

TRAINING SERVICES COURSE CATALOG

2018

INTRODUCTION

As the market leader in SON, Cellwize cooperate with customers and partners to achieve full solution adoption. Cellwize helps prepare client users to configure, rollout, operate, and support the Cellwize solution, tailored to the client-specific environments and needs.

WHY CELLWIZE TRAINING SERVICES

In-depth product and technology education enables customers to develop the required skills and knowledge to ensure confident understanding and ownership of the Cellwize SON solution. With this objective in mind, Cellwize offers an extensive suite of courses to:

- Ensure a full and comprehensive product understanding
- Enhance ability to use the solution effectively
- Leverage investment in the Cellwize solution

Cellwize Training Services uses the experience gained in real-world implementations when developing materials, thereby adding value to the overall learning experience. Comprehensive product training is available for engineering, operations, managers and system administrators.

HOW IT WORKS

Structured to meet the needs of each particular audience, Cellwize Training courses are offered via different delivery methods. Whether over the Internet or in an instructor-led hands-on course, the training program builds from initial concepts to more detailed and involved methodologies.

customers learn in a focused, direct manner with appropriate hands-on training to facilitate the learning experience. The courses include a sandbox environment exposing the client to complex features and functionality that enable immediate implementation of lessons learned.

The Cellwize Training is an integral part of the Cellwize philosophy. Open enrollment courses and dedicated on-site courses are offered to our customers and partners. Customized training programs for specific issues and areas are also available. Training is conducted in English and many courses are offered on-site or via remote sessions (WebEx).

HOW TO REGISTER

Cellwize Training Services would be happy to discuss your training needs and work with you to find suitable solutions for your training requirements.

To register for one of our course offerings listed in this course catalog, or learn about course customization to meet your organization's unique business needs, please contact us at:

training@cellwize.com

TARGET AUDIENCE

Each course is designed for a specific audience, based on the unique needs and skill sets of the audience groups. Using the Target Audience table below, the client can determine to which category users belong.

The Training Path has markers for each audience group, ensuring each participant selects the course that will fit his or her specific needs.

AUDIENCE	DESCRIPTION
RAN Engineering 	Responsible for Radio Network Design, Optimization, Parameterization, Planning, Reports and Measurements Also know as: RAN Planning, RAN Optimization
RAN Operation 	Responsible for operation and management of RAN elements, Monitoring network KPIs Also known as: OSS Operation Engineer, NOC
IT 	Responsible for HW, Servers, Security, Integration and Maintenance Also known as: DCN, System, Infrastructure
OSS Admin 	Responsible for OSS Administration, Network Inventory, Service provisioning, and Network Configuration Also known as: OSS Operation, OSS Maintenance

TRAINING PATH

TARGET AUDIENCE

-  RAN Engineering
-  Operation
-  IT / Admin
-  OSS

COURSE NAME	DURATION	AUDIENCE
PRODUCT TRAINING		
Cellwize cSON Solution Overview Training	1 day	   
Cellwize cSON Operation Training	3 days	 
Cellwize cSON Advanced Optimization Training	3 days	
Cellwize cSON Advanced Administration Training	2 days	  
Cellwize Policy Studio Operation Training	2 Days	 

CELLWIZE cSON | SOLUTION OVERVIEW TRAINING

AUDIENCE



RAN Engineering, Operations, IT, OSS. All team members, management and key players that need to understand Cellwize cSON architecture, flows and the benefits of running the Cellwize solution in the mobile network.

OBJECTIVES

This course is designed to help you understand the imperative concepts and techniques used in the Cellwize cSON solution. Upon completion you will be able to understand the products concepts and describe the basic operation and integration of the solution in the network.

KEY TOPICS

- Cellwize cSON solution architecture overview (solution specific)
- Cellwize integration interfaces
- Data acquisition flow
- 4G, 3G, 2G optimization modules overview (solution specific)
- SONStudio functionality and operation
- SONStudio demo
- KPIs and performance monitoring
- SON operation best practices

PREREQUISITES

Participants should have background and knowledge in one of the following areas:

- RAN Engineering \ Operation \ OSS

DURATION

1 Day

DELIVERY METHOD

On-Site, Open Enrollment, Remote.

This workshop includes a lectures book containing key concepts on each topic covered

CELLWIZE CSON | OPERATION TRAINING

AUDIENCE



RAN Engineering and operations. All team members who need to operate the Cellwize solution, understand its concepts and what can be achieved using the SON solution.

The course is targeted towards team members who will work daily with the SON solution.

OBJECTIVES

This course is designed to help you understand the imperative concepts and techniques used in the Cellwize SON solution. Upon course completion you will be able to understand the products concepts and perform basic monitoring and operations of the solution on your mobile network.

KEY TOPICS

- Cellwize SON solution architecture overview (solution specific)
- Cellwize integration interfaces
- Data acquisition flow
- 4G, 3G, 2G optimization modules basic overview (solution specific)
- SONStudio functionality and operation
 - Operational tasks
 - Network topology
 - Optimization tasks
 - Optimization reports analysis
 - Provisioning reports
- Hands-on exercises: creating, executing and analyzing various optimization modules
- KPIs and performance monitoring

PREREQUISITES

Participants should have background and knowledge in one of the following areas:

- RAN Engineering \ Technical RF \ Optimization

DURATION

3 Days

DELIVERY METHOD

On-Site, Open Enrollment.

This course includes a lecture book and a workbook containing key concepts on each topic covered and hands-on activities to reinforce the skills and knowledge attained.

CELLWIZE CSON | ADVANCED OPTIMIZATION TRAINING

AUDIENCE ●

RAN Engineering. Team members who need to configure, execute and troubleshoot optimization tasks on the SON platform.

OBJECTIVES

This course is a customized follow-up course to the “Cellwize cSON Operation Training”. The course provides you with the advanced skills, methods and techniques required to become a Cellwize cSON power user.

The course is designed for the RAN Engineer who has solid working experience with the Cellwize cSON solution and wants to further understand the optimization algorithms and the solution ability to provide value to the network.

Upon course completion, you will have a deep understanding of the optimization modules algorithms and the ability to configure and operate various optimizations strategically.

KEY TOPICS

- Cellwize cSON Platform and solution architecture overview (solution specific)
- 4G, 3G, 2G optimization modules algorithm in depth (solution specific)
- Advanced module setting and project related settings
- Hands-on exercises: for each optimization module participants will:
 - Create and configure an optimization task
 - Analyze the optimization report
 - Adjust advanced optimization parameters
 - Monitor and analyze optimization task execution
- Case studies / Open Discussion:
 - Analysis of live network optimization results in production system
 - Tuning advanced parameters to achieve desired results
- KPIs and performance monitoring
- Optimization and provisioning troubleshooting

PREREQUISITES

Cellwize SON Operation Training and 6 months working experience with the solution.

DURATION

3 Days

DELIVERY METHOD

On-Site, Open Enrollment.

This course includes a lecture book and a workbook containing key concepts on each topic covered and extensive hands-on activities to reinforce the skills and knowledge attained.

CELLWIZE cSON | ADVANCED ADMINISTRATION TRAINING

AUDIENCE



IT, operation, RAN Engineering. Team members who are responsible for SON implementation, customization, administration and development.

OBJECTIVES

This course is a customized follow-up course of “Cellwize cSON Operation Training”. The course provides you with the advanced skills, methods and techniques required to become a Cellwize cSON solution administrator.

The course covers cSON Data Acquisition and cSON Provisioning customization. Upon course completion, you will have a deep understanding of all the integration points, scripts, processes, concepts and the ability to operate, customize and monitor them continuously.

This course is only needed during Cellwize cSON operation service hand-over, from Cellwize team to the operator.

KEY TOPICS

- Cellwize cSON Platform and solution detailed architecture overview (solution specific)
- Mediation server:
 - Cellwize integration interfaces
 - Scripting framework & Data acquisition
- Application server:
 - SONStudio overview
 - SONStudio operational task creation, execution and monitoring
 - SON
- Optimization server:
 - Optimization and OSS provisioning
- Platform Operation & maintenance troubleshooting
- Hands-on exercises

PREREQUISITES

Cellwize cSON Operation Training and 6 months working experience with the solution.

DURATION

2 Days

DELIVERY METHOD

On-Site, Open Enrollment.

This course includes a lecture-book and a work-book containing key concepts on each topic covered and extensive hands-on activities to reinforce the skills and knowledge attained.

CELLWIZE CSON | POLICY STUDIO OPERATION TRAINING

AUDIENCE



RAN Engineering, Operation. Team members who are responsible for network design and policy implementation and development. The Cellwize Policy Studio Operation training course is intended for the beginner to intermediate-level Cellwize Policy Studio user. The course is targeted towards team members who will work daily with the Policy Studio

OBJECTIVES

This course is designed to help network designers understand the imperative concepts and techniques used in the Cellwize Policy Studio.

Upon course completion, designers will be able to operate, manage and implement necessary policy concepts and techniques to leverage the full potential of the Policy Studio solution on the mobile network.

This course is only needed during Cellwize cSON operation service hand-over, from Cellwize delivery team to the operator.

KEY TOPICS

- Introduction and solution overview
- Architecture and data flow
- Policy Studio UI Orientation
- Change sets, the workflow concepts (Define, Test, Publish)
- Policies
- Workbook browser
- Advanced features
- UDF – User Defined Functions
- Hands-on exercises
- Troubleshooting

PREREQUISITES

Participants should have a background and knowledge in one of the followings:

- RAN engineering
- Network Design

DURATION

2 Days

DELIVERY METHOD

On-Site, Open Enrollment.

This course includes a lecture-book and a work-book containing key concepts on each topic covered and extensive hands-on activities to reinforce the skills and knowledge attained.

CELLWIZE TRAINING SERVICES



MORE INFORMATION

Cellwize classroom courses are taught regionally in classrooms around the world. We also have the flexibility to offer our courses at your organization's premises.

For scheduling, pricing and registration please contact us at: training@cellwize.com



ABOUT CELLWIZE

THE BEST, MOST COMPREHENSIVE SON

Cellwize provides cutting-edge SON (Self Organizing Network) solutions to mobile operators. Mobile networks empowered by our proprietary elastic-SON® continuously react to real-time changes and match capacity, coverage and quality with evolving usage patterns and users' needs.

Our elastic-SON platform uses Big Data insight to transform spotty and volatile networks that struggle to meet demand into user-centric and over-performing mobile networks across multiple vendors and wireless technologies (Multi-RAT). Our proven technology improves network management and reduces on-going CAPEX and OPEX investments. It offers mobile operators in-depth insights into their radio networks and enables them to differentiate their offering and provide superior personalized user experience targeting areas of high-value density.

Cellwize was founded by Telecom professionals and its technology was designed by RF experts mastering network topology and behaviors. Cellwize is headquartered in Singapore with R&D and sales offices across the EMEA region.