

# **FTE Switch Configuration Files**

## **Update for November 2020**

Experion PKS

### **Software Change Notice**

**Revision Date: February 22, 2021**

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## Symbol Definitions

The following table lists the symbols used in this document to denote certain conditions.

Symbol	Definition
	ATTENTION: Identifies information that requires special consideration.
	TIP: Identifies advice or hints for the user, often in terms of performing a task.
	REFERENCE -EXTERNAL: Identifies an additional source of information outside of the bookset.
	REFERENCE - INTERNAL: Identifies an additional source of information within the bookset.

## Revision history

Revision	Date	Description
1.0	11/6/2020	Generate for November 2020 updates
1.1	2/19/21	Add PAR 1-DJZ3PCL known problems.

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# 1 Introduction

## 1.1 About the document

This Software Change Notice describes the prerequisites, resolved PARs, open issues, features, new switches supported, and steps to install the Update for November 2020 for the FTE Switch Configuration Files. The latest version of this SCN is always available on the Honeywell Process Solutions website.

## 1.2 About the update

The main purpose of this update is the release the Honeywell FTE switch configuration files. This update addresses and includes problems and improvements, since the last independent release of FTE switch configuration files. The update supersedes earlier released versions. It can be installed on systems installed with FTE and is release independent.

### 1.2.1 New Switch Files Added

This update includes new files that support the latest switches supported and the addition of Port 3389 (RDP) to the high priority que for QOS for the Top of Rack (ToR) configurations.

New switches added to the FTE portfolio include the Cisco Catalyst C9200-24T-A (SI-9200R4), C9300-24T-A (SI-9300R4), and C9300-24UX-E (SI-930UN4). The Virtual L2.5 configurations have been updated to support the new routers and a new configuration file has been added to configure the C9300-24UX-E as ToR for the Virtual Premium offering.



Reference the latest [FTE Qualified Switch Firmware Versions](https://www.honeywellprocess.com) at <https://www.honeywellprocess.com> for the qualified Firmware versions that go with these switch configuration files.

### 1.2.2 Changes in Configurations Supported

This update contains the following changes from the August 2020 release:

- New switch configuration file to support the Cisco Catalyst C9300-24UX-E switch ToR.
- Port 3389 (RDP) was added to access-list 103 to add it to the high priority que for QOS for the ToR configurations. This included the ToR configurations for the Cisco Catalyst 3850-24XU and 2960X-24 switches.
- Addition of Specific License Reservation (SLR) commands to the Virtual L2.5 files to support the Cisco Catalyst 9200 and 9300 routers.

## 1.2.3 Problems resolved

This is the list of PARs resolved since the last independent release of the FTE Switch Configuration files. No PARs were fixed for this release.

PAR	Description of problem

## 1.2.4 Open Issues against switch files

The anomalies or open issues on any of the switch configuration files are listed below.

PAR Number	Switch	Description	Workaround
1-DJZ3PCL	Cisco IE3300	The command “no ip classless” in the IE 3300 switch configuration files is causing a CONNECTION TIME OUT, when trying to initiate a remote TELNET/SSH session to the FTE switch from outside its local subnet.	Remove command “no ip classless” before applying configuration to switch. If switch is already configured from configuration terminal type the commands “ip classless”, “end”, “write”.

## 1.2.5 Limitations

### 1.2.5.1 Update removal

<input type="checkbox"/> Automatic	<input checked="" type="checkbox"/> Can be done manually during next upgrade.	<input type="checkbox"/> Must be done manually before next upgrade.
------------------------------------	---	---

### 1.2.5.2 Update distribution

<input checked="" type="checkbox"/> Not Limited	<input type="checkbox"/> Limited for:
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### 1.2.5.3 Localization

<input checked="" type="checkbox"/> Not impacted	<input type="checkbox"/> Patch may contain strings in English. A Localization version to be included in the next release.	<input type="checkbox"/> Needs additional localization support.
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## 1.2.5.4 Cumulative update

<input checked="" type="checkbox"/> Yes. See <a href="#">Prerequisites</a>	<input type="checkbox"/> No
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## 1.3 Before you begin

### 1.3.1 Prerequisites

This update does not have any prerequisites.

### 1.3.2 Update installation or migration checklist

Task order	Task	Reference
1	Prerequisites	See section <a href="#">Prerequisites</a>
2	Applicable nodes	See section <a href="#">Applicable nodes</a>
3	Installing the patch	See section <a href="#">Patch installation</a>

### 1.3.3 Applicable nodes

This update is node independent.

### 1.3.4 Applicable modules

This update includes all files for all currently qualified FTE switches.

### 1.3.5 Supported controller migration paths

N/A

### 1.3.6 Verify the present version on the node

This update is version independent.

### 1.3.7 Copying and extracting the Update

Perform the following steps to copy and extract the update to the FTE Switch Configuration Files.

1. Copy the "FTE\_Switch\_Configuration\_Files\_\_Nov2020\_Download.zip" file to a temporary folder on your hard disk.
2. Extract the Experion"FTE\_Switch\_Configuration\_Files\_Nov2020\_Download.zip" file.

3. Copy the extracted files to a temporary folder on your hard disk.

## 1.4 Change impact

There is no operational impact on the system by applying this update. It only updates the FTE Switch Configuration files.

## 2 Update installation

### 2.1 Installing the update on 32 bit operating Systems

1. Archive all existing switch files into an "old" directory within the Switch Configuration folder (Optional)
  - a. Enter the correct drive where program files directory exists (normally C:)
  - b. Navigate to C:\Program Files\Honeywell\FTEDriver\SwitchConfigurationFiles\
  - c. Right click the white space inside the Switch Configuration folder and select "new" then "folder"
  - d. Name the new folder "old"
  - e. Select all files in the Switch Configuration folder by pressing "ctrl" and 'A' at the same time
  - f. While all files are selected press "ctrl" and left click on the "old" folder that was just created to deselect it
  - g. Drag the highlighted (all) switch files into the old directory
2. Run the " FTE\_Switch\_Configuration\_Files\_Nov2020.exe" (from wherever you downloaded it)
3. Select **"Yes"** to the User Account Control prompt.
4. Select **"Browse"** from the WinZip self extractor window: Browse to the correct drive (normally C:) and path, the default is currently for 64 bit.
  - a. On 32bit systems browse to the path where the files were located this should be "C:\Program Files\Honeywell\FTEDriver\SwitchConfigurationFiles\" select "OK".
5. Select **"Unzip"**
6. Verify "301 file(s) unzipped successfully" to the directory.
7. Select **"OK"**, the files have been updated.
8. Select **"Close"**

### 2.2 Installing the update on 64 bit operating systems

1. Archive all existing switch files into an "old" directory within the Switch Configuration folder (Optional)

- a. Enter the correct drive where program files directory exists (normally C:)
  - b. Navigate to %Program Files%\Honeywell\FTEDriver\SwitchConfigurationFiles\  
  
Note: where "%Program Files%" is "C:\Program Files (x86)" or the Custom Install Path (CIP) for the Honeywell Programs Files
  - c. Right click the white space inside the Switch Configuration folder and select "new" then "folder"
  - d. Name the new folder "old"
  - e. Select all files in the Switch Configuration folder by pressing "ctrl" and 'A' at the same time
  - f. While all files are selected press "ctrl" and left click on the "old" folder that was just created to deselect it
  - g. Drag the highlighted (all) switch files into the old directory
2. Run the " FTE\_Switch\_Configuration\_Nov2020.exe" (from wherever you downloaded it)
  3. Select "**Yes**" to the User Account Control prompt.
  4. Select "**Browse**" from the WinZip self extractor window: Browse to the correct drive (normally C:) and path, the default is currently for 64 bit. "C:\Program Files (x86)\Honeywell\FTEDriver\SwitchConfigurationFiles\" change this path if the system is not running the default path select "Ok".
  5. Select "**Unzip**"
  6. Verify "301 file(s) unzipped successfully" to the directory.
  7. Select "**OK**", the files have been updated.
  8. Select "**Close**"

## **3 Update removal**

### **3.1 Removing the Update**

There is no need to remove the Update since there is no executable files included. Just get the base templates from the old directory if the new templates are not required.

## 4 Additional information

### 4.1 Additional information to validate update installation

There is no validation required of the updated FTE Switch Configurations Files.

### 4.2 One Gbps FTE PC Connection Support

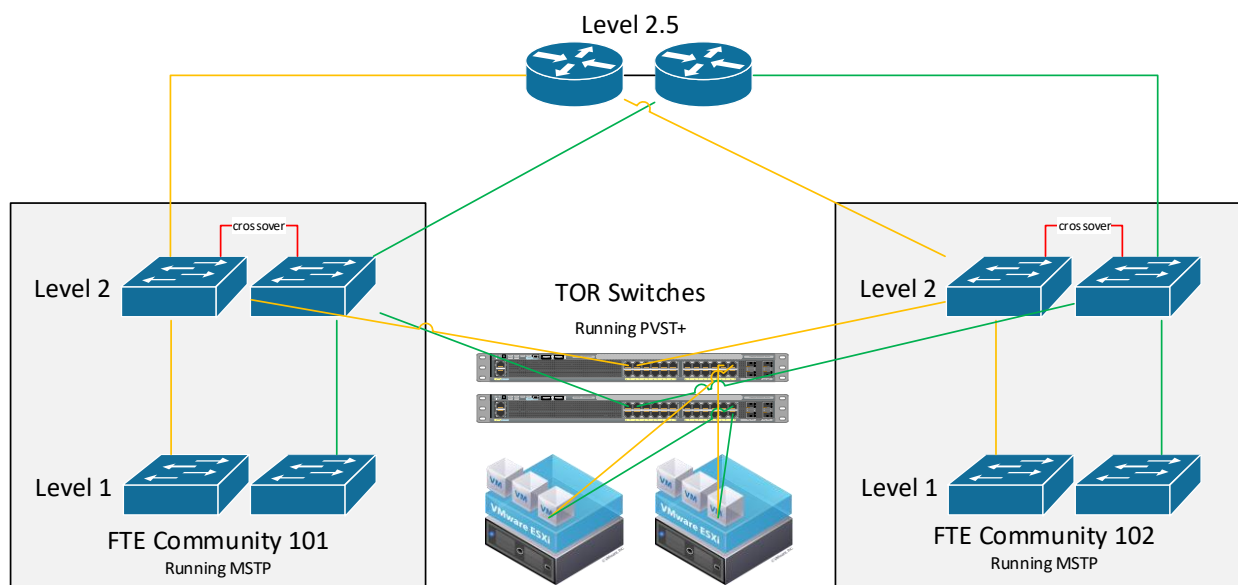
Special instructions and switch configuration files have been added to connect PC node types such as Experion PKS Server, Console Station, ESVT, ACE etc. at One Gbps. This will provide faster file transfer and other network operations. Please reference the FTE Documents for R511.4, which will provide the migration details.

Switch Configuration Files that start with “1g\_” have been added to support 1 Gbps PC connections.



Reference the latest [\*Fault Tolerant Ethernet Overview and Implementation Guide\*](#) for switch configurations and [\*Fault Tolerant Ethernet Installation and Service Guide\*](#) for details to configure the PC adapters for 1 Gbps support.

### 4.3 Top of Rack Switch Support reminder



Before integrating the Top of rack switch into the FTE Community each FTE community switch must have **root guard** implemented on each of the TOR switch connections.

#### 4.3.1 Configure Back Bone switch for Top of Rack (TOR) connection

- a) Confirm the latest backup exists for all FTE Backbone switches involved.

- b) Verify the current Spanning Tree configuration on the Backbone switches. Make sure the Yellow and Green Back Bone switches are the spanning tree root for all the communities involved.
- c) Configure the designated ports for connecting to the TOR switches by copying the existing port configuration and change the description and VLAN to match the community configuration. Sample as below for 3850-12S-S back bone switch.

```
interface GigabitEthernet1/0/XX
description TOR-Yellow-SWITCH
no ip address
switchport access vlan 101
switchport mode access
service-policy input cda_in_policy
service-policy output cda_out_policy
storm-control broadcast level bps 20m 18m
storm-control multicast level bps 20m 18m
storm-control action trap
spanning-tree guard root
```

- d) For any other type of FTE Back Bone Switch use the following syntax for each of the TOR connections to the FTE Network:

```
interface GigabitEthernet1/0/XX
description TOR-Yellow-SWITCH
no ip address
switchport access vlan 101
switchport mode access
mls qos trust dscp
service-policy input cda_policy
srr-queue bandwidth share 1 2 3 4
priority-queue out
storm-control broadcast level bps 20m 18m
storm-control multicast level bps 20m 18m
storm-control action trap
spanning-tree guard root
```

- e) Repeat for each Green Connection to the Back bone switch for each FTE Community.