

Network Architecture

Application Project: WSS 3.0 at Fort Collins for Development

File Name: WSS 3.3.0 NITC-HA-DEV Network Diagram_20180427.vsd

Agency: NRCS

Web Farm Environment: FTCDEV

Request for Change

RFC #(n/a)

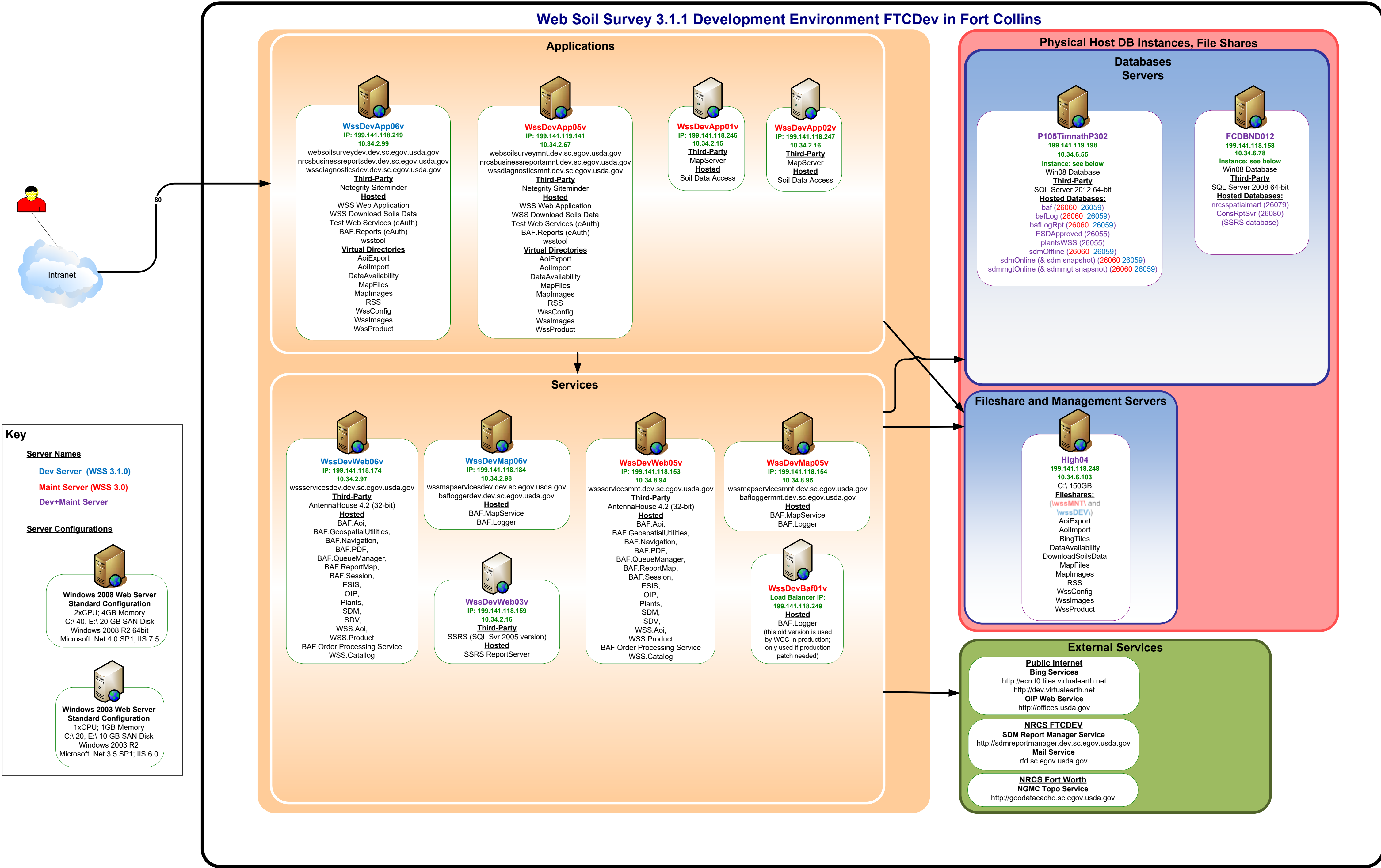
eAuthentication: Level 2

RFC Approval: xx/xx/xx

Page 1 of 1

CCB Approval: xx/xx/xx

REV.	DESCRIPTION	DATE	BY
1.0	Created initial diagram	02/21/2013	MS
1.1	As-built for WSS 3.1 (DEV) / 3.0 (Maint)	03/27/2014	PA
1.2	As-built for WSS 3.1.Dev/WSS 3.1.1 (Maint)	7/23/2014	PA



Network Architecture

Application Project: WSS 3.1.1 at NITC-HA-Development

File Name: WSS 3.1 NITC-HA-DEV Network Diagram_20151102.vsd

Agency: NRCS

Web Farm Environment: FTCDEV

Request for Change

RFC # (n/a)

RFC Approval: xx/xx/xx

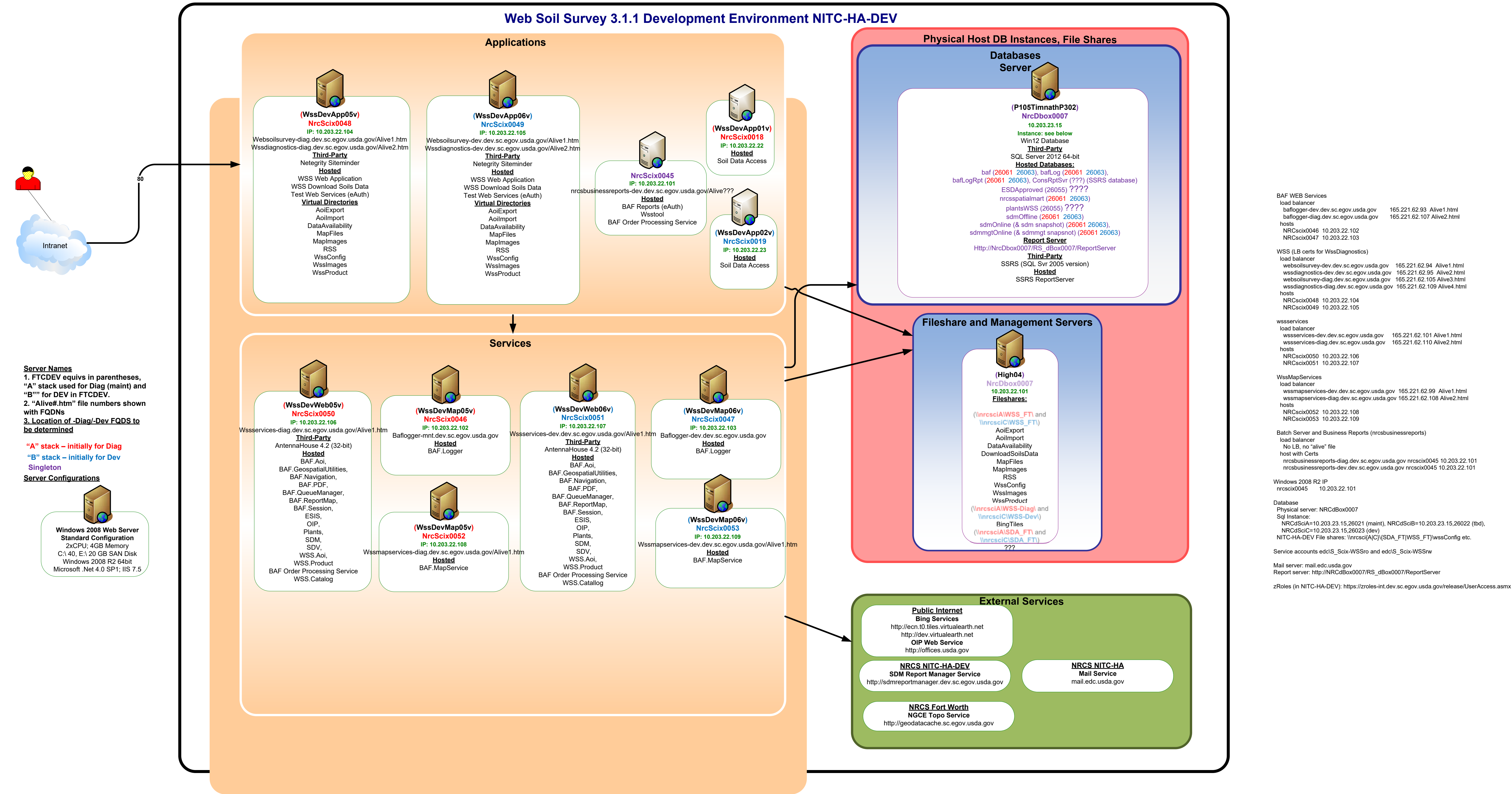
CCB Approval: xx/xx/xx

Creation Date: 02/21/2013

eAuthentication: Level 2

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REV.	DESCRIPTION	DATE	BY
1.0	Created initial diagram	02/21/2013	MS
1.1	As-built for WSS 3.1 (DEV) / 3.0 (Maint)	03/27/2014	PA
1.2	As-built for WSS 3.1.Dev/WSS 3.1.1 (Maint)	7/23/2014	PA
2.0	Initial migration to NITC-HA-DEV	10/28/2015	PA



rs:Command=ListChildren

&rs:Command=ListChildren

nrcs
NRCscix0098 10.203.22.192
NRCscix0097 10.203.22.191

WSS (LB certs for WssDiagnostics)
load balancer
websoilsurvey-dev.dev.sc.egov.usda.gov 165.221.62.94 Alive1.html
wssdiagnostics-dev.dev.sc.egov.usda.gov 165.221.62.95 Alive2.html
websoilsurvey-diag.dev.sc.egov.usda.gov 165.221.62.105 Alive3.html
wssdiagnostics-diag.dev.sc.egov.usda.gov 165.221.62.109 Alive4.html
hosts
NRCscix0096 10.203.22.190
NRCscix0095 10.203.22.189

wssservices
load balancer
wssservices-dev.dev.sc.egov.usda.gov 165.221.62.101 Alive1.html
wssservices-diag.dev.sc.egov.usda.gov 165.221.62.110 Alive2.html
hosts
NRCscix0100 10.203.22.196
NRCscix0099 10.203.22.193

WssMapServices
load balancer
wssmapservices-dev.dev.sc.egov.usda.gov 165.221.62.99 Alive1.html
wssmapservices-diag.dev.sc.egov.usda.gov 165.221.62.108 Alive2.html
hosts
NRCscix0102 10.203.22.200
NRCscix0101 10.203.22.199

Batch Server and Business Reports (nrcsbusinessreports)
load balancer
No LB, no "alive" file
host with Certs
nrcsbusinessreports-diag.dev.sc.egov.usda.gov nrcscix0103 10.203.22.201
nrcsbusinessreports-dev.dev.sc.egov.usda.gov nrcscix0103 10.203.22.201

Windows 2016 IP
nrcscix0103 10.203.22.201

Database
Physical server: NRCdBox0007
Sql Instance:
NRCdSciDiag=10.203.23.15,26021 (diag), NRCdSciDev=10.203.23.15,26022 (int) – not used
NRCdSciTest=10.203.23.15,26023 (dev)
NITC-HA-DEV File shares: \\NRCdBox0007\NRCDSCL\Diag\Test\}\(SDA_FT|WSS_FT)\WssConfig etc.

Service accounts: edc\S_Scix-WSSro and edc\S_Scix-WSSnw

Mail server: mail.edc.usda.gov
Report server: http://10.203.23.15:80/RS_dBox0007 and
http://10.203.23.15/
RS_dBox0007?%2fNRCs+Business+Reports%2fSoils%2fWeb+Soil+Survey&rs:Command=ListChildren

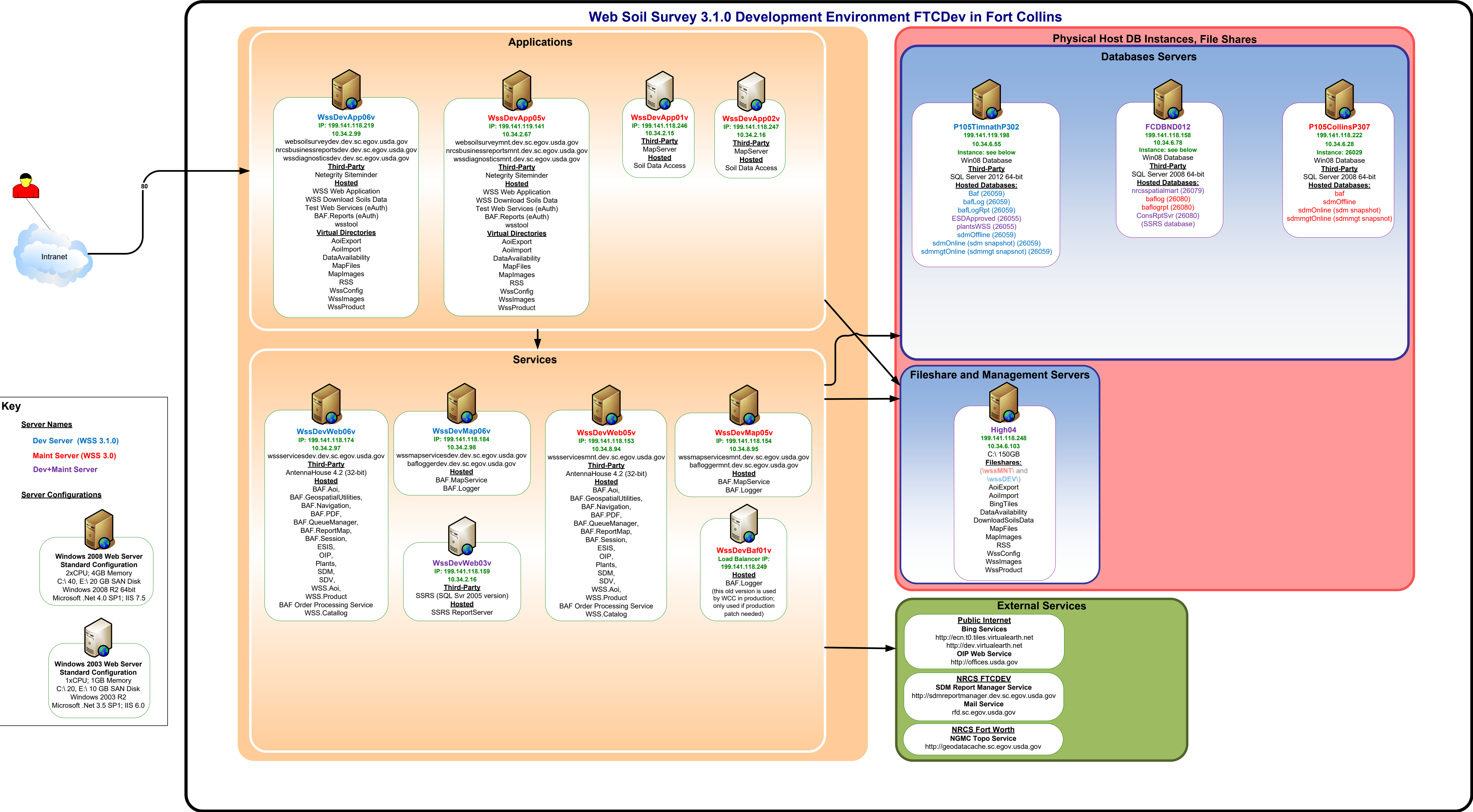
zRoles (in NITC-HA-DEV): https://zroles-int.dev.sc.egov.usda.gov/release/UserAccess.asmx

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RFC Approval: xx/xx/xx	
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Date and Time of Last Edit	5/1/2018 1:48 PM		
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1.0	Created initial diagram	02/21/2013	MS
1.1	As-built for WSS 3.1 (DEV) / 3.0 (Maint)	03/27/2014	PA



Network Architecture

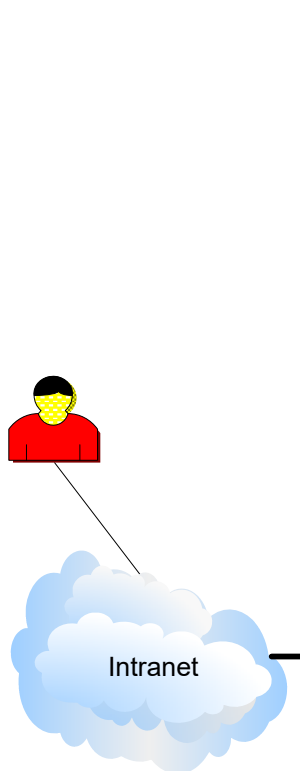
Application Project: WSS 3.0 at Fort Collins for Development

File Name: WSS 3.3.0 NITC-HA-DEV Network Diagram_20180427.vsd	Agency: NRCS
Web Farm Environment: FTCDEV	Request for Change
	RFC #:RFC_WSS_3_0
	Creation Date: 02/21/2013
	eAuthentication: Level 2
	RFC Approval: xx/xx/xx
	Page 5 of 1
	CGB Approval: xx/xx/xx

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1.0	Created initial diagram	02/21/2013	MS

Web Soil Survey 3.0 Development Environment FTCDev in Fort Collins



Applications

WssDevApp06v
IP: 199.141.118.219
10.34.2.99
websoilsurveydev.dev.sc.egov.usda.gov
nrscbusinessreportsdev.dev.sc.egov.usda.gov
wssdiagnosticsdev.dev.sc.egov.usda.gov
Third-Party
Netegrity Siteminder
Hosted
WSS Web Application
WSS Download Soils Data
Test Web Services (eAuth)
BAF.Reports (eAuth)
wsstool
Virtual Directories
AoiExport
AoiImport
DataAvailability
MapFiles
MapImages
RSS
WssConfig
WssImages
WssProduct

WssDevApp05v
IP: 199.141.119.141
10.34.2.67
websoilsurveymnt.dev.sc.egov.usda.gov
nrscbusinessreportsmnt.dev.sc.egov.usda.gov
wssdiagnosticsmnt.dev.sc.egov.usda.gov
Third-Party
Netegrity Siteminder
Hosted
WSS Web Application
WSS Download Soils Data
Test Web Services (eAuth)
BAF.Reports (eAuth)
wsstool
Virtual Directories
AoiExport
AoiImport
DataAvailability
MapFiles
MapImages
RSS
WssConfig
WssImages
WssProduct

WssDevApp01v
IP: 199.141.118.246
10.34.2.15
Third-Party
MapServer
Hosted
Soil Data Access

WssDevApp02v
IP: 199.141.118.247
10.34.2.16
Third-Party
MapServer
Hosted
Soil Data Access

Services

WssDevWeb06v
IP: 199.141.118.174
10.34.2.97
wssservicesdev.dev.sc.egov.usda.gov
Third-Party
AntennaHouse 4.2 (32-bit)
Hosted
BAF.Aoi,
BAF.GeospatialUtilities,
BAF.Navigation,
BAF.PDF,
BAF.QueueManager,
BAF.ReportMap,
BAF.Session,
ESIS,
OIP,
Plants,
SDM,
SDV,
WSS.Aoi,
WSS.Product
BAF Order Processing Service
WSS.Catalog

WssDevMap06v
IP: 199.141.118.184
10.34.2.98
wssmapservicesdev.dev.sc.egov.usda.gov
bafloggerdev.dev.sc.egov.usda.gov
Hosted
BAF.MapService
BAF.Logger

WssDevWeb05v
IP: 199.141.118.153
10.34.8.94
wssservicesmnt.dev.sc.egov.usda.gov
Third-Party
AntennaHouse 4.2 (32-bit)
Hosted
BAF.Aoi,
BAF.GeospatialUtilities,
BAF.Navigation,
BAF.PDF,
BAF.QueueManager,
BAF.ReportMap,
BAF.Session,
ESIS,
OIP,
Plants,
SDM,
SDV,
WSS.Aoi,
WSS.Product
BAF Order Processing Service
WSS.Catalog

WssDevMap05v
IP: 199.141.118.154
10.34.8.95
wssmapservicesmnt.dev.sc.egov.usda.gov
bafloggermnt.dev.sc.egov.usda.gov
Hosted
BAF.MapService
BAF.Logger

WssDevWeb03v
IP: 199.141.118.159
10.34.2.16
Third-Party
SSRS
Hosted
SSRS ReportServer

WssDevBaf01v
Load Balancer IP:
199.141.118.249
Hosted
BAF.Logger
(this old version is used
by WCC in production;
only used if production
patch needed)

Physical Host DB Instances, File Shares

Databases Servers

P105CollinsP307
199.141.118.222
10.34.6.28
Instance: 26030
Win08 Database
Third-Party
SQL Server 2008 64-bit
Hosted Databases:
baf
sdmOffline
sdmOnline (sdm snapshot)
sdmmgtOnline (sdmmgt snapshot)

FCDBND012
199.141.118.158
10.34.6.78
Instance: see below
Win08 Database
Third-Party
SQL Server 2008 64-bit
Hosted Databases:
plantsWSS (26078)
ESDApproved (26078)
nrscspatialmart (26079)
baflog (26080)
baflogrpt (26080)

FCDBND009
199.141.118.175
10.34.6.9
Instance: 260097
Win03 Database
Third-Party
SQL Server 2005
Hosted Databases:
ConsRptSvr
(SSRS database)

Fileshare and Management Servers

High04
199.141.118.248
10.34.6.103
C:\ 150GB
Fileshares:
AoiExport
AoiImport
BingTiles
DataAvailability
DownloadSoilsData
MapFiles
MapImages
RSS
WssConfig
WssImages
WssProduct

External Services

Public Internet
Bing Services
http://ecn.t0.tiles.virtualearth.net
http://dev.virtualearth.net
OIP Web Service
http://offices.usda.gov

NRCS FTCDEV
SDM Report Manager Service
http://sdmreportmanager.dev.sc.egov.usda.gov
Mail Service
rfd.sc.egov.usda.gov

NRCS Fort Worth
NGMC Topo Service
http://gistest1.ftw.nrcs.usda.gov

Key

Server Names

Dev Server

Maint Server

Dev+Maint Server

Server Configurations

Windows 2008 Web Server
Standard Configuration
2xCPU; 4GB Memory
C:\ 40, E:\ 20 GB SAN Disk
Windows 2008 R2 64bit
Microsoft .Net 4.0 SP1; IIS 7.5

Windows 2003 Web Server
Standard Configuration
1xCPU; 1GB Memory
C:\ 20, E:\ 10 GB SAN Disk
Windows 2003 R2
Microsoft .Net 3.5 SP1; IIS 6.0

Web Soil Survey NITC-HA-DEV eAuth-related configuration

