

Dialogic® SwitchKit® Development Environment

Dialogic® SwitchKit® Development Environment offers a high-level software development environment designed to speed up application creation on Dialogic® Converged Services Platforms (CSP) or the Dialogic® MSP 1010 Multi-Services Platform. It also provides a set of integrated tools for Operations, Administration, Maintenance, and Provisioning (OAM&P). Because it uses advanced APIs written specifically for Dialogic® equipment, SwitchKit enables rapid implementation, modification, and upgrading.

Products Discussed in This Datasheet

- Dialogic® CSP SwitchKit® Development Environment
- Dialogic® MSP SwitchKit® Development Environment

SwitchKit provides rapid time-to-market for developers by enabling the quick creation of new and enhanced services while decreasing development and maintenance costs, which improves price/performance. Service providers can benefit from streamlined network management at a reduced cost along with enhanced application reliability.

| Features | Benefits |
|--|---|
| A high-level environment designed to make the best use of development resources | Can accelerate time-to-market while reducing the time and effort needed for initial development, modification, and upgrading |
| Includes abstraction layers, which are technology-specific high-level APIs for IN and wireless protocols | Can speed up development of IN and wireless applications |
| Developers can use C and C++ instead of lower-level APIs | Eases development effort and reduces development time by allowing developers to use widely known programming languages |
| Includes a variety of OAM&P Interfaces | Provides streamlined network management |
| Maintains component-level redundancy (either N+1 or 1+1) through the Dialogic® Converged Services Administrator (CSA) and Dialogic® Low Level Communications (LLC); LLC and Dialogic® SwitchManager can operate in hot standby mode | Redundancy and hot standby mode provide the high reliability required in a carrier-grade environment |
| Designed with distinct modules | Modularity allows developers to expand and upgrade a system incrementally, and separately from applications |
| Platform-independent and supports open standards | Can be deployed on personal computers, workstations, and servers, allowing network administrators to allocate the processing power, memory, and other resources needed to achieve the required level of performance |
| Multiple applications can operate on the same host computer without host-level integration; distributes messages among applications | Relieves developers of integration chores |

Interfaces for Dialogic® MSP SwitchKit® Development Environment

MSP SwitchKit offers the following interfaces for OAM&P:

- **clientView** — A browser-based GUI for the MSP 1010. It includes user-authentication levels for configuring, provisioning, and monitoring the MSP 1010. Because clientView is data driven, aspects of the screens may be customized for specific carrier needs. Customizable features include object names and descriptions, default values, and pull-down parameters.
- **dataManager** — An XML application interface, which allows developers to integrate SwitchKit into their management platform.
- **eventView** — A GUI-based process for monitoring alarms and events as they occur on the MSP 1010.

Open Programmability

SwitchKit is supported on a variety of computing platforms, and allows developers to implement applications using either C or C++. Because SwitchKit operates separately from CSP Platforms or MSP 1010 upgrades, modifications and customizations of one resource can be implemented independently, without affecting other components and without redesign.

SwitchKit Components

Dialogic® Low Level Communications (LLC)

LLC coordinates and routes all messages between application modules and the CSP Platforms or the MSP 1010. Applications interface with the LLC through the SwitchKit API.

Dialogic® SwitchKit API

The Dialogic® SwitchKit API facilitates rapid platform-to-application integration by providing a high-level interface between the application and the system software for CSP Platforms or the MSP 1010. The API uses C and C++ to support automatic configuration and redundancy control, and extracts messages passing between the application and the LLC, which enables the configuration of the CSP Platforms or the MSP 1010 from within the application.

Dialogic® SwitchManager

SwitchManager maintains the CSP Platforms or the MSP 1010 in a state of readiness, and assists developers with initial configuration and dynamic reconfiguration. SwitchManager also monitors alarms and user-defined responses, detecting faults and sending fault notifications. In the CSP SwitchKit, SwitchManager tracks CPU switchover and automates N+1 redundancy.

Dialogic® Converged Services Administrator (CSA)

CSA is a GUI included in the CSP SwitchKit, which is used for creating and managing configurations, as well as for monitoring a system and the applications running on it. The CSA displays the state of the CSP Platforms, their components, and alarms in real time, enabling users to change states, maintain trunk groups, and manage channels in real time.

Dialogic® SNMP Extension Agent

The Dialogic® SNMP Extension Agent receives alarms from the CSP Platforms or the MSP 1010 and converts them into traps, which are forwarded to the customer's network management system.

Operating System and Compiler Support

SwitchKit supports Windows® (Microsoft® Visual C®, Visual C++®), Red Hat Linux (GNU gcc), Solaris (Forte and GNU gcc), and HP/UX (ACC). For additional operating system support and more details, contact your sales representative or consult SwitchKit documentation.

To learn more, visit our site on the World Wide Web at <http://www.dialogic.com>

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12/07 10830-01