

Course Outline

Security Center: Sipelia	
Code	SC-SIP-001 (5.x)
Level	Intermediate
Duration	1 day
Target audience	Technicians, Administrators, and IT Professionals
Prerequisites	Any base-level Security Center Technical course (SC-OTC-001, SC-STC-001, SC-AFC-001, SC-AFS-001, SC-AMC-001)
Objectives	<p><u>Upon successful completion of this course the participant will be able to:</u></p> <ul style="list-style-type: none">• Install the Sipelia 2.8 VOIP solution on to an existing Security Center v. 5.8 system.• Setup and configure Sipelia 2.8• Install IP intercom hardware to be managed by Sipelia server• Install softphone PC software to be managed by Sipelia• Configure Intercom HW, SW and Security Desk applications as SIP endpoints in the larger system• Manage audio and video calls between the different SIP endpoints• Associate intercoms with other Security Center entities (doors, camera)• Generate inventory report• Generate (historical) call report
Certification	A certification Exam will be given at the end of this course.

Topic	Description
Module 1: <i>Introduction</i> (30 min)	<ul style="list-style-type: none"> • Intro to Genetec • Security Center Overview
Module 2: <i>Signals & Transmission</i> (30 min)	<ul style="list-style-type: none"> • Digital and analog signals • Data Flow (Transmission) • Data and signals • Codec • Advantages of Digital Transmission
Module 3: <i>Basic Telephone Systems</i> (30 min)	<ul style="list-style-type: none"> • PBX • CO • PSTN • Switching • Local loop • Trunks • ISDN
Module 4: <i>VOIP</i> (30 min)	<ul style="list-style-type: none"> • IPPBX • IP Phone variations <ul style="list-style-type: none"> ○ Hardphone ○ Softphone ○ ATA • Call Signaling <ul style="list-style-type: none"> ○ H323, SIP • Call Transport <ul style="list-style-type: none"> ○ STP, RTCP, RTSP • Gateway • Numbering plans
Module 5: <i>Getting started in Sipelia</i> (30 min)	<ul style="list-style-type: none"> • What is Sipelia™? • System requirements • Sipelia Architecture • Licensing • Dial plans
Module 6: <i>Sipelia™ deployment</i> (1½ hour)	<ul style="list-style-type: none"> • Installing Sipelia™ Server • Creating the Sipelia™ Plugin role • Configuring the Sipelia™ system communication service • Configuring SIP accounts for SC users • Installing Sipelia™ Client • Configuring Sipelia™ Client
Module 7: <i>Additional Configuration</i> (30 min)	<ul style="list-style-type: none"> • Recording the audio and video of call sessions • Associating SC cameras with users • DTMF presets

<p>Module 8: <i>User interface tour of Sipelia™</i> (30 min)</p>	<ul style="list-style-type: none"> • Call management • Commands During a Call • Call report task • Viewing the inventory of VoIP entities
<p>Module 9: <i>SIP intercoms</i> (1 hour)</p>	<ul style="list-style-type: none"> • Adding SIP intercoms to Sipelia™ Server • Associating SC entities with SIP intercoms • Registering your SIP intercom with Sipelia™ Server • Example <ul style="list-style-type: none"> ○ Axis Intercom ○ 2N Intercom ○ Zenitel Intercom
<p>SC-SIP-001 Exam (1 hour)</p>	<ul style="list-style-type: none"> • Exam • Passing grade: 80% • 1 hour