Index

A
adopting new technologies, 55–56
advanced site architecture implementations, 53
advertising e-support, 20
alerting customers to reorganized content, 60
analyzing cases, 115
configuration-based, 116
method for predicting future trends, 120
resolution methods, 170–171
competitor sites, benefits of, 108
applications, in-house development versus purchasing, 56
applying metrics to tools, 171
architecture, 51–52
advanced site architecture, 53
organization, importance of, 59
assessing customer competence, 71
customer needs, 20
performance of CSEs, 77
site architecture, 52–53
audience communicating with, GEM cycle, 72–73
demographics, intelligence gathering, 82–83
targeting for online documentation, 186–187
autonomy of TAC Web site marketing, 68

B
bandwidth, monitoring customer traffic, 61
benefits of competitive analysis, 108
beta testing tools, 163–164
break-fix troubleshooting methodology versus misconfiguration-based, 63–64
browser-based support versus Internet-based, 54
budgeting, 23
Bug Toolkit, 48
bugs, publishing, 48

call center
GCC, 163
identifying Web site resolvable cases, 96
call-based case resolution, 117
versus Web-based, 119
case analysis
predicting future trends, 120
ranking cases, 115
Case Open Tool (TAC Web site), 14
cases
categories of, 34
configuration-based, 116
documentation involved, 148–149
opening, 36
resolving
call-based versus Web-based, 117
role of CSEs, 117
streamlining process, 164
TAC versus TAC Web, 41
tools versus documents, 164
Web-based resolution, encouraging, 117
categorizing cases notes, 114
documentation, 187
challenges of marketing support, 81
of TAC Web teams, 45
classifications of tools, 160
communication measuring efficacy, 73
inter-departmental, 79
communities, 139
content mining, 150
information gathering, 140
metrics, 141
starting, 145
comparing tools and search, 157
competency of audience, 70-71, 119
competitor sites, 26
  - analysis, benefits of, 108
  - content, evaluating, 104
  - documentation, evaluating, 106
  - evaluating, 86, 103–105
  - non-English, evaluating, 107
  - searchable knowledge base, evaluating, 107
  - usability studies, 109
  - using metrics to gain advantage, 27
complexity of cases as criteria for human intervention, 165–166
conducting surveys
  - as metric, 19
  - TAC Web user surveys, 92–96
cross functionality of TAC support teams, 46
  - CSEs, 147–148
  - case resolution
    - methodologies, 35–36
    - role in, 117
  - product development, 46
customers
  - educating, 21
feedback
  - incorporating in tool development process, 163
  - intelligence gathering, 73–74, 82–83
  - processing, 150
  - regarding incorrect information, 183
  - responding to, 162
  - internal users, 174
  - needs of, assessing, 20
  - site architecture, 52–53
  - via marketing department, 69
profiling project, 133
traffic
  - bandwidth, monitoring, 61
  - demographic analysis, 62
  - monitoring, 58
  - navigating through reorganized content, 60
  - search-based versus navigation-based, 59
cutting-edge technologies, researching, 54–55
CVT (config-verify-troubleshoot) strategy, 21
databases, retrieving case information, 114
demand for support
  - assessing customer needs, 20
  - hardware/software support, 18
demographics
  - analysis, 62
  - intelligence gathering, 82–83
  - profile data
    - benefits of, 134
    - gathering, 133
departments
  - communication between, 79
  - within marketing, 74–76
designing
  - intuitive tools, 173
  - user interfaces, 124–125
developing
  - products, 29
  - tools, 158–159
classifications, 160
feedback, 161
implementing customer feedback, 162–163
in-house, 169
intuitive design, 173
intuitive names, importance of, 160
security, 21
usability testing, 163–164
verifying need for, 170
devices, providing support for misconfiguration, 63–64
documentation
  - case requirements, 148–149
  - categorizing, 187
creating, 184–185
developing, 29
measuring success of, 192
of competitor sites, evaluating, 106
maintenance, 183
resolving highly technical cases, 185
review process, 182
role of tech writers, 180
search tools, 188–190
tagging, 150–151
target audience, 186–187
Top Issues, 189
updating with customer feedback, 150

E

economic recession, effect on TAC, 24
educating customers, CVT (config-verify-troubleshoot) strategy, 21
couraging Web-based case resolution, 117
engineers
CSEs, role in case resolution, 117
SMEs, role in case resolution, 22–23
evaluating
audience competency, customized segmentation, 84
competitor sites, 86, 103–105
documentation, 106
non-English, 107
searchable knowledge base, 107
non-competitor sites, 108–109
success of Marketing Team, 87
Evans, Julie, 33

G

gathering
customer data, 82–83
feedback, 73–74
profile data, 133
GCC (global call center), 22
GEM (Greater Engineering Methodology) Cycle, 72
Glanville, Erin Braddock, 147
goals
of TAC Web, 92
metrics, 89
Gordon, Steve, 17

H

highly technical cases, resolving with documentation, 185
hiring practices
for project managers, 175
for technical writers, 190
within marketing department, 82
human intervention
in complex cases, 165–166
reducing role in troubleshooting process, 58
IBSG (Internet Business Solutions Group), customer education, 21
identifying
  call center cases resolvable by Web site, 96
  motivating factors for customer TAC Web sessions, 94
target audience for documentation, 184
impersonal nature of Web-based solutions, 181
implementing metrics systems, 100
importance
  of customer education, 119
  of site content organization, 57
  of site organization, 59
in-house tool development, 56
  versus vendor development, 169, 172
installation cases, 34
inter-departmental communication, 79
internal marketing, 77
internal users, 174
international customers, marketing strategies, 80
intuitive tool design, 173
IP Subnet Calculator, 159
Iverson, Sean, 20, 67

J-L
Jewell, Randy, 51
Kera, Sameer, 43
launching TAC Web, 20
leadership of marketing departments, 81
Lechner, Helen, 137
logic synthesis, 51

M
maintenance
  of online documentation, 182–183
  of online tools, 172–173
malfunctioning tools, responding to, 172
managing
  content, 114
  TAC Web teams, 44
marketing
  audience competency, assessing, 71
  challenges within department, 81
  competitor sites, evaluating, 86, 103–105
  customer needs, assessing, 69
  customized segmentation, 84
  departments within, 74–76
  employing sophisticated methodologies, 83
  feedback-based tools, 73
  GEM cycle, 72
  hiring practices, 82
  internal marketing, 77
  leadership within departments, 81
  reaching core audience, 71–72
  role segmentation, 70
success of, evaluating, 87, 173
TAC Web launch campaign, 20
TAC Web site, autonomy of, 68
target audience, 70–71
targeting tools for specific audiences, 174
to non-English speaking audience, 80
total available market, 70
measuring
  effectiveness of user community, 142
  popularity of online documentation, 188
  successes, 19
    of communication, 73
    of documentation, 192
    of marketing strategies, 80, 87, 173
    of SMEs, 151–152
    of TAC Web, 27, 90–91
  usability, 131
methodologies of user interface design, 125
metrics, 89
  applying to tools, 171
  gaining advantage over competitors, 27
  implementing, 100
  role in site architecture, 61–62
mining robust content, 150
misconfigured devices versus broken, 63–64
monitoring
customer traffic, 58
bandwidth, 61
product support, 98–99
motivating factors of TAC Web sessions, identifying, 94

N

navigation
alerting customers to reorganized content, 60
as metric for success, 118
evaluating competitors’ sites, 104
filter navigation, 127
metadata, 150–151
of competitor sites, usability studies, 109
versus search-based customer traffic, 59
NetPro, 137–141
Networkers conference, 173
Networking Communities site (TAC Web site), 12
non-competitor site analysis, performing, 108–109
non-English speaking audience, marketing strategies, 80
non-registered tool users, 157

O

online documentation
categorizing, 187
maintenance, 183
search tools, 189–190
target audience, 186–187
versus traditional books, 191
online tools
maintenance, 172–173
removing, 174
opening cases, methods of, 36
organization
importance of, 59
of competitor sites, evaluating, 104
tagging documentation, 150–151
Web site content, 57
Output Interpreter, 26
outsourced usability studies, 129

P

page format, usability studies, 131–132
performance of CSEs, evaluating, 77
performing non-competitor site analysis, 108–109
phases of GEM cycle, 72
planning and design cases, 34
Popple, Steve, 103
popularity of online documentation, measuring, 188
predicting future trends through case analysis, 120
presentation of content to customers, 25
prioritizing customer needs, 20
product development, 29
role of CSE, 46
product support, monitoring, 98–99
Product, Technology, and Networking Solutions page (TAC Web site), 7
profile data, benefits of, 134
profiling project, 133
programming languages, adopting new technologies, 55–56
project management, cross-functionality of TAC Web teams, 46
project managers, criteria for, 175
prospective marketing employees, 82
purchasing applications, 56

R

Ramey, Janet, 179
reaching core audience, GEM cycle, 72
recession, effect on TAC, 24
registered tool users, 157
removing broken online tools, 174
reorganized content, alerting customers to changes, 60
researching Web technologies, 54–55
resolving cases
role of CSEs, 117
TAC versus TAC Web, 41
tools versus documents, 164
Web-based resolution, 117
versus call-based, 119
responding
to customer feedback, 162, 183
to malfunctioning tools, 172
responsibilities of SMEs, 148
Retzlaff, Barbara, 155
reviewing online documentation, 182
robust content, mining, 150
role
of SMEs, 22–23
of marketing teams, 75–76
search versus tools, 157
searchability as metric for success, 118
searching versus navigation, 59
second TAC launch, 20
seeking out Web technologies, 54–55
segmentation of marketing roles, 70
segregation of marketing teams, 74–76
site architecture, 51–52
adopting new technologies, 55–56
advanced implementations, 53
customer traffic
monitoring, 58
navigation-based versus search-based, 59
demographic analysis, 62
developing applications, 56
metrics, 61–62
organization, 57–59
alerting changes to users, 60
skill level of customer, assessing, 119
SMEs, 147
background, 148
content, categorizing, 126
document authoring, 185
measuring success of, 151–152
role of, 22–23
in Web group, 152
separating duties with tech writers, 23
site architects, 51–52
advanced site architecture, 53
writing cases, 149
Smith, Mike, 19, 89
software support as impetus for e-support, 18
solutions (Web-based), impersonal nature of, 181
staffing, role of SMEs, 22–23
starting
usability studies, 129–130
user communities, 145
state-of-the-art Web technologies
adopting, 55–56
researching, 54–55
Strachman, Blyth, 123
streamlining case resolution process, 164
successes, measuring, 19
of communication, 73
of documentation, 192
of marketing strategies, 80, 87, 173
of SMEs, 151–152
of TAC, 27
of TAC Web, 90–91
usability, 131
supervising TAC Web Teams, 44
support pages, 125–126
surveys, identifying motivating factors for Web
customer sessions, 94
TAC (Technical Assistance Center). See also TAC
Web site
and Cisco culture, 25
call center, 91
Case Open Tool, 37, 40
challenges of, 45
competitors, 26–27
content presentation, 25
cross-functionality of teams, 46
CSEs, 147–148
failures of, 28
future trends, 30
Output Interpreter, 26
product development, 29
Troubleshooting Assistant, 26
TAC (Technical Assistance Center) Web site
architecture, 51–52
advanced implementations, 53
as research tool, 63
assessing future needs of customers, 48
Case Open Tool, 14
content management, 114
goals, 92
marketing department
  assessing customer needs, 69
  autonomy of, 68
  challenges of, 81
  prospective employees, 82
  segmentation process, 70
  target audience, 70–71
measuring success of, 90–91
Networking Communities site, 12
Product, Technology, and Networking
  Solutions pages, 7
Top Issues documentation, 6
user motivation, identifying, 94
user surveys, conducting, 92–99
Web Technical Tip Documentation Search
  interface, 12
Web Tools Index, 9
tagging documentation, 150–151
target audience
  communicating with, 71–72
  intelligence gathering, 82–83
  of online documentation, 186–187
  of TAC Web site, 70–71
targeting tools for specific audiences, 174
technical writers, 180
  responsibilities, 23
  hiring criteria, 190
technologies
  old versus cutting-edge, 61
  Web-based, future of, 57–58
Tobias, Tom, 113
tools
  classifications, 160
  customer feedback
    implementing, 161
    responding to, 162
developing, 21, 158–159
  in-house versus vendor, 169, 172
  usability testing, 163–164
  verifying need for, 170
feedback-based, 73
internal users, 174
intuitive descriptors, 160
intuitive design, 173
IP Subnet Calculator, 159
maintenance, 171–173
malfunctioning, responding to, 172
non-registered users, 157
removing from Web site, 174
resolving complex cases, 165–166
targeting for specific audiences, 174
Troubleshooting Assistant, 166–168
  versus search, 157
Top Issues documentation, 189
total available market, 70
troubleshooting
  applications, future of, 100
  case notes, ranking, 115
  configuration-based cases, 116
  malfunctioning tools, 172
  misconfigured devices, 63–64
  reducing need for human intervention, 58
Troubleshooting Assistant, 26, 166–168

U

usability studies, 109
  customer profiling project, 133
  “feature-creep”, 132
  measuring success of, 131
  need for, 127
  on user interfaces, 128–129
    starting, 129–130
    user compensation, 130
user communities, 137–139
  content mining, 150
  effectiveness of, measuring, 142
  information gathering, 140
  posting, 141
  starting, 145
user interfaces
  designing, 124–125
usability studies, 128
  measuring success, 131
  of page formatting, 131–132
  outsourcing, 129
  starting, 129–130
  user compensation, 130
utilities
developing, 21, 158–159
feedback-based, 73
non-registered users, 157
purchasing versus in-house development, 56
TAC Case Open Tool, 37, 40

V

vendor tool development versus in-house tool development, 172
verifying need for tools, 170

W

Walker Survey, 92–93
Web sites, TAC
architecture, 51–52
advanced implementations, 53
as research tool, 63
assessing future needs of customers, 48
Case Open Tool, 14
content management, 114
goals, 92
marketing department
assessing customer needs, 69
autonomy of, 68
challenges of, 81
prospective employees, 82
segmentation process, 70
target audience, 70–71
measuring success of, 90–91
Networking Communities site, 12
Product, Technology, and Networking Solutions pages, 7
Top Issues documentation, 6
user motivation, identifying, 94
user surveys, conducting, 92–99
Web Technical Tip Documentation Search interface, 12
Web Tools Index, 9
Web Technical Tip Documentation Search interface (TAC Web site), 12

Web technologies
future of, 57–58
seeking out, 54–55
Web Tools Index (TAC Web site), 9
Web-based case resolution, 117
encouraging, 117
impersonal nature of, 181
versus call-based, 119
writing cases, 148–149