

*We put the Intelligence in the Smart Grid*

RTscada  
Power Management Simplified



## RTscada Casual User Server

### Real-Time Data Access for Corporate Users

- **Real-time data for**
  - **Planners**
  - **Engineers**
  - **Managers**
  - **Maintenance Technicians**
- **Secure access via Microsoft Terminal Services**
- **Centralized user administration**
- **No special client software required**
- **Integrated security via Active Directory**
- **Session timeout automatically removes inactive users**
- **Read-only or full control**
- **Individual user access privileges**
- **Graphical User Interface**
- **Alarm Display**
- **Device Manager**

In today's fast-moving utility environment, access to real-time data is no longer restricted to system operators. Other users such as planners, engineers, manager and maintenance personnel require operational data to effectively perform their duties.

The **RTscada** Casual User Server solves this problem by providing secure, managed access to operational data via one or more centralized servers. The servers are configured to support multiple client connections via Microsoft Terminal Services. No special software is required on the client computers. Users connect to the central server using Microsoft Remote Desktop, using their standard corporate LAN ID. Logon security is controlled by your corporate Active Directory. Once connected, users have access to a set of specially designed programs that provide operational data via a Graphical User Interface, Alarm Display, and Device Manager

User data access is controlled by the system administrator on the casual user server. Each user may be granted access to individual remote sites. In addition, each user can be granted full control or read-only access to the operational data. Casual users can also be restricted to accessing only a portion of the available real-time data.

User activity is monitored via the terminal services session manager. After a selectable period of inactivity, users are automatically logged off, freeing up resources and licenses for active users.

The Casual User server is licensed on a concurrent use basis. Any number of users can be authorized for access, but only the licensed number of user can be simultaneously using the system.

**RTscada**

## Graphical User Interface

The GUI program provides display and interaction with data from substations and field devices, such as relays, capacitor controls and line reclosers. Provide your planners and engineers with the ability to look at bank and line loads, change capacitor settings and remotely program field devices. Navigate through hierarchical views, display multiple windows, and print screen shots on the user's local printer.



RTscada Device Manager

Device	Status	Health	Good	No Rsp	Fails	1 Hr	Priv Hr	8 Hr	Priv 8	24 Hr	Priv 24	FEP Chan Adr
Sub 155 CB-14245	Normal	99	86056	3	0	99	99	99	99	99	98	Q tcp/ip
Sub 155 CB-14246	Normal	99	86058	4	0	99	99	99	99	99	98	Q tcp/ip
Sub 155 CB-14249	Normal	99	86056	5	1	99	99	99	99	99	98	Q tcp/ip
Sub 85 CB-14794 (ISQ)	Normal	100	55731	0	0	100	100	100	100	100	100	Sub 85(Pepeco Sub 85)
SW-141630 (ISQ)	Normal	0	0	0	0	0	0	0	0	0	0	Sub 122(Pepeco Sub 12)
SW-14163E (ISQ)	Normal	0	0	0	0	0	0	0	0	0	0	Sub 122(Pepeco Sub 12)
SW-14163F (ISQ)	Normal	0	0	0	0	0	0	0	0	0	0	Sub 122(Pepeco Sub 12)
SW-14163G (ISQ)	Normal	0	0	0	0	0	0	0	0	0	0	Sub 122(Pepeco Sub 12)
SW-14241D	Normal	100	120	0	0	100	100	100	100	100	100	Q ext_1
SW-14241E	Normal	100	120	0	0	100	100	100	100	100	100	Q ext_1
SW-14241F	Normal	0	120	24555	1	0	0	0	0	0	0	Q ext_1
SW-14241G	Normal	99	42034	68	0	99	99	99	99	99	99	Q ext_1
SW-14249D	Normal	100	120	0	0	100	100	100	100	100	100	Q ext_1
SW-14249E	Normal	100	120	0	0	100	100	100	100	100	100	Q ext_1
SW-14249F	Normal	100	120	0	0	100	100	100	100	100	100	Q ext_1
SW-14249G	Normal	100	120	0	0	100	100	100	100	100	100	Q ext_1
SW-151380T (ISQ)	FEP Fail	0	0	0	0	0	0	0	0	0	0	Sub 15(Pepeco Sub 15)
SW-151380F (ISQ)	FEP Fail	0	0	0	0	0	0	0	0	0	0	Sub 15(Pepeco Sub 15)

  

FEP	Status	NETWORK
Sub 122(Pepeco Sub 12) (ISQ)	Normal	
Sub 15(Pepeco Sub 15) (ISQ)	Disconnected	
Sub 85(Pepeco Sub 85) (ISQ)	Normal	
Q	Normal	

## Device Manager

The Device Manager provides real-time information and statistics for communications. The information includes Front End Processors and Devices, as well as statistics for message counters (good, bad, no response, error responses) and health during the latest/previous hour, 8-hour, and 24-hour periods. This information is most useful to technicians tasked with troubleshooting issues related to communications, such as LAN, WAN, radios, lease lines, etc.

## Alarm Display

The Alarm Display program provides a view of real-time alarms and events that have occurred on the system. Scroll back through the list to see a history of alarms, filter by priority and select from one of ten different views of the alarm data.

RTscada Alarm Display

2000 Alarms, 2000 Displayed

Display Type: System

Priority Filter: 0

Integrated Summary: Summary 1, Summary 2, Summary 3, Summary 4, Summary 5, Summary 6, Summary 7, Summary 8

10/20/07 10:26:01.702 (P03)	Sub 85 14794 High Magnitude Fault	NORMAL
10/20/07 10:25:55.744 (P03)	Sub 155 14249 Down Conductor A Phase	NORMAL
10/20/07 10:25:55.744 (P03)	Sub 155 14249 Down Conductor B Phase	NORMAL
10/20/07 10:25:55.744 (P03)	Sub 155 14249 Down Conductor C Phase	NORMAL
10/20/07 10:25:55.728 (P03)	Sub 155 14245 Down Conductor A Phase	ALARM
10/20/07 10:25:55.728 (P03)	Sub 155 14245 Down Conductor B Phase	ALARM
10/20/07 10:25:55.728 (P03)	Sub 155 14245 Down Conductor C Phase	ALARM
10/20/07 10:25:53.900 (P03)	Sub 155 14246 Down Conductor A Phase	ALARM
10/20/07 10:25:53.900 (P03)	Sub 155 14246 Down Conductor B Phase	ALARM
10/20/07 10:25:53.900 (P03)	Sub 155 14246 Down Conductor C Phase	ALARM
10/20/07 10:25:52.728 (P03)	Sub 155 14241 Down Conductor A Phase	ALARM
10/20/07 10:25:52.728 (P03)	Sub 155 14241 Down Conductor B Phase	ALARM
10/20/07 10:25:52.728 (P03)	Sub 155 14241 Down Conductor C Phase	ALARM
10/20/07 10:25:51.588 (P04)	Sub 85 14794 Reclose Block	NORMAL
10/20/07 10:25:45.744 (P07)	Sub 155 14245 Cumulative Lockout	NORMAL
10/20/07 10:25:43.900 (P07)	Sub 155 14246 Cumulative Lockout	ALARM
10/20/07 10:25:42.728 (P07)	Sub 155 14241 Cumulative Lockout	ALARM
10/20/07 10:25:35.744 (P07)	Sub 155 14245 Trip Coil Fail	NORMAL
10/20/07 10:25:13.900 (P07)	Sub 155 14246 Trip Coil Fail	ALARM
10/20/07 10:25:12.728 (P07)	Sub 155 14241 Trip Coil Fail	ALARM
10/20/07 10:25:05.744 (P03)	Sub 155 14249 LSI	DISABLED

## Server Requirements

Dedicated server with 1-8 Pentium CPUs  
 4-16 GB memory  
 Windows Server 2003 (32-bit or 64-bit)  
 Windows Terminal Services and CALs  
 1 GB/sec network interface(s)  
 Integration with corporate Active Directory or Domain

## Client Requirements

Windows desktop operating system  
 Windows Remote Desktop  
 Domain or Active Directory Logon

DC Systems is a leading developer of Smart Grid software for electric utilities. DC Systems provides the RTscada family of products which are used to acquire real-time data from intelligent substation and field devices, securely transport the data over utility communication and network systems, and present the data in a meaningful way to both users and other enterprise systems such as EMS, DMS, OMS, maintenance, and corporate historians. The product family includes data concentrators, communication gateways, substation masters, transmission and distribution SCADA, as well as enterprise information management and data presentation systems. Advanced distribution automation programs provide real-time data analysis, decision making



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