LF Home Edge

TSC Monthly Call
5-Nov-2019
Meeting Details

Time: Nov 5, 2019 06:30 AM PDT/ 08:00 PM IST/ 11:30 PM KST

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Meeting ID: 631 410 489

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<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>05 Nov 2019</th>
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</thead>
<tbody>
<tr>
<td>Peter Moonki Hong</td>
<td>Samsung</td>
<td>Yes</td>
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<tr>
<td>Karthikeyan Subramani</td>
<td>Samsung</td>
<td>Yes</td>
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<tr>
<td>Chitti Nimmagadda</td>
<td>Ericsson</td>
<td>Yes</td>
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<tr>
<td>Michael Hall</td>
<td>LF Edge</td>
<td>Yes</td>
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<tr>
<td>Tiejun Chen</td>
<td>VM Ware</td>
<td>Yes</td>
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<tr>
<td>David Martin</td>
<td>me.com</td>
<td>Yes</td>
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<td>Suresh</td>
<td>Samsung</td>
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<td>Nitu</td>
<td>Samsung</td>
<td>Yes</td>
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Topics

1. Baobab Release Update
2. IOT SWC Update (Oct 29-30, Barcelona, Spain)
3. Action Items
4. AoB
5. Adjourn
Baobab Release Update

- Edge Device/App Discovery
- Device Resource Monitoring
- Edge App Remote Execution
- Support Android (*.apk)
- **Secure Messaging TLS**
- Sample Service (Distributed Web Engine)

https://github.com/lf-edge/edge-home-orchestration-go/tree/Baobab
ANOMALY DETECTION
Tampering surveillance camera

CCTV Camera
Low End Computing device
Home Environment surveillance camera with low computing power just records and sends the camera feed.

CCTV (Camera Tampering/Malfunction)
Anomaly detected
When there is camera Tampering / Malfunction happens, it requests high computing devices in Home Environment to do detailed analysis of the video.

Home Environment
Edge Computing device
Service offloading to a high capable device (Laptop, Mobile, TV) based on the scoring method to perform the video analysis (Local Execution).

Identifies the clause to notify user

CCTV Camera Tampering
Alert user with tampering video clip
Identify the type of tampering by sending a short clip of proof to the user for taking further actions.

Device Faulty
Raise service ticket
Identifies and collates the malfunction report as a service ticket by notifying the user to take further actions.
### Action Items

<table>
<thead>
<tr>
<th>S.No</th>
<th>Prospective Areas for Collaboration</th>
<th>Stake Holders</th>
<th>Status</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Share open-horizon details</td>
<td>Joe Pearson</td>
<td>Open</td>
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<tr>
<td></td>
<td><a href="https://github.com/open-horizon/">https://github.com/open-horizon/</a></td>
<td><a href="mailto:joe.pearson@us.ibm.com">joe.pearson@us.ibm.com</a></td>
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<td>2</td>
<td>Share Balena details</td>
<td>David Martin</td>
<td>Open</td>
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<tr>
<td></td>
<td>(Host OS Tailored for containers)</td>
<td><a href="mailto:dcmartin@me.com">dcmartin@me.com</a></td>
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</tr>
<tr>
<td>3</td>
<td>Share OCI spec docker run time details</td>
<td>David Martin</td>
<td>Open</td>
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<td><a href="mailto:dcmartin@me.com">dcmartin@me.com</a></td>
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<tr>
<td>4</td>
<td>High Level Code Go Framework</td>
<td>Karthikeyan Subramani</td>
<td>Open</td>
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<td></td>
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<td><a href="mailto:karthi.s@samsung.com">karthi.s@samsung.com</a></td>
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<tr>
<td>5</td>
<td>Colloboration with EdgeX data storage</td>
<td>Jim white</td>
<td>Open</td>
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<tr>
<td>6</td>
<td>Colloboration with EVE containeriazation</td>
<td>Aaron Williams</td>
<td>Open</td>
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<tr>
<td>7</td>
<td>NNAS(Inference Engine)</td>
<td>Karthikeyan Subramani</td>
<td>Open</td>
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Participants:
IBM, Ericsson, VMWare, LF (LF Edge Tech.Ev.gegelist-M. Hall), SRI-B, SR OSG

Below are the following points that are noted for the MOM of Open Source

1. Baobab Release Update discussed with the participants. Explained about the new features released in Baobab.

2. IoT Barceolna world congress Experience shared with the participants. Feedback and VOC of the people visiting the booth was also discussed.

3. LF Edge YouTube Channel Promotion by putting the videos of the IOT SWC. Sharing of the Information about Baobab release and IOT SWC images to Micheal

4. Chitti Nimmagadda: Inquires regarding if the orchestration can be moved to nearest edge servers. Agreed to discuss on the same in next meeting

5. Introduction to the "NNAS". Details would be shared at the next meeting.

6. Security, Inference Engine and Container Deployment to be the main areas of focus for Home Edge was informed.

7. Containerized OS collaboration with Project Eve. Will Check the feasibility of Project EVE with Home Edge and share the progress in the next meeting.

8. Tiejun Chen: suggested inference engine proposal on device ML. Will be discussed with conference call.
Next Meeting

› Tuesday, Dec 3 06:30 AM PDT/ 08:00 PM IST/ 11:30 PM KST
Thank You