



A

adding

- Catalyst 6000 FXS ports [19](#)
 - Catalyst 6000 FXS ports to Cisco CallManager [26](#)
 - IP services to phone template [5](#)
 - lines to phone template [4](#)
 - manager assistant [11](#)
 - phones [22](#)
 - phone template [3](#)
 - speed dial settings to phone template [6](#)
 - user device profiles [1, 12](#)
 - users [1](#)
 - users to Cisco CallManager [8](#)
 - VG200 FXS or FXO gateways to Cisco CallManager [15](#)
 - VG200 gateways and ports [2](#)
 - VG200 T1-CAS, T1-PRI, or E1-PRI gateways to Cisco CallManager [15](#)
- auto-registration [1](#)

B

BAT

- browser requirements [3](#)

- default location of log files [14, 1](#)
- error messages [2](#)
- installation overview [1](#)
- installing [3](#)
- log files [1](#)
- logging on [4](#)
- online help [4](#)
- overview [1](#)
- specifications [2](#)
- starting [3](#)
- stopping [5](#)
- troubleshooting [1, 2](#)
- uninstalling [8](#)
- upgrading [2](#)
- using [3](#)
- version [4](#)
- viewing log files [2](#)

BAT.xlt

- create CSV for CTI ports [8](#)
- create CSV for CTI ports-users [8](#)
- create CSV for H.323 clients [8](#)
- create CSV for H.323 clients-user [8](#)
- create CSV for manager assistant associations [6](#)
- create CSV for phones [8](#)

- create CSV for phones-users [8](#)
- create CSV for users [3, 13](#)
- create CSV for VGC phones [8](#)
- create CSV for VGC phones-users [8](#)
- create CSV for VGC virtual phones [8](#)
- create CSV for VGC virtual phones-users [8](#)
- creating Catalyst 6000 FXS ports [23](#)
- file location [3](#)
- browser requirements [3](#)

C

Cisco CallManager

- adding Catalyst 6000 FXS ports [26](#)
- adding CTI ports [22](#)
- adding H.323 clients [22](#)
- adding phones [22, 25](#)
- adding phones and users [25](#)
- adding users [8](#)
- adding VG200 FXS or FXO gateways [15](#)
- adding VG200 T1-CAS, T1-PRI, or E1-PRI gateways [15](#)
- adding VGC phones [22](#)
- auto-registration must be enabled for TAPS [1](#)

Cisco Catalyst 6000 FXS ports

- adding or updating ports [19](#)
- adding ports [19](#)
- adding to Cisco CallManager [26](#)
- creating BAT template [20](#)

- creating CSV file [21](#)
- deleting ports [30](#)
- deleting template [34](#)
- field descriptions [57](#)
- limit of 500 [23](#)
- overview [1, 19](#)
- updating [29](#)

Cisco CRA

- required for TAPS [2](#)
- troubleshooting TAPS [6](#)
- uninstalling TAPS [9](#)
- uploading TAPS [7](#)

Cisco IP IVR

- required for TAPS [2](#)

Cisco VG200

- adding gateways and ports [2](#)
- adding to Cisco CallManager (FXS or FXO) [15](#)
- adding to Cisco CallManager (T1-CAS, T1-PRI, or E1-PRI) [15](#)
- configure using CLI prior to adding gateways in BAT [1](#)
- copying a template [16](#)
- creating a template [3](#)
- creating CSV file for FXS or FXO [7](#)
- creating CSV file for T1-CAS, T1-PRI, or E1-PRI [9](#)
- delete only selected gateways [17](#)
- deleting BAT template [34](#)
- deleting gateways [17](#)
- field descriptions for E1-PRI [44](#)

- field descriptions for FXO [37](#)
- field descriptions for FXS [35](#)
- field descriptions for T1-CAS [39](#)
- field descriptions for T1-PRI [44](#)
- overview [1](#)
- updating endpoint identifiers [7](#)
- Cisco VGC phones
 - adding VGC phones-users to Cisco CallManager [25](#)
 - adding VGC phone-users to Cisco CallManager [25](#)
 - creating CSV file [7](#)
 - updating phone records [30](#)
- Cisco VGC virtual phones
 - adding VGC virtual phones-users to Cisco CallManager [25](#)
 - adding VGC virtual phone-users to Cisco CallManager [25](#)
 - creating CSV file [7](#)
- CLI [1](#)
- command line interface [1](#)
- configuring
 - user device profiles [1](#)
- copying
 - Catalyst 6000 FXS ports template [28](#)
 - gateway directory number template [33](#)
 - phone template [28](#)
 - VG200 template [16](#)
- create dummy MAC address [15, 24, 26](#)
- creating
 - Catalyst 6000 FXS ports template [20](#)
 - CSV file for Catalyst 6000 FXS ports [21](#)
 - CSV file for user device profile [4](#)
 - CSV file for VG200 FXS or FXO [7](#)
 - CSV file for VG200 T1-CAS, T1-PRI, or E1-PRI [9](#)
 - phone template [3](#)
 - template for gateway directory number [32](#)
 - user device profiles template [2](#)
 - VG200 template [3](#)
- CSV
 - Catalyst 6000 FXS ports [21](#)
 - creating a BAT.xlt for manager assistant associations [6](#)
 - creating a BAT.xlt for users [3, 13](#)
 - creating a text-based file for Catalyst 6000 FXS ports [25](#)
 - creating a text-based file for manager assistant associations [9](#)
 - creating a text-based file for phones, phones-users combination, IP telephony devices and IP telephony devices-users combination [16](#)
 - creating a text-based file for update users [15](#)
 - creating a text-based file for user device profiles [7](#)
 - creating a text-based file for users [5](#)
 - creating a text-based file for VG200 gateways and ports [12](#)
 - creating for user device profile [4](#)
 - CTI ports [7](#)
 - H.323 clients [7](#)
 - manager assistant associations [6](#)

- no blank lines [11, 5](#)
 - phone [7](#)
 - required location for saving files [6, 16, 8, 9](#)
 - retaining stored values [17](#)
 - text file for phones [16, 12, 25](#)
 - tips for creating text-based CSV for Manager-Assistant Association [10](#)
 - tips for creating text-based CSV for user device profiles [9](#)
 - tips for creating text-based CSV for user device profiles with two lines [10](#)
 - tips for creating text-based CSV for users [7, 16](#)
 - tips for creating text-based file for CTI Ports or CTI Ports-users [17](#)
 - tips for creating text-based file for H.323 clients or H.323 clients-users, [17](#)
 - tips for creating text-based file for phones, phones-users, IP telephony devices, or IP telephony devices-users [17](#)
 - tips for creating text-based file for VGC phones or VGC phones-users [17](#)
 - tips for creating text-based file for VGC virtual phones or VGC virtual phones-users, [17](#)
 - using BAT.xlt for Catalyst 6000 FXS ports [23](#)
 - using BAT.xlt for phones [8, 9](#)
 - using BAT.xlt for phone-user combination [8, 9](#)
 - using BAT.xlt for telephony devices [9](#)
 - using BAT.xlt for telephony devices-user combination [9](#)
 - using BAT.xlt for update users [12](#)
 - using BAT.xlt for users [2](#)
 - VG200 for FXS or FXO [7](#)
 - VG200 for T1-CAS, T1-PRI, or E1-PRI [9](#)
 - VGC phones [7](#)
 - VGC virtual phones [7](#)
- CTI ports
- adding CTI ports-users combination to Cisco CallManager [25](#)
 - associating new port to existing user [7](#)
 - creating CSV file [7](#)
 - deleting [36](#)
 - directory number must match number of lines in template [8](#)
 - enable authentication proxy rights [27](#)
 - enable CTI application use [23, 27](#)
 - using BAT.xlt to create CSV [8](#)
 - using BAT.xlt to create CSV for CTI ports-users combination [8](#)
 - using dummy MAC address option [24, 26](#)
- custom file [36](#)
-
- D**
- deleting
- assistants [21](#)
 - Catalyst 6000 FXS ports [30](#)
 - Catalyst 6000 FXS ports template [34](#)
 - CTI ports [36](#)
 - gateway directory number template [34](#)
 - H.323 clients [36](#)

- IP telephony devices [36](#)
 - manager assistant [17](#)
 - managers [19](#)
 - phones [36](#)
 - phones using custom files [36](#)
 - selected VG200 gateways [17](#)
 - user device profiles [15](#)
 - users [20](#)
 - VG200 gateways [17](#)
 - VG200 template [34](#)
 - directory number
 - creating gateway template [32](#)
 - securing from TAPS [7](#)
 - downloading
 - phone configuration using TAPS [11](#)
 - dummy MAC address [15, 24, 26, 34](#)
-
- ## E
- E1-PRI
 - adding VG200 gateways to Cisco CallManager [15](#)
 - creating the CSV file for VG200 gateways [9](#)
 - field descriptions for VG200 [44](#)
 - enable authentication proxy rights
 - adding users [9](#)
 - for CTI ports and users [27](#)
 - for phones and users [27](#)
 - enable CTI application use
 - adding users [9](#)
 - CTI ports [23](#)
 - CTI ports and users [27](#)
 - phones [23](#)
 - phones and users [27](#)
 - endpoint identifiers, updating [7](#)
 - error messages, BAT [2](#)
 - Exported Fields
 - All Phone Details [6](#)
 - All User Device Profile Details [12](#)
 - Default Phone [5](#)
 - exporting
 - phone records [4](#)
 - user device profile records [11](#)
 - user records [8](#)
 - Export to BAT Format button does not work in BAT.xlt file [3](#)
-
- ## F
- field descriptions
 - adding or updating lines [48](#)
 - adding or updating lines to UDP template [16](#)
 - Catalyst 6000 FXS ports [57](#)
 - gateway directory number template [59](#)
 - ground start [37](#)
 - loop start [37](#)
 - phone template [39, 54](#)
 - VG200 - E1-PRI [44](#)
 - VG200 - FXO [37](#)
 - VG200 - FXS [35](#)

VG200 - T1-CAS [39](#)

VG200 - T1-PRI [44](#)

FXO

adding VG200 gateways to Cisco
CallManager [15](#)

field descriptions [37](#)

FXS

adding Catalyst 6000 ports to Cisco
CallManager [26](#)

adding or updating ports for Catalyst 6000
ports [19](#)

adding VG200 gateways to Cisco
CallManager [15](#)

creating BAT template for Catalyst 6000
ports [20](#)

creating CSV file for Catalyst 6000 ports [21](#),
[23](#)

creating CSV file for VG200 gateways [7](#)

creating the CSV file for VG200 gateways [7](#)

deleting Catalyst 6000 ports [30](#)

field descriptions for Catalyst 6000 ports [57](#)

field descriptions for VG200 [35](#)

updating Catalyst 6000 ports [29](#)

G

gateway

Cisco Catalyst 6000 FXS ports [1](#)

Cisco VG200 overview [1](#)

gateway directory number

copying template [33](#)

deleting template [34](#)

field descriptions for template [59](#)

template [32](#)

gateway directory number template

required if you specified directory
numbers [32](#)

ground start, field descriptions [37](#)

H

H.323 clients

adding H.323 Client-users to Cisco
CallManager [25](#)

creating CSV file [7](#)

deleting [36](#)

halting TAPS [7](#)

help [4](#)

I

installing

BAT/TAPS [3](#)

BAT/TAPS prerequisites [3](#)

completing TAPS installation [7](#)

no backward template migration [2](#)

no template migration when upgrading from
release 3.0(3) [2](#)

overview [1](#)

TAPS [5](#)

TAPS after BAT has already been installed [5](#)

TAPS prerequisites [5](#)
 template migration during upgrade [2](#)
 instructions, TAPS for end-users [11](#)
 IPMA
 adding manager assistant [11](#)
 BAT.xlt [6](#)
 creating CSV file [6](#)
 creating text-based CSV file [9](#)
 deleting assistants [21](#)
 deleting manager assistant [17](#)
 deleting managers [19](#)
 manager and assistant line configurations [14](#)
 setting up phones and Lines [1](#)
 updating manager assistant [12](#)

L

lines
 adding or updating [4](#)
 field descriptions for adding or updating [48](#)
 field descriptions for adding or updating to
 UDP template [16](#)
 maximum number [5](#)
 updating [32, 14](#)
 log files
 BAT [1](#)
 explanation of file naming convention [14, 2](#)
 export log files [14](#)
 viewing [2](#)
 logging on to BAT [4](#)

loop start,field descriptions [37](#)

M

MAC address
 dummy MAC address [34](#)
 generate a list of phones with dummy [34](#)
 module in slot [4](#)

N

NM-1V [4](#)
 NM-2V [4](#)
 NM-HDV [4](#)

O

overview
 adding or updating FXS ports for Catalyst
 6000 modules [19](#)
 adding VG200 gateways and ports [2](#)
 BAT [1](#)
 Catalyst 6000 FXS ports [19](#)
 creating CSV files for FXS ports on Catalyst
 6000 modules [21](#)
 gateway directory number [31](#)
 TAPS [1, 2](#)
 working with gateways and ports [1](#)

P

phone

- adding a template [3](#)
- adding or updating IP services [5](#)
- adding or updating lines [4](#)
- adding or updating speed dial settings [6](#)
- adding phones-users combination to Cisco CallManager [25](#)
- adding to Cisco CallManager [22, 25](#)
- BAT reaction if line information fails during insert [28](#)
- copying a template [28](#)
- creating CSV file [7](#)
- CSV text file [16, 12, 25](#)
- deleting [36](#)
- deleting templates [38](#)
- enable authentication proxy rights [27](#)
- enable CTI application use [23, 27](#)
- exporting records [4](#)
- field descriptions for phone template [39, 54](#)
- generate a list of phones with dummy MAC addresses [34](#)
- updating [30](#)
- updating lines [32, 14](#)
- using BAT.xlt to create CSV for phone [8, 9](#)
- using dummy MAC address option [15, 24, 26](#)

ports adding VG200 [2](#)

prerequisites

- BAT/TAPS [3](#)

TAPS [5](#)

Q

query

- updating lines [32, 14](#)
- updating phones [30](#)

R

- removing user device profiles [15](#)
- repository manager [7](#)
- reset devices after update [32](#)
- restart devices after update [32](#)

S

- secure TAPS [7](#)
- securing directory numbers from TAPS [7](#)
- services, adding or updating [5](#)
- specifications [2](#)
- speed dial settings, adding or updating [6](#)
- starting
 - BAT [3](#)
 - TAPS [6](#)
- stopping
 - BAT [5](#)
 - TAPS [7](#)
- sub-unit [4](#)

T**T1-CAS**

- adding VG200 gateways to Cisco CallManager **15**
- creating the CSV file for VG200 gateways **9**
- field descriptions for VG200 **39**

T1-PRI

- adding VG200 gateways to Cisco CallManager **15**
- creating the CSV file for VG200 gateways **9**
- field descriptions for VG200 **44**

TAPS

- auto-registration must be enabled **1**
- Cisco CRA required **2**
- Cisco IP IVR required **2**
- completing installation **7**
- completing uninstallation **9**
- configuring **3**
- halting **7**
- installing **3, 5**
- installing once BAT is already installed **5**
- instructions for end-users **11**
- overview **1, 2**
- securing directory numbers **7**
- starting **6**
- stopping **7**
- taps.aef **7**
- troubleshooting **1, 6**
- troubleshooting on the Cisco CRA server **6**

uninstalling **8**

uploading to Cisco CRA Administration server **7**

version **5**

taps.aef **7**

template

- adding or updating IP services **5**
- adding or updating lines **4**
- adding or updating speed dial settings **6**
- BAT.xlt file location **3**
- copying Catalyst 6000 FXS ports **28**
- copying gateway directory number **33**
- copying phone **28**
- copying VG200 **16**
- creating Catalyst 6000 FXS ports **20**
- creating VG200 **3**
- deleting Catalyst 6000 FXS ports **34**
- deleting gateway directory number **34**
- deleting phone **38**
- deleting VG200 **34**
- field descriptions for adding or updating lines **48**
- field descriptions for adding or updating lines to UDP template **16**
- field descriptions for Catalyst 6000 ports **57**
- field descriptions for gateway directory number **59**
- field descriptions for phone **39, 54**
- field descriptions for VG200 - E1-PRI or T1-PRI **44**
- field descriptions for VG200 - FXO **37**

field descriptions for VG200 - FXS [35](#)
 field descriptions for VG200 - T1-CAS [39](#)
 gateway directory number [32](#)
 gateway directory number is required if you
 specified directory numbers [32](#)
 migration during upgrade [2](#)
 no backward migration [2](#)
 overview of gateway directory number [31](#)
 phone [3](#)
 user device profiles [2](#)

troubleshooting

BAT [2](#)
 BAT and TAPS [1](#)
 couldn't create user object. Check if DC
 Directory is running [6](#)
 data files (CSV) format do not match phone
 template/sample file [3](#)
 errors occur when using the dummy MAC
 address option [4](#)
 Export to BAT Format button does not work
 in BAT.xlt file [3](#)
 MAC address values are not allowed in the
 file if dummy MAC address values are
 desired [5](#)
 port data in record number n does not match
 the corresponding sample file/number
 of lines and speed dials in phone
 template chosen [5](#)
 port identifier contains invalid endpoint
 prefix [4](#)
 port identifier contains invalid port number [4](#)
 port number not configured in the template [5](#)

same directory number cannot be assigned
 twice to a device in the same
 partition [6](#)
 selected template does not contain DN details
 for directory number [4](#)
 TAPS [6](#)
 TAPS on the Cisco CRA server [6](#)
 the page cannot be displayed [3](#)
 when the Cisco CRA server starts, the JTAPI
 subsystem shows partial service or out
 of service [6](#)

U

uninstalling
 BAT/TAPS [8](#)
 removing TAPS from Cisco CRA
 Administration server [9](#)
 update users
 creating CSV file [12](#)
 creating text-based CSV file [15](#)
 updating
 Catalyst 6000 FXS ports [19, 29](#)
 endpoint identifiers [7](#)
 lines [32, 14](#)
 lines for phone template [4](#)
 manager assistant [12](#)
 phone configuration using TAPS [11](#)
 phones [30](#)
 services to phone template [5](#)
 speed dial settings to phone template [6](#)

- users **12**
- VGC phones **30**
- upgrading BAT **2**
- uploading TAPS to the Cisco CRA Administration server **7**
- user
 - exporting records **8**
 - using BAT.xlt for phone-user combination **9**
- user device profiles
 - adding **1, 12**
 - configuring **1**
 - creating a template **2**
 - creating text-based CSV file **7**
 - CSV file **4**
 - deleting **15**
 - exporting records **11**
 - inserting **12**
 - removing **15**
- users
 - adding **1**
 - adding to Cisco CallManager **8**
 - BAT.xlt **3, 13**
 - creating CSV file **2**
 - creating text-based CSV file **5**
 - deleting **20**
 - updating **12**
 - using BAT.xlt for phone-user combination **8**

V

- version **4, 5**
- VIC-2FXO **4**
- VIC-2FXS **4**
- Viewing log files **2**
- VWIC-1MFT-E1 **5**
- VWIC-1MFT-T1 **4**
- VWIC-2MFT-E1 **5**
- VWIC-2MFT-T1 **4**