoring and reporting capabilities are provided for IN services as well as for individual subscribers.

Transaction Logging

All operator activities are monitored and logged that can be viewed by the Administrator.

PERSONAL SERVICES

C-DOT IN solution provide Personal Services that enable a service subscriber to be accessible at all times.

The following Personal Services are being offered:

Universal Access Number

Universal Access Number (UAN)

The UAN service is an access code based service that enables the service subscriber to publish a unique number, and have the incoming calls routed to several terminating lines spread over a number of physical locations, depending on pre-defined routing "rules".

The UAN service can be configured for two flavors, local UAN and National UAN. In Local UAN, local calls within the local network of the UAN subscriber are permitted, whereas in National UAN, calls from anywhere in the national network can terminate on the UAN subscriber. Charging for National UAN can be specified as Full Charge or Split charge wherein the user pays for full charge or partial charge of the call and the rest is borne by service subscriber.

Key Service Features

- One Number
- Origin Dependent Routing
- Call Distribution
- Originating Call Screening
- Call Forwarding Conditional
- Time Dependent Routing
- Split Charging

PREPAID SERVICES

C-DOT IN prepaid services portfolio contains one time use calling cards as well as rechargeable "account" cards.

Virtual Card Calling (VCC)

The VCC service allows subscribers to make local and long distance calls and have the cost of the calls charged to the VCC number. This flavor of the service allows cards of various value denominations and corresponding calling privileges.

Key Service Features

- Low Balance Indication
- Card Activation on First Call
- PINLess dialing
- FollowOn
- Welcome Announcements

Account Card Calling (ACC)

This is a rechargeable prepaid service. The PIN protected account can be recharged by using the recharge vouchers that are generated at the system through the Voucher Management System.

Key Service Features

Account Recharge

- Low Balance Indication
- FollowOn
- PIN Modification
- Welcome Announcements

SERVICES FOR THE ENTERPRISE

C-DOT IN solutions offer a wide range of services for the corporate and enterprise customers.

Tollfree (Freephone)

This service allows the users to make free calls to a Tollfree number. All such calls are charged to the Tollfree subscriber. The service subscriber can control the usage by providing a limit on the tollfree call duration.

Key Service Features

- One Number
- Reverse Charging
- Call Distribution
- Call Forwarding
- Origination Call Screening
- Origin Dependent Routing
- Time Dependent Routing
- Customized Announcements
- Hunt Groups
- Call Queuing

Virtual Private Network (VPN)

VPN is a service for providing a private network using public network resources. The subscriber's lines, connected to different network switches, constitute a virtual PABX group. The users can call within the group (Onnet Calling) or can be provided with privileges to make calls to numbers outside the group (Offnet Calling). The charging for the service is done for the VPN group. Different charging can be applied for calls within and outside the group.

Key Service Features

- Abbreviated Dialing
- Private Numbering Plan
- Authentication
- Closed User Group
- Follow Me Diversion
- Off net access
- Time Dependent Routing

Centrex (CTX)

The Centrex (CTX) is similar to VPN service such that it enables subscribers to establish a private network using public network resources. In CTX all subscribers within a Centrex group have an abbreviated dialing plan and no

charges are applicable for calls within a Centrex group. No offnet calling is allowed in case of CTX. Provision exists for bulk creation of Centrex subscribers.

Premium Rate (PRM)

PRM service enables subscribers to provide information based services to the users. The service provider allocates a premium rate number to the service subscriber. The calls made to the premium rate number are charged at a higher rate than the normal calls.

Key Service Features

- Premium Charging
- Call Distribution

- Call Forwarding
- Origination Call Screening
- Origin Dependent Routing
- Time Dependent Routing

Televoting (VOT)

Televoting is a mass calling service. The callers call the advertised Televoting number/s to register their choice. The last few digits are the "choice digits". The service subscriber can put a limit on maximum number of votes polled for a VOT number.





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