



---

## A

### adding

- Catalyst 6000 FXS ports [20](#)
  - Catalyst 6000 FXS ports to Cisco CallManager [27](#)
  - CTI ports [2](#)
  - lines to phone template [4](#)
  - phones [2](#)
  - phone template [3](#)
  - services to phone template [5](#)
  - speed dial settings to phone template [6](#)
  - users [1](#)
  - users to Cisco CallManager [8](#)
  - VG200 FXS or FXO gateways to Cisco CallManager [16](#)
  - VG200 gateways and ports [2](#)
  - VG200 T1-CAS, T1-PRI, or E1-PRI gateways to Cisco CallManager [16](#)
- auto-registration [1](#)

---

## B

### BAT

- browser requirements [3](#)
- default location of log files [1](#)

- error messages [2](#)
- installation overview [1](#)
- installing [2](#)
- log files [1](#)
- logging on [4](#)
- online help [4](#)
- overview [1](#)
- specifications [2](#)
- starting [4](#)
- stopping [5](#)
- troubleshooting [1,2](#)
- uninstalling [7](#)
- upgrading [2](#)
- using [3](#)
- version [5](#)
- viewing log files [2](#)

### BAT.xlt

- create CSV for CTI ports [8](#)
- create CSV for CTI ports-users [8](#)
- create CSV for phones [8](#)
- create CSV for phones-users [8](#)
- create CSV for users [2](#)
- creating Catalyst 6000 FXS ports [24](#)
- file location [2](#)
- browser requirements [3](#)

**C**

## Cisco CallManager

- adding Catalyst 6000 FXS ports [27](#)
- adding CTI ports [18](#)
- adding phones [18, 20](#)
- adding phones and users [20](#)
- adding users [8](#)
- adding VG200 FXS or FXO gateways [16](#)
- adding VG200 T1-CAS, T1-PRI, or E1-PRI gateways [16](#)
- auto-registration must be enabled for TAPS [1](#)

## Cisco Catalyst 6000 FXS ports

- adding or updating ports [20](#)
- adding ports [20](#)
- adding to Cisco CallManager [27](#)
- creating BAT template [21](#)
- creating CSV file [22](#)
- deleting ports [31](#)
- deleting template [35](#)
- field descriptions [56](#)
- limit of 500 [24](#)
- overview [20](#)
- updating [30](#)

## Cisco CRA

- required for TAPS [2](#)
- troubleshooting TAPS [6](#)
- uninstalling TAPS [8](#)
- uploading TAPS [6](#)

## Cisco IP IVR

- required for TAPS [2](#)

## Cisco VG200

- adding gateways and ports [2](#)
- adding to Cisco CallManager (FXS or FXO) [16](#)
- adding to Cisco CallManager (T1-CAS, T1-PRI, or E1-PRI) [16](#)
- configure using CLI prior to adding gateways in BAT [1](#)
- copying a template [17](#)
- creating a template [3](#)
- creating CSV file for FXS or FXO [7](#)
- creating CSV file for T1-CAS, T1-PRI, or E-1PRI [11](#)
- delete only selected gateways [18](#)
- deleting BAT template [35](#)
- deleting gateways [18](#)
- field descriptions for E1-PRI [45](#)
- field descriptions for FXO [38](#)
- field descriptions for FXS [36](#)
- field descriptions for T1-CAS [40](#)
- field descriptions for T1-PRI [45](#)
- overview
- updating endpoint identifiers [7](#)

CLI [1](#)

- command line interface [1](#)
- configure TAPS [3](#)
- configuring TAPS [3](#)
- copying
  - Catalyst 6000 FXS ports template [29](#)

- gateway directory number template [34](#)
  - phone template [23](#)
  - VG200 template [17](#)
  - create dummy MAC address [12, 19, 21](#)
  - creating
    - Catalyst 6000 FXS ports template [21](#)
    - CSV file for Catalyst 6000 FXS ports [22](#)
    - CSV file for phones [7](#)
    - CSV file for VG200 FXS or FXO [7](#)
    - CSV file for VG200 T1-CAS, T1-PRI, or E-1PRI [11](#)
    - phone template [3](#)
    - template for gateway directory number [33](#)
    - VG200 template [3](#)
  - CSV
    - Catalyst 6000 FXS ports [22](#)
    - creating a BAT.xlt for users [2](#)
    - creating a text-based file for Catalyst 6000 FXS ports [26](#)
    - creating a text-based file for phones, phones-users combination, CTI ports, or CTI ports-users combination [13](#)
    - creating a text-based file for users [5](#)
    - creating a text-based file for VG200 gateways and ports [13](#)
    - CTI ports [7](#)
    - no blank lines [10](#)
    - phone [7](#)
    - required location for saving files [6](#)
    - text file for phones [13, 26](#)
    - tips for creating text-based CSV for users [6](#)
    - tips for creating text-based file for phones, phones-users, CTI ports, or CTI ports-users [14](#)
    - using BAT.xlt for Catalyst 6000 FXS ports [24](#)
    - using BAT.xlt for phones [8, 9](#)
    - using BAT.xlt for phone-user combination [8, 9](#)
    - using BAT.xlt for users [2](#)
    - VG200 for FXS or FXO [7](#)
    - VG200 for T1-CAS, T1-PRI, or E-1PRI [11](#)
  - CTI ports
    - adding [2](#)
    - adding CTI ports-users combination to Cisco CallManager [20](#)
    - adding to Cisco CallManager [18](#)
    - associating new port to existing user [7](#)
    - creating CSV file [7](#)
    - directory number must match number of lines in template [8](#)
    - enable authentication proxy rights [21](#)
    - enable CTI application use [19, 21](#)
    - using BAT.xlt to create CSV [8, 9](#)
    - using BAT.xlt to create CSV for CTI ports-users combination [8, 9](#)
    - using dummy MAC address option [19, 21](#)
- 
- ## D
- deleting
    - Catalyst 6000 FXS ports [31](#)

Catalyst 6000 FXS ports template [35](#)  
 gateway directory number template [35](#)  
 phones [28](#)  
 selected VG200 gateways [18](#)  
 VG200 gateways [18](#)  
 VG200 template [35](#)  
 directory number  
   creating gateway template [33](#)  
   securing from TAPS [7](#)  
 downloading  
   phone configuration using TAPS [12](#)  
 dummy MAC address [12](#), [19](#), [21](#)  
   generate a list of phones with [27](#)  
   See also MAC address

---

## E

E-1PRI  
   creating the CSV file for VG200 gateways [11](#)  
 E1-PRI  
   adding VG200 gateways to Cisco  
     CallManager [16](#)  
   field descriptions for VG200 [45](#)  
 enable authentication proxy rights  
   adding users [8](#)  
   for CTI ports and users [21](#)  
   for phones and users [21](#)  
 enable CTI application use  
   adding users [8](#)  
   CTI ports [19](#)

CTI ports and users [21](#)  
 phones [19](#)  
 phones and users [21](#)  
 endpoint identifiers  
   updating [7](#)  
 error messages  
   BAT [2](#)  
 Export to BAT Format button does not work in  
   BAT.xlt file [2](#)

---

## F

field descriptions  
   adding or updating lines [37](#)  
   Catalyst 6000 FXS ports [56](#)  
   gateway directory number template [58](#)  
   ground start [38](#)  
   loop start [38](#)  
   phone template [30](#)  
   VG200 - E1-PRI [45](#)  
   VG200 - FXO [38](#)  
   VG200 - FXS [36](#)  
   VG200 - T1-CAS [40](#)  
   VG200 - T1-PRI [45](#)  
 FXO  
   adding VG200 gateways to Cisco  
     CallManager [16](#)  
   field descriptions [38](#)  
 FXS

adding Catalyst 6000 ports to Cisco CallManager [27](#)

adding or updating ports for Catalyst 6000 ports [20](#)

adding VG200 gateways to Cisco CallManager [16](#)

creating BAT template for Catalyst 6000 ports [21](#)

creating CSV file for Catalyst 6000 ports [22](#), [24](#)

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

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

deleting Catalyst 6000 ports [31](#)

field descriptions for Catalyst 6000 ports [56](#)

field descriptions for VG200 [36](#)

updating Catalyst 6000 ports [30](#)

---

## G

### gateway

See Cisco Catalyst 6000 FXS ports

See Cisco VG200

overview

### gateway directory number

copying template [34](#)

deleting template [35](#)

field descriptions for template [58](#)

template [33](#)

### gateway directory number template

required if you specified directory numbers [33](#)

### ground start

field descriptions [38](#)

---

## H

### halting

TAPS [7](#)

### help

[4](#)

---

## I

### installing

BAT/TAPS [2](#)

BAT/TAPS prerequisites [2](#)

completing TAPS installation [6](#)

no backward template migration [1](#)

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

overview [1](#)

TAPS [4](#)

TAPS after BAT has already been installed [4](#)

TAPS prerequisites [5](#)

template migration during upgrade [2](#)

### instructions

TAPS for end-users [12](#)

---

## L

### lines

- adding or updating [4](#)
- field descriptions for adding or updating [37](#)
- maximum number [5](#)
- updating [26](#)
- log files [1](#)
  - BAT [1](#)
    - explanation of file naming convention [2](#)
    - viewing [2](#)
  - logging on to BAT [4](#)
  - loop start
    - field descriptions [38](#)

---

## M

- MAC address
  - generate a list of phones with dummy [27](#)
  - See also dummy MAC address
- 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 [20](#)
- adding VG200 gateways and ports [2](#)
- BAT [1](#)
- Catalyst 6000 FXS ports [20](#)
- creating CSV files for FXS ports on Catalyst 6000 modules [22](#)
- gateway directory number [32](#)
- TAPS [1,2](#)
- working with gateways and ports

---

## P

- password
  - value is mandatory [17](#)
- phone
  - adding [2](#)
  - adding a template [3](#)
  - adding or updating lines [4](#)
  - adding or updating services [5](#)
  - adding or updating speed dial settings [6](#)
  - adding phones-users combination to Cisco CallManager [20](#)
  - adding to Cisco CallManager [18,20](#)
  - BAT reaction if line information fails during insert [22](#)
  - copying a template [23](#)
  - creating CSV file [7](#)
  - CSV text file [13,26](#)
  - deleting [28](#)

- deleting templates [29](#)
- enable authentication proxy rights [21](#)
- enable CTI application use [19, 21](#)
- field descriptions for phone template [30](#)
- generate a list of phones with dummy MAC addresses [27](#)
- updating [24](#)
- updating lines [26](#)
- using BAT.xlt to create CSV for phone [8, 9](#)
- using dummy MAC address option [12, 19, 21](#)

## PIN

- value is mandatory [17](#)

## ports

- adding CTI [2](#)
- adding VG200 [2](#)

## prerequisites

- BAT/TAPS [2](#)
- TAPS [5](#)

---

## Q

### query

- updating lines [26](#)
- updating phones [24](#)

---

## R

- repository manager [6](#)
- reset devices after update [25](#)

- restart devices after update [25](#)

---

## 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 [4](#)
  - TAPS [6](#)
- stopping
  - BAT [5](#)
  - TAPS [7](#)
- sub-unit [4](#)

---

## T

### T1-CAS

- adding VG200 gateways to Cisco CallManager [16](#)
- creating the CSV file for VG200 gateways [11](#)
- field descriptions for VG200 [40](#)

### T1-PRI

- adding VG200 gateways to Cisco CallManager [16](#)
- creating the CSV file for VG200 gateways [11](#)

- field descriptions for VG200 [45](#)
- TAPS
  - auto-registration must be enabled [1](#)
  - Cisco CRA required [2](#)
  - Cisco IP IVR required [2](#)
  - completing installation [6](#)
  - completing uninstallation [8](#)
  - configuring [3](#)
  - halting [7](#)
  - installing [2,4](#)
  - installing once BAT is already installed [4](#)
  - instructions for end-users [12](#)
  - overview [1,2](#)
  - securing directory numbers [7](#)
  - starting [6](#)
  - stopping [7](#)
  - taps.aef [6](#)
  - troubleshooting [1,6](#)
  - troubleshooting on the Cisco CRA server [6](#)
  - uninstalling [7](#)
  - uploading to Cisco CRA Administration server [6](#)
  - version [5](#)
- taps.aef [6](#)
- template
  - adding or updating lines [4](#)
  - adding or updating services [5](#)
  - adding or updating speed dial settings [6](#)
  - BAT.xlt file location [2](#)
  - copying Catalyst 6000 FXS ports [29](#)
  - copying gateway directory number [34](#)
  - copying phone [23](#)
  - copying VG200 [17](#)
  - creating Catalyst 6000 FXS ports [21](#)
  - creating VG200 [3](#)
  - deleting Catalyst 6000 FXS ports [35](#)
  - deleting gateway directory number [35](#)
  - deleting phone [29](#)
  - deleting VG200 [35](#)
  - field descriptions for adding or updating lines [37](#)
  - field descriptions for Catalyst 6000 ports [56](#)
  - field descriptions for gateway directory number [58](#)
  - field descriptions for phone [30](#)
  - field descriptions for VG200 - E1-PRI or T1-PRI [45](#)
  - field descriptions for VG200 - FXO [38](#)
  - field descriptions for VG200 - FXS [36](#)
  - field descriptions for VG200 - T1-CAS [40](#)
  - gateway directory number [33](#)
  - gateway directory number is required if you specified directory numbers [33](#)
  - migration during upgrade [2](#)
  - no backward migration [1](#)
  - overview of gateway directory number [32](#)
  - phone [3](#)
- 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](#)
  - directory number cannot be added without at least one MAC address [5](#)
  - errors occur when using the dummy MAC address option [3](#)
  - Export to BAT Format button does not work in BAT.xlt file [2](#)
  - MAC address values are not allowed in the file if dummy MAC address values are desired [5](#)
  - null value for mandatory field is not allowed [3](#)
  - partition details can be added only with corresponding directory number [4](#)
  - 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](#)
  - preprocess exception [7](#)
  - provider exception [8](#)
  - 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](#)
  - the workflow does not start properly [7](#)
  - when the Cisco CRA server starts, the JTAPI subsystem shows partial service or out of service [6](#)
- 
- ## U
- uninstalling
    - BAT/TAPS [7](#)
    - removing TAPS from Cisco CRA Administration server [8](#)
  - updating
    - Catalyst 6000 FXS ports [20,30](#)
    - endpoint identifiers [7](#)
    - lines [26](#)
    - lines for phone template [4](#)
    - phone configuration using TAPS [12](#)
    - phones [24](#)
    - services to phone template [5](#)
    - speed dial settings to phone template [6](#)
  - upgrading BAT [2](#)
  - uploading TAPS to the Cisco CRA Administration server [6](#)
  - user
    - using BAT.xlt for phone-user combination [9](#)
  - users
    - adding [1](#)
    - adding to Cisco CallManager [8](#)
    - BAT.xlt [2](#)

creating CSV file [2](#)

creating text-based CSV file [5](#)

using BAT.xlt for phone-user combination [8](#)

using

BAT [3](#)

---

## V

version [5](#)

VIC-2FXO [4](#)

VIC-2FXS [4](#)

Viewing log files [2](#)

VWIC-1MFT-E1 [4](#)

VWIC-1MFT-T1 [4](#)

VWIC-2MFT-E1 [4](#)

VWIC-2MFT-T1 [4](#)